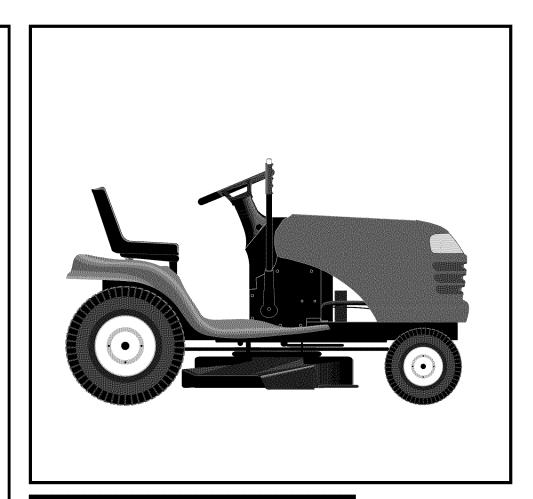


MODEL NO. 944.601881

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



CRAFTZMAN®

20.0 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

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

SAFETY RULES



Safe Operation Practices for Ride-On Mowers



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

I. GENERAL OPERATION

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

II. SLOPE OPERATION

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

DO:

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

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:	3.5 GALLONS UNLEADED REGULAR				
OILTYPE (API-SF-SJ): Your tractor was shipped from 10W-30 motor oil.	SAE 30 (above 32°F) SAE 5W-30 (below 32°F) SYNTHETIC (below 0°F) the factory with non-synthetic SAE				
OIL CAPACITY:	4 PINTS				
SPARK PLUG: (GAP: .040")	CHAMPION RC12YC				
GROUND SPEED (MPH):	FORWARD: 5.5 REVERSE: 2.4				
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI				
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS				
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R				
BLADE BOLT TORQUE:	27-35 FT. LBS.				

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 Centre/Department (See RE-PAIR PARTS section of this manual).

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 centre/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".

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:

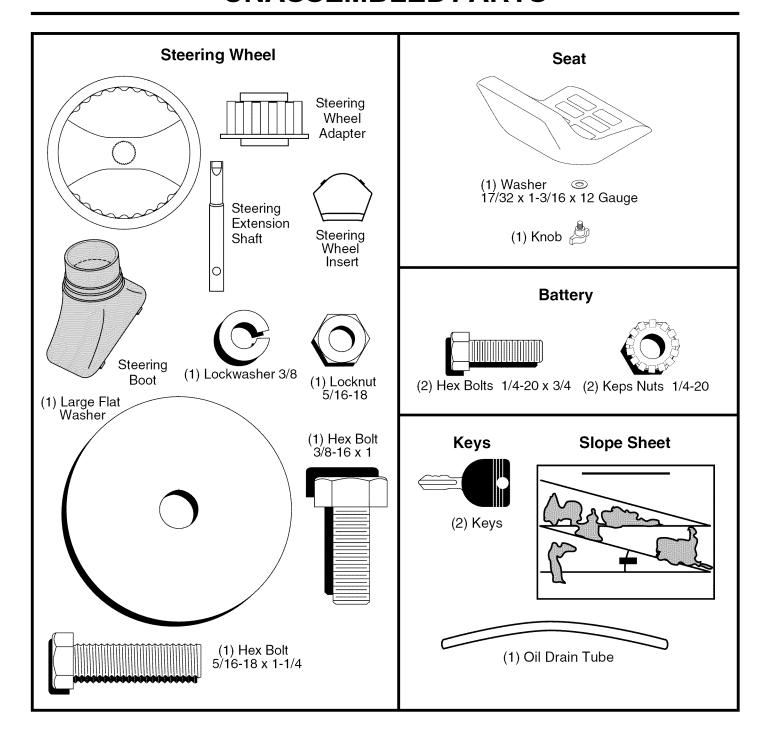
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse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

Pliers (1) 9/16" wrench

(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 straight forward.
- Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 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.

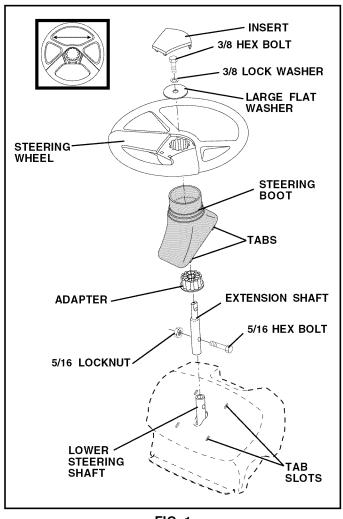


FIG. 1

HOW TO SET UP YOUR TRACTOR

CONNECT BATTERY (See Fig. 2)



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

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

ASSEMBLY

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

Use terminal access doors for:

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

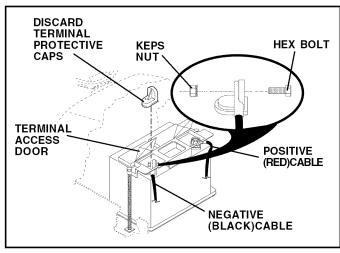


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

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

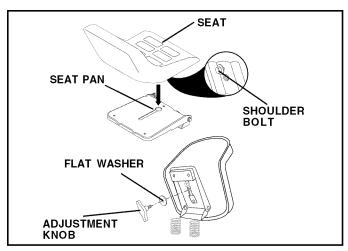


FIG. 3

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

TO ROLL TRACTOR OFF SKID (See Operation section, 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 "TOTRANSPORT" 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.
- 7 Continue with the instructions that follow.

ASSEMBLY

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

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



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

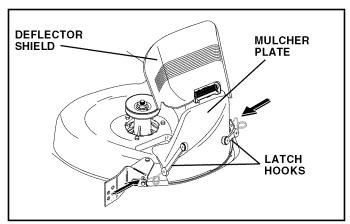


FIG. 4

TO CONVERT TO BAGGING OR DISCHARGING

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

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

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.

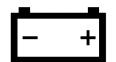
PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ 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 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







PARKING BRAKE



IGNITION



ATTACHMENT **CLUTCH DISENGAGED**









SLOPE HAZARDS



KEEP AREA CLEAR

(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.

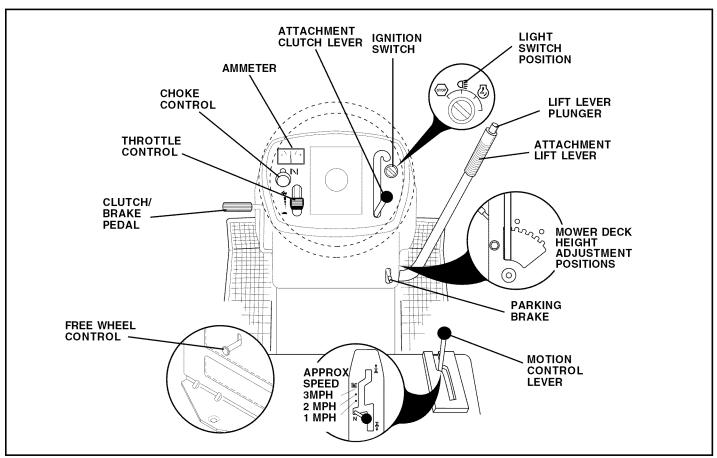


FIG. 5

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

 $\begin{tabular}{ll} \textbf{ATTACHMENT CLUTCH LEVER}: & Used to engage the mower blades, or other attachments mounted to your tractor. \\ \end{tabular}$

LIGHT SWITCH: Turns the headlights on and off.

THROTTLE CONTROL: Used to control engine speed.

CHOKE CONTROL: Used when starting a cold engine. **CLUTCH/BRAKE PEDAL**: Used for declutching and braking the tractor and starting the engine.

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

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

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

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

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

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

IGNITION SWITCH: Used for starting and stopping the engine.



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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 6)

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

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

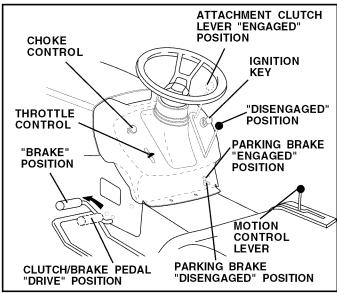


FIG. 6

STOPPING (See Fig. 6)

MOWER BLADES -

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

GROUND DRIVE-

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

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

Move throttle control to slow position.

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

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

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

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



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

TO USE THROTTLE CONTROL (See Fig. 6)

Always operate engine at full throttle.

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

TO USE CHOKE CONTROL (See Fig. 6)

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

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

TO MOVE FORWARD AND BACKWARD (See Fig. 6)

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

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

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

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

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

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

TO ADJUST GAUGE WHEELS (See Fig. 7)

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

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

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- 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.

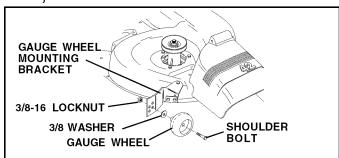


FIG. 7

TO OPERATE MOWER (See Fig. 8)

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

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

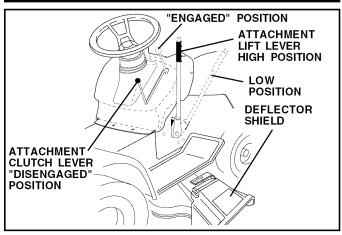


FIG. 8

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. 5 and 9)

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

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

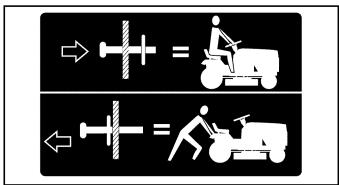


FIG. 9

TOWING CARTS AND OTHER ATTACHMENTS

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

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the 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. 5)

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

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

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

AUTOMATIC TRANSMISSION WARM UP

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

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

PURGE TRANSMISSION



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

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

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

- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "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. 10).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

