

MODEL NO. 944.604881

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



CRAFTSMAN®

18.0 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

- Assembly
- Operation
- Maintenance
- 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 mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

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

DO:

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

DO NOT:

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

III. CHILDREN

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

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

IV. SERVICE

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

SAFETY RULES



SAFE OPERATION PRACTICES FOR RIDE-ON MOWERS













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



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



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



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

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PRODUCT SPECIFICATIONS

Gasoline Capacity and type:	1.25 Gallons Uunleaded Regular				
Oil Type (API-SF-SJ):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F) SYNTHETIC (Below 0°F)				
Your tractor was shipped for SAE 10W-30 motor oil	from the factory with non-synthetic				
Oil Capacity:	W/ Filter: 3.5Pints W/O Filter: 3.0Pints				
Spark Plug: (Gap: .030")	Champion RC12YC				
Ground Speed (MPH):	Forward: 5.2 Reverse: 2.7				
Tire Pressure:	Front: 14 PSI Rear: 10 PSI				
Charging System:	3 Amps Battery 5 Amps Headlights				
Battery:	AMP/HR: 28 MIN. CCA: 230 CASE SIZE: U1R				
Blade Bolt Torque:	27-35 FT. LBS.				

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

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

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

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

- · Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

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

A spark arrester for the muffler is available through your nearest authorized service center/department (See REPAIR PARTS section of this manual).

WARRANTY

LIMITED TWO (2) YEAR WARRANTY ON CRAFTSMAN TRACTOR (RIDING EQUIPMENT)

For two (2) years from date of purchase Sears Canada, Inc. will repair or replace at Sears option free of charge parts which are defective as a result of material or workmanship.

FULL ONE (1) YEAR WARRANTY ON BATTERY

For one (1) year from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

COMMERCIAL OR RENTAL USE

Warranty on Riding Equipment used for commercial or rental purposes is limited to ninety (90) days.

This Warranty does **NOT** cover:

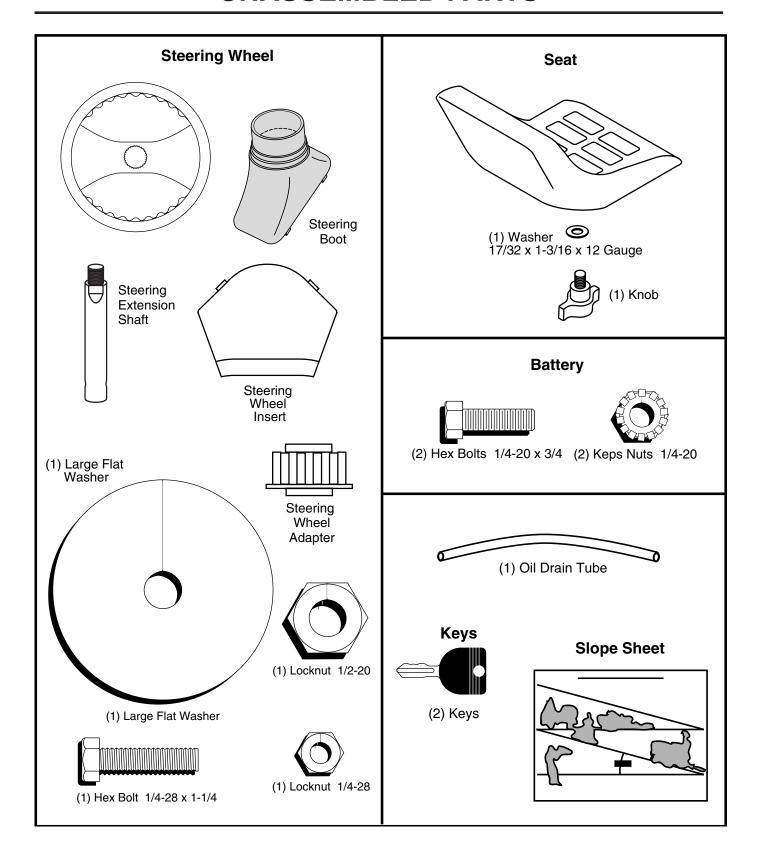
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse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

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

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

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

UNASSEMBLED PARTS



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

(1) 3/4" wrench Pliers

(2) 7/16" wrenches Tire pressure gauge

Utility knife

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton.
- Cut along dotted lines on all four panels of carton.
 Remove end panels and lay side panels flat.
- Check for any additional loose parts or cartons and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL (See Fig. 1)

ASSEMBLE EXTENSION SHAFT AND BOOT

 Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 1/4 hex bolt and locknut. Tighten securely.

IMPORTANT: TIGHTEN BOLT AND NUT SECURELY TO 10-12 FT. LBS TORQUE.

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

INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 1/2 hex nut and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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

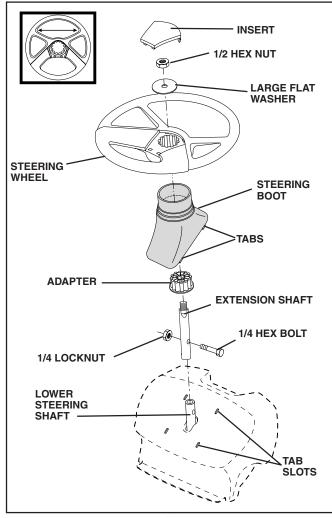


FIG. 1

INSTALL SEAT (See Fig. 2)

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan so head of shoulder 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.

ASSEMBLY

- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.

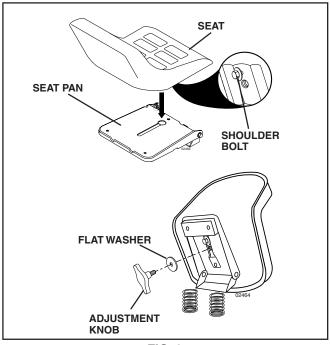


FIG. 2

HOW TO SET UP YOUR TRACTOR

CONNECT BATTERY (See Figs. 3 and 4)



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

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

- Lift seat pan to raised position.
- Remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in the Maintenance section of this manual for charging instructions).
- First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely. Slide terminal cover over terminal.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.

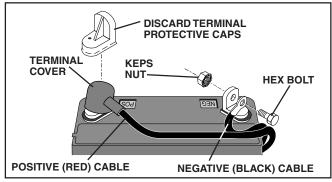


FIG. 3

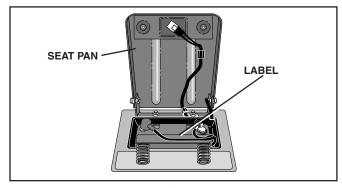


FIG. 4

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

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

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

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

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

- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position.

ASSEMBLY

- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- Release parking brake.
 Slowly move the motion control lever forward and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place motion control lever in neutral position.
- Turn ignition key to "OFF" position.

Continue with the instructions that follow.

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

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



CAUTION: Do not remove deflector shield from mower.

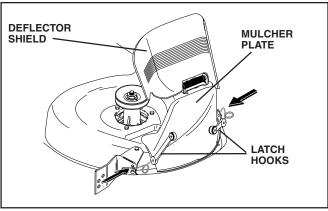


FIG. 5

TO CONVERT TO BAGGING OR DISCHARGING

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

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

CHECK TIRE PRESSURE

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

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

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

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

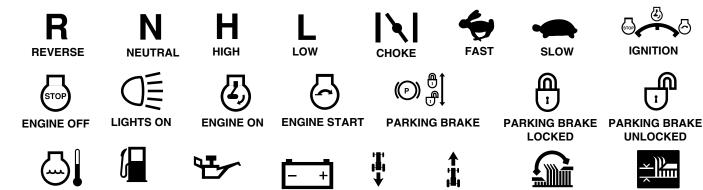
PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

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





OVER TEMP



OIL PRESSURE



BATTERY



FORWARD





MOWER HEIGHT





ATTACHMENT

ATTACHMENT CLUTCH ENGAGED CLUTCH DISENGAGED



REVERSE

DANGER, KEEP HANDS





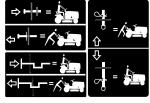


MOWER LIFT

AND FEET AWAY

KEEP AREA CLEAR

(SEE SAFETY RULES SECTION)



FUEL

FREE WHEEL (Automatic Models only)



Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage.



DANGER indicates a hazard which, if not avoided, will result in death or serious injury.



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



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

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



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



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

KNOW YOUR TRACTOR

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR

Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.

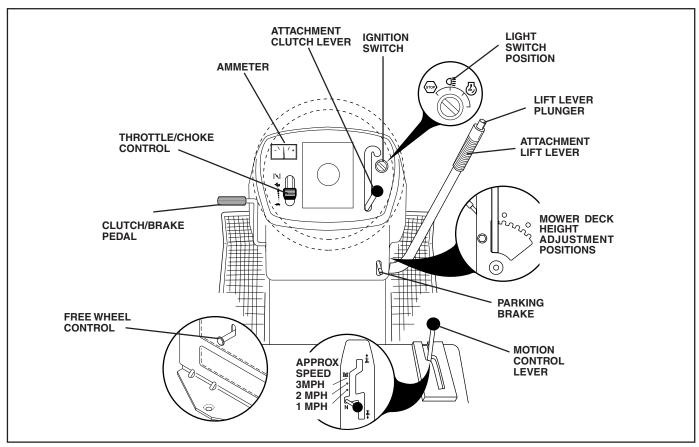


FIG. 6

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

ATTACHMENT CLUTCH LEVER - Used to engage the mower blades, or other attachments mounted to your tractor.

LIGHT SWITCH POSITION - Turns the headlights on and off.

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

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

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

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

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

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

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

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

IGNITION SWITCH - Used for starting and stopping the engine.



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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 7)

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

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

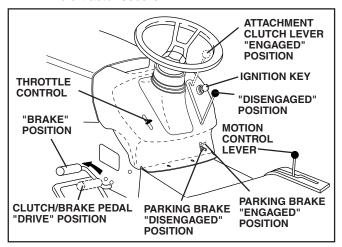


FIG. 7

STOPPING (See Fig. 7)

MOWER BLADES -

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

GROUND DRIVE -

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

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

ENGINE -

Move throttle control to slow position.

