

MODEL NO. 944.607550

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



CRAFTSMAN®

16.5 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

DANGER: 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.



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.



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.

I. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- 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 blades.
- Be sure the area is clear of bystanders before operating. 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.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.
- Operate machine 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.
- Always wear eye protection when operating machine.

- 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.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- 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 tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

- Mow up and down slopes, not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Do not mow on wet grass. Tires may lose traction. Always keep the machine in gear when going down slopes. Do not shift to neutral and coast downhill.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.
- Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine. Do no use on steep slopes.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not now near drop-offs, ditches, or embankments. The machine could suddenly roll over if a wheel is over the edge or if the edge caves in.

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 in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

SAFETY RULES





Safe Operation Practices for Ride-On Mowers

IV. TOWING

- Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
- Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
- Never allow children or others in or on towed equipment.
- On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
- Travel slowly and allow extra distance to stop.

V. SERVICE

SAFE HANDLING OF GASOLINE

To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved gasoline container.
- Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never fuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliances.
- Never fill containers inside a vehicle or on a truck or trailer bed with plastic liner. Always place containers on the ground away from your vehicle when filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.

GENERAL SERVICE

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working 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 and remove any fuelsoaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.

- Never make any adjustments or repairs with the engine running.
- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction labels, as necessary.



- Be sure the area is clear of bystanders before operating. 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.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Be alert and turn machine off if a child enters the area.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Avoid starting, stopping, or turning on a slope. If the 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.

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PRODUCT SPECIFICATIONS

Gasolina Capacity and type:	1.25 Gallons Unleaded Regular
Oil Type (API-SG-SL):	SAE 30 (above 32ºF) SAE 5W-30 (below 32ºF)
Your tractor was shipped fr SAE 10W-30 motor oil.	SYNTHETIC below 0°F) om the factory with non-synthetic
Oil Capacity:	48 oz.
Spark Plug:	Champion RC12YC (Gap: 030")
Ground Speed (MPH):	Forward: 5.2 Reverse: 2.7
Charging System:	5 Amps Battery 3 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:

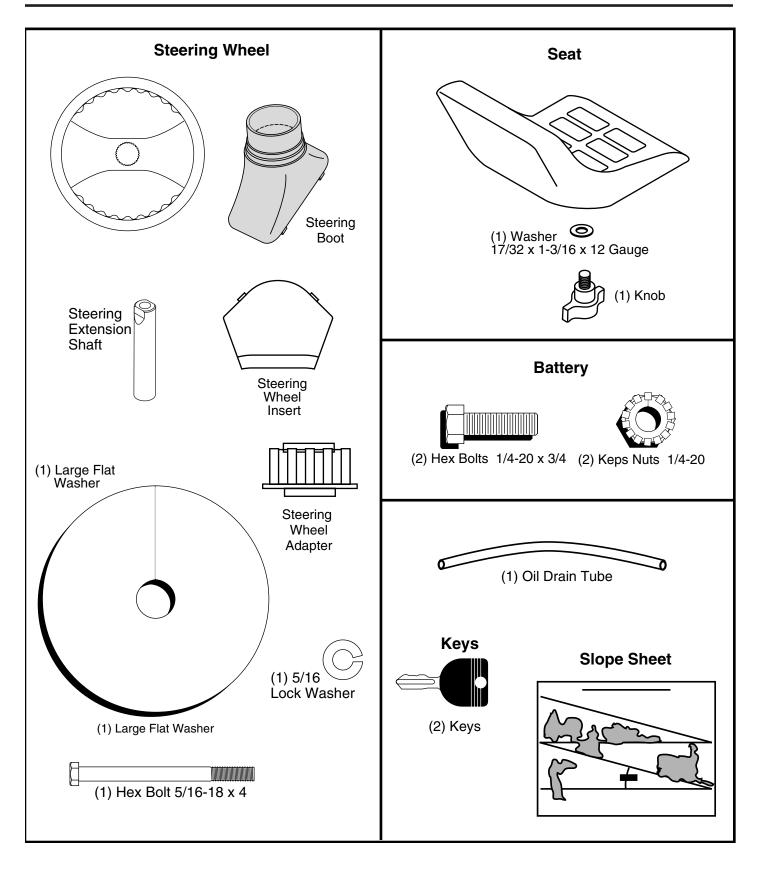
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse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

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
- (1) 1/2" wrench
- Pliers 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 dashed 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.
- 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, 5/16 lock washer, 5/16 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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