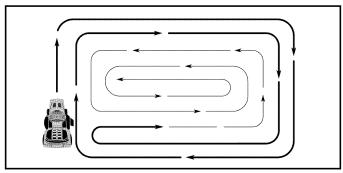


FIG. 10

MULCHING MOWING TIPS

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

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

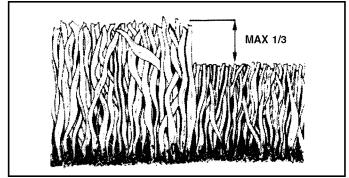


FIG. 11

AS	MAINTENANCE SCHEDUL LL IN DATES S YOU COMPLETE EGULAR SERVICE	.E	JEFORE	EACHUS EVERY 8	HOURS HOURS	S HOUR'S	SHOUP OHOUP	45 HOUS	is LASON EFORE	SEF	GE RVICE	E DA	TES
	Check Brake Operation	V	V										
	Check Tire Pressure	~	1										
	Check Operator Presence and Interlock Systems	~											
R	Check for Loose Fasteners	~				1 7		1					
I A	Sharpen/Replace Mower Blades			√ 4									
Ι¥	Lubrication Chart			/				1					
Ιċ	Check Battery Level			6									
R	Clean Battery and Terminals			/				1					
	Check Transaxle Cooling			1									
	Adjust Blade Belt(s) Tension					1 5							
	Adjust Motion Drive Belt(s) Tension					1 5							
	Check Engine Oil Level	~	1										
	Change Engine Oil			1,2,3				1					
ΙE	Clean Air Filter			1/2									
ΙŪ	Clean Air Screen			1/2									
G	Inspect Muffler/Spark Arrester				1								
	Replace Oil Filter (If equipped)					1,2							
N	Clean Engine Cooling Fins					1 2							
-	Replace Spark Plug					/	1						
	Replace Air Filter Paper Cartridge					1/2							
L	Replace Fuel Filter						/						

- 1 Change more often when operating under a heavy load or in high ambient temperatures. 5 If equipped with adjustable system.
- 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.

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

GENERAL RECOMMENDATIONS

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

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

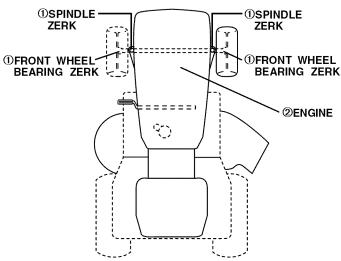
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

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

LUBRICATION CHART



1)GENERAL PURPOSE GREASE @REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

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

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

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 clutch/brake pedal is fully depressed and attachement clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

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

BLADE REMOVAL (See Fig. 12)

- Raise mower to highest position to allow access to blades.
- Remove 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.

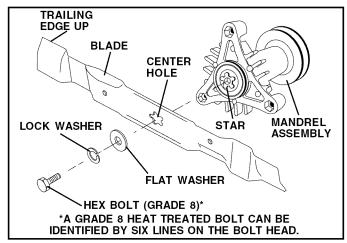


FIG. 12

TO SHARPEN BLADE (See Fig. 13)

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

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

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

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

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

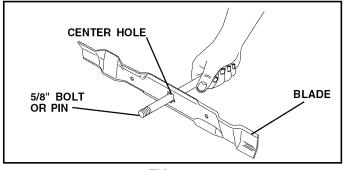


FIG. 13

BATTERY

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

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

NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not 16 necessary.

TO CLEAN BATTERY AND TERMINALS

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

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

V-BELTS

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

TRANSAXLE COOLING

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

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

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

TRANSAXLE PUMP FLUID

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

ENGINE

LUBRICATION

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

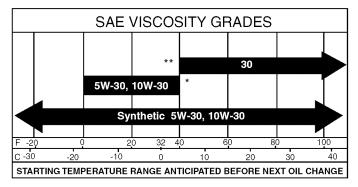


FIG. 14

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

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



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

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

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

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

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

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

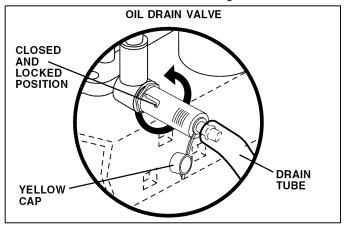


FIG. 15

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

CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

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

AIR FILTER (See Fig. 16)

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

Service air cleaner more often under dusty conditions.

Remove knobs and cover.

TO SERVICE PRE-CLEANER

- Wash it in liquid detergent and water.
- · Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.

TO SERVICE CARTRIDGE

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

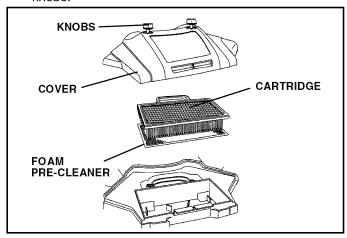


FIG. 16

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

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.

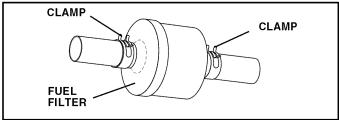


FIG. 17

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.

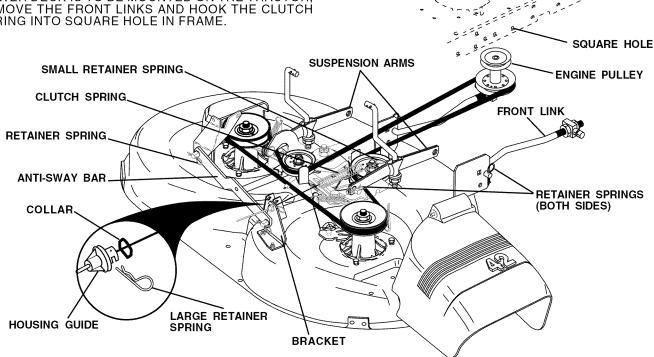


Fig. 18

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.

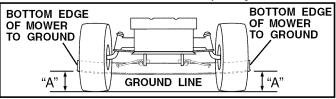


FIG. 19

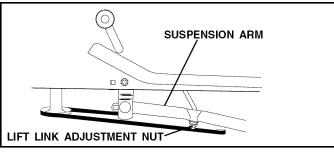


FIG. 20

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-TOSIDE.

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.

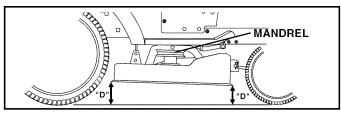


FIG. 21

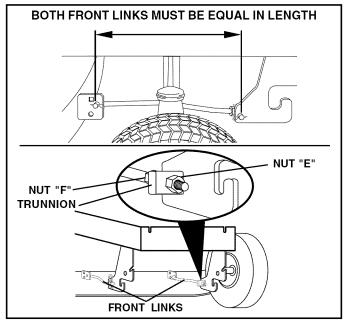


FIG. 22

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.

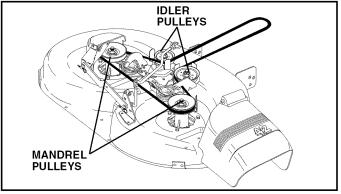


FIG. 23

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.

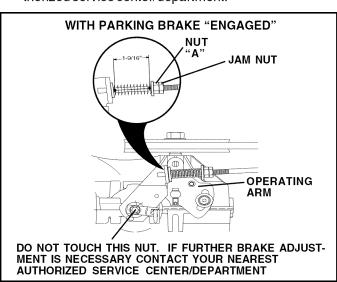


FIG. 24

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.

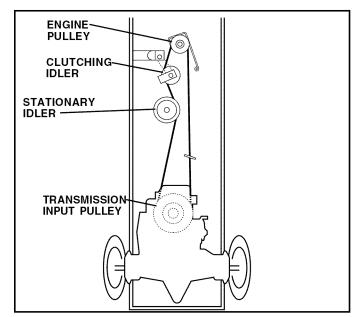


FIG. 25

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.

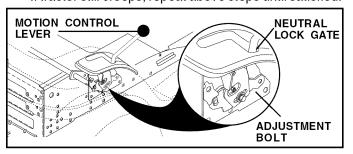


FIG. 26

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 TRANSMISSION" in the Operation section of this manual.

TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN/CAMBER

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

TO REMOVE WHEEL FOR REPAIRS (See Fig. 27)

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

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

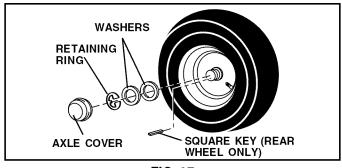


FIG. 27

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



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

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

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

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

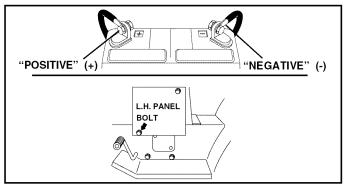


FIG. 28

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

TO REPLACE FUSE

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

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

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

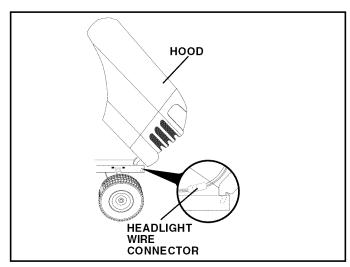


FIG. 29

ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 30)

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

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

TO ADJUST CHOKE CONTROL (See Fig. 31)

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

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

TO ADJUST CARBURETOR

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

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

IMPORTANT: 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.

