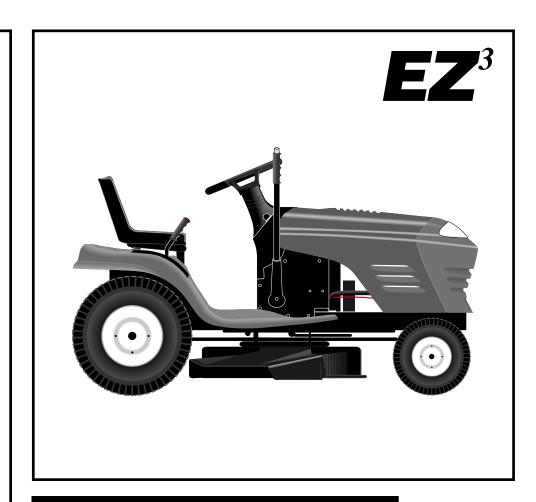


MODEL NO. 944.600952

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



CRAFTZMAN®

17.5 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

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

SAFETY RULES





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 build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

DO NOT:

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

III. CHILDREN

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

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

IV. SERVICE

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

SAFETY RULES

Safe Operation Practices for Ride-On Mowers













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



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:	1.25 GALLONS UNLEADED REGULAR		
OIL TYPE (API-SF-SJ):	SAE 10W30 (above 32°F) SAE 5W-30 (below 32°F)		
OIL CAPACITY:	4.5 PINTS		
SPARK PLUG: (GAP: .030")	Champion RC12YC		
GROUND SPEED (MPH):	: FORWARD: 5.5 REVERSE: 2.4		
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI		
CHARGING SYSTEM:	15 AMPS @ 3600 RPM		
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R		
BLADE BOLT TORQUE:	27-35 FT. LBS.		

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

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

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

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "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:

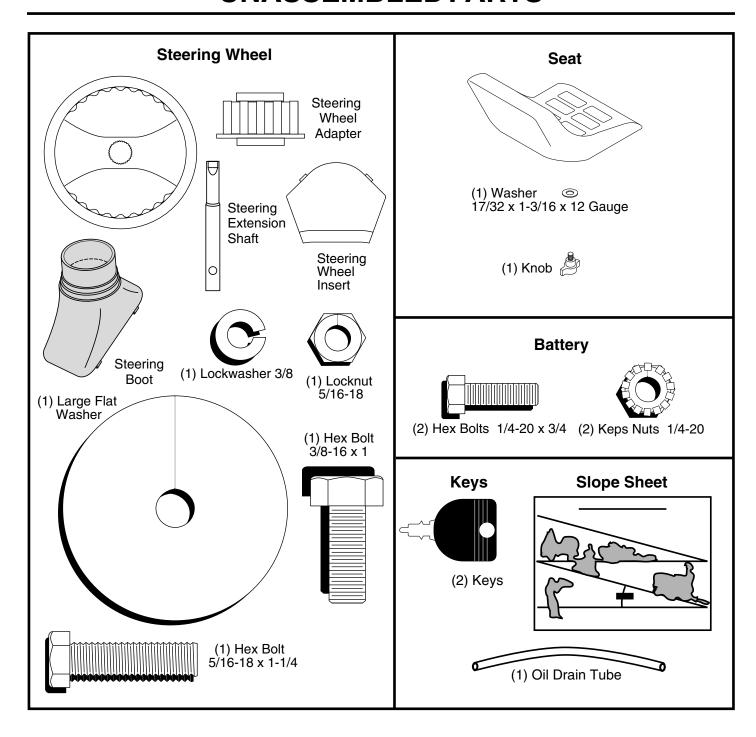
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse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



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

(1) 9/16" wrench Pliers

(2) 7/16" wrenches Tire pressure gauge

(2) 1/2" wrenches Utility knife

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

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

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL (See Fig. 1)

ASSEMBLE EXTENSION SHAFT AND BOOT

 Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

IMPORTANT: TIGHTEN BOLT AND NUT SECURELY TO 18-22 FT. LBS TORQUE.

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

INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straightforward.
- Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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

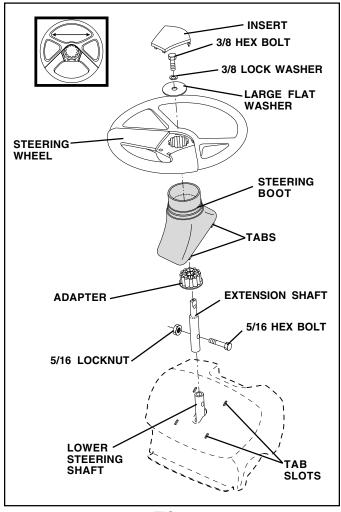


FIG. 1

HOW TO SET UP YOUR TRACTOR

CONNECT BATTERY (See Figs. 2 and 3)



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.

- Remove cardboard packing from seat pan and lift seat pan to raised position.
- Open battery box door and remove protective plastic.
- 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.

ASSEMBLY

- First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.
- Close battery box door.

Open battery box door for:

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

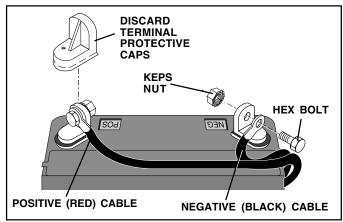


FIG. 2

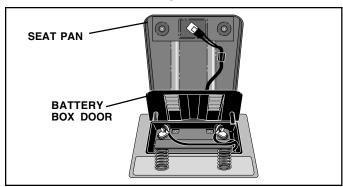


FIG. 3

INSTALL SEAT (See Fig. 4)

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.

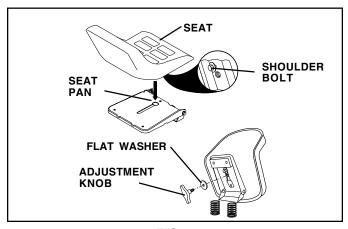


FIG. 4

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

TO ROLL TRACTOR OFF SKID (See Operation section page 10 for location and function of controls)

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

TO DRIVE TRACTOR OFF SKID (See Operation section page 10 for location and function of controls)

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

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

ASSEMBLY

INSTALL MULCHER PLATE (If previously removed) (See Fig. 5)

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



CAUTION: Do not remove deflector shield from mower. Raise and hold shield when attaching mulcher plate and allow it to rest on plate while in operation.

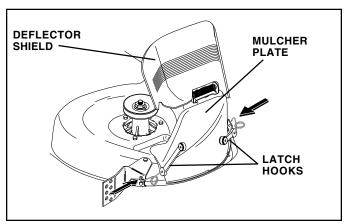


FIG. 5

TO CONVERT TO BAGGING OR DISCHARGING

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

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

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.

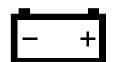
PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ 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.
- $\checkmark \hspace{0.2in}$ 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 "PURGETRANSMISSION" 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



LOW



PARKING BRAKE



ATTACHMENT CLUTCH DISENGAGED









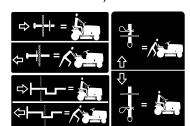


KEEP AREA CLEAR

SLOPE HAZARDS (SEE SAFETY RULES 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.

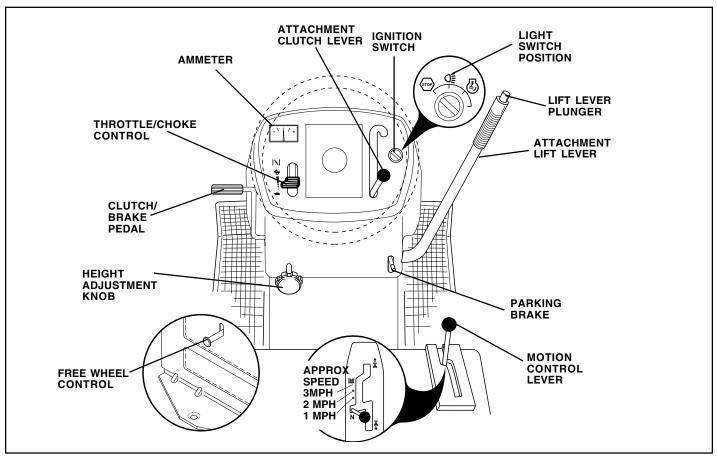


FIG. 6

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

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

THROTTLE/CHOKE CONTROL: Used for starting and controlling engine speed.

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

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

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

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower cutting height.

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

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

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

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

IGNITION SWITCH: Used for starting and stopping the engine.



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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 7)

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

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

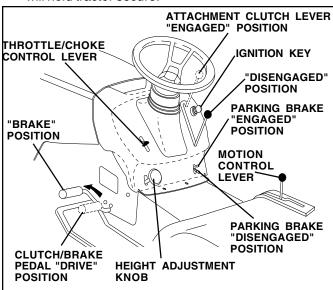


FIG. 7

STOPPING (See Fig. 7)

MOWER BLADES -

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

GROUND DRIVE -

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

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

• Move throttle control to slow position.

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

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

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

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



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

TO USE THROTTLE CONTROL (See Fig. 7)

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACKWARD (See Fig. 7)

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

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 7)

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise () to raise cutting height.
- Turn knob counterclockwise () to lower cutting height.

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

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

TO ADJUST GAUGE WHEELS (See Fig. 8)

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

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

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer, and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

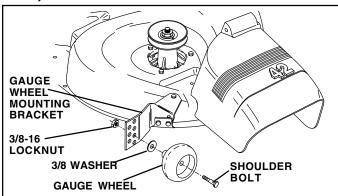


FIG. 8
TO OPERATE MOWER (See Fig. 9)

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

- Select desired height of cut.
- Lower mower with attachment lift control.
- 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.

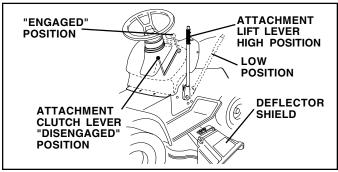


FIG. 9 12

TO OPERATE ON HILLS



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

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

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

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

TO TRANSPORT (See Figs. 6 and 10)

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

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

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.).