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

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

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

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



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

TO USE THROTTLE CONTROL (See Fig. 7)

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACKWARD (See Fig. 7)

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

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 7)

The 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. 8)

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

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

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

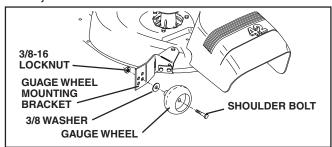


FIG. 8

TO OPERATE MOWER (See Fig. 9)

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

- Select desired height of cut.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.



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

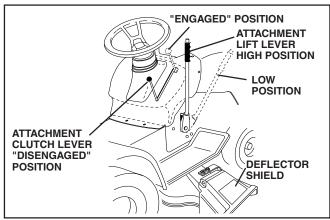


FIG.9

TO OPERATE ON HILLS



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

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

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

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

TO TRANSPORT (See Figs. 6 and 10)

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

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

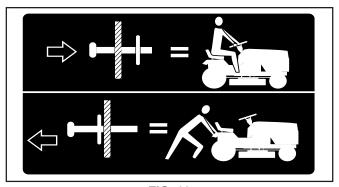


FIG. 10

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

TOWING CARTS AND OTHER ATTACHMENTS

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

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

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

ADD GASOLINE

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



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

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

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

TO START ENGINE (See Fig. 6)

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

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to 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 "TOTRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

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

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

MOWING TIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 11).

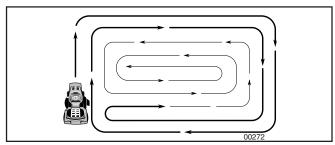


FIG. 11

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

MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 12). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

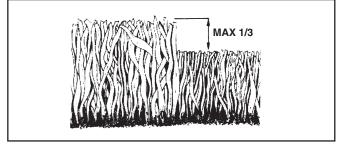


FIG. 12

- 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.

AS	MAINTENANCE SCHEDUL LI IN DATES YOU COMPLETE EGULAR SERVICE	E	BEFORE	EACHUS EVERY &	HOUR	SHOUP SHOUP VERY S	OHOUP OHOUP VERY	S HOLL	RS ON SEASON SEFORES	ORAGE SERVIC	E DATES
	Check Brake Operation	/	1								
	Check Tire Pressure	/	/								
т	Check Operator Presence and Interlock Systems	/									
R	Check for Loose Fasteners	1				1 5		/			
ΙÀ	Sharpen/Replace Mower Blades			1 3							
Ι¥	Lubrication Chart			/				/			
Ьò	Check Battery Level			4							
R	Clean Battery and Terminals			/				/			
	Check Transaxle Cooling			/							
	Check V-Belts					V					
	Check Engine Oil Level	/	1								
	Change Engine Oil (with oil filter)				1 ,2	2		/			
lε	Change Engine Oil (without oil filter)			1 ,2				'			
N	Clean Air Filter			✓ 2							
Ģ	Clean Air Screen			√ 2							
ľ	Inspect Muffler/Spark Arrester				1						
ΙË	Replace Oil Filter (If equipped)					1,2	:				
-	Clean Engine Cooling Fins					1 2					
	Replace Spark Plug					1	1				
	Replace Air Filter Paper Cartridge					√ 2					
	Replace Fuel Filter						/				

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

GENERAL RECOMMENDATIONS

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

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

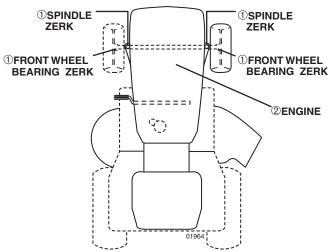
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 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 airfuel mixture and help your engine run better and last longer.

BEFORE EACH USE

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

LUBRICATION CHART



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

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

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

OPERATOR PRESENCE SYSTEM

Be sure operator presence and interlock systems are working properly. If your tractor does not function as described, repair the problem immediately.

- The engine should not start unless the brake pedal is fully depressed and attachement clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

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

BLADE REMOVAL (See Fig. 13)

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

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

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

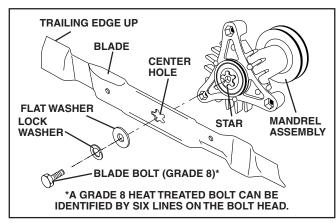


FIG. 13

TO SHARPEN BLADE (See Fig. 14)

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

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

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

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

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

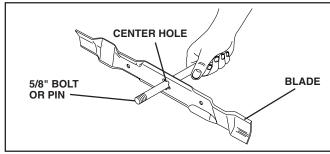


FIG. 14

BATTERY

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

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

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

TO CLEAN BATTERY AND TERMINALS

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

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

V-BELTS

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

TRANSAXLE COOLING

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

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

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

TRANSAXLE PUMP FLUID

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

ENGINE

LUBRICATION

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

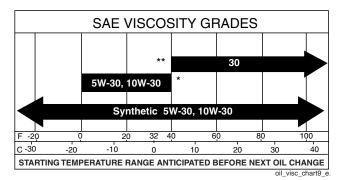


FIG. 15

- * **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. 15 and 16)

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

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

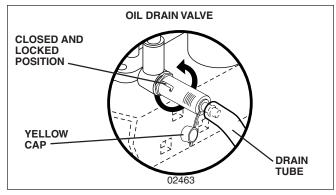


FIG. 16

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

CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

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

AIR FILTER (See Fig. 17)

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

Service air cleaner more often under dusty conditions.

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

NOTE: If very dirty or damaged, replace cartridge.

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

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

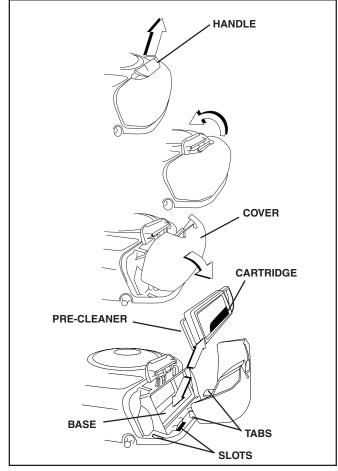


FIG. 17

ENGINE OIL FILTER

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

MUFFLER

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

SPARK PLUGS

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

IN-LINE FUEL FILTER (See Fig. 18)

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.

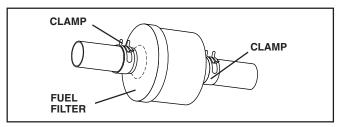


FIG. 18

CLEANING

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

We do not recommend using a garden hose or pressure washer to clean your tractor unless the engine and transmission are covered to keep water out. Water in engine or transmission will shorten the useful life of your tractor. Use compressed air or a leaf blower to remove grass, leaves and trash from tractor and mower.



WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUST-MENTS:

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

TRACTOR

TO REMOVE MOWER (See Fig. 19)

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

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

 Raise lift lever to raise suspension arms. Slide mower out from under tractor.

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

TO INSTALL MOWER (See Fig. 19)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with deflector shield to right side of tractor.
- Lower lift lever to its lowest position.
- Connect front links to mower deck and secure with retainer springs..
- Connect suspension arms to rear deck brackets and secure with retainer springs.
- Connect anti-swaybar to chassis bracket and secure with retainer spring.
- Push clutch cable housing guide into bracket, slide collar onto guide and secure with large retainer spring.

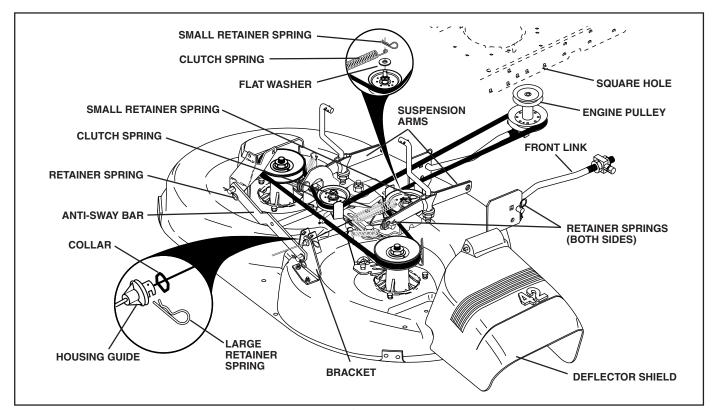


FIG. 19

- Place flat washer and clutch spring on idler pulley bolt and secure with small retainer spring.
- · Install belt onto engine pulley.

TO LEVEL MOWER HOUSING

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

SIDE-TO-SIDE ADJUSTMENT (See Figs. 20 and 21)

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

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

· Recheck measurements after adjusting.

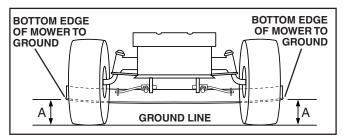


FIG. 20

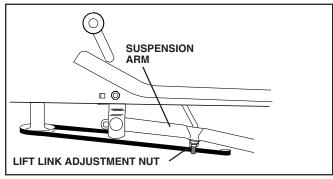


FIG. 21

FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23) IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

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

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

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

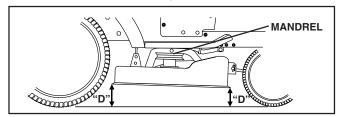


FIG. 22

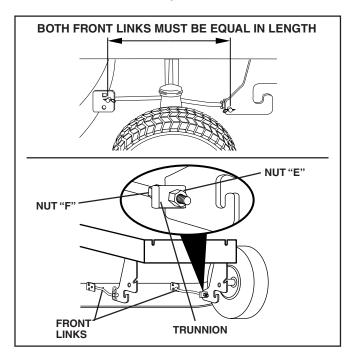


FIG. 23

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

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.