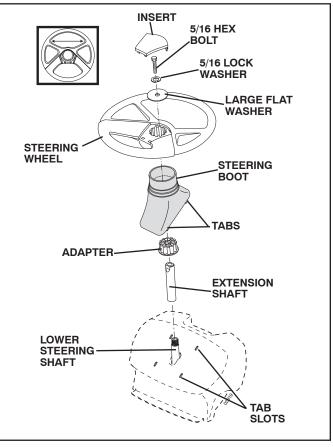


FIG. 1

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

ASSEMBLY

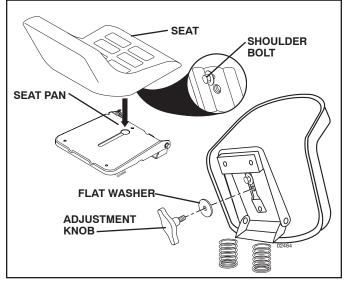


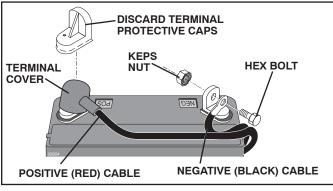
FIG. 2

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.



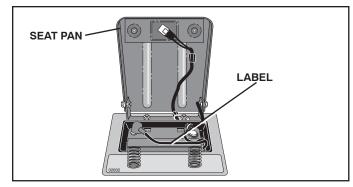


FIG. 4

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

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

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 "transmission disengaged position" (See "TO TRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.
- Remove banding holding the deflector shield up against tractor.

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

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

- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position (see "TO TRANSPORT" in Operation section of this manual).
- Sit on seat in operating position, depress 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.

FIG. 3

ASSEMBLY

- Remove key from bag and start the engine (see "TO START ENGINE" in the Operation section of this manual). After engine has started, move throttle control to idle (slow) 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 "STOP" position.

Continue with the instructions that follow.

INSTALL MULCHER PLATE (See Fig. 5)

(If previously removed)

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



CAUTION: Do not remove deflector shield from mower.

TO CONVERT TO BAGGING OR DISCHARGING

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

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

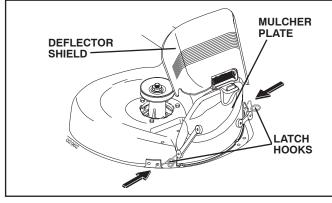


FIG. 5

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 on tires.

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

√CHECKLIST

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

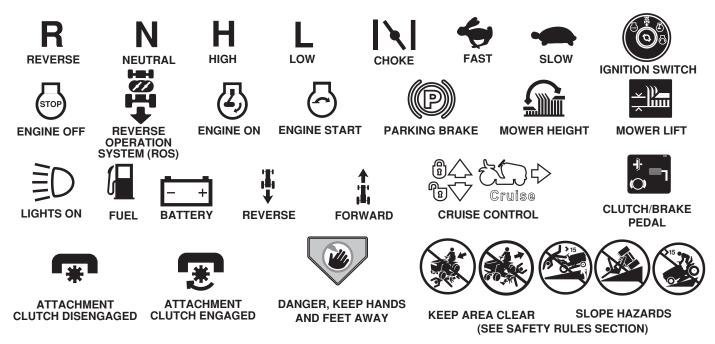
PLEASE REVIEW THE FOLLOWING CHECKLIST:

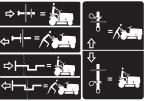
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged.
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- 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 "transmission engaged" position (see "TO TRANS-PORT" in the Operation section of this manual).

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.
- ✓ Be sure Operator Presence System and Reverse Operation System (ROS) are working properly (See the Operation and Maintenance sections in this manual).
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

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





FREE WHEEL (Automatic Models only)



Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety 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.

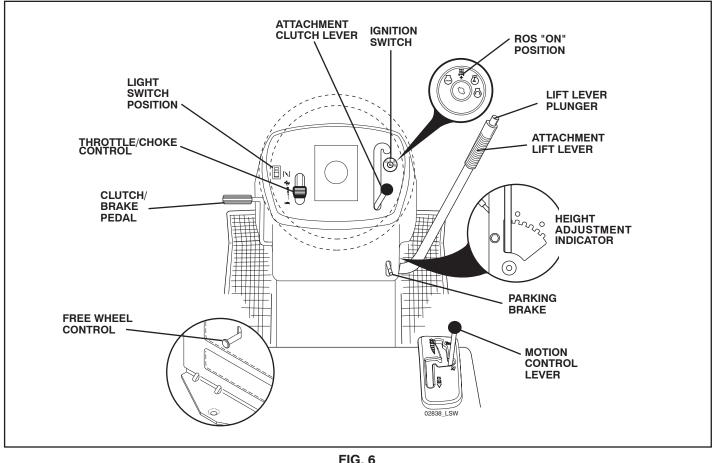


FIG. 6

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

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

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

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

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

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

LIGHT SWITCH - Turns the headlights on and off.