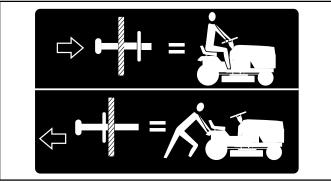


FIG. 10

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.
- Unthread and remove oil fill cap/dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. 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. 6)

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

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

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F AND BELOW)

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

AUTOMATIC TRANSMISSION WARM UP

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

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

PURGE TRANSMISSION



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

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

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

- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "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. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

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

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

MOWING TIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 11).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing
 to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting
 a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

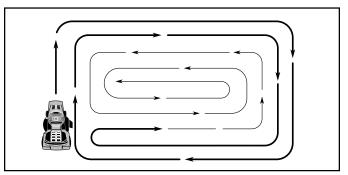


FIG. 11

MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 12). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

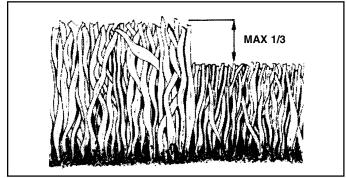


FIG. 12

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	.E	EFORE	EACHUS EVERY 8	HOURS HOURS	5 HOUR'S	SHOUP OHOUP VERY S	S HOUS	AS ON EASON EFORE	STORA SER	VICE	DA.	TES
	Check Brake Operation	V	1										
	Check Tire Pressure	~	1										
Т.	Check Operator Presence and Interlock Systems	~											
R	Check for Loose Fasteners	~				1 7		/					
I A	Sharpen/Replace Mower Blades			1 4									
Ι¥	Lubrication Chart			/				/					
Ιċ	Check Battery Level			6									
R	Clean Battery and Terminals			/				/					
	Check Transaxle Cooling			/									
	Adjust Blade Belt(s) Tension					1 5							
	Adjust Motion Drive Belt(s) Tension					1 5							
	Check Engine Oil Level	V	/										
	Change Engine Oil			1,2,3				V					
ΙE	Clean Air Filter			√ 2									
N	Clean Air Screen			√ 2									
Ģ	Inspect Muffler/Spark Arrester				1								
	Replace Oil Filter (If equipped)					1,2							
ΙË	Clean Engine Cooling Fins					√ 2							
-	Replace Spark Plug					1	/						
	Replace Air Filter Paper Cartridge					1 2							
	Replace Fuel Filter						1						

- 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.

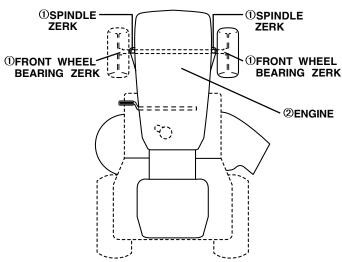
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 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



①GENERAL PURPOSE GREASE ②REFER 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, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" section of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

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

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.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.

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

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

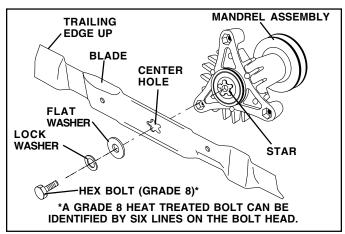


FIG. 13

TO SHARPEN BLADE (See Fig. 14)

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.

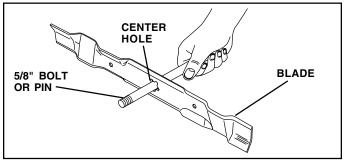


FIG. 14

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 16 necessary.

TO CLEAN BATTERY AND TERMINALS

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

- Open battery box door.
- 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.

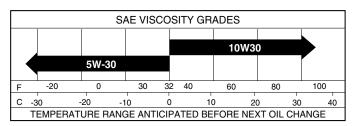
TRANSAXLE PUMP FLUID

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.



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 cap from bottom fitting of drain valve and install the drain tube onto the fitting.
- Unlock drain valve by pushing inward and turning counterclockwise.
- To open, pull out on the drain valve.
- After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- Remove the drain tube and replace the cap onto 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. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

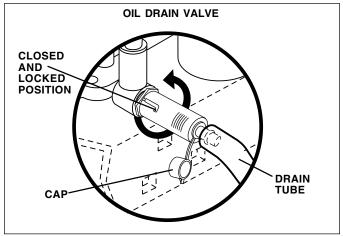


FIG. 15

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 knob and cover.
- · Remove wing nut and air cleaner from base.

TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth. Allow it to dry.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

Replace a dirty, bent, or damaged cartridge.

NOTE: Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge.

- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Reassemble air cleaner, wing nut, cover and tighten knob securely.

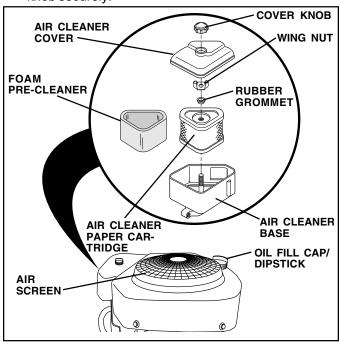


FIG. 16

MUFFLER

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

SPARK PLUGS

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

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.

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.

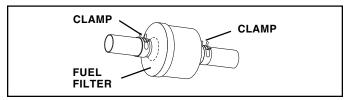


FIG. 17

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 clutch/brake pedal fully and set parking brake.
- Place motion control lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key "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)

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

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

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

TO INSTALL MOWER (See Fig.18)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with deflector shield to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.

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.

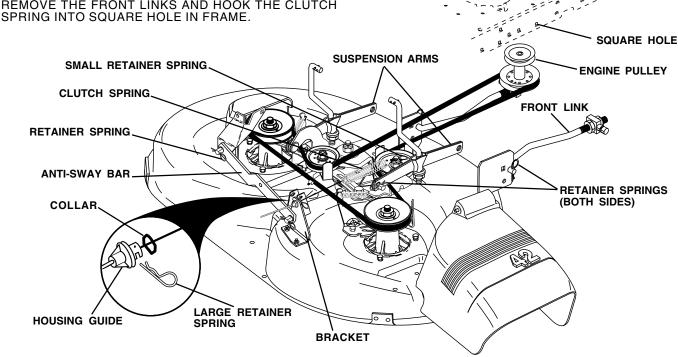


Fig. 18

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

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

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

Recheck measurements after adjusting.

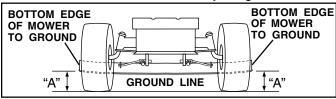


FIG. 19

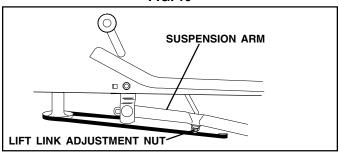


FIG. 20

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-

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

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

- Before making any necessary adjustments, check that both front links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.

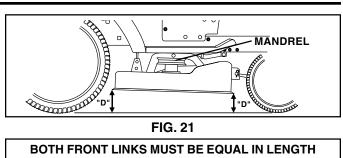


FIG. 21

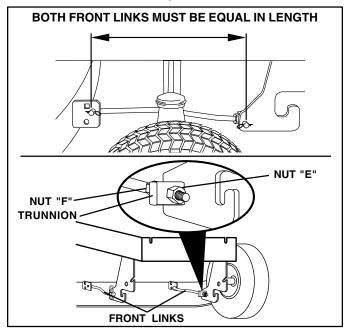


FIG. 22

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

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

BELT REMOVAL -

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

BELT INSTALLATION -

- Install new belt in reverse order of removal.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower in reverse order of removal instructions.

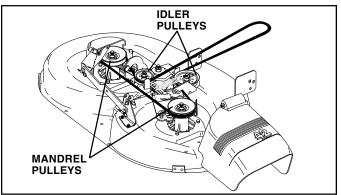


FIG. 23

TO ADJUST BRAKE (See Fig. 24)

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 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". 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.

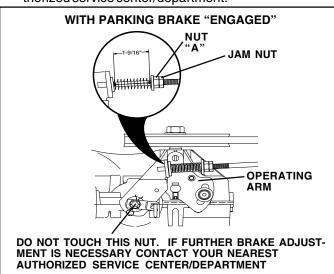


FIG. 24

TO REPLACE MOTION DRIVE BELT (See Fig. 25)

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- 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 downward from around engine pulley.
- Install new belt by reversing above procedure.

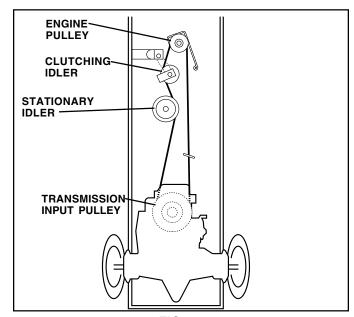


FIG. 25

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

The motion control lever has been preset at the factory and adjustment should not be necessary.

- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment bolt.
- Move motion control lever to the neutral (N) (lock gate) position.
- Tighten adjustment bolt securely.

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

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

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

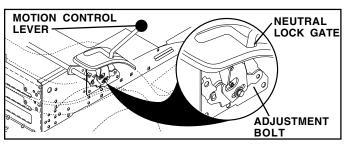


FIG. 26

TRANSMISSION REMOVAL/REPLACEMENT

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

TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toein 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
- 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.

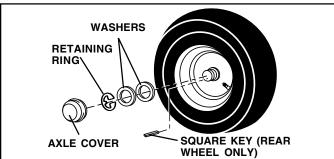


FIG. 27

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 22 •

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.

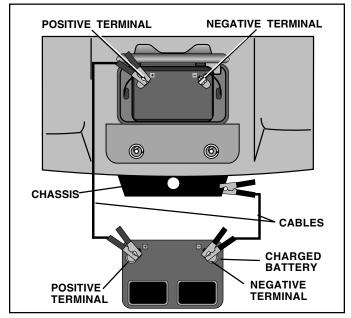


FIG. 28

TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- Close hood.

INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 20 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 29)

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

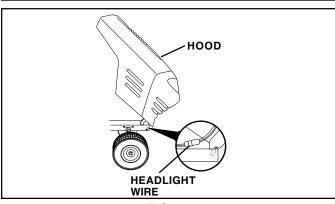


FIG. 29

ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 30)

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

- With engine not running, move throttle control lever from slow to choke position. Slowly move lever from choke to fast position.
- Check to see if hole in throttle lever and hole in speed control bracket are aligned.
- If holes are not aligned, loosen cable clamp screw and align the holes by inserting a pencil or a 1/4" drill bit through both holes.
- Pull throttle cable up to remove slack and tighten cable clamp screw. Remove alignment pencil or drill bit.

TO ADJUST CARBURETOR (See Fig. 31)

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

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

IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF NEEDLE IS TURNED IN TOO TIGHT.

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

- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- Start engine and allow to warm for five minutes. Make adjustments with engine running and shift/motion control lever in neutral (N) position.
- Idle speed setting With throttle control lever in slow position, engine should idle at 1750 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting With throttle control lever in slow position, turn idle fuel adjustment needle in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST-

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

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

IMPORTANT: 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.