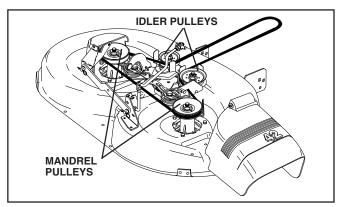


FIG. 24

TO CHECK AND ADJUST BRAKE (See Fig. 25)

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

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

TO CHECK BRAKE

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

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

TO ADJUST BRAKE

- Depress clutch/brake pedal all the way down and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".

- Engage transmission by placing freewheel control in "transmission engaged" position.
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a qualified service center.

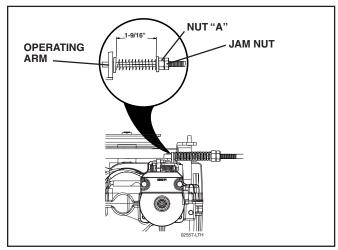


FIG. 25

TO REPLACE MOTION DRIVE BELT (See Fig. 26)

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

BELT REMOVAL -

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

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

- Remove belt from stationary idler and clutching idler.
- Remove belt downward from around engine pulley.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley.
- Remove belt from center span keeper and pull belt away from tractor.

BELT INSTALLATION -

- Carefully work new belt down and onto the input pulley.
- Slide belt into the center span keeper.
- Pull belt toward front of tractor and roll around the top groove of engine pulley.
- Install belt through stationary idler and clutching idler.
- Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- Install mower (See "TO INSTALL MOWER" in this section of manual).

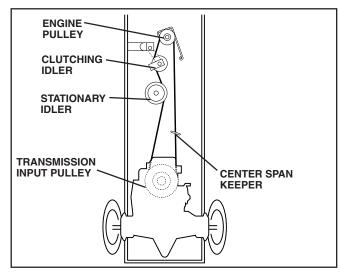


FIG. 26

TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT(See Fig. 27)

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.

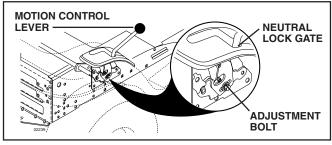


FIG. 27

TRANSMISSION REMOVAL/REPLACEMENT

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

TO ADJUST STEERING WHEEL ALIGN-MENT

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

FRONT WHEEL TOE-IN/CAMBER

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

TO REMOVE WHEEL FOR REPAIRS (See Fig. 28)

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

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

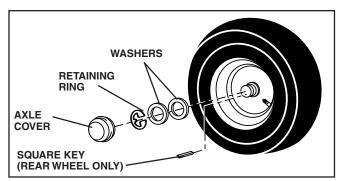


FIG. 28

TO START ENGINE WITH A WEAK BATTERY (See Fig. 29)



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

If your battery is too weak to start the engine, it should be recharged. (See "BATTERY" in the Maintenance section of this manual).

If "jumper cables" are used for emergency starting, follow this procedure:

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

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

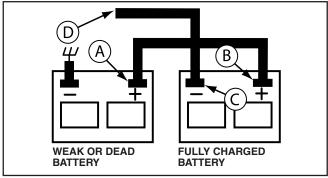


FIG. 29

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. 30)

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

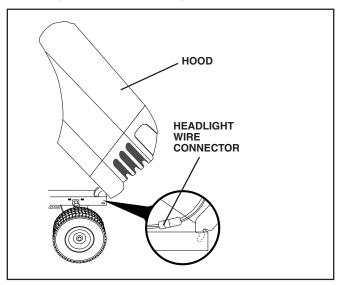


FIG. 30

ENGINE

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. 31)

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

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

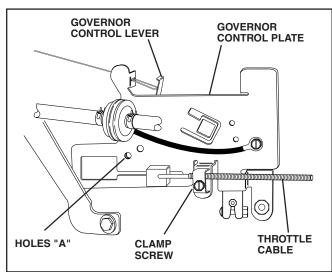


FIG. 31

TO ADJUST CARBURETOR (See Fig. 32)

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

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

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

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

PRELIMINARY SETTING -

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

FINAL SETTING -

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

ACCELERATION TEST -

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

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

IMPORTANT: NEVERTAMPERWITHTHEENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACTYOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

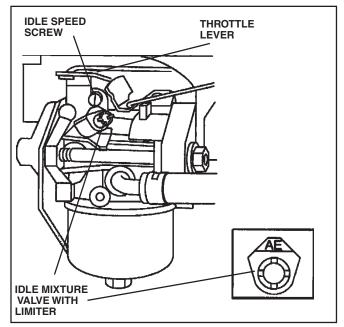


FIG. 32

STORAGE

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



WARNING: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

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

BATTERY

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

ENGINE

FUEL SYSTEM

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

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

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

ENGINE OIL

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

CYLINDER(S)

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

OTHER

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

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

TROUBLESHOOTING POINTS

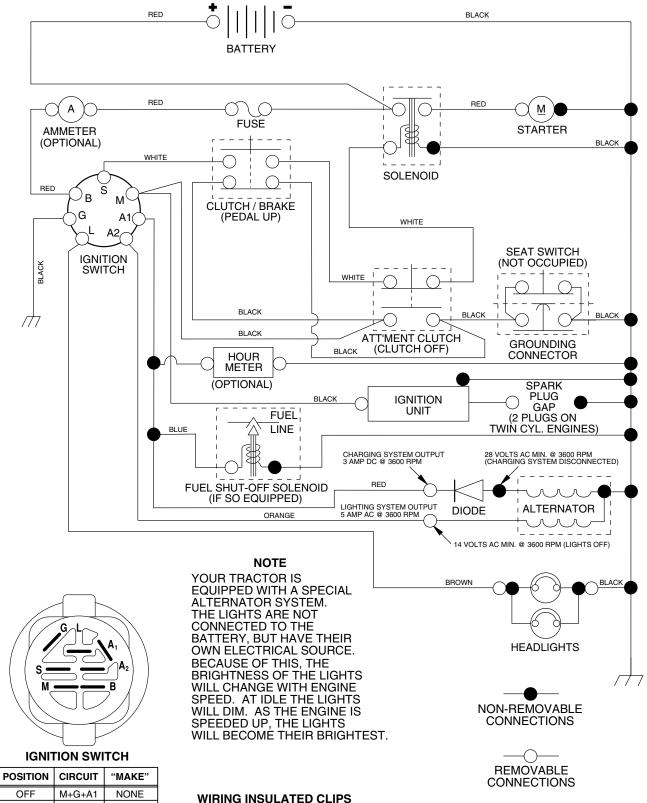
PROBLEM	CAUSE	CORRECTION		
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Porain 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	 Clutch/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 clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department. 		
Engine clicks but will not start	Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter.	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter. 		
Loss of power	1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	 Set in "Higher Cut" position/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department. 		
Excessive vibration	Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s).	Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.		

TROUBLESHOOTING POINTS

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

TRACTOR - - MODEL NUMBER 944.604881

SCHEMATIC



OFF M+G+A1 NONE RUN/LIGHT B+A1 A2+L NONE RUN B+A1

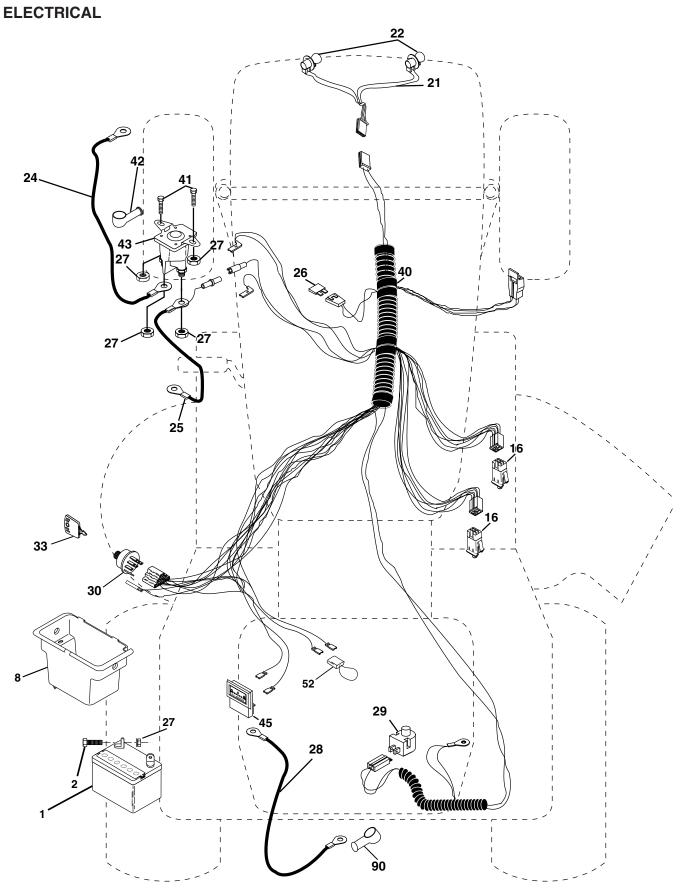
B + S + A1

START

NONE

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

TRACTOR - - MODEL NUMBER 944.604881



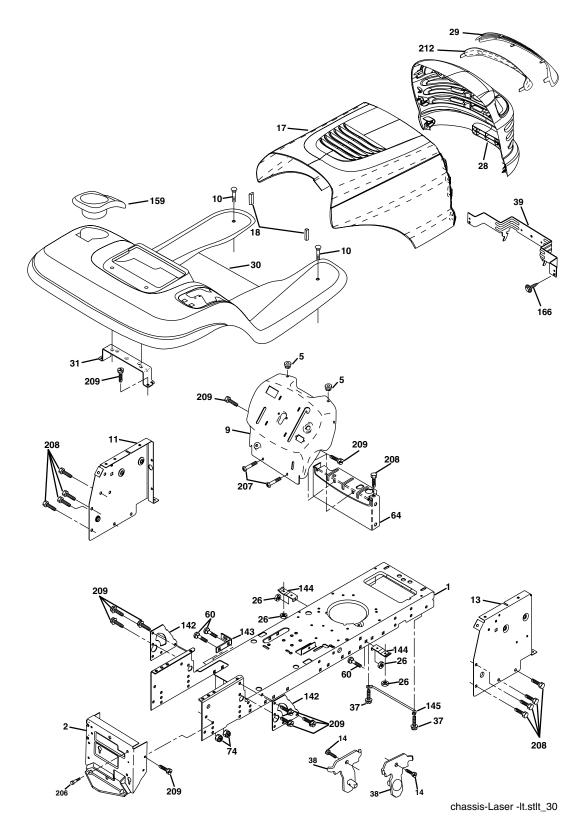
TRACTOR - - MODEL NUMBER 944.604881

ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1 2 8 16 21 22 24 25 26 27 28 29	4152J 4799J 146147 175158 73510400 4207J	Battery Bolt Hex Hd 1/4-20 Unc x 3/4 Box Battery Switch Interlock Push-In Harness Asm Light W/4152J Bulb Light #1156 Cable Battery 6 Ga 11"red Cable Battery Fuse Nut Keps Hex 1/4-20 Unc Cable Ground Switch Plunger Nc Olive
30 33	175566	Switch Ign 3 Key Ign
40 41 42	179720	Harness Ign Bolt Blk Fin Hex 1/4-20 Unc x 1/2 Cover Terminal Red
43 45	178861	Solenoid Ammeter Protection Wire Loop (Hourmeter) Cover Terminal