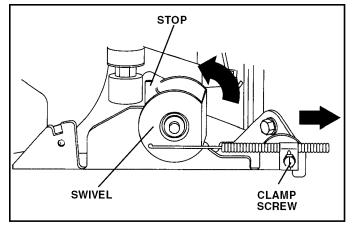


FIG. 30

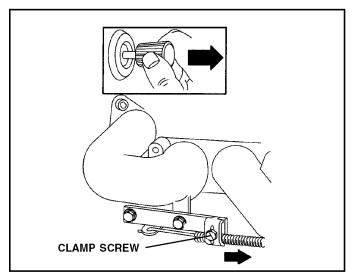


FIG. 31

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

Drainoil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

CYLINDER(S)

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

OTHER

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

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

TROUBLESHOOTING POINTS

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

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center/department.
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes.
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel.
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse.
Battery will not charge	1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. 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 944.601881

SCHEMATIC

RUN

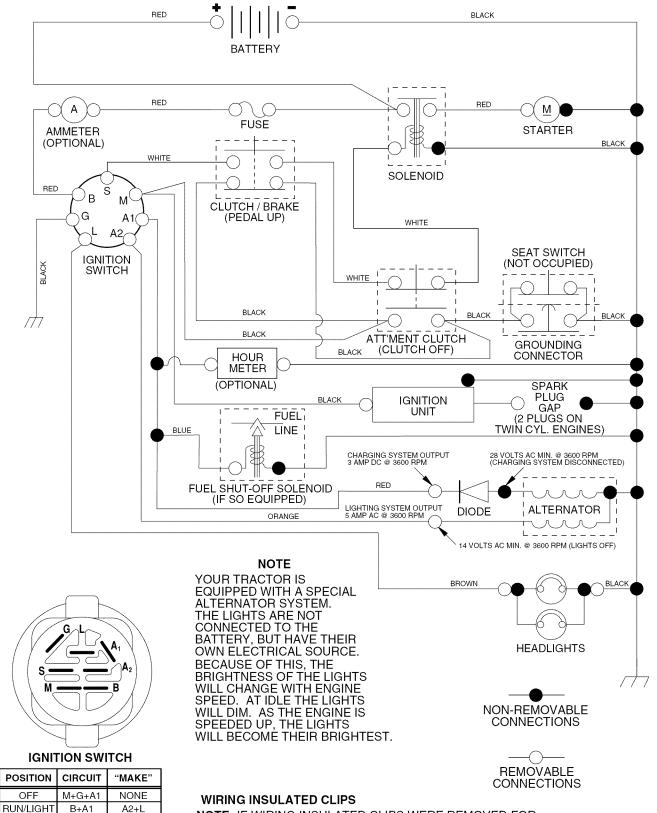
START

B+A1

B + S + A1

NONE

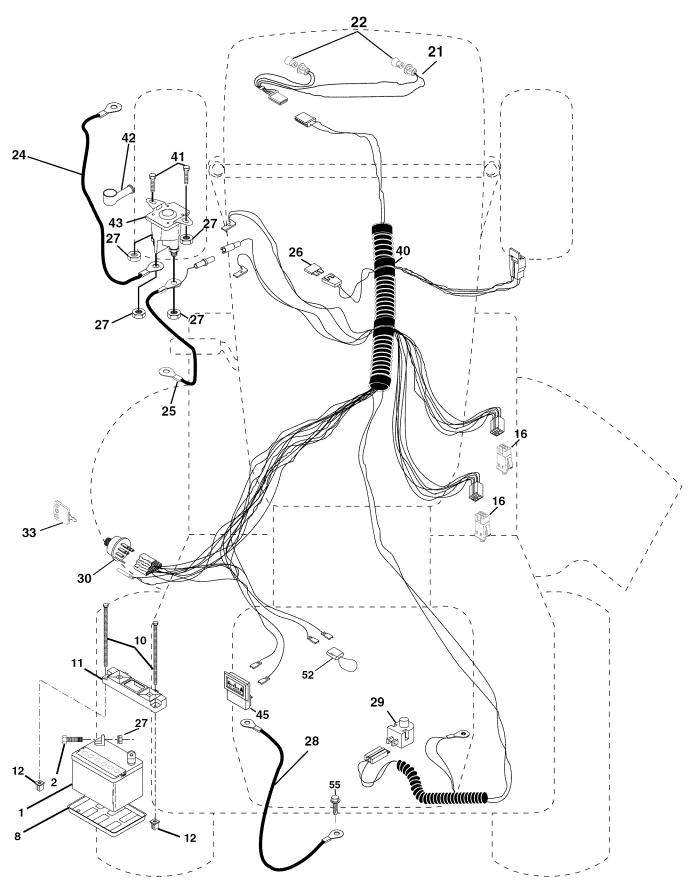
NONE



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

TRACTOR - - MODEL NUMBER 944.601881

ELECTRICAL



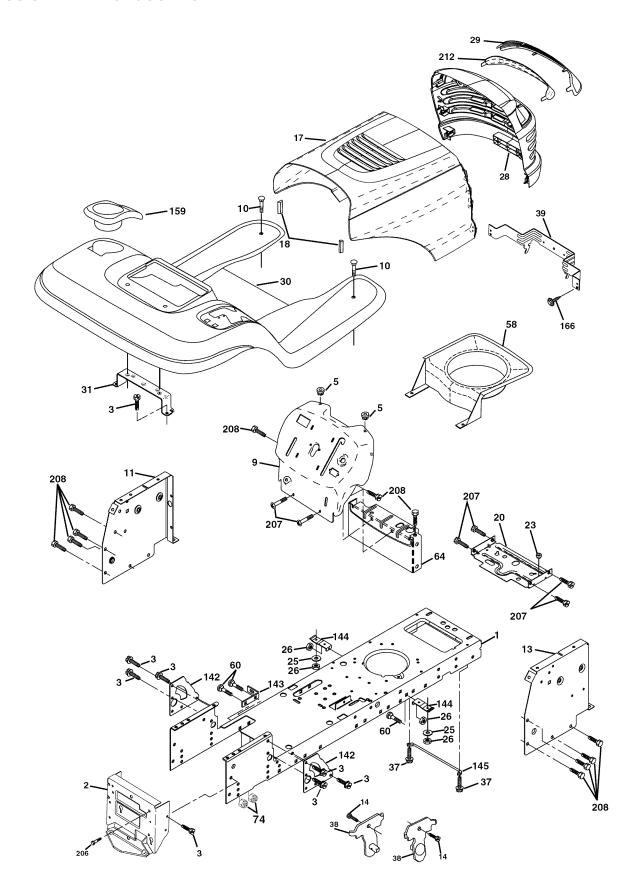
TRACTOR - - MODEL NUMBER 944.601881

ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1 2	163465 74760412	Battery 12 Volt 28 Amp Bolt Hex Hd 1/4-20unc X 3/4
8	7603J	Tray Battery
10	145211	Bolt Btr Frt 1/4-20 x 7.5 Zinc
11	150109	Holddown Battery Mount
12	145769	Nut Push Nylon 1/4" Battery Frt
16	153664	Switch Interlock Push-In
21	175688	Harness Asm Light W/4152J
22	4152J	Bulb Light #1156
24	4799J	Cable Battery 6 Ga 11"red
25	146148	Cable Battery 6 Ga w/16 ire,red
26	175158	Fuse
27	73510400	Nut Keps Hex 1/4-20 Unc
28	145491	Cable Ground 6 Ga 21" black
29	121305X	Switch Plunger Nc Gray
30	175566	Switch Ign 3
33	140403	Key Ign
40	170217	Harness Ign
41	71110408	Bolt Blk Fin Hex 1/4-20unc X 1/2
42	131563	CoverTerminal Red
43	175141	Solenoid
45 50	121433X	Ammeter
52	141940	Protection Wire Loop (Hourmeter)
55	17490508	Screw Thdrol 5/16-18 x 1/2

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

TRACTOR - - MODEL NUMBER 944.601881 CHASSIS AND ENCLOSURES



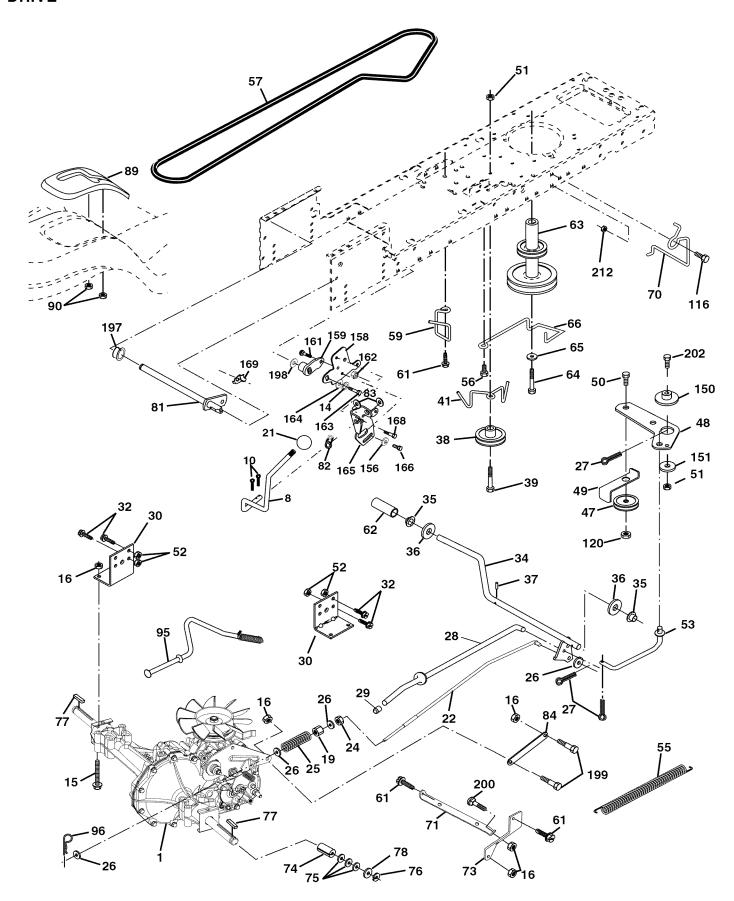
TRACTOR - - MODEL NUMBER 944.601881 CHASSIS AND ENCLOSURES

KEY No.	PART NO.	DESCRIPTION
1	174619	Chassis Stl Stamping
2	176554	Drawbar, Stretch
3	17060612	Screw 3/8-16x3/4
5	155272	Bumper Hood/Dash
9	168337X011	Dash P/L
10	STD533710	Bolt Carriage 3/8-16 x 1
11	155927	Panel Dash Lh
13	172107X010	Panel Dash Rh
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	174330X558	Hood
18	126938X	BumperHood
20	156437	Plate Mtg. Battery Fuel Tank
23	124028X	Bushing
25	19131312	Washer 13/32 X 13/16 X 12 Ga
26	STD541437	Nut Lock Hex W/Ins 3/8-16 Unc
28	174331X558	Grille/Lens Asm
29	174332X559	Lens
30	164919X558	Fender Footrest STLT Pnt
31	139976	Bracket Support Fender
37	17490508	Screw Thdrol 5/16-18 X1/2
38	175710	Bracket Asm. Pivot Mower Rear
39	174714	Bracket Pivot Laser LT
58	174930	Air Duct P/L
60	STD533707	Bolt Rdhd Sqnk 3/8-16unc x 3/4
64 74	154798 STD541437	Dash Lower STLT Nut Crownlock 3/8-16 Unc
142	165867	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	154207	Bracket Pnt Footrest STLT
145	156524	Rod Pivot Chassis/Hood
159	155123X428	Cupholder
166	164863	Screw HWHD Hi-Lo #13-16 x 3/4
206	170165	Bolt Shoulder 5/16-18 TT
207	17670508	Screw Thdrol 5/16-18 x 1/2
208	17670608	Screw Thdrol 3/8-16 x 1/2
212	175143	Insert Lens Reflective
	5479J	Plug Button
	0.700	1 149 2411011