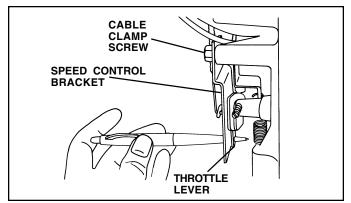


FIG. 30

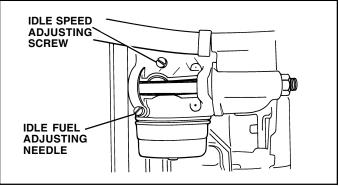


FIG. 31

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

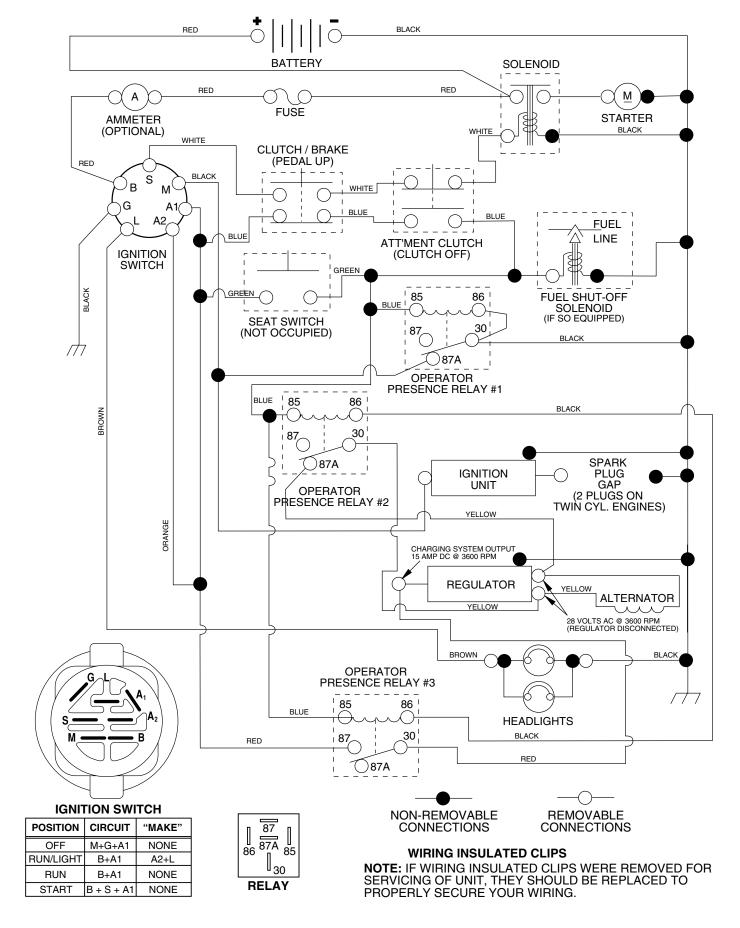
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. 8. Engine valves out of adjustment.	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Engine will not turn over	 Brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	 Depress brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. 	 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 Service Adjustments section. Contact an authorized service center/department.
Excessive vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.

TROUBLESHOOTING POINTS

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

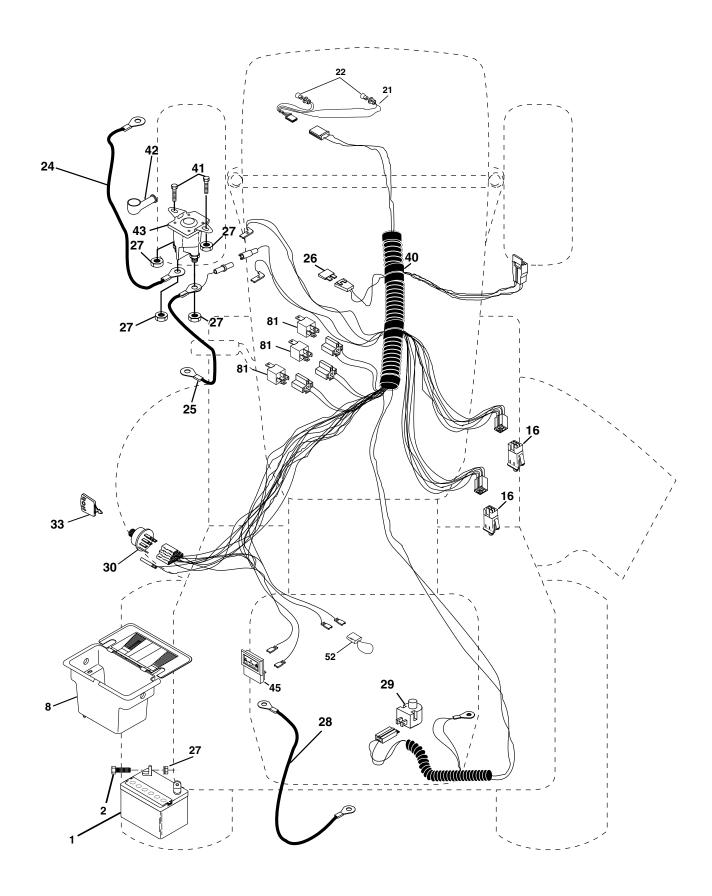
TRACTOR - - MODEL NUMBER 944.600952

SCHEMATIC



TRACTOR - - MODEL NUMBER 944.600952

ELECTRICAL



TRACTOR - - MODEL NUMBER 944.600952

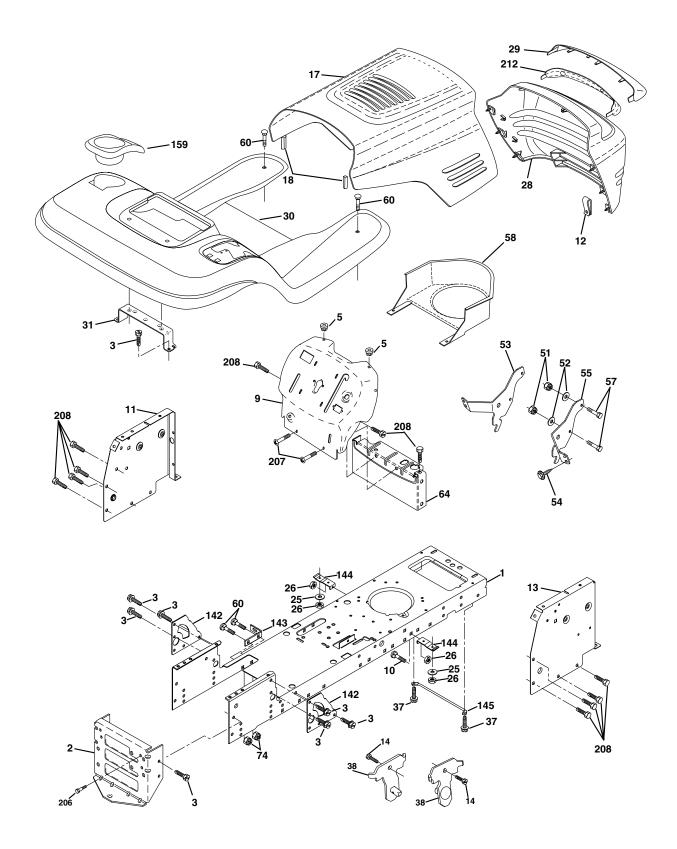
ELECTRICAL

PART NO.	DESCRIPTION
163465	Battery Bolt Hex Hd 1/4-20unc X 3/4
	Case Battery Mech Hinge
	Switch Interlock N Opn/N Opn
	Harness Asm Light W/4152J
	Bulb Light #1156
	Cable Battery 6 Ga 11"red
	Cable Battery 6 Ga w/16 wire, red
	Fuse 20 AMP
	Nut Kep Hex 1/4-20
	Cable Ground 6 Ga 12" black
160784	Switch Plunger Normal Op Olive
175566	Switch Ign
140403	Key Ign
178439	Harness Ign
71110408	Bolt Blk Fin Hex 1/4-20unc X 1/2
131563	Cover Terminal Red
175141	Solenoid
122822X	Ammeter
141940	Protection Wire Loop (Hourmeter)
109748X	Relay Asm
	NO. 163465 74760412 156417 161343 166182 4152J 4799J 146147 175158 73510400 4207J 160784 175566 140403 178439 71110408 131563 175141 122822X 141940

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

TRACTOR - - MODEL NUMBER 944.600952

CHASSIS AND ENCLOSURES



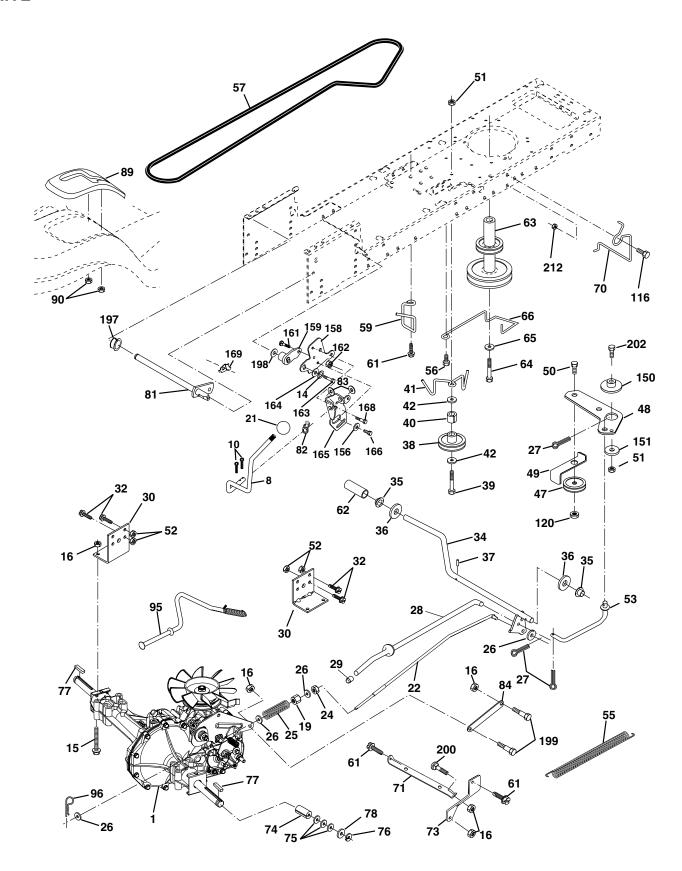
TRACTOR - - MODEL NUMBER 944.600952 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1 2 3	174619 174554 17060612	Chassis Drawbar Screw 3/8-16x3/4
5	155272	Bumper Hood/Dash
9	168337X011	Dash P/L M, W/AMM N/HM
10	STD533710	Bolt Carriage 3/8-16 x 1
11	155927	Panel Dash Lh
12	145660	Clip Tinnerman Grille P/L
13	172108	Panel Dash Rh
14	17490608	Screw Thdrol 3/8-16 x 1/2
17 18	144983X558 126938X	Hood Rumper Hood
25	19131312	Bumper Hood Washer 13/32 X 13/16 X 12 Ga
26	STD541437	Nut Lock Hex W/Ins 3/8-16 Unc
28	156725X558	Grille/Lens Asm
29	155217X599	Lens Grille
30	164919X558	Fender Footrest STLT Pnt
31	139976	Bracket Support Fender
37	17490508	Screw Thdrol 6/16-18 x 1/2 TYT
38 51	175710 73800400	Bracket, Asm. Pivot, Mower Rear Nut Lock Hex W/Ins 1/4-20
51 52	19091416	Washer 9/32 x 7/8 x 16 Ga.
53	145201	Bracket Grille Pick off L.H.
54	161464	Screw Hex Wshd 8-18 x 7/8
55	145202	Bracket Grille Pickoff R.H.
57	74780412	Bolt Hex 1/4-20 x 3/4
58	150127	Duct Air Engine PL/LT
60	STD533707	Bolt Rdhd Sqnk 3/8-16unc x 3/4
64	154798 CTD 44407	Dash Lower STLT
74 142	STD541437 165867	Nut Crownlock 3/8-16 UNC Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	175582	Bracket Pnt Footrest STLT
145	156524	Rod Pivot Chassis/Hood
159	155123X428	Cupholder STLT Black
206	170165	Bolt Shoulder 5/16-18 UNC
207	17670508	Screw Thdrol 5/16-18 x 1/2
208	17670608	Screw Thdrol 3/8-16 x 1/2
212	165919	Insert Lens Reflective
	5479J	Plug Button