IGNITION SWITCH - Used for starting and stopping the engine.

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

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

REVERSE OPERATION SYSTEM (ROS) "ON" POSI-TION - Allows operation of mower deck or other powered attachment while in reverse.

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



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.

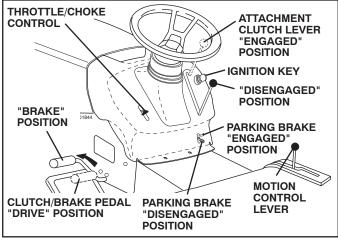


FIG. 7

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.

ENGINE -

• Move throttle control between half and full speed (fast) position.

NOTE: Failure to move throttle control between half and full speed (fast) position, before stopping may cause engine to "backfire".

- Turn ignition key to "STOP" 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 "STOP" 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 speed (fast).

- Operating engine at less than full speed (fast) reduces the engine's operating efficiency.
- Full speed (fast) offers the best 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.

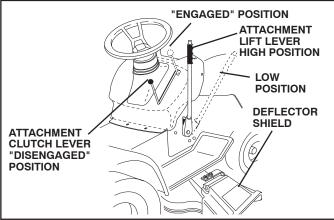
TO OPERATE MOWER (See Fig. 8)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills.

- 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.





REVERSE OPERATION SYSTEM (ROS)

Your tractor is equipped with a Reverse Operation System (ROS). Any attempt by the operator to travel in the reverse direction with the attachment clutch engaged will shut off the engine unless ignition key is placed in the ROS "ON" position.

AWARNING: Backing up with the attachment clutch engaged while mowing is strongly discouraged. Turning the ROS "ON", to allow reverse operation with the attachment clutch engaged, should only be done when the operator decides it is necessary to reposition the machine with the attachment engaged. **Do not mow in reverse unless absolutely necessary**.

USING THE REVERSE OPERATION SYSTEM -

- Move motion control lever to neutral (N) position.
- With engine running, turn ignition key counterclockwise to ROS "ON" position.
- · Look down and behind before backing.
- Slowly move motion control lever to reverse (R) position to start movement.
- When use of the ROS is no longer needed, turn the ignition key clockwise to engine "ON" position.

ROS "ON" POSITION

ENGINE "ON" POSITION (NORMAL OPERATING)





TO OPERATE ON HILLS



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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If stopping is absolutely necessary, push 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 9)

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

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

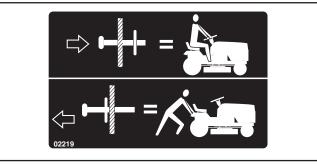


FIG. 9

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. 7)

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

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

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

AUTOMATIC TRANSMISSION WARM UP

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
 - Be sure the tractor is on level ground.
 - Place the motion control lever in neutral. 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 also be used during the engine warm-up period after the transmission has been warmed up.

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

PURGE TRANSMISSION



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

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

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

- Place tractor safely on a level surface that is clear and open with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).

 Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.



CAUTION: At any time, during step 4, there may be movement of the drive wheels.

- 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.
- Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.
- Engage transmission by placing freewheel control in engaged 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 transmission is now purged and now ready for normal operation.

MOWING TIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 10).

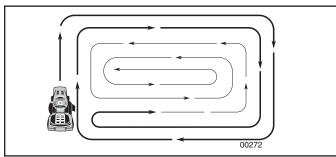


FIG. 10

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

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, yet the newly cut area will not be exposed to direct sunlight.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 11). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

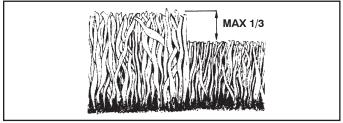


FIG. 11

- 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 (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.

	MAINTENANCE SCHEDULE	BEFORE EACH USE	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE
Г	Check Brake Operation	~	~					
Ιт	Check Tire Pressure	~						
ľĸ	Check Operator Presence & ROS Systems	~						
	Check for Loose Fasteners					~		
I C	Check/Replace Mower Blades			3				
Т	Lubrication Chart							
0	Check Battery Level			4				
IR	Clean Battery and Terminals			V				
	Check Transaxle Cooling							
	Check Mower Levelness				~			
L	Check V-Belts					/		
Γ	Check Engine Oil Level	~	~					
	Change Engine Oil (with oil filter)				1,2			
_ا	Change Engine Oil (without oil filter)			1,2				
E N	Clean Air Filter			1 2				
G	Clean Air Screen							
١ĭ	Inspect Muffler/Spark Arrester							
N	Replace Oil Filter (If equipped)					1,2		
E	Clean Engine Cooling Fins					2		
	Replace Spark Plug					~		
	Replace Air Filter Paper Cartridge					2		
	Replace Fuel Filter							

1 - Change more often when operating under a heavy load or in high ambient temperatures.