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

TRACTOR - - MODEL NUMBER 944.604881 CHASSIS AND ENCLOSURES



TRACTOR - - MODEL NUMBER 944.604881

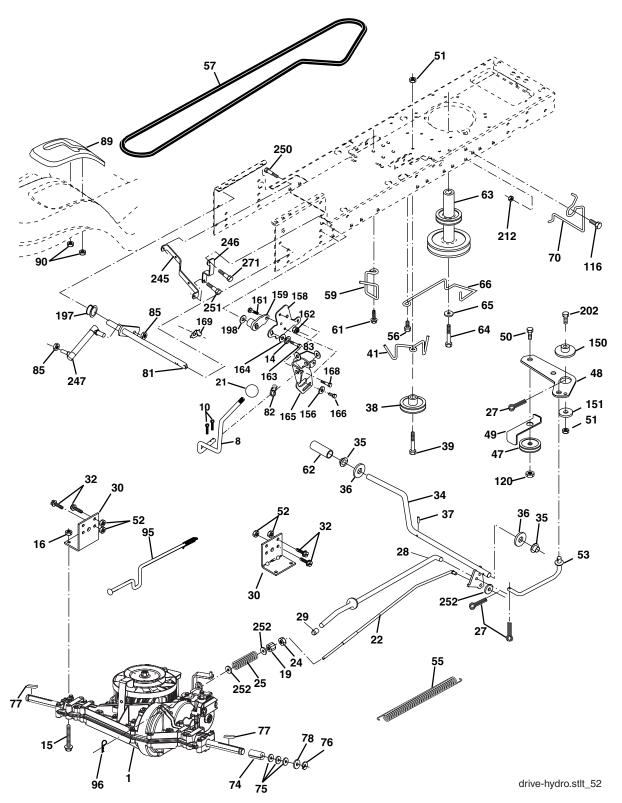
CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1	174619	Chassis Stl Stamping
2	176554	Drawbar, Stretch
5	155272	Bumper Hood/Dash
9	168337X011	Dash P/L
10 11	STD533710 174996	Bolt Carriage 3/8-16 x 1 Panel Dash Lh
13	174996 172105X010	Panel Dash Rh
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	185682X558	Hood
18	184921	Bumper Hood
26	STD541437	Nut Lock Hex W/Ins 3/8-16 Unc
28	175049	Grille/Lens Asm
29	174332X599	
30	175692X558	Fender Footrest STLT Pnt
31	139976	Bracket Support Fender Screw Thdrol 5/16-18 x 1/2
37 38	17490508 175710	Bracket Asm. Pivot Mower Rear
39	174714	Bracket Pivot Laser LT
60	STD533707	Bolt Rdhd Sqnk 3/8-16 Unc x 3/4
64	154798	Dash Lower STLT
74	STD541437	Nut Crownlock 3/8-16 Unc
142	175702	Plate Reinforcement STLT
143	186689	Bracket Swaybar Chassis
144	175582	Bracket Pnt Footrest STLT
145	156524	Rod Pivot Chassis/Hood
159	155123X428	Cupholder
166 206	171875 170165	Screw HWHD Hi-Lo #13-16 x 3/4 Bolt Shoulder 5/16-18 TT
200	17670508	Screw Thdrol 5/16-18 x 1/2
208	17670608	Screw Thdrol 3/8-16 x 1/2
209	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
212	175143	Insert Lens Reflective
	5479J	Plug Button

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

TRACTOR - - MODEL NUMBER 944.604881

DRIVE



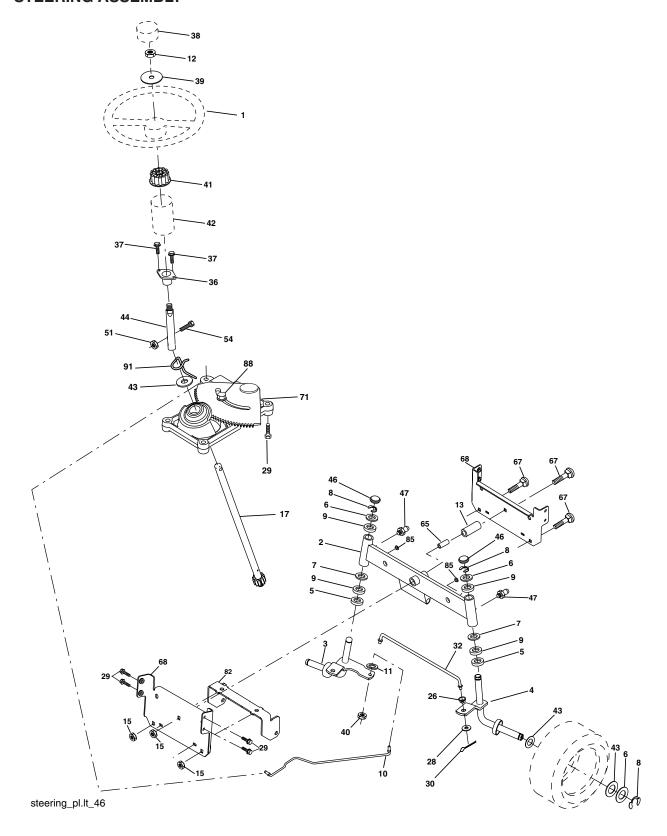
TRACTOR - - MODEL NUMBER 944.604881

DRIVE

	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown) Peer-	74	137057	Spacer Axle
0	105000	less LTH2000	75	121749X	Washer 25/32 x 1 1/4 x 16 Ga
8	165866	Rod Shift Fender Adjust LT	76 77	STD581075	E-ring #5133-75
10	STD561210		77 70	123583X	Key Square 2 0 x 1845/ 1865
14 15	10040400 74490544	Washer Lock Hvy Helical 1/4 Bolt Hex 5/16-18 Gr. 5	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga
16	STD541431	Nut Lock Hx w/Ins 5/16-18 Unc	81 82	178139 165711	Shaft Asm Cross
19	STD541437	Nut Lock 3/8-16 Unc	83	19171216	Spring Torsion T/a Washer 17/32 x 3/4 x 16 Ga
21	130564	Knob	85	150360	Nut Lock Center 1/4 - 28 FNTHD
22	178141	Rod Brake	89		Console Shift STLT
24	STD541237		90	124346X	Nut Self-thd Wsh-hd 1/4 Zinc
25	106888X	Spring Rod Brake 2 00 Zinc	95	178134	Disconnect Asm Rod Bypas LTH
27	STD561210	Pin Cotter 1/8 x 3/4 Cad	96	4497H	Retainer Spring
28	175765	Rod Brake Parking LT/YT	116	72140608	Bolt Rdhd Sq Neck 3/8-16 x 1
29	71673	Cap Brake Parking	120	73900600	Nut Lock Flg 3/8-16 Unc
30	169592	Bracket Mtg Transaxle	150	175456	Bushing Retainer
32	STD523107		151	19133210	Washer 13/32 x 2 x 10
34	175578	Shaft Asm Pedal Foot	156	166002	Washer Srrted 5/16 ID x 1 x .125
35	120183X	Bearing Nylon Blk 629 Id	158	165589	Bracket Shift Mount
36	STD551062	Washer 21/32 x 1 x 16 Ga	159	183900	Hub Shift
37	STD571810	Pin Roll 3/16 x 1"	161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
38	179114	Pulley Idler Flat	162	73680400	Nut Crownlock 1/4-20 Unc
39	74760648	Bolt Fin Hex 3/8-16 Unc x 3	163	74780416	Bolt Hex Fin 1/4-20 Unc x 1 Gr. 5
41	175556	Keeper Belt Idler	164	19091210	Washer 9/32 x 3/4 x 10 Ga.
47	127783	Pulley Idler V Groove Plastic	165	165623	Bracket Pivot Lever
48	154407	Bellcrank Asm	166	166880	Screw 5/16-18 x 5/8
49	123205X	Retainer Belt Style Spring	168	165492	Bolt Shoulder 5/16-18 x .561
50 51	72110612	Bolt Hex Hd 3/8-16 Unc x 1-1/2	169	165580	Plate Fastening LT
51 52	STD541437 STD541431		197	169613	Nyliner Snap-In
53	105710X	Nut Crownlock 5/16-18 Unc Link Clutch	198 202	169593 72110614	Washer Nyliner Bolt Carriage 3/8-16 x 1-3/4 Gr. 5
55 55	105710X 105709X	Spring Return Clutch 6 75	212	145212	Nut Hexflange Lock
56	17060620	Screw 3/8-16 x 1-1/4	245	178122	Strap Torque LH LTH2000
57	178138	V-Belt Ground Drive	246	178122	Strap Torque RH LTH2000
59	169691	Keeper Belt Span Ctr	247	181462	Link Shift Transaxle LTH2000
61	17120614	Screw 3/8-16 x .875	250	17000612	Screw 3/8-16 x 3/4
62	8883R	Cover Pedal Blk Round	251	17060512	Screw 5/16-18 x 1
63	175410	Engine Pulley LT/YT	252	19131616	Washer 13/32 x 1 x 16 Ga.
64	173937	Bolt Hex			77.00.00 10/0 <u>2</u> % 1 % 10 0.00
65	STD551143		NOT	F. All compone	ent dimensions given in U.S. inches
66	154778	Keeper Belt Engine Foolproof	NOI	1 inch = 25.	
70	134683	Guide Belt Mower Drive RH		511 – 20.	