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

TRACTOR - - MODEL NUMBER 944.600952

DRIVE



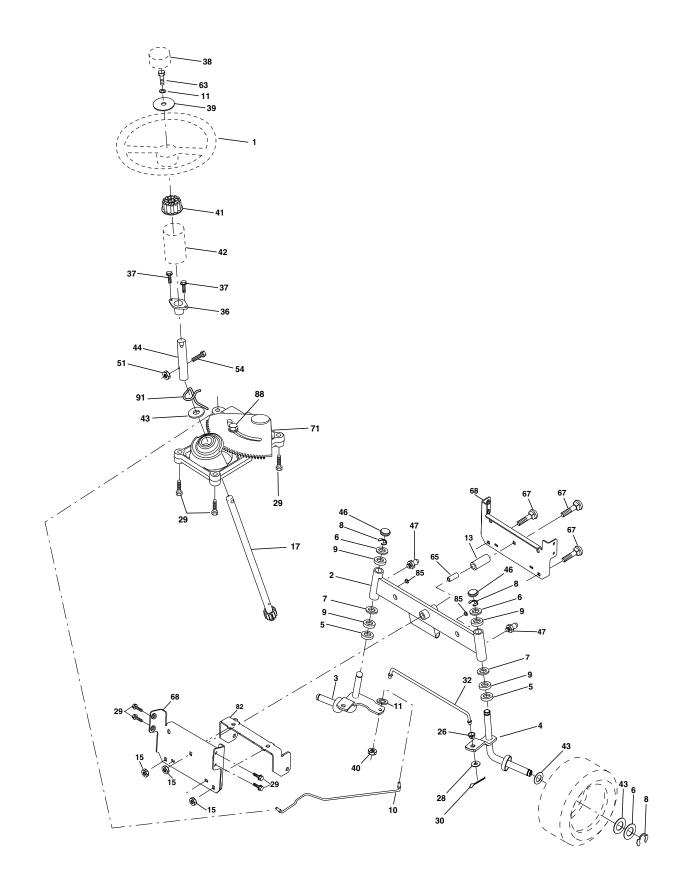
TRACTOR - - MODEL NUMBER 944.600952

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown) Hydro Gear Model 314-0510	65 66	STD551143 154778	Washer Keeper Belt Engine
8	165866	Rod Shift	70	134683	Keeper Belt Engine
10	STD561210	Pin Cotter 1/8 x 1 CAD	71	169183	Strap Torque Lh
14	10040400	Washer Lock Hvy. Helical 1/4	72	19132012	Washer 13/32 x 1-1/4 x 12 Gauge
15	74490544	Bolt, Hex FLGHD 5/16-18 Gr. 5	73	169182	Strap Torque Rh
16	STD541431	Nut Lock Hex W/Ins 5/16-18 Unc P	74	137057	Spacer, Axle
19	STD541437	Nut Lock Hex W/Wsh 3/8-16 Unc	75 70	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
21 22	130564 169498	Knob, Deluxe 1/2-13	76 77	STD581075 123583X	E-Ring
22 24	STD541273	Rod, Brake Nut	77 78	123563A 121748X	Key, Square Washer 25/32 x 1-5/8 x 16 Gauge
25	106888X	Spring, Brake Rod	81	165596	Shaft Asm. Cross
26	STD551037	Washer	82	165711	Spring Torsion
27	STD561210	Pin Cotter 1/8 x 3/4 CAD.	83	19171216	Washer 17/32 x 3/4 x 16 Ga.
28	175765	Rod, Parking Brake	84	169594	Link, Transaxle
29	71673	Cap, Parking Brake	89	164890X428	Console, Shift
30	169592	Bracket, Transaxle	90	124346X	Nut Self Thd Wsh-Hd 1/4 Zinc
32	STD523107	Bolt Hex Hd 5/16-18 Unc x 3/4	95	170201	Control Asm Bypass Hydro
34 35	175578 120183X	Shaft, Foot Pedal	96 116	STD624003 72140608	Retainer Spring 1" Zinc/Cad
36	STD551062	Bearing, Nylon Washer	120	73900600	Bolt Rdhd Sq. Neck 3/8-16 x 1.0 Nut Lock Flg 3/8-16
37	STD571810	Pin, Roll	150	175456	Spacer Retainer
38	165936	Pulley, Idler, Flat	151	19133210	Washer 13/32 x 2 x 10 Ga.
39	74760648	Bolt	156	166002	Washer Srrted 5/16 ID x 1 x .125
40	175461	Spacer, Split	158	165589	Bracket Shift Mount
41	175556	Keeper, Belt	159	165494	Hub Tapered Flange Shift LT
42	19131312	Washer 13/32 x 13/16 x 12 Gauge	161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
47 48	127783	Pulley, Idler, V-Groove	162 163	73680400	Nut Crownlock 1/4-20 Unc
46 49	154407 123205X	Bellcrank Clutch Grnd Drv STL Retainer, Belt	164	74780416 19091010	Bolt Hex Fin 1/4-20 Unc x 1 Gr. 5 Washer 5/8 x .281 x 10 Ga.
49 50	STD523715	Bolt	165	165623	Bracket Pivot Lever
51	STD541437	Nut Crownlock 3/8-16 UNC	166	166880	Screw 5/16-18 x 5/8
52	STD541431	Nut Crownlock 5/16-18 UNC	168	165492	Bolt Shoulder 5/16-18 x .561
53	105710X	Link, Clutch	169	165580	Plate Fastening LT
55	105709X	Spring, Return, Clutch	197	169613	Nyliner Snap-In 5/8" ID
56	17060616	Screw 3/8-16 x 1	198	169593	Washer Nyl 7/8 ID x .105"
57	140294	V-Belt, Ground Drive	199	169612	Bolt Shoulder 5/16-18 UNC
59	169691	Keeper, Center Span	200 202	72140508	Bolt Rdhd Sqnk 5/16-18 UNC x 1
61 62	17060612 8883R	Screw 3/8-16 x 3/4 Cover, Pedal	202 212	72110614 145212	Bolt Carr Sh 3/8-16 x 1-3/4 Gr. 5 Nut Hex Flg. Lock
63	175410	Pulley, Engine			<u> </u>
64	71170764	Bolt, Hex	NOTE	1 inch = 25	ent dimensions given in U.S. inches .4 mm

TRACTOR - - MODEL NUMBER 944.600952

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.600952

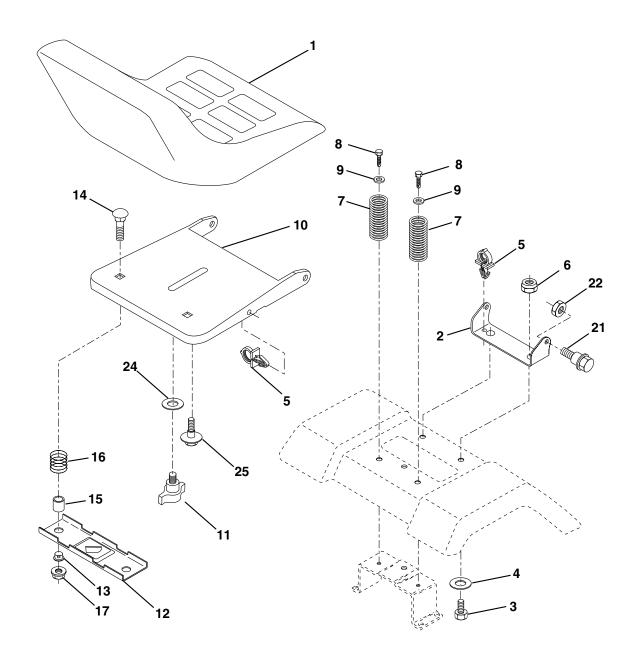
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	139768	Wheel Steering
2	154427	Axle Asm STMP Dropped STL
3	169840	Spindle Asm LH
4	169839	Spindle Asm RH
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 X 1-5/8 X 16 Ga
7	19272016	Washer 27/32 X 1-1/4 X 16 Ga
8	12000029	Ring Klip #t5304-75
9	3366R	Bearing Col Strg Blk
10	175121	Link Drag
11	STD551137	Washer Lock Hvy Hlcl Spr 3/8
13	136518	Spacer Brg Axle Front
15	145212	Nut Hex Flange Lock
17	177876	Shaft Asm Strg
26	126847X	Bushing Link Drag Blk LR
28	19131416	Washer 13/32 X 7/8 X 16 Ga
29	17060612	Screw 3/8-16x3/4
30 32	STD561210 130465	Pin Cotter 1/8 X 3/4 Cad Rod Tie Wire Form 19 75 Mech
36	155099	Bushing Strg
37	152927	Screw
38	139769	Insert Cap Strg Wh Au
39	19133812	Washer 13/32 X 2-3/8 X 12 Ga
40	STD541537	Lock nut
41	100711L	Adaptor Wheel Strg
42	145054X428	Boot Steering Shaft
43	121749X	Washer 25/32 X 1 1/4 X 16 Ga
44	153720	Extension Steering Shaft LR/LT
46	121232X	Cap Spindle Fr Top Blk
47	6855M	Fitting Grease
51	STD541431	Nut Lock Hex w/Ins 5/16-18
54	STD523112	Bolt Fin Hex 5/16-18 Unc x 1-1/4
63	STD523710	Bolt Fin Hex 3/8-16unc x 1 Gr. 5
65	160367	Spacer Brace Axle
67	72140618	Bolt, Rdhd Sq 3/8-16 UNC x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm.
82 85	169835	Bracket Susp Chassis Front Fastener Christmas Tree
88	133835 175118	Bolt Shoulder 7/16-20 Unc
oo 91	175553	Clip
JI	170000	Clip

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

TRACTOR - - MODEL NUMBER 944.600952

SEAT ASSEMBLY



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	140123	Seat	13	121248X	Bushing Snap Blk Nyl 50 ld
2	140551	Bracket Pivot Seat 8 720	14	72050412	Bolt Rdhd Sqnk 1/4-20x1-1/2
3	71110616	Bolt Fin Hex 3/8-16unc X 1	15	134300	Spacer Split 28x 96 Yel Zinc
4	19131610	Washer 13/32 X 1 X 10 Ga	16	121250X	Spring Cprsn 1 27 Blk Pnt
5	145006	Clip Push-In	17	123976X	Nut Lock 1/4 Lge Flg Gr 5 Zinc
6	STD541437	Nut Hex w/Ins. 3/8-16 Unc	21	171852	Bolt Shoulder 5/16-18 Unc
7	124181X	Spring Seat Cprsn 2 250 Blk Zi	22	STD541431	Nut Hex Lock W/Ins 5/16-18
8	17000616	Screw 3/8-16 X 1-1/2	24	19171912	Washer 17/32 X 1-3/16 X 12 Ga.
9	19131614	Washer 13/32 X 1 X 14 Ga.	25	127018X	Bolt Shoulder 5/16-18 X 62
10	174894	Pan Seat	NOTE	. All compon	ant dimensione siven in LLC inches
11	166369	Knob Seat	NOTE	1 inch – 25	ent dimensions given in U.S. inches