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

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DRIVE



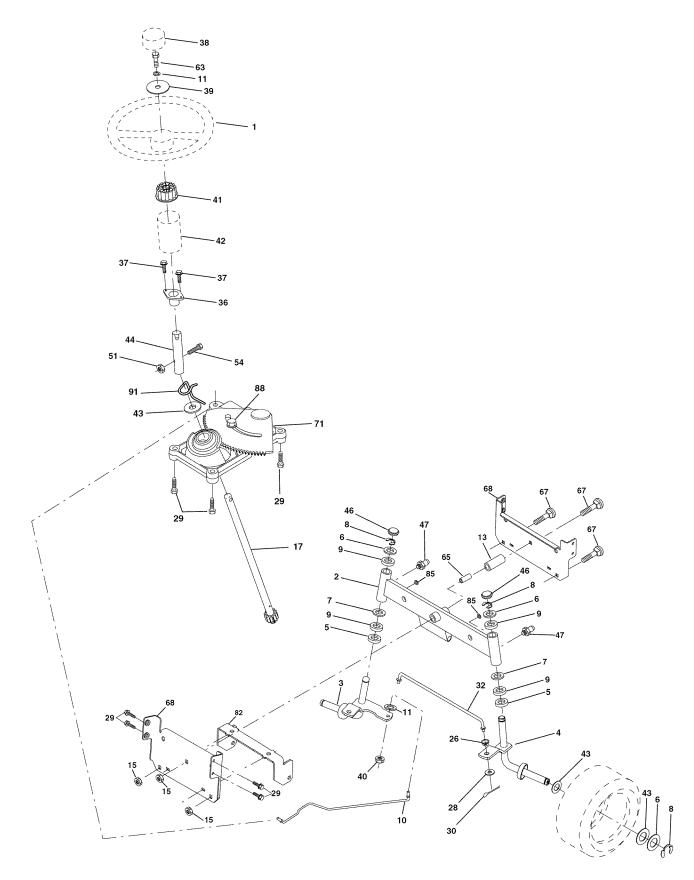
TRACTOR - - MODEL NUMBER 944.601881

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY No.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown)	65	STD551143	Washer
_	105000	Hydro Gear Model 314-0510	66	154778	Keeper Belt Engine
8	165866	Rod Shift	70	134683	Keeper Belt Engine
10 14	STD561210 10040400	Pin Cotter 1/8 x 1 CAD	71	169183	Strap Torque Lh Hydro
15	74490544	Washer Lock Hvy. Helical Bolt, Hex FLGHD 5/16-18 Gr. 5	73	169182	Strap Torque Rh Hydro
16	STD541431	Nut Lock Hex W/Ins 5/16-18 Unc P	74 75	137057	Spacer, Split
19	STD541437	Nut Lock Hex W/Wsh 3/8-16 Unc	75 76	121749X STD581075	Washer 25/32 x 1-1/4 x 16 Gauge E-Ring
21	130564	nob, Deluxe 1/2-13	76 77	123583X	Key, Square
22	169498	Rod, Brake Hydro	77 78	123363X 121748X	Washer 25/32 x 1-5/8 x 16 Gauge
24	STD541273	Nut	81	165596	Shaft Asm. Cross
25	106888X	Spring, Brake Rod	82	165711	Spring Torsion
26	STD551037	Washer	83	19171216	Washer 17/32 x 3/4 x 16 Ga.
27	STD561210	Pin Cotter 1/8 x 3/4 CAD.	84	169594	Link, Transaxle
28	175765	Rod, Parking Brake	89	164890X428	Console, Shift
29	71673	Cap, Parking Brake	90	124346X	Nut Self Thd Wsh-Hd 1/4 Zinc
30	169592	Bracket, Transaxle	95	170201	Control Asm Bypass Hydro
32	STD523107	Bolt Hex Hd 5/16-18 Unc x 3/4	96	STD624003	Retainer Spring 1" Zinc/Cad
34	175578	Shaft, Foot Pedal Nibbed	116	72140608	Bolt Rdhd Sq. Neck 3/8-16 x 1
35	120183X	Bearing, Nylon	120	73900600	Nut Lock Flg 3/8-16 UNC
36 37	STD551062	Washer	151	19133210	Washer 13/32 x 2 x 10 Ga.
37 38	STD571810 165936	Pin, Roll Pulley, Idler, Flat Composite	150	175456	Spacer Retainer
39	74760648	Bolt Fin Hex 3/8-16unc x 3	156	166002	Washer Street 5/16 ID x 1 x .125
40	175461	Spacer, Split	158 159	165589 165494	Bracket Shift Mount
41	175556	Keeper, Belt Retainer	161	72140406	Hub Tapered Flange Shift LT Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
42	19131312	Washer 13/32 x 13/16 x 12 Gauge	162	73680400	Nut Crownlock 1/4-20 Unc
47	127783	Pulley, Idler, V-Groove	163	74780416	Bolt Hex Fin 1/4-20 Unc x 1 Gr. 5
48	154407	Bellcrank Clutch Grnd Drv STL	164	19091010	Washer 5/8 x .281 x 10 Ga.
49	123205X	Retainer, Belt	165	165623	Bracket Pivot Lever
50	STD523715	Bolt	166	166880	Screw 5/16-18 x 5/8
51	STD541437	Nut Crownlock 3/8-16 UNC	168	165492	Bolt Shoulder 5/16-18 x .561
52	STD541431	Nut Crownlock 5/16-18 UNC	169	165580	Plate Fastening LT
53	105710X	Link, Clutch	197	169613	Nyliner Snap-In 5/8" ID
55	105709X	Spring, Return, Clutch	198	169593	Washer Nyl 7/8" ID x .105"
56	17060616	Screw 3/8-16 x 1.0	199	169612	Bolt Shoulder 5/16-18 Unc
57	140294	V-Belt, Ground Drive	200	72140508	Bolt Rdhd Sqnk 5/16-18 Unc x 1
59	169691	Keeper, Center Span	202	72110614	Bolt Carr Sh 3/8-16 x 1-3/4 Gr. 5
61 62	17060612 8883R	Screw 3/8-16 x 3/4 Cover, Pedal	212	145212	Nut Hex Flange Lock
63	175410	Pulley, Engine			
64	71170764	Bolt, Hex	NOTI		ent dimensions given in U.S. inches
О Т	, , , , , , , , , , , , , , , , , , , ,	50K, 110X		1 inch = 25	.4 mm

TRACTOR - - MODEL NUMBER 944.601881

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.601881

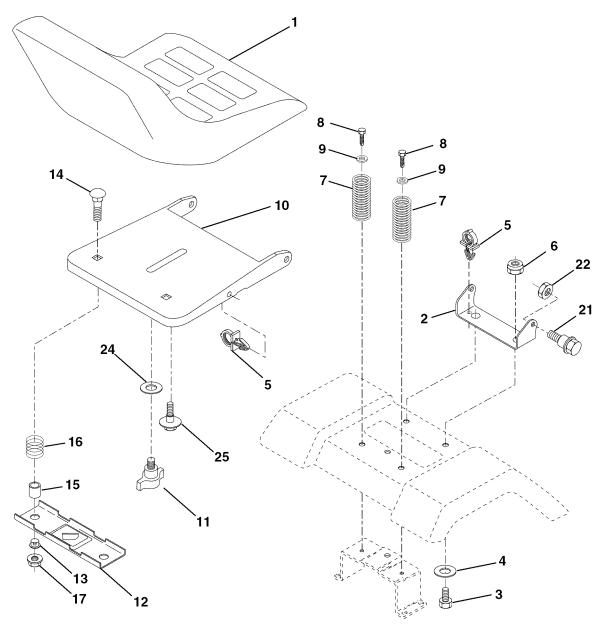
STEERING ASSEMBLY

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 9	12000029 3366R	Ring Klip #t5304-75 Bearing Col Strg Blk
9 10	175121	Link Drag Extended Stamp
11	STD551137	Washer Lock Hvy Hlcl Spr 3/8
13	136518	Bearing Axle STLT/GT
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 Thdrol 3/8-16x3/4
30	STD561210	Pin Cotter 1/8 X 3/4 Cad
32	130465	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 41	STD541537 100711L	Lock nut Adaptor Wheel Strg
41 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 Axle
67	72140618	Bolt Rdhd Sq 3/8-16 Unc x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm
82	169835	Bracket Susp. Chassis Front
85	133835	Fastener Christmas Tree
88 91	175118 175553	Shoulder Bolt 7/16-20 Clip Steering
91	170000	Clip Steeling

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

TRACTOR - - MODEL NUMBER 944.601881

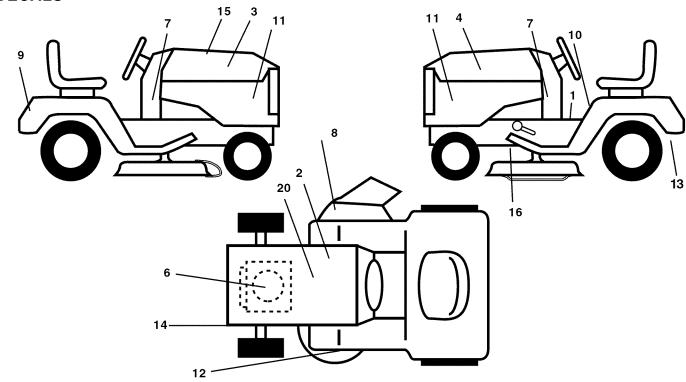
SEAT ASSEMBLY



KEY NO.	PART No.	DESCRIPTION	KEY NO.	PART 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	NOT	and although the second to the Contract of	
11	166369	Knob Seaat 1/2-13 Unc Blk	NOTE		ent dimensions given in U.S. inches
12	121246X	Bracket Mounting Switch		1 inch = 25	o.4 mm