TRACTOR - - MODEL NUMBER 944.604881

STEERING ASSEMBLY



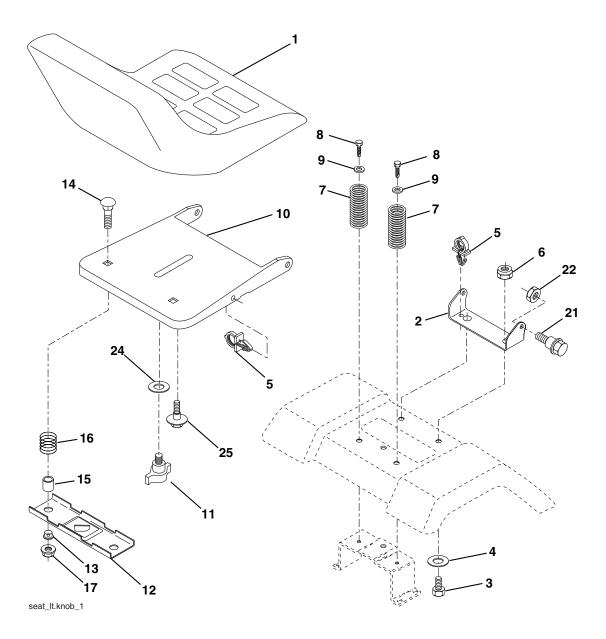
TRACTOR - - MODEL NUMBER 944.604881

STEERING ASSEMBLY

	PART	
NO.	_	DESCRIPTION
1	139768	Wheel Steering
2	175131	Axle Asm
3	169840	Spindle Asm LH
4	169839	Spindle Asm RH
5 6	6266H 121748X	Bearing Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga
7	19272016	Washer 27/32 x 1-1/4 x 16 Ga.
8	12000029	Ring Klip #t5304-75
9	3366R	Bearing
10	175121	Link Drag Extended Stamp
11	STD551137	Washer Lock Hvy Hlcl Spr 3/8
12	73940800	Nut Hex Jam Toplock 1/2-20 UNF
13	136518	Bearing Axle STLT/GT
15	145212	Nut Hex Flange Lock
17	180641	Shaft Asm Strg
26	126847X	Bushing Link Drag
28	19131416	Washer 13/32 x 7/8 x 16 Ga.
29 30	17000612 76020412	Screw Thdrol 3/8-16 x 3/4 Pin Cotter 1/8 x 3/4
32	130465	Rod Tie Wire Form 19 75 Mech
36	155099	Bushing Strg
37	152927	Screw
38	139769	Insert Cap Strg Wh
39	19183812	Washer 9/16 x 2 3/8 x 12 Ga.
40	STD541537	Lock nut
41	186737	Adaptor Wheel Strg
42	145054X428	Boot Steering Shaft
43	121749X	Washer 25/32 x 1 1/4 x 16 Ga
44 46	180640	Extension Steering Shaft
46 47	121232X 183226	Cap Spindle Fiting Grease
51	73540400	Nut Crownlock 1/4-28
54	71130420	Bolt Hex 1/4-28 UNF x 1-1/4 Gr.8
65	160367	Spacer Axle
67	72110618	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	Fastner
88 91	175118	Shoulder Bolt 7/16-20
91	175553	Clip Steering

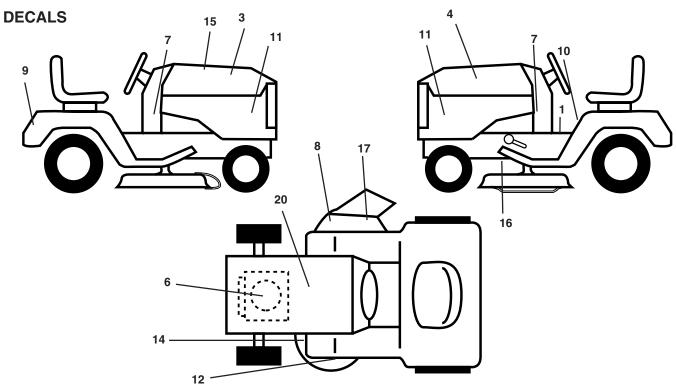
TRACTOR - - MODEL NUMBER 944.604881

SEAT ASSEMBLY



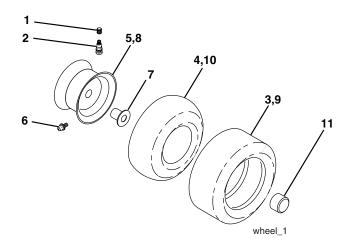
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11	140122 140551 71110616 19131610 145006 STD541437 124181X 17000616 19131614 182493 166369 121246X	Seat Bracket Pivot Seat 8 720 Bolt Fin Hex 3/8-16 Unc x 1 Washer 13/32 x 1 x 10 Ga Clip Push-In Nut Hex w/Ins. 3/8-16 Unc Spring Seat Cprsn 2 250 Blk Zi Screw 3/8-16 x 1-1/2 Washer 13/32 x 1 x 14 Ga. Pan Seat Knob Seaat 1/2-13 Unc Blk Bracket Mounting Switch	13 14 15 16 17 21 22 24 25 NOTI	121248X 72050412 134300 121250X 123976X 171852 STD541431 19171912 127018X E: All compon 1 inch = 25	Bushing Snap Blk Nyl 50 Id Bolt Rdhd Sqnk 1/4-20 x 1-1/2 Spacer Split 28 x 96 Yel Zinc Spring Cprsn 1 27 Blk Pnt Nut Lock 1/4 Lge Flg Gr 5 Zinc Bolt Shoulder 5/16-18 Unc Nut Hex Lock W/Ins 5/16-18 Washer 17/32 x 1-3/16 x 12 Ga. Bolt Shoulder 5/16-18 x .62 ent dimensions given in U.S. inches .4 mm

TRACTOR - - MODEL NUMBER 944.604881



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	157032	Decal Fend STLT Oper	15	187624	Decal Replacement Parts
3	184728	Decal Hood RH	16	146046	Decal V-Belt Drive Sch
4	184729	Decal Hood LH	17	179128	Decal Deck "B" "42"
6	181882	Decal HP Engine	20	149517	Decal Bat Dan/Psn
7	183827	Decal Dash Pnl		178392	Decal Chassis Disconnect
8	170563	Decal Warning		184310X428	Pad Footrest LH STLT
9	184899	Decal Craftsman		184311X428	Pad Footrest RH STLT
10	157140	Decal Fender Danger Eng/Fr		138311	Decal Handle Lft Height Adjust
11	184730	Decal Hood Side Panel		188216	Manual Owner's (English)
12	172331	Decal Deck		188217	Manual Owner's (French)
14	160396	Decal V-Belt Schematic			