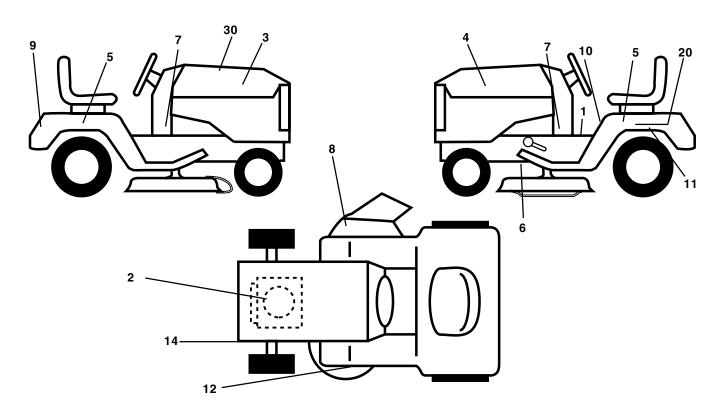
Bracket Mounting Switch

12

121246X

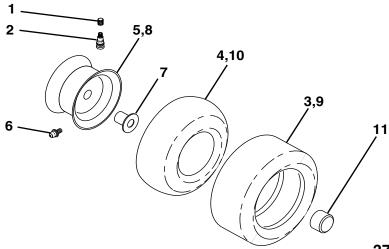
TRACTOR - - MODEL NUMBER 944.600952

DECALS



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	157032	Decal Fend STLT Oper	11	138047	Decal Battery
2	171736	Decal Engine .	12	166887	Decal Deck ÉZ3
3	171698	Decal Hood RH	14	160396	Decal V-Belt Schematic
4	171699	Decal Hood LH	20	149517	Decal Bat Dan/Psn
5	163205	Decal Fender Sd Wht Rad Auto	30	172270	Decal Replacement Parts
6	146046	Decal V Belt Drive Sch		169210	Decal Cntrl Movement HYD Lt
7	171710	Decal Dash Pnl		165800X428	Pad Footrest LH STLT
8	137259	Decal Warning Mult-Language		165799X428	Pad Footrest RH STLT
9	163204	Decal Craftsman		138311	Decal Handle Lft Height Adjust
10	157140	Decal Fender Danger Eng/Fr		179042	Manual Owner's (English)
		- 0		179043	Manual Owner's (French)

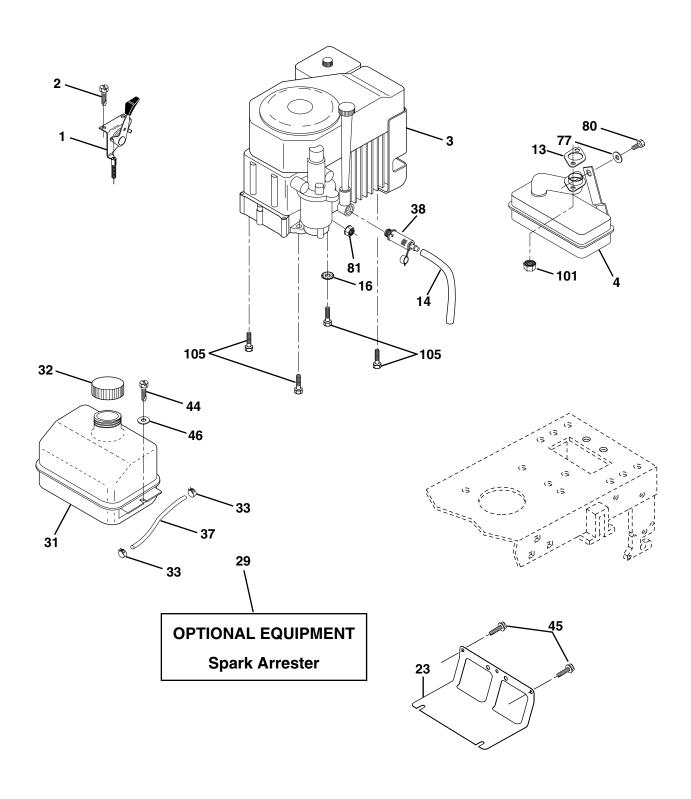
WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Front (Service Item Only)
5	106732X427	Rim Asm 6"front Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel Only)
8	106108X427	Rim Asm 8"rear Service
9	122082X	Tire R Ts 20x10-8 C Service
10	7152J	Tube Rear (Service Item Only)
11	104757X	Cap Axle Blk 1 50 X 1 00
	144334	Sealant, Tire (10 oz. Tube)

TRACTOR - - MODEL NUMBER 944.600952

ENGINE



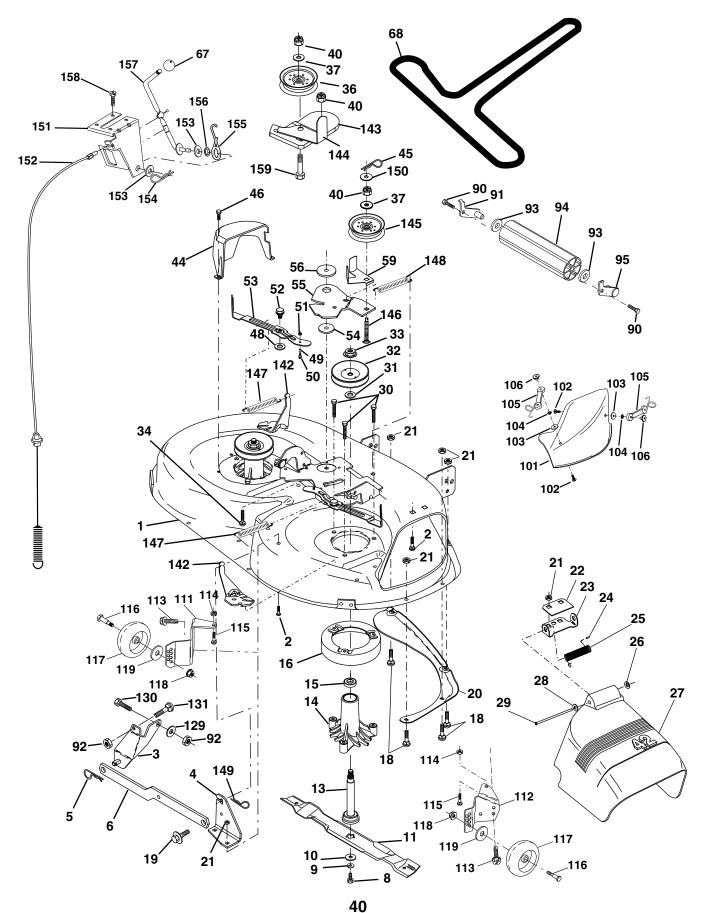
TRACTOR - - MODEL NUMBER 944.600952

ENGINE

KEY NO.	PART NO.	DESCRIPTION
1	170548	Control Th/ch Pdl
2	17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3		Engine, Kohler Model CV490-27508 (See Engine Breakdown)
4	174667	Muffler
13	12-041-03	Gasket Eng
14	148456	Tube Drain Oil
16	STD551237	Washer Lock Ext Tooth 3/8
23	169837	Shield Brn/Dbr Guard
29	137180	Kit Spark Arrestor (Flat Scrn)
31	109202X	Tank Fuel Front 1 25
32	158990	Cap Asm Fuel Vented
33	123487X	Clamp Hose Black
37	137040	Line Fuel 20"
38	148315	Plug Oil Drain
40	124028X	Bushing Snap Nyl Blk Fuel Line
44	17670412	Screw Hexwsh Thdrol 1/4-20x3/4
45	17000612	Screw
46	19091416	Washer 9/32 X 7/8 X 16 Ga
77	STD551031	Washer 5/16 x 3/4 x 16 Ga.
80	STD523105	Bolt Hex Hd 5/16-18 x 1/2
81	STD541425	Nut Flange 1/4-20 Starter Nut
101	M73030800	Nut Flange M8-1.25
105	17120616	Screw 3/8-16 x 1