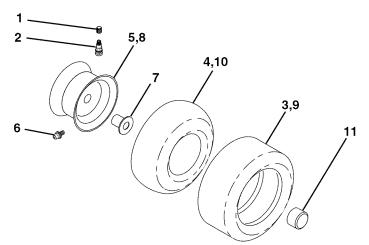
TRACTOR - - MODEL NUMBER 944.601881

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 6 7 8	157032 138047 177278 177279 165407 177284 170563 163204	Description Decal Fend STLT Oper Decal Battery Diehard Sears Decal Hood RH Decal Hood LH Decal HP Engine Decal Dash Pnl B&S Decal Warning Mult-Language Decal Craftsman	12 13 14 15 16 20	172331 169210 160396 172268 146046 149517 165800X428 165799X428	Decal Deck Decal By Pass Decal V-Belt Schematic Decal Replacement Parts Decal V-Belt Drive Sch Decal Bat Dan/Psn Pad Footrest LH STLT Pad Footrest RH STLT
10 11	157140 177253	Decal Fender Danger Eng/Fr Decal Hood Side Panel		138311 178199 178200	Decal Handle Lft Height Adjust Manual Owner's (English) Manual Owner's (French)

WHEELS & TIRES

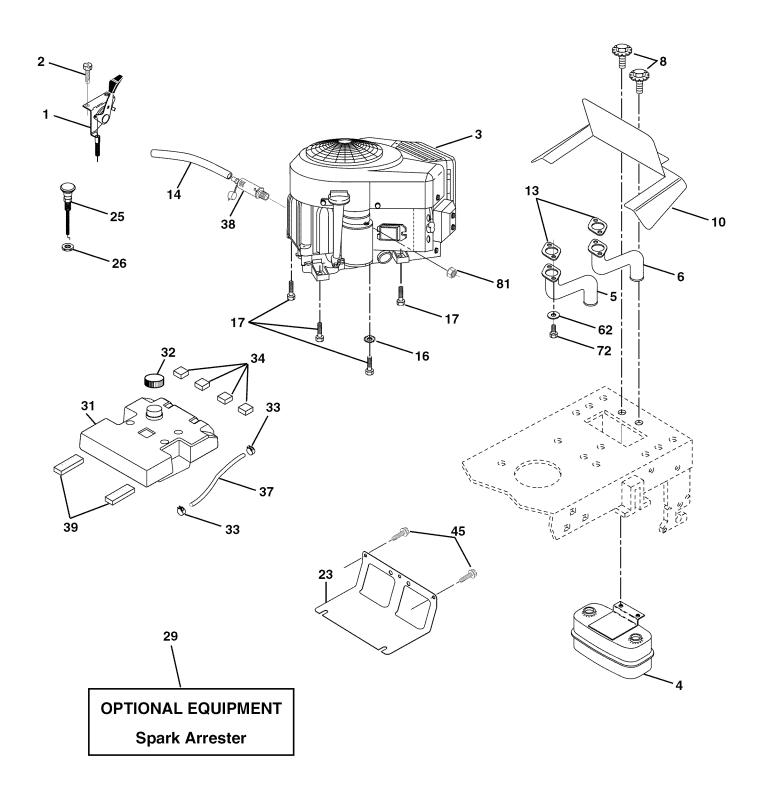


KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Front (Service Item Only)
5	106732X427	Rim Asm 6"front Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel Only)
8	106108X427	Rim Asm 8"rear Service
9	122082X	Tire R Ts 20x10-8 C Service
10	7152J	Tube Rear (Service Item Only)
11	104757X428	Cap Axle Blk 1 50 X 1 00
	144334	Sealant, Tire (10 oz. Tube)

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

TRACTOR - - MODEL NUMBER 944.601881

ENGINE



TRACTOR - - MODEL NUMBER 944.601881

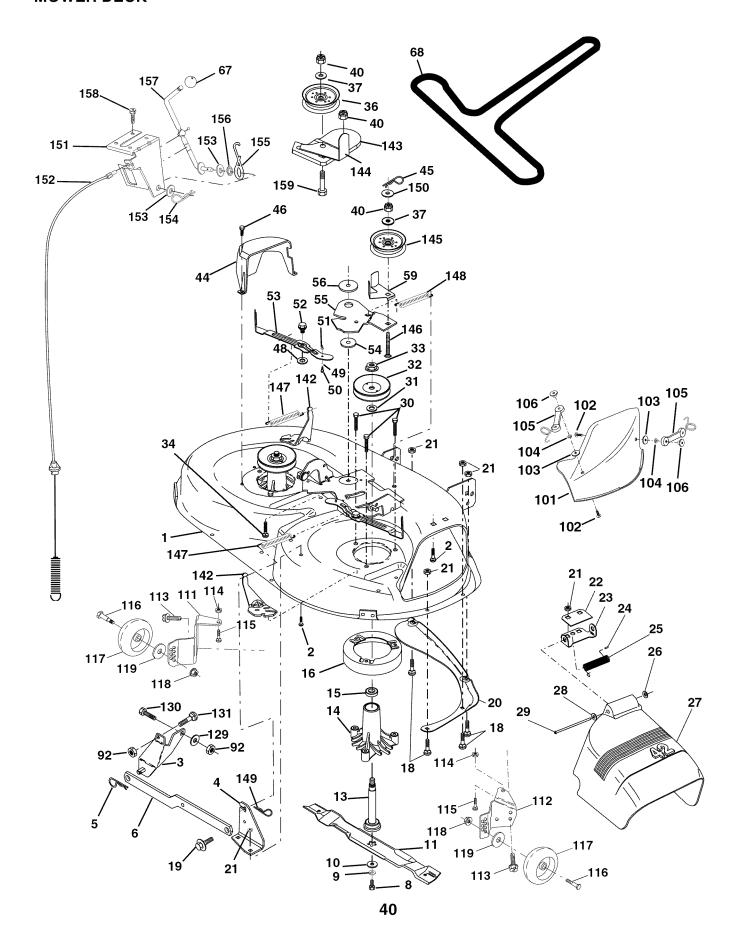
ENGINE

KEY NO.	PART NO.	DESCRIPTION
1	170546	Control Throt Paddle
2 3	17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3		Engine (See Breakdown) B&S Model 407777-0119-E3
4	149723	Muffler Exhaust
5	159955	Exhaust Asm. Left
6	160589	Exhaust Asm. Right
8	171877	Bolt 5/16-18unc x 3/4
10	162797	Heat Shield Lt
13	165391	Gasket Muffler
14	148456	Tube Drain Oil Easy
16	STD551237	Washer Lock Ext Tooth 3/8
17	17490624	Screw Thdrol 3/8-16x1-1/2 Tytt
23	169837	Shield BRN/DBR Guard
25	145996	Control Choke
26	73920600	Nut Keps 3/8-24 UNF
29	137180	Arrestor Spark
31	157103	Tank Fuel 3.5 STL W/O Sensor
32	161696	Cap Fuel Gauge
33	123487X	Clamp Hose Blk
34	106082X	Strip Foam
37	8543R	Line Fuel
38	148315	Plug Drain Oil Easy
39	109227X	Pad Spacer
45 60	17000612	Screw Hex Wsh Thdrol 3/8-16 x 3/4
62	10040500	Washer Lock Hvy HLCI Spr 5/16
72 81	71070512 73510400	Screw Hex Hd Cap 5/16-18 x 3/4 Nut Keps Hex 1/4-20 Unc