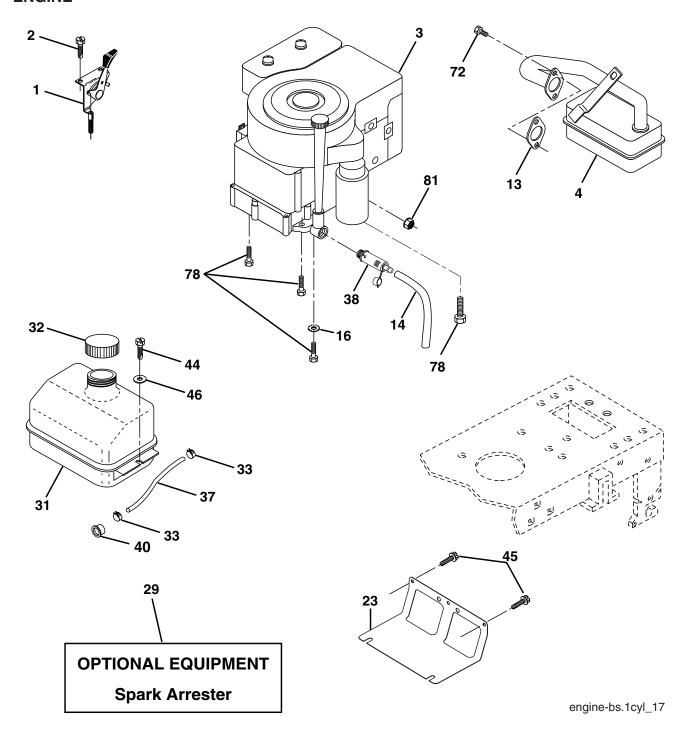
WHEELS & TIRES



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

TRACTOR - - MODEL NUMBER 944.604881

ENGINE



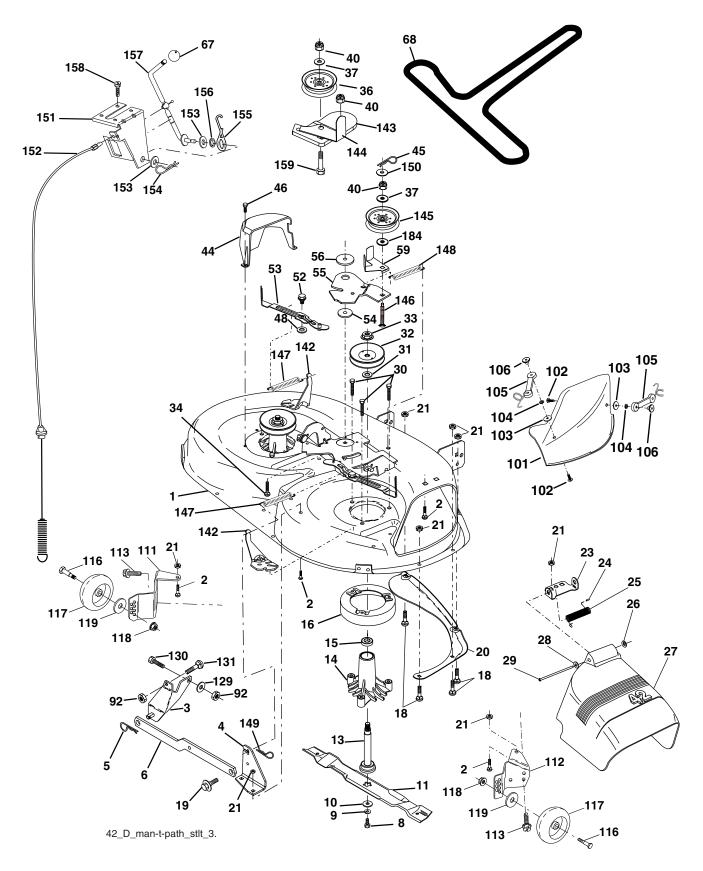
TRACTOR - - MODEL NUMBER 944.604881

ENGINE

KEY NO.		DESCRIPTION
1	170545	Control Throttle Paddle
2	17720408	Screw Hex Thd Cut 1/4-20 x 1/2
3		Engine (See Breakdown) B&S Model 31H777-0202-E1
4	137352	Muffler Exhaust
13	165291	Gasket
14	148456	Tube Drain Oil Easy
16	STD551237	
23	169837	Shield BRN/DBR Guard
29	137180	Arrestor Spark
31	184900	Tank Fuel
32	140527	Cap Fuel
33	123487X	Clamp Hose Blk
37	137040	Line Fuel
38	181654	Plug Drain Oil Easy
40		Bushing
44	17670412	Screw 1/4-20 x 3/4
45		Screw Hex Wsh Thdrol 3/8-16 x 3/4
46		Washer 9/32 x 7/8 x 16 Ga.
72	183906	Screw 5/16-18 x 1
	17060620	Screw 3/8-16 x 1-1/4 SMGML Tap/R
81	73510400	Nut Keps Hex 1/4-20 Unc

TRACTOR - - MODEL NUMBER 944.604881

MOWER DECK



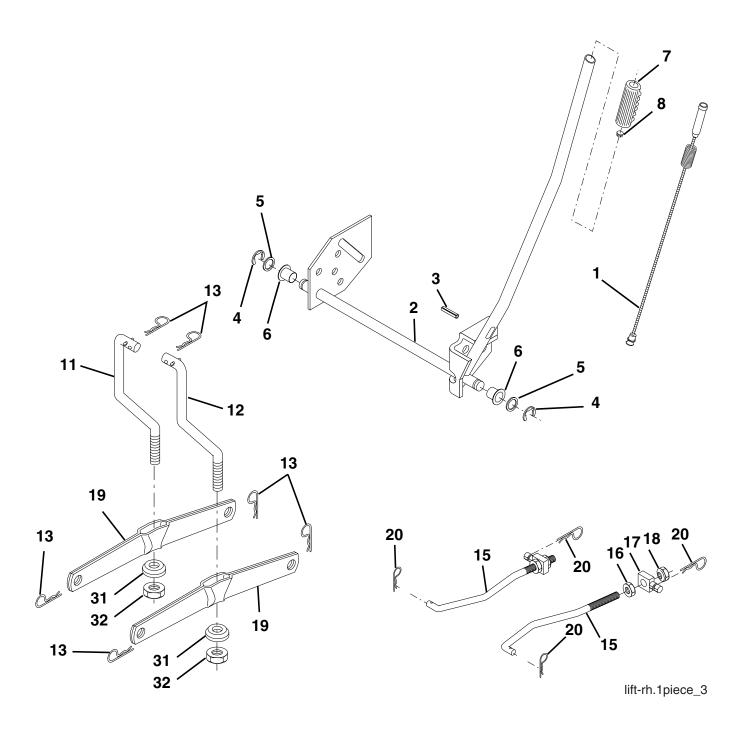
TRACTOR - - MODEL NUMBER 944.604881

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165892	Mower Deck Assembly, 42"	67	149846	Knob Custom
2	STD533107	Bolt	68	144959	V-Belt
3	138017	Bracket Assembly, Sway Bar,	92	STD541437	Nut
		Front	101	136420	Mulcher Cover
4	165460	Bracket Sway Bar 38/42" Deck	102	71081010	Screw
5	STD624008	Retainer Spring	103	19061216	Washer #10
6 8	178024 850857	Bar Sway Deck Bolt, Hex 3/8-24 x 1.25 Gr. 8	104 105	160793	Washer, Lock
9	STD551137	Washer, Lock	106	2029J	Latch Assembly, Bagger Nut, Weld
10	140296	Washer, Hardened	111	179292	Bracket, Gauge, Wheel L.H.
. 0	0200	(The following blades are available)	112	179293	Bracket, Gauge, Wheel R.H.
11	134149	Blade, 42" Mulching Std	113	17060510	Screw 3/8-16 x .625
		(For mulching mowers only)	114	STD541431	Nut, Hex, Keps 5/16-18 Unc
	139775	Blade, 42" Mulching Premium	116	4898H	Bolt, Shoulder
		(For better wear when mulching)	117	165746	Wheel, Gauge
	138971	Blade, 42" Hi-Lift	118	73930600	Nut, Centerlock 3/8-16
40	107045	(For bagging or discharging)	119	STD551037	
13	137645	Shaft Assembly, Mandrel,	129	19131312 CTD502710	Washer 13/32 x 13/16 x 12 Ga.
14	128774	Vented Housing, Mandrel, Vented	130 131	STD523710 STD533710	
15	110485X	Bearing, Ball, Mandrel	142	165890	Arm Spring Brake Mower
16	174493	Stripper, Vented Mower Deck	143	157109	Bracket Arm Idler 42"
18	72140505	Bolt, Carriage 5/16-18 x 5/8	144	158634	Keeper Belt 42" Clutch Cable
19	132827	Bolt, Shoulder	145	165888	Pulley Idler Flat
20	159770	Baffle, Vortex	146	171977	Bolt Čarriage Idler
21	STD541431	Nut Crownlock 5/16-18 Unc	147	131335	Spring Extension
23	177563	Bracket, Deflector	148	169022	Spring Return Idler
24	105304X	Cap, Sleeve	149	165898	Retainer Spring Yellow Zinc
25 26	123713X 110452X	Spring, Torsion, Deflector Nut, Push	150 151	19091216 169670	Washer 9/32 x 3/4 x 16 Ga. Bracket Clutch
27		Shield, Deflector	152	169676	Cable Clutch 42 In
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	153	169674	Washer Flat 3/8" Type B
29	131491	Rod, Hinge	154	169675	Spring Retainer
30	173984	Screw Thdrol Washer Head	155	169671	Spring Retention Lever
31	129963	Washer, Spacer	156	169672	Spacer
32	153535	Pulley, Mandrel	157	169669	Rod Clutch
33	178342	Nut, Toplock, Flanged	158	17720408	Screw Hex Thd Cut 1/4-20 x 5/8
34	STD533717	Bolt	159	72140614	Bolt Rdhd Sqn 3/8-16 Unc x 1-3/4
36	131494 STD551027	Pulley, Idler, Flat	184	19131410	Washer 13/32 x 7/8 x 10 Ga.
37 40	STD551037 STD541437	Washer 13/32 x 13/16 x 16 Ga. Nut Crownlock 3/8-16 Unc		130794	Mandrel Assembly (Includes Housing, Shaft and Shaft Hardware Only
44	140088	Guard, Mandrel, L.H.			- Pulley Not Included)
45	STD624003	Retainer		169583	Replacement Mower Complete
46	137729	Screw, Thd. Roll 1/4-20 x 5/8		100000	(Std. Deck - order separately
48	133944	Washer, Hardened			mulcher cover and gauge wheel
52	139888	Bolt, Shoulder 5/16-18 Unc			components key nos. 101-106 and
53	184907	Arm Assembly, Pad, Brake			116-119)
54	178515	Washer, Hardened			
55	155046	Arm, Idler	NOT		ent dimensions given in U.S. inches
56 59	165723	Spacer, Retainer Guard, TUV Idler		1 inch = 25	.4 mm
59	141043	Guaru, TOV IUIEI			