TRACTOR - - MODEL NUMBER 944.600952

MOWER DECK



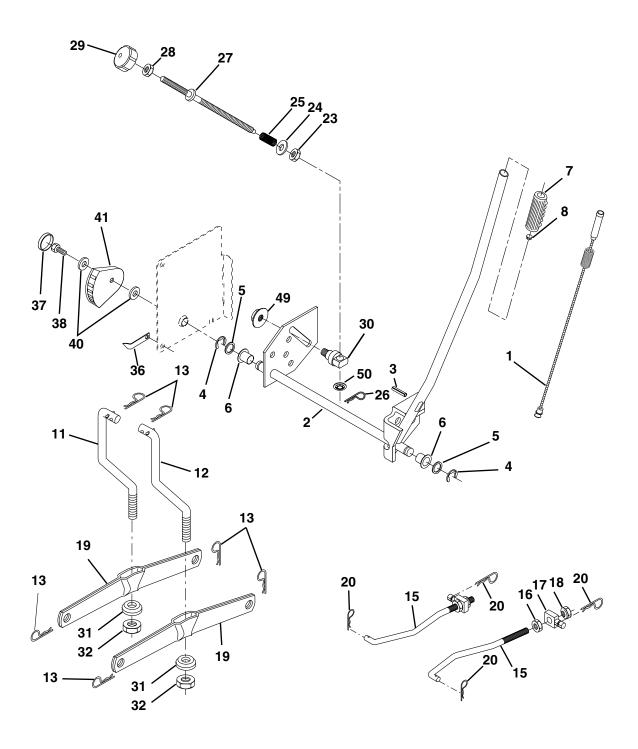
TRACTOR - - MODEL NUMBER 944.600952

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165892	Mower Deck Assembly, 42"	59	141043	Guard TUV Idler
2	STD533107	Bolt	67	149846	Knob Custom Oval
3	138017	Bracket Asm Fr. Sway Bar 3/42	68	144959	V-Belt, 42" Mower
4 5	165460 STD624008	Bracket Asm Deck 42" Sway Bar	90 91	17490612 175746	Screw Thdrol 3/8-16 x 3/4 Bracket Asm Noseroller LH
6	130832	Retainer Spring Arm, Suspension, Rear	92	STD541437	Nut, Lock, Hex W/Ins 3/8-16 UNC
8	850857	Bolt 3/8-24 x 25 Grade 8 patched	93	19171416	Washer 17/32 x 7/8 x 16 Ga.
9	STD551137	Washer, Lock	94	132264	Roller Nose 38 & 42
10	140296	Washer, Hardened	95	175747	Bracket Asm Noseroller RH
11	134149	Blade, Mulching 42" Std (Originally	101 102	136420 71161010	Mulcher Cover
		equipped with) (Following Blades are Optional)	102	19061216	Screw Washer, Flat
	138498	Blade Mower 42" Hi-Lift Std (For	104	10071000	Washer, Lock
		better bagging, especially in wet	105	160793	Latch Assembly
		conditions)	106	2029J	Nut, Weld
	139775	Blade Mulching Premium 42" (For	111	155197	Bracket, Gauge, Wheel LH
	138971	better wear when mulching) Blade Mower 42" Hi-Lift Premium	112 113	155198 17060514	Bracket, Gauge, Wheel RH Screw 5/16 - 18
	130971	(For better wear when bagging in	114	STD541431	Nut, Keps 5/16 - 18 UNC
		heavy or wet conditions)	115	72110504	Bolt, Carriage 5/16-18 x 1/2
13	137645	Shaft Assembly, Mandrel, Vented	116	4898H	Bolt, Shoulder
14	128774	Housing, Mandrel, Vented	117	165746	Wheel, Gauge
15 10	110485X	Bearing, Ball, Mandrel	118	73930600	Nut Centerlock 3/8-16
16 18	174493 STD533106	Stripper, Mower Deck Bolt, Carriage 5/16-18 x 5/8	119 121	19121414 143723	Washer 3/8 x 7/8 x 14 Ga. Bracket, Extruded
19	132827	Bolt, Shoulder	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
20	159770	Baffle, Vortex	130	STD523710	Bolt Fin Hex 3/8-16 UNC x 1 Gr. 5
21	STD541431	Nut	131	STD533710	Bolt Rdhd Sqnk 3/8-16 UNC x 1
22	134753	Stiffener Bracket	142	165890	Arm Spring Brake Mower
23 24	131267 105304X	Bracket, Deflector Mower 42" Cap, Sleeve 80 x 112 Blk Mower	143 144	157109 158634	Bracket Arm Idler 42" Keeper Belt 42" Clutch Cable
25	123713X	Spring, Torsion, Deflector 2 52	145	165888	Pulley Idler Flat
26	110452X	Nut, Push Phos & Oil	146	171977	Bolt Carriage Idler
27	130968X428	Shield, Deflector 42" Blk	147	131335	Spring Extension
28	19111016	Washer 11/32 x 5/8 x 16 Gauge	148	169022	Spring Return Idler
29 30	131491 157722	Rod, Hinge 42" 6 75 W/G Screw Thdrol Washer Head	149 150	165898 19091216	Retainer Spring Yellow Washer 9/32 x 3/4 x 16 Ga.
31	129963	Washer, Spacer Mower Vented	151	169670	Bracket Clutch Cable
32	153535	Pulley, Mandrel	152	169676	Clutch Cable 42"
33	137266	Nut, Toplock 9/16	153	169674	Washer Flat 3/8" Type B
34	STD533717	Bolt	154	169675	Spring Retainer
36 37	131494 STD551037	Pulley, Idler, Flat	155 156	169671 169672	Spring Retention LVR CLTCH CAB Spacer Clutch Cable
40	STD531037 STD541437	Washer 13/32 x 13/16 x 16 Gauge Nut	157	169669	Rod Clutch Cable 3/8"
44	140088	Guard, Mandrel, LH	158	17720410	Screw Hex Thd Cut 1/4-20 x 5/8
45	STD624003	Retainer	159	72140614	Bolt Rdhd Sqn 3/8-16 UNC x 1-3/4
46	137729	Screw, Thdrol 1/4-20 x 5/8 T		130794	Mandrel Assembly (Includes Key
48	133944	Washer, Hardened		160500	Numbers 8-10,13-15, 31 and 33)
49 50	174284 131340	Roller Assembly, Cam Follower Bolt, Shoulder #10-24 Grade 5		169583	Replacement Mower, Complete
51	STD541410	Locknut			
52	139888	Bolt, Shoulder 5/16-18 UNC			
53	131845	Arm Assembly, Pad, Brake			
54 55	133943	Washer, Hardened	NOTE	E: All compone	ent dimensions given in U.S. inches
55 56	155046 165723	Arm, Idler Spacer, Retainer	· · ·	1 inch = 25	
50	100120	opaodi, i idialilidi			

TRACTOR - - MODEL NUMBER 944.600952

MOWER LIFT

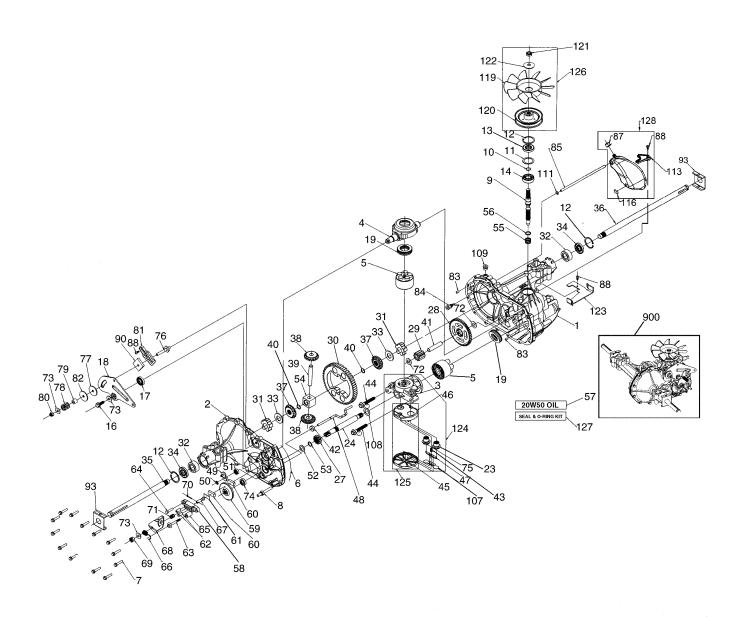


TRACTOR - - MODEL NUMBER 944.600952

MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
1	159460	Wire Asm Inner/Sprg W/plunger LT
2 3	159471	Shaft Asm Lift RH w/Inf
3	105767X	Pin Groove 1 500 Zinc
4	STD581062	E Ring #5133-62
5	19211621	Washer 21/32 X 1 X 21 Ga
6 7	120183X	Bearing Nylon Blk 629 Id
8	125631X	Grip Handle
o 11	122365X 139865	Button Plunger Link Lift LH Fixed Length
12	139866	Link Lift RH Fixed Length
13	STD624008	Retainer Spring
15	173288	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	STD541450	Nut Lock W/Wsh 1/2-13 Unc
19	139868	Arm Suspension Rear
20	163552	Retainer Spring
23	110807X	Nut Special
24	STD551037	Washer 13/32 X 5/8 X 16 Ga
25	2876H	Spring 2-1/8"
26	169484	RetainerClip
27	126971X	Rod Adj Lift Zinc 7.49 Wrk Lg
28	STD541237	Nut Hex Jam 3/8-16 Unc
29	138057	Knob Inf 3/8-16 Unc Blk W/sym
30	150233	Trunnion Infin Height
31	169865	Bearing Pvt Lift
32	73540600	Nut Crownlock 3/8 - 24
36	155097	Pointer Hght Ind
37 38	123935X	Plug Hole Blk Screw 5/16-18 x 1.0
40	17060516 19112410	Washer 11/32 x 1-1/2 x 10 Ga
40 41	155098	Indicatior Hght.
49	145212	Nut Hex Flange Lock
50	110452X	Nut Push Phos & Oi
50	110702/	14dt i doll i 1103 d Ol

TRACTOR - - MODEL NUMBER 944.600952 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510