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

TRACTOR - - MODEL NUMBER 944.601881

MOWER DECK



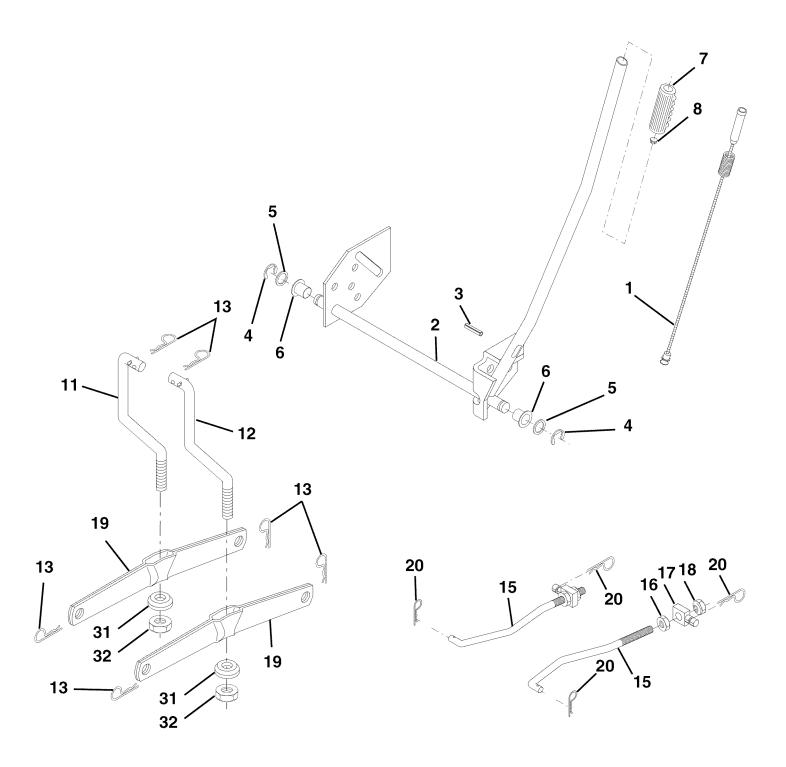
TRACTOR - - MODEL NUMBER 944.601881

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165892	Mower Deck Assembly, 42"	51 52	STD541410 139888	Locknut Bolt, Shoulder 5/16-18 UNC
2	STD533107	Bolt	53	131845	Arm Assembly, Pad, Brake
3	138017	Bracket Assembly,Sway Bar,	54	133943	Washer, Hardened
4	165460	Front Bracket Sway Bar 38/42" Deck	55	155046	Arm, Idler
5	STD624008	Retainer Spring	56	165723	Spacer, Retainer
6	130832	Arm, Suspension, Rear	59	141043	Guard, TUV Idler
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	67 68	149846	Knob Custom Oval V-Belt
9	STD551137	Washer, Lock	92	144959 STD541437	v-beit Nut
10	140296	Washer, Hardened	101	136420	Mulcher Cover
11	134149	Blade, Mulching 42" Std	102	71081010	Screw
	120400	(Originallyequipped with)	103	19061216	Washer #10
	138498	Blade Mower 42" Hi-Lift Std (For better bagging, especially in wet	104	STD551110	Washer, Lock
		conditions)	105	160793	Latch Assembly, Bagger
	139775	Blade Mulching 42" Premium (For	106	2029J	Nut, Weld
		better wear when mulching)	111	155197	Bracket, Gauge, Wheel L.H.
	138971	Blade Mower 42" Hi-Lift Premium	112	155198	Bracket, Gauge, Wheel R.H.
		(For better wear when bagging in	113 114	17060514 STD541431	Screw 5/16-18 x 3/4
		heavy or wet conditions)	115	72110504	Nut, Hex, Keps 5/16-18 UNC Bolt, Carriage 5/16 UNC x 1/2
13	137645	Shaft Assembly, Mandrel,	116	4898H	Bolt, Shoulder
4.4	100774	Vented	117	165746	Wheel, Gauge
14 15	128774 110485X	Housing, Mandrel, Vented	118	73930600	Nut, Centerlock 3/8-16
16	174493	Bearing, Ball, Mandrel Stripper, Vented Mower Deck	119	STD551037	Washer 3/8 x 7/8 x 14 Gauge
18	72140505	Bolt, Carriage 5/16-18 x 5/8	121	143723	Bracket
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 Crownlock 5/16-18 UNC	131 142	STD533710 165890	Bolt, Rdhd Sqnk 3/8-16UNC x 1 Arm Spring Brake Mower
22	134753	Stiffener Bracket	143	157109	Bracket Arm Idler 42"
23	131267	Bracket, Deflector	144	158634	Keeper Belt 42" Clutch Cable
24	105304X	Cap, Sleeve	145	165888	Pulley Idler Flat
25 26	123713X 110452X	Spring, Torsion, Deflector Nut, Push	146	171977	Bolt Ćarriage Idler
27	130968X428	Shield, Deflector	147	131335	Spring Extension
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	148	169022	Spring Return Idler
29	131491	Rod, Hinge	149	165898	Retainer Spring Yellow Zinc
30	157722	Screw Thdrol Washer Head	150 151	19091216 169670	Washer 9/32 x 3/4 x 16 Ga. Bracket Clutch
31	129963	Washer, Spacer	152	169676	Cable Clutch 42 In
32	153535	Pulley, Mandrel	153	169674	Washer Flat 3/8" Type B
33	137266	Nut, Toplock, Flanged	154	169675	Spring Retainer
34 36	STD533717	Bolt Bullou Idlar Flat	155	169671	Spring Retention Lever
30 37	131494 STD551037	Pulley, Idler, Flat Washer 13/32 x 13/16 x 16 Gauge	156	169672	Spacer
40	STD531037	Nut Crownlock 3/8-16 UNC	157	169669	Rod Clutch
44	140088	Guard, Mandrel, L.H.	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, Thd. Roll 1/4-20 x 5/8		130794	Mandrel Assembly (Includes Key
48	133944	Washer, Hardened		169583	Numbers 8-10, 13-15, 31 and 33) Replacement Mower, Complete
49	174284	Roller Assembly, Cam Follower			
50	131340	Bolt, Shoulder #10-24 Grade 5	NOT		ent dimensions given in U.S. inches
				1 inch = 25).4 เมเก

TRACTOR - - MODEL NUMBER 944.601881

MOWER LIFT



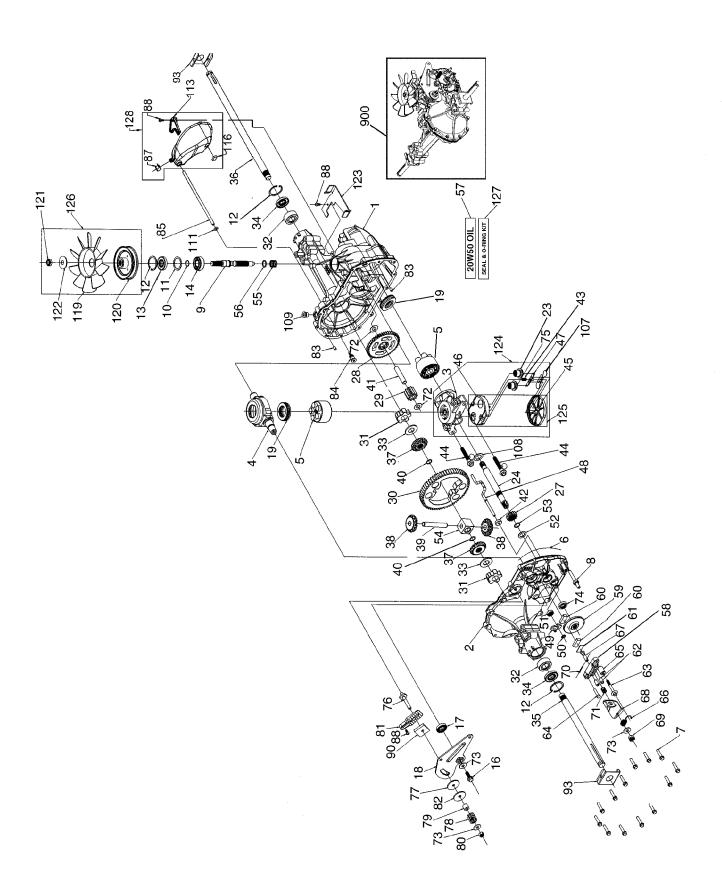
TRACTOR - - MODEL NUMBER 944.601881

MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
1	159460	Wire Asm Inner W/Plunge5r
2	159471	Shaft Asm Lift
3	105767X	Pin Groove
4	STD581062	E Ring #5133-62
5	19211621	Washer 29/32 x 1-1/4 x 21 Ga.
6	120183X	Bearing Nylon Blk .629 ID
7	125631X	Grip Handle Fluted
8	122365X	Button, Plunger
11	139865	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	73800800	Nut Lock w/Wsh 1/2-13 Unc
19	139868	Arm Suspension Rear
20	163552	Spring Retainer
31	169865	Bearing Pvt. Lift
32	73540600	Nut Lock 3/8-24

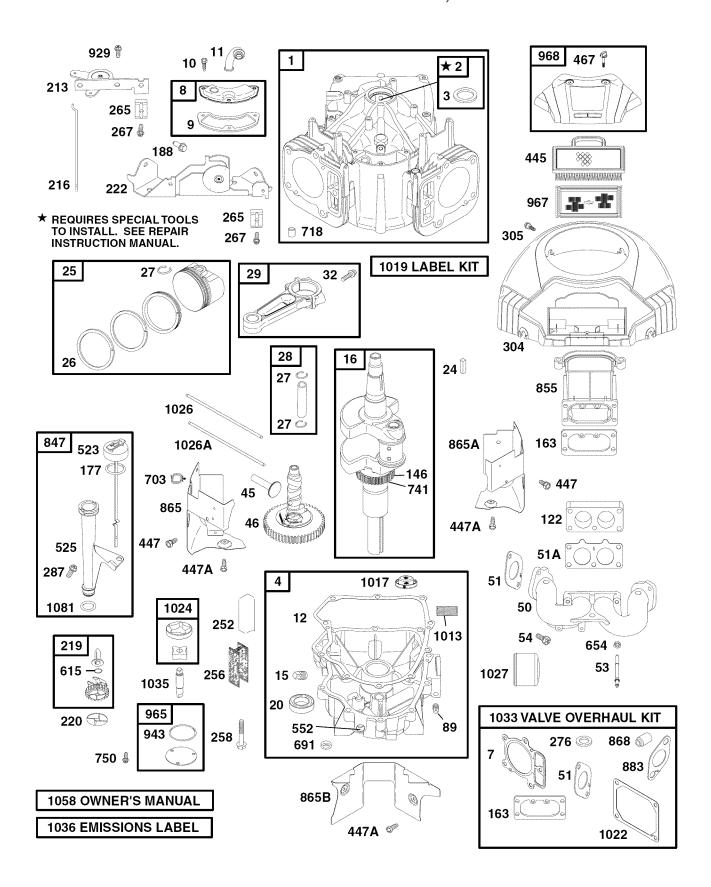
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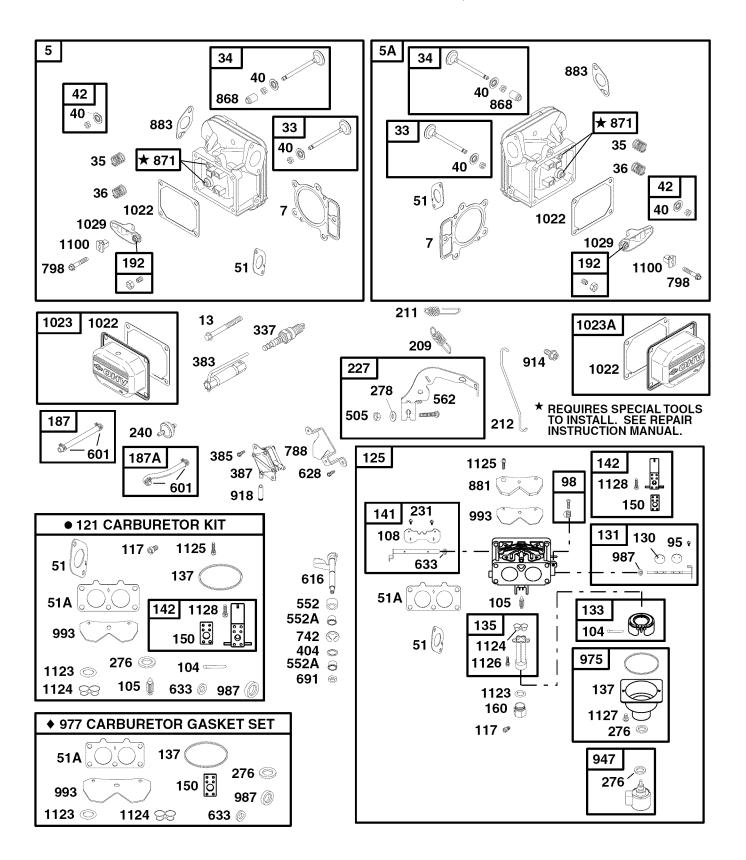
TRACTOR - - MODEL NUMBER 944.601881 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510