TRACTOR - - MODEL NUMBER 944.604881

MOWER LIFT

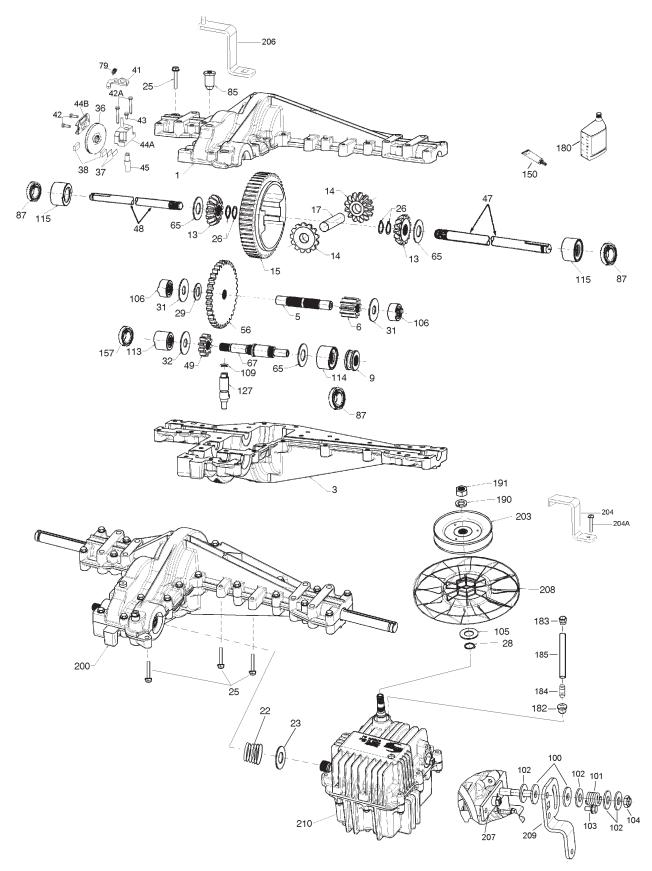


TRACTOR - - MODEL NUMBER 944.604881

MOWER LIFT

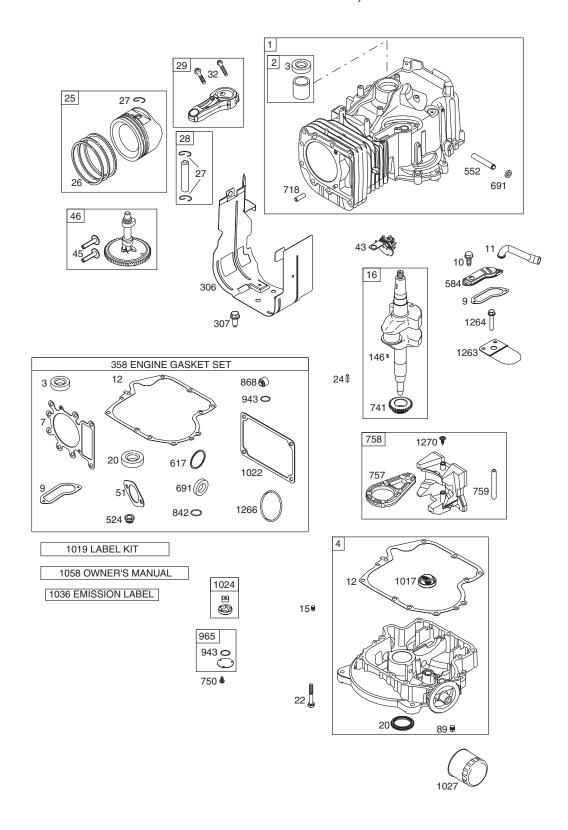
KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 11 12 13 15	159460 159471 105767X STD581062 19211621 120183X 125631X 122365X 139865 139866 STD624008 173288 73350800 175689	Wire Asm Inner W/Plunge5r Shaft Asm Lift Pin Groove E Ring #5133-62 Washer 29/32 x 1-1/4 x 21 Ga. Bearing Nylon Blk .629 ID Grip Handle Fluted Button, Plunger Link Lift Lh Fixed Length Link Lift Rh Fixed Length
19 20 31 32	139868 163552 169865 73540600	Arm Suspension Rear Spring Retainer Bearing Pvt. Lift Nut Lock 3/8-24

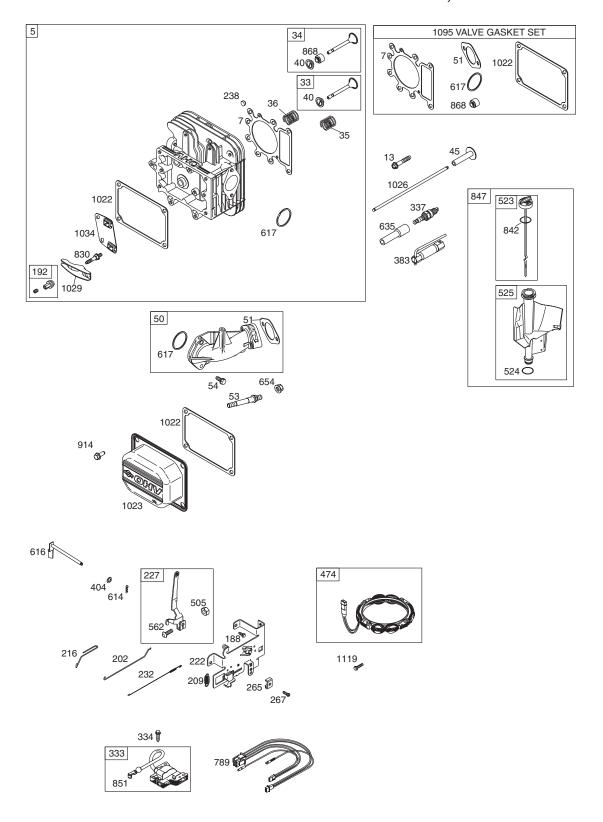
TRACTOR - - MODEL NUMBER 944.604881 PEERLESS GEAR TRANSAXLE - MODEL NUMBER LTH2000

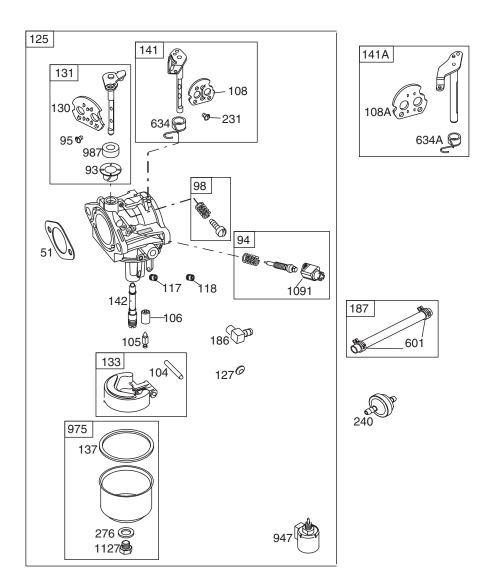


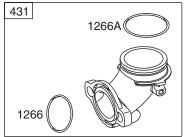
TRACTOR - - MODEL NUMBER 944.604881 PEERLESS GEAR TRANSAXLE - MODEL NUMBER LTH2000

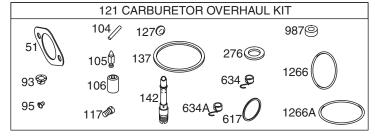
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 3	772151 770135	Cover L.H. Case	70 79	786196 792201	Spacer .625 .765 Spring
5	776355	Counter Shaft	85	792154	Oil Fill Plug
6	778263	Spur Gear 11T	87	788088A	Oil Seal 3/4"
9	786197	Neutral Sleeve (.572)	99	792141	Washer .377ID .058W
13	778368	Bevel Gear (Incl. 14) (13 Teeth)	100	792200	Snubber Washer
14	778368	Bevel Gear (Incl. 13) (13 Teeth)	101	792199	Snubber Spring .47ID
15	778373	Ring Gear (54 Teeth)	102	792184	Washer .437ID .078W
17	786139	Drive Pin	103	792193	Screw, 1/4-28 x .490
22	792194	Spring	104	792198	Nut, 3/8-24
23	792195	Washer .750 ID	105	780096	Washer .625 ID .057W
25	792073A	Screw 1/4-20 x 1-1/4"	106	786162	Sleeve Assembly
26	792125	Retaining Ring	107	792046	Screw, 1/4-20 x 1"
28	792035	Retaining Ring	109	788104	"O" Ring
29	780065	Washer .627 ID .091W	113	786199	Sleeve Ass'y (Incl. 157)
31	780189	Washer .563 ID .062W	114	786200	Sleeve Ass'y (Incl. 87)
36	790071	Brake Disk	115	786198	Sleeve Assembly (Incl. 87)
37	790007	Brake Pad Plate	127	784384	Shift Lever Ass'y (Incl. 109)
38	799021	Brake Pad	150	788093A	Liquid Gasket RTV Silicon
40	792204	Roll Pin .25	157	788102	Oil Seal 9/16"ID
41	790102	Brake Lever	180	730229	Boil Spec. (80W90)
42 42A	792202 792203	Screw, 1/4-20 x 3/4	182 183	788103 792118	Grommet Relief Valve
42A 43	792203 792171	Screw, 1/4-20 x 1-3/4 Screw, 10-24 x .500	184	792116	Hose Barb
44A	790100	Inside Brake (Mach)	185	798050	Tubing 1/2 x 5
44B	790099	Outside Brake (Casting)	190	792150	Washer
45	790101	Actuator Rod	191	792151	Nut 7/16-20
47	774869	Axle 16.812	200	794787	Differential (Gear Reduction Drive)
48	774688	Axle 11.625	203	798044	Pulley & Hub Ass'y
49	778378	Spur Gear 18T	206	798055	Disconnect Lever
56	778379	Spur Gear 81T	207	798053	Mounting Plate
65	780195	Washer .750ID .062W	208	798040	Fan
67	776440	Brakeshaft	209	798054	Control Lever
			210	794788	Hydro Module LH Fender Control