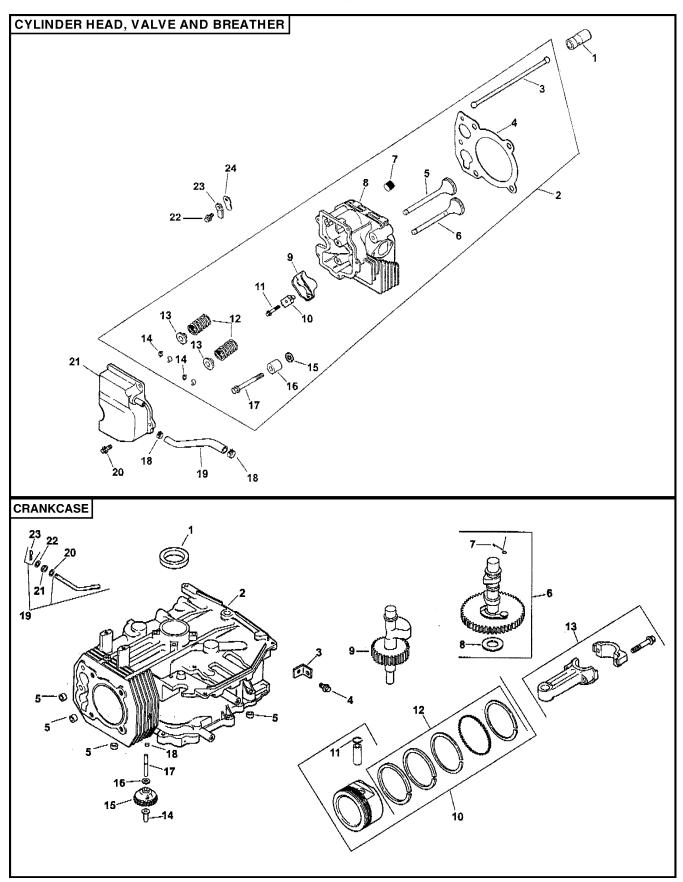


TRACTOR - - MODEL NUMBER 944.600952

HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170351	Main Housing, Assembly	59	170408	Rotor, Brake
2	170352	Side Housing, Assembly	60	142883	Brake Puck
3	170353	Center Section, Assembly	61	142882	Puck Plate
4	170354	Swashplate, Trunion Machined	62	142887	Brake Actuating Pin
5	169898	Block - Assembly	63	170410	Hfhcs 1/4-20x2 W/
6	170355	Sealant 10.5 Oz	00	170-10	Patch, Special Flange
7	170356	Hex Flange Screw 1/4-20 X 1.25	64	142892	Bolt, 1/4-20 X 1 W/Patch
8	170357	Stud, 5/16-24 Hex Double End	65	170411	Spacer
9	170358	Shaft, Input	66	170411	Spring, Brake Arm Bias
10	170359	Ring - Retaining	67	170412	Sq. Hd. Bolt 5/16-24-Ribbed
11	170360		68	170413	
12	169870	Spacer Ring Retaining	69	170414	Arm, Brake Slotted Hex Nut 5/16-24
13	170361	Ring - Retaining	70	170416	Cotter Pin 3/32 X 3/4
14		Seal, Lip .67 X 1.58 X .276		170416	
14	169869	Ball Brg 17mm Id X 40mm Od X	71 70		Compression Spring Brake Anti-Drag
16	170060	12mm	72 72	170418	Washer, Ht .5 I.D. X 1 O.D. X .032
16	170362	Hex Flange Head Screw 5/16-	73	142884	Flat - Washer 11/32 I.D. X 7/8 O.D
47	170000	24X0.75	74 75	170419	Oil Seal .625 X 1.0 X .25
17	170363	Lip Seal 18 X 32 X 7	75 70	170420	Check Plug Assembly, .027, Washer
18	170364	Arm, Control	76	170421	Stud, 5/16-24 Friction Pack
19	150771	Bearing, 30x52x13 Thrust	77	170422	Puck, .330 X 1.50 X .0975
23	170365	Check Plug Assembly, Washer	78	142969	Spring, Helical Comp
24	170366	Shaft, Motor	79	142980	Spacer
27	170367	Gear - Pinion, 13t	80	150778	Hex Lock Nut 5/16-24Unjf(Nylon
28	170368	10t/48t Gear			Insert)
29	170369	Gear, 10t Jackshaft	81	170423	Wedge, Friction Pack
30	170370	60t Bull Gear	82	170424	Clip, Washer.316x1.50x.1046
31	170371	Sleeve Bearing .75 X 1.575 X .625		101100	(Plated)
32	170389	SleeveBearing(Outboard)	83	161168	Pin, Standard Headless
		.75x1.750x.625	84	170425	Fitting, 5/16 Sae 5/32 Tube
33	142991	Washer, 3/4 ld X 1-1/2 Od X .13 Thk	85	170426	Hose, Expansion Tank
34	170390	Lip Seal Axle Seal	87	142917	Cap - Poppet Valve
35	170391	Shaft, Axle .75 X 11.39 (Key, R.H.)	88	170429	Bolt, Self Tapping 10-32 X 1/2
36	170392	Shaft, Axle .75 X 16.99 (Key, L.H.)	90	170430	Puck, Inner Wedge
37	150792	Miter Gear (Splined)	93_	170431	Spring Clip - Housing Thrust
38	150793	Miter Gear 15t (0.5 ld)	107	170432	Deflector
39	150809	Shaft	108	170433	Washer, Motor Shaft
40	170393	Ring, Spiral Retaining			.71idx1.15odx.030thk
41	170394	Pin, Jackshaft	109	170434	Plug, Sae #6
42	170395	Magnet, Ring	111	170435	O-Ring .07 X .301 I.D.
43	170396	Spring, Bypass	113	170437	Bracket, Support Expansion Tank
44	150797	Hydro Mtg Screw 3/8-24 X 2.5 Long	116	170438	Silicon Sponge
45	170397	Filter	119	170439	Fan, 7 In.
46	170398	Base, Filter	120	170440	Pulley
47	170399	Actuator, Bypass	121	170441	Hex Lock Nut 1/2-20 (Nylon Insert)
48	170400	Rod, Bypass Actuator	122	170442	Washer, Belleville
49	170401	Arm, Bypass	123	170443	Belt Keeper
50	170402	Retaining Ring .250 External	124	170444	Center Section-Filter-Bypass
51	170403	Seal, Lip .741 X .250 X .250 Tc			Assembly
52	170404	Flat Washer, 5/8 ld X 1.0 Od X .05	125	170445	Filter Assembly
		Thk	126	170446	Fan - Pulley Service Assembly
53	170405	Retaining Ring	127	170447	Seal - O-Ring Kit
54	170406	Bearing, Center Block	128	173165	Kit, Expansion Tank
55	142977	Spring - Helical Compression	900	166768	Transaxle Complete
56	142978	Washer			·
57	150798	20w-50 Oil	NOT	E: All compor	nent dimensions given in U.S. inches
58	170407	Brake Yoke	1 inch	= 25.4 mm	

TRACTOR - - MODEL NUMBER 944.600952 KOHLER ENGINE - MODEL NUMBER CV490, TYPE NUMBER 27508



TRACTOR - - MODEL NUMBER 944.600952

CRANKCASE

KOHLER ENGINE - MODEL NUMBER CV490, TYPE NUMBER 27508

CYLINDER HEAD/VALVE/BREATHER

KEY PART		OHAMOAGE				
	NO.	NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
	1	25-351-01-S	Lifter, valve (2)			
	2	12-755-94-S	Kit, cylinder head (Includes 3-17,	1	12-032-03-S	Seal, crankshaft
			Gaskets 12 041 01-S (Qty. 2),	2		Block, cylinder
			12 041 02-S, & 12 041 03-S)			(Use Short Block 12 522 51)
	3	12-411-03-S	Rod, push (2)	3	12-445-02-S	
	4	12-041-10-S	Gasket, cylinder head	4	M-839025-S	Screw, hex. flange M8x1.25x25
	5		Valve, intake (Std.)	5 6		Dowel, locating (4)
		12-017-02-S	Valve, intake (.25)	6	12-755-49-S	Kit, camshaft (Includes 7,8)
	6	12-016-01-S	Valve, exhaust (Std.)	7	12-089-31-S	Spring, actuating
		12-016-02-S	Valve, exhaust (.25)	8	12-422-08-S	Shim, camshaft (A.R.) blue
	7	25-139-60-S	Plug, allen hd. pipe 1/8"		12-422-09-S	Shim, camshaft (A.R.) red
	8	12-318-36-S	Cylinder Head		12-422-10-S	Shim, camshaft (A.R.) yellow
	9	25-186-01-S	Arm, rocker (2)		12-422-11-S	Shim, camshaft (A.R.) green
	10		Pivot, rocker arm (2)		12-422-12-S	Shim, camshaft (A.R.) gray
	11	M-640034-S	Screw, hex. flange M6xl.0x34 (2)		12-422-13-S	Shim, camshaft (A.R.) black
	12	12-089-01-S	Spring, valve (2)		12-422-07-S	Shim, camshaft (A.R.) white
	13		Cap, valve spring (2)	9	12-144-28-S	Shaft, balance
	14	12-755-03-S	Kit, retainer (2)	10	12-874-07-S	Piston w/Ring Set (Std.) (Includes
	15	12-468-05-S	Washer, plain 13/32"			11,12)
	16	12-112-13-S	Spacer, head bolt exhaust port		12-874-11-S	Piston w/Ring Set (.08)
	17	12-086-15-S	Screw, hex. flange M10x1.5x81 (5)		12-874-08-S	Piston w/Ring Set (.25)
	18	25-237-14-S	Clamp, hose (2)			Piston w/Ring Set (.50)
	19		Hose, breather	11		Retainer, piston pin (2)
	20	M-645020-S	Screw, hex. flange M6x1.0x20 (5)	12	12-108-07-S	Ring Set (Std.)
	21	12-096-07-S	Cover, valve w/nipple			Ring Set (.25)
	22	M-545010-S	Screw, hex. flange M5x0.8x10		12-108-09-S	Ring Set (.50)
	23		Retainer, breather reed	13		Connecting Rod (Std.)
	24		Reed, breather			Connecting Rod (.25)
				14		Pin, governor regulating
				15	12-043-05-S	Gear, governor
				16	M-631005-S	Washer, plain 6 mm
				17		Shaft, governor gear
				18	52-139-09-S	
				19		Kit, gov. cross shaft w/clip
				00	V 05 400 0	(Includes 23)
				20		Washer, plain 1/4"
				21	12-032-01-5	Seal governor cross shaft

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

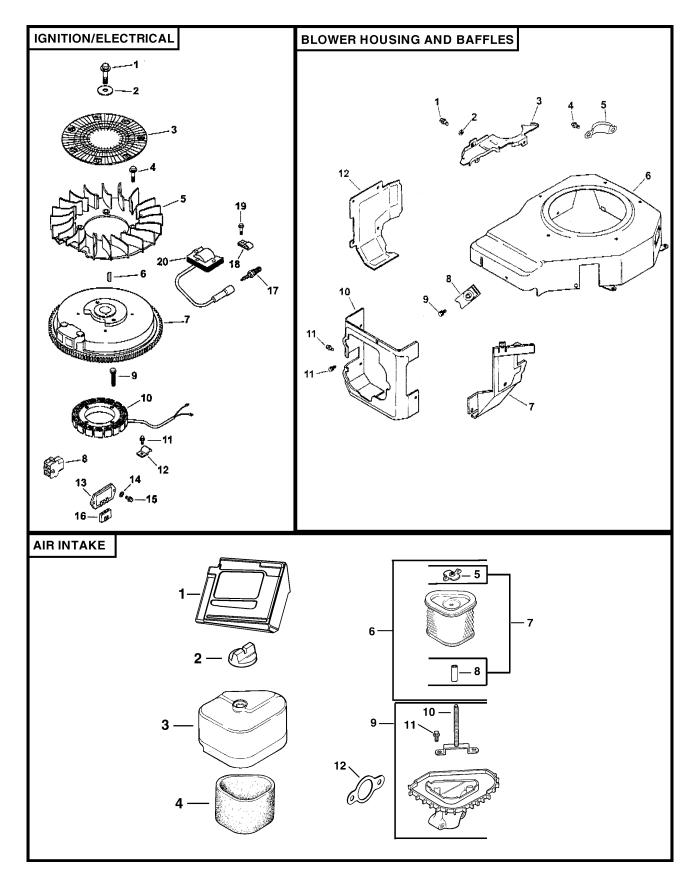
12-032-01-S Seal, governor cross shaft M-631015-S Washer, plain 6 mm

12-154-05-S Clip, hitch pin

(Includes

21 22

TRACTOR - - MODEL NUMBER 944.600952 KOHLER ENGINE - MODEL NUMBER CV490, TYPE NUMBER 27508



TRACTOR - - MODEL NUMBER 944.600952

KOHLER ENGINE - MODEL NUMBER CV490, TYPE NUMBER 27508

IGNITION/ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
15 16 17 18 19 20	12-468-03-S 24-162-03-S 25-086-47-S 12-157-06-S X-42-15-S 12-025-15-S 12-155-09-S M-548025-S 12-085-09-S M-545020-S 12-154-06-S 41-403-09-S X-22-11-S M-639016-S 236602-S 12-132-02-S X-728-1-S M-545010-S 12-584-04-S LUSTRATED 12-176-44-S 24-518-12-S	Fan Key Flywheel Connector Screw, hex. cap M5x0.8x25 (2) Stator - 15 amp with stator brake Screw, hex. flange M5x0.8x20 (2) Clip, cable (2) Regulator, rectifier - 15 amp Washer, lock 1/4" Screw, hex. flange M6x1.0x16 (2) Connector Spark Plug Clip, cable (2) Screw, hex. flange M5x0.8x10 (2)