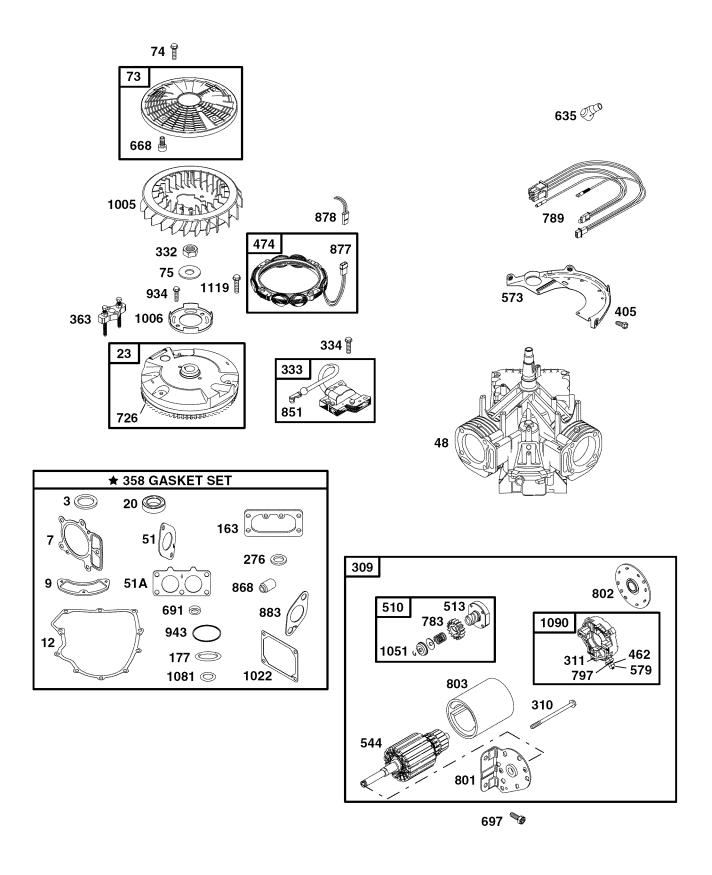


TRACTOR - - MODEL NUMBER 944.601881 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510

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			Patch,SpecialFlange
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	170412	Spring, Brake Arm Bias
10	170359	Ring - Retaining	67	170413	Sq. Hd. Bolt 5/16-24-Ribbed
11	170360	Spacer	68	170414	Arm, Brake
12	169870	Ring - Retaining	69	170415	Slotted Hex Nut 5/16-24
13	170361	Seal, Lip .67 X 1.58 X .276	70	170416	Cotter Pin 3/32 X 3/4
14	169869	Ball Brg 17mm ld X 40mm Od X	71	170417	Compression Spring Brake Anti-Drag
		12mm o	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
		24X0.75	74	170419	Oil Seal .625 X 1.0 X .25
17	170363	Lip Seal 18 X 32 X 7	75	170420	Check Plug Assembly, .027,
18	170364	Arm, Control			Washer
19	150771	Bearing, 30x52x13 Thrust	76	170421	Stud, 5/16-24 Friction Pack
23	170365	Check Plug Assembly, Washer	77	170422	Puck, .330 X 1.50 X .0975
24	170366	Shaft, Motor	78	142969	Spring, Helical Comp
27	170367	Gear - Pinion, 13t	79	142980	Spacer
28	170368	10t/48t Gear	80	150778	Hex Lock Nut 5/16-24Unjf(Nylon
29	170369	Gear, 10t Jackshaft			Insert)
30	170370	60t Bull Gear	81	170423	Wedge, Friction Pack
31	170371	Sleeve Bearing .75 X 1.575 X .625	82	170424	Clip, Washer.316x1.50x.1046
32	170389	SleeveBearing(Outboard)			(Plated)
		.75x1.750x.625	83	161168	Pin, Standard Headless
33	142991	Washer, 3/4 ld X 1-1/2 Od X .13 Thk	84	170425	Fitting, 5/16 Sae 5/32 Tube
34	170390	Lip Seal Axle Seal	85	170426	Hose, Expansion Tank
35	170391	Shaft, Axle .75 X 11.39 (Key, R.H.)	87	142917	Cap - Poppet Valve
36	170392	Shaft, Axle .75 X 16.99 (Key, L.H.)	88	170429	Bolt, Self Tapping 10-32 X 1/2
37	150792	MiterGear(Splined)	90	170430	Puck, Inner Wedge
38	150793	Miter Gear 15t (0.5 ld)	93	170431	Spring Clip - Housing Thrust
39	150809	Shaft	107	170432	Deflector
40	170393	Ring, Spiral Retaining	108	170433	Washer,MotorShaft
41	170394	Pin, Jackshaft			.71idx1.15odx.030thk
42	170395	Magnet, Ring	109	170434	Plug, Sae #6
43	170396	Spring, Bypass	111	170435	O-Ring .07 X .301 I.D.
44	150797	Hydro Mtg Screw 3/8-24 X 2.5 Long	113	170437	Bracket, Support Expansion Tank
45	170397	Filter	116	170438	Silicon Sponge
46	170398	Base, Filter	119	170439	Fan, 7 In.
47	170399	Actuator, Bypass	120	170440	Pulley
48	170400	Rod, Bypass Actuator	121	170441	Hex Lock Nut 1/2-20 (Nylon Insert)
49	170401	Arm, Bypass	122	170442	Washer, Belleville
50	170402	Retaining Ring .250 External	123	170443	Belt Keeper
51	170403	Seal, Lip .741 X .250 X .250 Tc	124	170444	Center Section-Filter-Bypass
52	170404	Flat Washer, 5/8 ld X 1.0 Od X .05			Assembly
		Thk	125	170445	Filter Assembly
53	170405	Retaining Ring	126	170446	Fan - Pulley Service Assembly
54	170406	Bearing, Center Block	127	170447	Seal - O-Ring Kit
55	142977	Spring - Helical Compression	128	173165	Kit, Expansion Tank
56	142978	Washer	900	166768	Transaxle Complete
57	150798	20w-50 Oil			
58	170407	Brake Yoke	NOTI		ent dimensions given in U.S. inches
				1 inch = 25.	4 mm