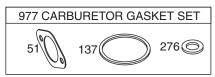


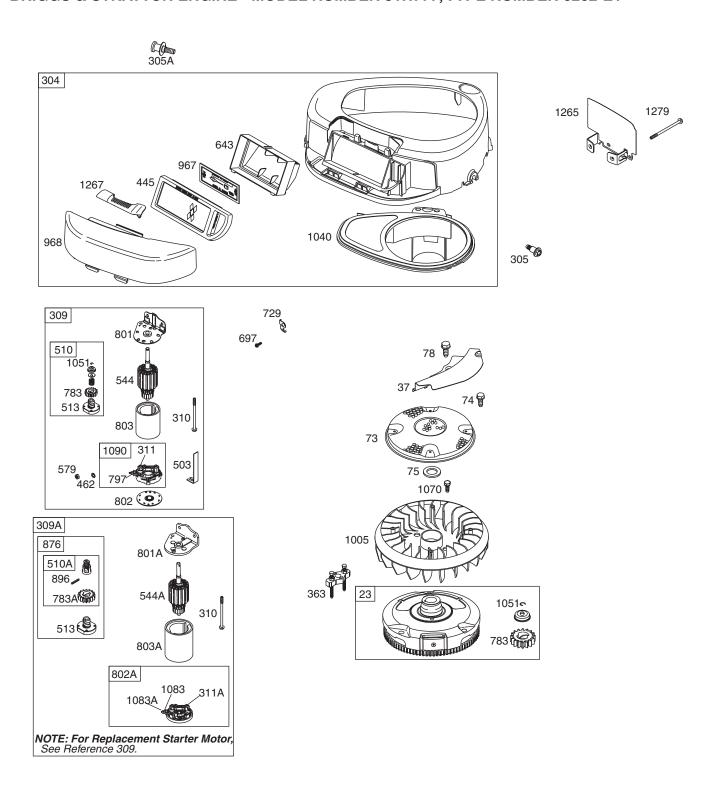










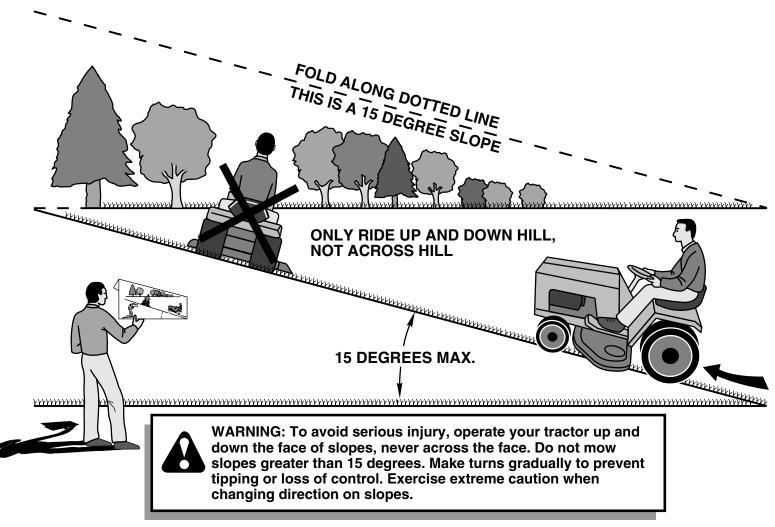


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	ı	DESCRIPTION
1	697174	Cylinder Assembly	108	690464		Valve-Choke (Manual Choke)
2	399265	Kit-Bushing/Seal (Magneto Side)	108A	692344		Valve-Choke (Choke A Matic)
3	391086	Seal-Oil (Magneto Side)	117	694352		Jet-Main (Standard)
4	697188	Sump-Engine	118	692411		Jet-Main (High Altitude)
5 7	690188 692410	Head-Cylinder	121	697241		Kit-Carburetor Overhaul
9	697109	+ Gasket-Cylinder HeadGasket-Breather	125 127	697190		Carburetor
10	697157	Screw (Breather Assembly)	130	695005 691750		Plug-Welch Valve-Throttle
11	697113	Tube-Breather	131	494379		Kit-Throttle Shaft
12	697110	Gasket-Crankcase	133	494381		Float-Carburetor
13	690360	Screw (Cylinder Head)	137	281165		Gasket-Float Bowl
15	690946	Plug-Oil Drain	141	495097		Kit-Choke Shaft (Manual Choke)
16	697127	Crankshaft	141A	495931		Kit-Choke Shaft (Choke A Matic)
20	690947	 Seal-Oil (PTO Side) 	142	697140	ØI	Nozzle-Carburetor
22	692125	Screw (Crankcase Cover/Sump)	146	691639		Key-Timing
23	693557	Flywheel	186	692317		Connector-Hose
24	222698	Key-Flywheel	187	691050		Line-Fuel (Cut to Required Length)
25	697552	Piston Assembly (Standard)	188	691693		Screw (Control Bracket)
	697555 697556	Piston Assembly (.010" Oversize) Piston Assembly (.020" Oversize)	192	691986		Adjuster-Rocker Arm
	697557	Piston Assembly (.030" Oversize)	202 209	691841 692208		Link-Mechanical Governor
26	697553	Ring Set (Standard)	216	691840		Spring-Governor Link-Choke
	697558	Ring Set (.010" Oversize)	222	694042		Bracket-Control
	697559	Ring Set (.020" Oversize)	227	691374		Lever-Governor Control
	697560	Ring Set (.030" Oversize)	231	691636		Screw (Choke Valve)
27	697100	Lock-Piston Pin	232	691842		Spring-Governor
28	697099	Pin-Piston	238	691843		Cap-Valve
29	697126	Rod-Connecting (Standard)	240	298090		Filter-Fuel
	697263	Rod-Connecting (.020" Undersize)	265	691024		Clamp-Casing
32	692852	Screw (Connecting Rod)	267	695134		Screw (Casing Clamp)
33	495856	Valve-Exhaust	276	692255		Washer-Sealing
34 35	495857 691279	Valve-Intake Spring-Valve (Intake)	304	697663		Housing-Blower
36	691279	Spring-Valve (Intake) Spring-Valve (Exhaust)	305 305A	697102 697103		Screw (Blower Housing) Screw (Blower Housing)
37	697108	Guard-Flywheel	305A	697103		Shield-Cylinder
40	691752	Retainer-Valve	307	691003		Screw (Cylinder Shield)
43	691968	Slinger-Governor/Oil	309	693551		Motor-Starter
45	690564	Tappet-Valve	309A			Motor-Starter (For Replacement Starter
46	693450	Camshaft				Motor, See Reference 309)
48		Short Block (31H777-0202-E2 Replace-	310	690323	- 1	Bolt (Starter Motor)
		ment Engine-art and Short Block not	311	497608		Brush Set
	000400	available at this time)	311A	395538		Brush Set
50 51	690193	Manifold-Intake ∅‡+ Gasket-Intake	333	495859		Armature-Magneto
53	690227	Stud (Carburetor)	334	691061		Screw (Magneto Armature)
54	691148	Screw (Intake Manifold)	337 358	691043 697191		Plug-Spark Gasket Set-Engine
73	697133	Screen-Rotating	363	19203		Flywheel Puller
74	94986	Screw (Rotating Screen)		Settings:		Low Speed: 1900-2100
75	690582	Washer (Flywheel)	111 141 (Journgo.		High Speed: 3000-3200
78	691003	Screw (Flywheel Guard)				gp
89	690283	Plug-Oil	•	Included	in En	gine Gasket Set, Key. No. 358
93	690602	Ø Bushing-Throttle Shaft	Ø	Included	in Ca	rburetor Overhaul Kit, Key. No. 121
94	498030	Kit-Idle Mixture	‡			rburetor Gasket Set, Key. No. 977
95	691636	Screw (Throttle Valve)	+	Included	in Val	lve Gasket Set, Key. No. 1095
98	495800	Kit-Idle Speed				
104	690525	Ø Pin-Float Hinge Ø Valve-Float Needle			onent	dimensions given in U.S. inches 1 inch
105 106	231855 690577	Ø Seat-Inlet	= 25.4	HIIII		
100	000011	D Cour mior				

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
		Wrench-Spark Plug Washer (Governor Crank) Elbow-Intake Filter-Air Cleaner Cartridge Washer (Starter Cable) Alternator Strap-Starter Nut (Governor Control Lever) Drive-Starter Drive-Starter Clutch-Drive Dipstick Seal-Dipstick Tube Tube-Dipstick Starter-Armature Starter-Armature Bushing-Governor Crank Bolt (Governor Control Lever) Nut (Starter Cable) Cover-Breather Passage Clamp-Hose Pin-Cotter Crank-Governor Ø Seal-O Ring (Intake Manifold) Ø Spring/Seal Assembly (Manual Choke) Ø Spring/Seal Assembly (Choke A Matic) Boot-Spark Plug Retainer-Air Filter Nut (Carburetor) Seal-Governor Shaft Screw (Drive Cap) Pin-Locating Clip-Wire Gear-Timing Screw (Oil Pump Cover) Link-Counterweight Counterweight Pin-Counterweight Gear-Pinion Gear-Pinion Harness-Wiring Nut (Brush Retainer) Cap-Drive Cap-Drive Cap-End Cap-End	NO. 868 876 896 914 943 947 965 967 968 975 1005 1017 1019 1022 1023 1024 1026 1027 1029 1034 1036 1040 1051 1058 1070 1083 1083A 1090 1091 1127 1263 1264 1265 1266 1266A 1267 1270 1279		PESCRIPTION + Seal-Valve Kit-Pinion Spring Pin-Drive Retainer Screw (Rocker Cover) • Seal-O Ring (Oil Pump Cover) Solenoid-Fuel Cover-Oil Pump Filter-Pre Cleaner Cover-Air Cleaner Bowl-Float Gasket Set-Carburetor Ø Seal-Throttle Shaft Fan-Flywheel Screen-Oil Pump Kit-Label + Gasket-Rocker Cover Cover-Rocker Arm Pump-Oil Rod-Push (Intake) Rod-Push (Exhaust) Filter-Oil Arm-Rocker Guide-Push Rod Label-Emission Plate-Trim Ring-Retaining Owner's Manual Screw (Flywheel Fan) Nut (Starter Terminal) Nut (Starter Terminal) Retainer-Brush Cap-Limiter Gasket Set-Valve Screw (Alternator) Screw (Float Bowl) Reed-Breather Screw (Breather Reed) Support-Blower Housing ●Ø Seal-O Ring (Intake Elbow) Ø Seal-O Ring (Intake Elbow) Latch-Blower Housing Plug-AVS Counterweight Screw (Blower Housing Support) Low Speed: 1900-2100 High Speed: 3000-3200
802A 803 803A 830 842 847 851	693757 398159 691095 691031 697611 692424	Housing-Starter Housing-Starter Stud (Rocker Arm) • Seal-O Ring (Dipstick Tube) Dipstick/Tube Assembly Terminal-Spark Plug		Included i Included i Included i : All compo	n Engine Gasket Set, Key. No. 358 n Carburetor Overhaul Kit, Key. No. 121 n Carburetor Gasket Set, Key. No. 977 n Valve Gasket Set, Key. No. 1095
			= 25.4	rnm	

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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