BLOWER HOUSING & BAFFLES

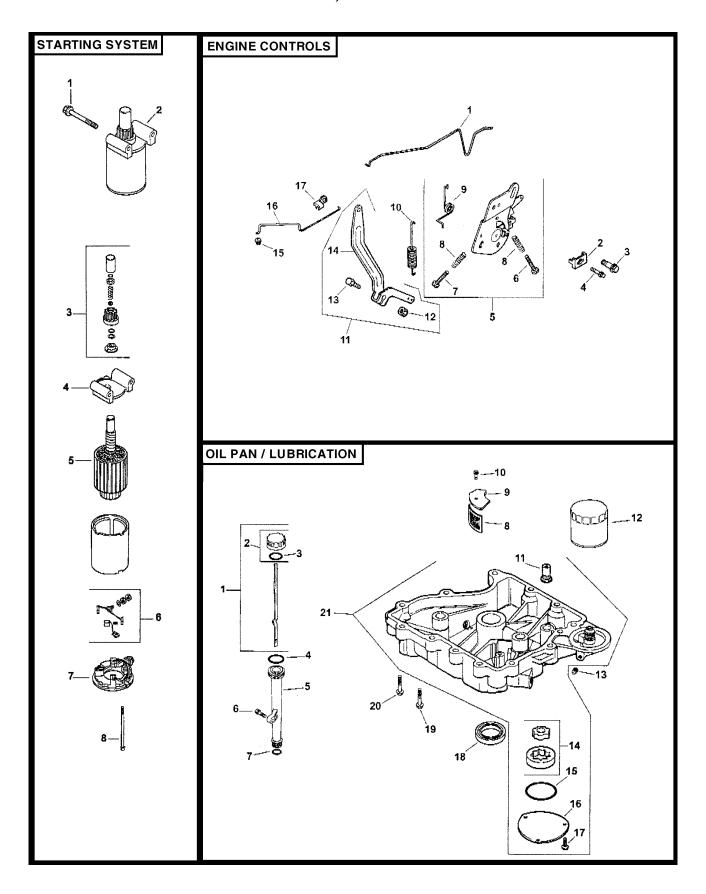
KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5	24-468-10-S 12-146-07-S M-550010-S 24-096-05-S	Screw, hex. flange M5x0.8x10 (6) Washer, plain 1/4" Plate, blower housing Screw, hex. flange M5x0.8x10 Cover, pinion
6 7 8 9 10 11 12	12-063-18-S 25-154-02-S 12-086-37-S 12-063-20-S M-645016-S 12-063-19-S LUSTRATED	Housing, blower Baffle, intake side Clip, mounting (3) Screw, captive washer M5x0.8x20 (3) Baffle, cylinder head Screw, hex. flange M6x1.0x16 (2) Baffle, cylinder
	IVI-541050-S	Nut, hex. flange M5x0.8

AIR INTAKE/FILTRATION

KEY NO.	PART NO.	DESCRIPTION
1	12-281-01-S	
2		Knob, air cleaner cover
3	12-096-24-S	Cover, air cleaner
4	12-083-12-S	Precleaner, element
5	12-100-08-S	Wing Nut
6	12-083-10-S	Kit, air cleaner element (Includes 5, 7, 8)
7	12-743-12-S	Filter, element (Includes 5, 8)
8	12-032-11-S	
9	12-094-07-S	Base, air cleaner (Includes 11, 12)
10	12-072-04-S	Stud, mounting plate M6x1.0x75
11		Screw, #10 Hi-Lo thread forming (2)
13	12-041-02-S	Gasket, air cleaner
NOT IL	LUSTRATED	
	12-113-53-S	Decal, air cleaner

TRACTOR - - MODEL NUMBER 944.600952

KOHLER ENGINE - MODEL NUMBER CV490, TYPE NUMBER 27508



TRACTOR - - MODEL NUMBER 944.600952

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STARTING SYSTEM

KEY NO.	PART NO.	DESCRIPTION
1		Screw, hex. flange M8x1.25x70 (2)
2		Starter assembly (Includes 3-8)
3	12-755-54-S	Kit, drive end
4		Cap, drive end
5	12-170-05-S	Armature
6	12-221-01-S	Kit, brush & spring
7	12-227-13-S	Cap, commutator end
8		Bolt, hex. flange 1/4-20x4-5/8 (2)

OIL PAN/LUBRICATION

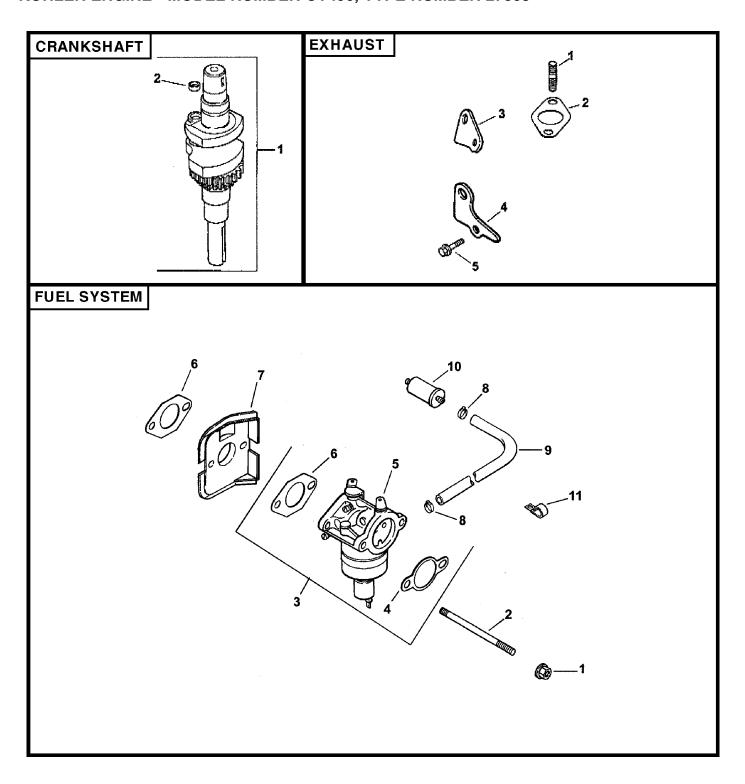
KEY NO.	PART NO.	DESCRIPTION
1 2		Dipstick assembly (Includes 2-3) Kit, oil fill cap (Includes 3)
3		O-Ring, oil fill cap
4		O-Ring, upper oil fill tube
5	12-123-04-S	
6	M-645025-S	Screw, hex. flange M6x1.0x25
7	12-153-01-S	O-Ring, lower oil fill tube
8		Screen, oil pickup
	12-096-03-S	Cover, oil pickup screen
10		Screw, hex. flange M5x0.8x16
11	25-462-09-S	Valve, oil pressure relief
	52-050-02-S	
13		Plug, sq. hd. solid 3/8"
	12-393-01-S	
15	12-153-06-5	O-Ring, oil pump cover
16 17		Cover, oil pump
18		Screw, hex. flange M5x0.8x16 (3) Seal, oil (P.T.O. end)
19	24-086-16-5	Screw, hex. flange M8x1.25x45 (11)
20	24-086-17-S	Screw, hex. flange M8x1.25x45 (11)
21		Assembly, Pan, oil (Incl. 11,14-17)
	12 100 00 0	riocomony, an, on (mon. 11,17 17)

ENGINE CONTROLS

KEY NO.	PART NO.	DESCRIPTION
1		Linkage, choke
2		Clamp, cable
3	24-086-43-S	Screw, hex. flange
4 5		Screw, lobed socket M6xl.0x20 (2)
5	12-536-10-S	Control, speed assembly
		(Includes 6-9)
6	M-443025-S	Screw, pan head M4x0.7x25
7		Screw, pan head M4x0.7x20
8		Spring, choke (2)
9		Spring, choke return
10	12-089-24-S	Spring, governor
11	12-755-83-S	Kit, governor lever (Includes 12-14)
12	12-100-07-S	Nut, hex flange 1/4-20
13		Bolt, 1/4-20x1"
14		Lever, governor
15		Bushing, throttle linkage
16	12-079-10-S	Linkage, throttle
17	25-158-11-S	Bushing, throttle linkage

TRACTOR - - MODEL NUMBER 944.600952

KOHLER ENGINE - MODEL NUMBER CV490, TYPE NUMBER 27508



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FUEL SYSTEM

KEY NO.		DESCRIPTION
1 2 3	M-629116-S	Nut, hex. flange M6x1.0 (2) Stud M6x1.0x116 (2) Skit, carburetor w/gasket (Includes 4,5,6 qty 1 Tie, cable 12-454-03-S, Terminal 25-452-20-S)
4 5	12-041-02-S 12-053-118	Gasket, air cleaner
6 7 8 9 10 11	12-265-06-S 25-237-14-S 52-353-22-S	Gasket, carburetor (2) Deflector, heat Clamp, hose (2) Line, fuel 12-1/4" Filter, fuel in-line
	*M-561010-S *X-22-11-S 12-757-02-S 12-757-03-S 12-041-01-S 12-041-05-S 12-041-06-S 12-032-06-S 12-757-33-S 12-041-06-S 12-454-03-S 25-452-20-S	Kit, carburetor repair Gasket, carburetor Gasket, air cleaner Gasket, bowl Gasket, bowl screw Seal, solenoid Kit, solenoid repair Gasket, bowl screw Tie cable

^{*}attaches carburetor ground lead to carb baffle.

CRANKSHAFT

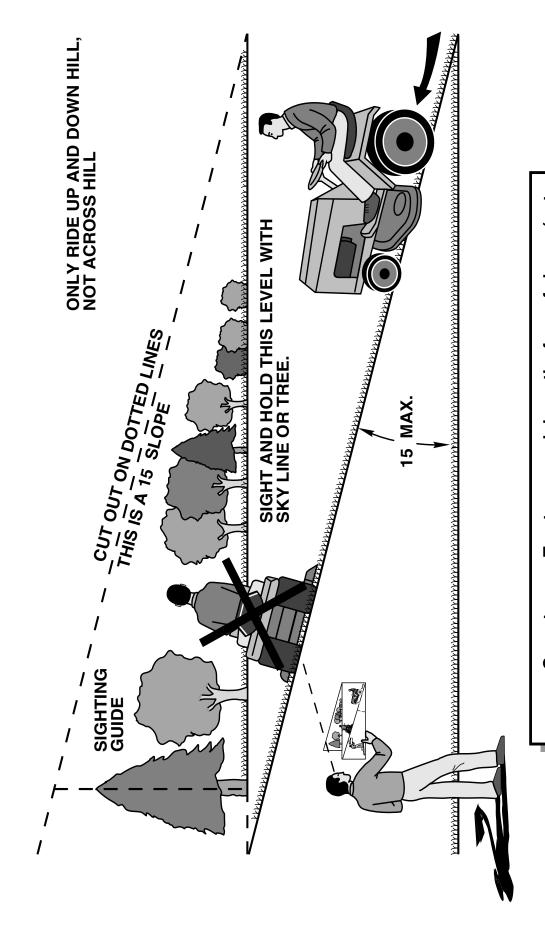
KEY NO.	PART NO.	DESCRIPTION
1 2	12-014-57-S 25-139-27-S	Crankshaft (Includes 2) Plug, cup

EXHAUST

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5	12-041-03-S 12-126-11-S 12-445-06-S	Screw, hex. flange M6xl.0x25 (2) Replacement Engine Short Block

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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