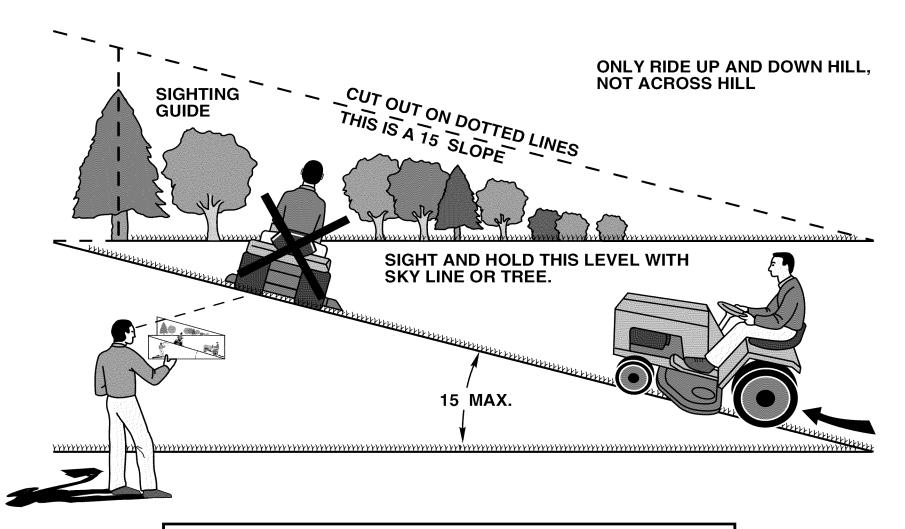




1 690231 Cylinder Assembly 135 499803 Fuel Transfer Tube 2 499585 Bushing-Cylinder 137 690994 40 Gasket-Float Bowl 4 690069 Seal-Oil 141 499807 Choke Shaft Kit 5 499587 Head-Cylinder No. 1 146 94388 70 5 499587 Head-Cylinder No. 2 150 281767 40 7 690962 Head-Cylinder Head 160 690996 Head-Cylinder Head 160 690994 Head-Cylinder Head 187 691050 Head-Cylinder Head 187 691050 Line-Fuel (Cut to Required Length 11 690940 Screw (Cylinder Head) 192 690083 Adjuster-Rocker Arm 15 690946 Plug-Oil Drain 209 690018 Head-Cyli	
Seal-Oil Samp-Engine	
4 690069 5 Sump-Engine 142 499808 29587 A99887 499887 A99887 Head-Cylinder No. 1 146 94388 (Key-Timing A99808 (Key-Timing A99808) A99895 Key-Timing (Key-Timing A99808) Key-Timing (Key-Timing A9989) Key-Riymel (Key-Timing A9989) Key-Timing A9989 Key-Riymel (Key-Timing A9989) Key-Timing A9989 Key-Riymel (Key-Timing A9989) Key-Flymhel (Liming A9989)	
5A 499587 Head-Cylinder No. 1 146 94388 Key-Timing 7A 690962 +* Gasket-Cylinder Head 160 690996 +* Gasket-Nozzle 8 499601 Breather Assembly 163 691001 +* Gasket-Nozzle 9 690937 Gasket-Rozzle +* Gasket-Air Cleaner 177 691031 -* Oring Seal (Dipstick) 10 690960 Screw (Breather Assy.) 187 691050 Line-Fuel (Cut to Required Length 11 690945 - Gasket-Toralkcase 188 690960 Screw (Cylinder Head) 192 690083 Adjuster-Rocker Arm 15 690945 - Gasket-Crankcase 188 690960 Screw (Control Bracket) 16 691046 Crankshaft 211 690019 Spring-Governor 16 691047 - Seal-Oil (PTO Side) 212 691021 Bracket-Choke Control Lever 24 690974 - Seal-Oil (PTO Side) 212 691022 Link-Throttle 25 499588 Piston Assembly (Std.)	
5A 499595 Head-Cylinder No. 2 150 281767 40 Gasket-Nozzle 7 690962 → Gasket-Cylinder Head 160 690996 ⊕ Retainer-Solenoid 9 690937 • Gasket-Breather 177 691031 → Gasket-Mir Cleaner 10 690940 Screw (Breather Assy.) 187 691050 Line-Fuel (Cut to Required Length 11 690942 • Gasket-Crankcase 188 690960 Screw (Control Bracket) 13 690360 Screw (Cylinder Head) 192 690083 Adjuster-Rocker Arm 15 690946 Plug-Oil Drain 209 690018 Spring-Governor 16 691046 Crankshaft 211 690102 Link-Throttle 23 691054 Flywheel 213 691021 Bracket-Choke Control 24 690974 Key-Flywheel 216 691022 Link-Choke 249588 Piston Assembly (Cott O.S.) 220 690412 Washer (Governor Lever) 499589 Piston Assembly (
7 690962 +• Casket-Cylinder Head 160 690996 Retainer-Solenoid 9 690937 • Gasket-Breather 177 691031 • O-Ring Seal (Dipstick) 10 690960 Screw (Breather Assy.) 187 691049 Line-Fuel (Cut to Required Length 11 690945 • Gasket-Crankcase 188 690960 Screw (Cylinder Head) 192 690083 Adjuster-Rocker Arm 15 690946 • Plug-Oil Drain 209 690018 Spring-Governor 16 691046 Scal-Oil (PTO Side) 211 690019 Spring-Governor 20 690947 • Seal-Oil (PTO Side) 211 691020 Link-Throttle 23 691054 Flywheel 216 691020 Link-Choke Control 24 690974 • Seal-Oil (PTO Side) 213 691021 Bracket-Choke Control 24 690974 • Seal-Oil (PTO Side) 213 691021 Link-Choke 25 499588 Piston Assembly (5td.) 219 394348	
8 499601 Breather Assembly 163 691001 +• Gasket-Air Cleaner 9 690937 • Gasket-Breather 177 691031 +• Claimer • O-Ring Seal (Dipstick) 10 690960 Screw (Breather Assy.) 187 691050 Line-Fuel (Cut to Required Length 11 690945 • Gasket-Crankcase 188 690960 Screw (Control Bracket) 15 690946 • Screw (Cylinder Head) 192 690083 Adjuster-Rocker Arm 15 690946 Plug-Oil Drain 209 690018 Spring-Governor 16 691046 Crankshaft 211 690019 Spring-Governor 20 690947 • Seal-Oil (PTO Side) 212 691020 Link-Throttle 23 691054 Flywheel 213 691021 Bracket-Choke Control 24 690974 Key-Flywheel 216 691022 Link-Choke 25 499588 Piston Assembly (Std.) 219 394348 Gear-Governor 25 49	
9 690937 • Gasket-Breather 177 691031 • O-Ring Seal (Dipstick) 10 690960 Screw (Breather Assy.) 187 691050 Line-Fuel (Cut to Required Length 11 690945 • Gasket-Crankcase 188 690960 Screw (Cotrtol Bracket) 13 690360 Screw (Cylinder Head) 192 690083 Adjuster-Rocker Arm 15 690946 Plug-Oil Drain 209 690018 Spring-Governor 16 691046 Crankshaft 211 690019 Spring-Governed Idle 20 690947 • Seal-Oil (PTO Side) 212 691020 Link-Throttle 23 691054 Flywheel 213 691021 Bracket-Choke Control 24 690974 Key-Flywheel 216 691022 Link-Choke 25 499588 Piston Assembly (Std.) 219 394348 Gear-Governor 24 499589 Piston Assembly (.030" O.S.) 220 691023 Bracket-Control 24 499580 <	
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50 690948 Manifold-Intake 334 691061 Screw (Armature)	
51 690949 +Ø• Gasket-Intake 337 691043 Spark Plug	
51A 690950 ‡Ø∙ Gasket-Intake 358 499889 Gasket Set	
53 690951 Stud (Carburetor) 363 691062 Flywheel Puller	
54 690953 Screw (Intake Manifold) 383 690966 Wrench-Spark Plug	
73 691055 Screen-Rotating 385 690960 Screw (Fuel Pump)	
74 691057 Screw (Rotating Screen) 387 691034 Pump-Fuel	
75 691056 Washer (Flywheel) 404 690442 Washer (Governor Crank)	
89 690238 Plug-Oil	
95 690718 Screw (Throttle Valve) RPM Settings: Low Speed: 1900-2100	
98 499802 Idle Speed Kit High Speed: 3000-3200	
104 690984 Ø Pin-Float Hinge	
105 690985 Ø Valve-Float Needle • Included in Gasket Set, Ref. No. 358 108 690986 Valve-Choke Ø Included in Gasket Set, Ref. No. 121	
117 690232 Ø Jet-Main (Standard) ‡ Included in Gasket Set, Ref. No. 977 690989 Jet-Main High Altitude) + Included in Gasket Set, Ref. No. 1033	
121 499811 Carburetor Overhaul Kit	
122 690952 Spacer-Carburetor NOTE: All component dimensions given in U.S. inches	2
125 499804 Carburetor 1 inch = 25.4 mm	•
130 690993 Valve-Throttle	
131 499805 Throttle Shaft Kit	
133 499806 Float-Carburetor	

KEY NO.	PART NO.		DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
405	690960		Screw (Back Plate)	883	690970	+• Gasket-Exhaust
445 447	691007 691003		Filter-Air Cleaner Cartridge	914 918	690960 691040	Screw (Rocker Cover) Hose-Vacuum
447A	690960		Screw (Air Guide Cover) Screw (Air Guide Cover)	929	691003	Screw (Choke Control Bracket)
462	691261		Knob-Air Cleaner	934	691058	Screw (Fan Retainer)
474	691063		Alternator	943	690589	O-Ring Seal (Oil Pump Cover)
505	691029		Nut (Gov. Control Lever)	947	499809	Solenoid-Fuel
510	497606		Drive-Starter	965	499613	Oil Pump Cover
513	692024		Clutch-Drive	967	691016	Filter-Pre-Cleaner
523	691036		Dipstick	968	499788	Cover-Air Cleaner
525	691037		Dipstick Tube	975	499810	Bowl-Float
544		•	Armature-Starter (Service with 691262 Starter Motor)	977 987	499812 691000	Gasket Set-Carburetor ‡Ø Seal-Throttle Shaft
552	690552		Bushing-Governor Crank	993	690234	‡Ø Gasket-Plate
552A	690553		Bushing-Governor Crank	1005	691243	Fan-Flywheel
562	690311		Bolt (Gov. Control Lever)	1006	691247	Retainer-Fan
573	691009		Plate-Back	1013	690954	Nipple-Oil Filter
579	691029		Nut (Starter Cable)	1017	690770	Oil Pump Screen
601	691038		Clamp-Hose	1019	690103	Label Kit
615	690317		Retainer-Governor Shaft	1022	690971	+• Gasket-Rocker Cover
616 628	691045 690960		Crank-Governor	1023	499599 499600	Cover-Rocker (Cyl. No. 1)
633		tØ	Screw (Fuel Pump Bracket) Seal-Choke Shaft	1023A	499054	Cover-Rocker (Cyl. No. 2) Pump-Oil
635	691210	+~	Boot-Spark Plug	1026	690981	Rod-Push (Steel)
654	690958		Nut (Carburetor)		690982	Rod-Push (Aluminum)
668	691215		Spacer	1027	690041	Filter-Oil `
691	690657	•	Governor Shaft Seal	1029	690972	Rocker Arm
697	690372		Screw (Drive Cap)	1033	499890	Valve Overhaul Kit
703	690010 690959		Clip Dia Lagatar	1035 1036	691042 499783	Shaft-Pump
718 726	499612		Pin-Locator Gear-Ring	1050	691265	Emissions Label Ring-Retaining
741	690980		Gear-Timing	1058	273694	Owner's Manual
742	690328		E-Ring Retainer	1081	691032	O-Ring Seal (Dipstick Tube)
750	691033		Screw (Oil Pump Cover)	1090	691293	Retainer-Brush
783	693058		Gear-Pinion	1100	690973	Rocker Arm Pivot
788	691039		Fuel Pump Bracket	1119	93621	Screw (Alternator)
789 707	694209		Harness-Wiring	1123	690987	‡Ø O-Ring Seal (Solenoid Retainer)
797 798	693167 690967		Screw (Brush Retainer) Screw (Rocker Arm)	1124 1125	690988 690990	‡Ø O-Ring Seal-Fuel Transfer Tube Ø Screw (Cover Plate)
801	691283		Cap-Drive	1126	690991	Screw (Governate) Screw (Fuel Transfer Tube
802	691286		Cap-End	1127	690992	Screw (Float Bowl)
803			Housing-Starter (Service with 691262	1128	690990	Ø Screw (Carburetor Nozzle)
			Starter Motor)		407777-0	0027-E1 Replacement Engine
	499602		Dipstick/Tube Assembly			
851	691234		Terminal-Cable	RPM S	Settings:	Low Speed: 1900-2100
855 865	691011		Adapter-Air			High Speed: 3000-3200
865 865A	691012 691014		Cover-Air Guide Cover-Air Guide			' O O D (N OFO
865B	691015		Cover-Air Guide	• Ø		in Gasket Set, Ref. No. 358
868	690968	+•	Seal-Valve	Ø ‡		in Gasket Set, Ref. No. 121 in Gasket Set, Ref. No. 977
871	690969	•	Bushing-Guide	+++++++++++++++++++++++++++++++++++++++		in Gasket Set, Ref. No. 1033
877	399916		Alternator Connector/Wire	ı	moradou	in Gasher Cot, Hor. 100. 1000
878	691237		Harness-Alternator	NOTE:	: All comp	oonent dimensions given in
881	690999		Plate-Cover			n = 25.4 mm

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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