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

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.

At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

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

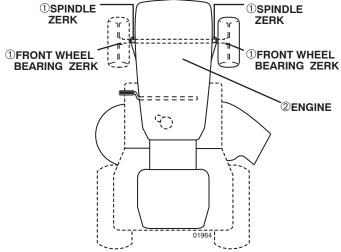
BEFORE EACH USE

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

3 - Replace blades more often when mowing in sandy soil.

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

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 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. (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 AND REVERSE OP-ERATION SYSTEM (ROS)

Be sure operator presence and reverse operation 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 the attachment clutch control is in the disengaged position.

CHECK OPERATOR PRESENCE SYSTEM

- 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.

CHECK REVERSE OPERATION (ROS) SYSTEM

- When the engine is running with the ignition switch in the engine "ON" position and the attachment clutch engaged, any attempt by the operator to shift into reverse should shut off the engine.
- When the engine is running with the ignition switch in the ROS "ON" position and the attachment clutch engaged, any attempt by the operator to shift into reverse should NOT shut off the engine.

ROS "ON" POSITION

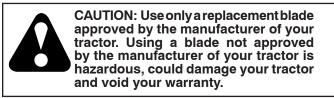
ENGINE "ON" POSITION (NORMAL OPERATING)





BLADE CARE

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



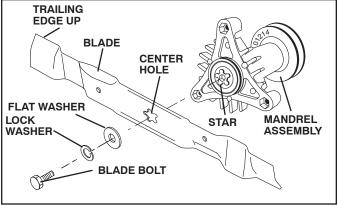
BLADE REMOVAL (See Fig. 12)

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

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

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

IMPORTANT: BLADE BOLT IS HEAT TREATED. IF BOLT NEEDS REPLACING, REPLACE ONLY WITH APPROVE BOLT SHOWN IN THE REPAIR PARTS.





TO SHARPEN BLADE (See Fig. 13)

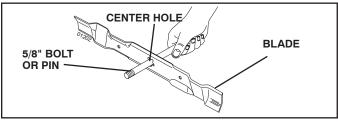
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

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

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

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





BATTERY

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

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

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

TO CLEAN BATTERY AND TERMINALS

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

- 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 SG-SL. Select the oil's SAE viscosity grade according to your expected operating temperature. When operating in temperatures below 0° F (-18° C) synthetic oil must be used.

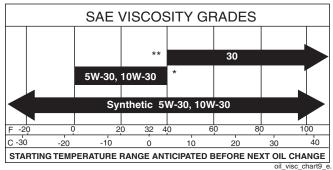


FIG. 14

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

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



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

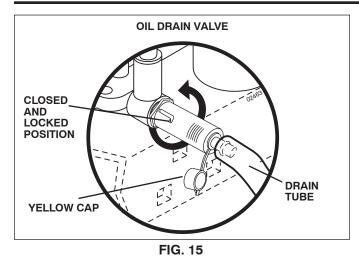
Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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

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

Determine temperature range expected before oil change. All oil must meet API service classification SG-SL.

- 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.



- 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. Tighten cap onto the tube securely when finished.

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.

ENGINE COOLING SYSTEM (See Fig. 16)

Debris may clog the engine's air cooling system. Remove blower housing and clean the area shown to prevent overheating and engine damage.

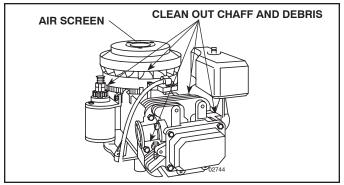


FIG. 16

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.

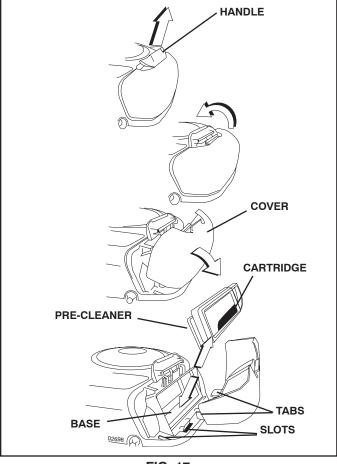


FIG. 17

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.
- İmmediately wipe up any spilled gasoline.

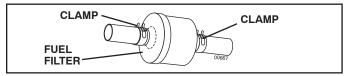


FIG. 18

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.

SERVICE AND ADJUSTMENTS



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.

TO REMOVE MOWER (See Fig. 19)

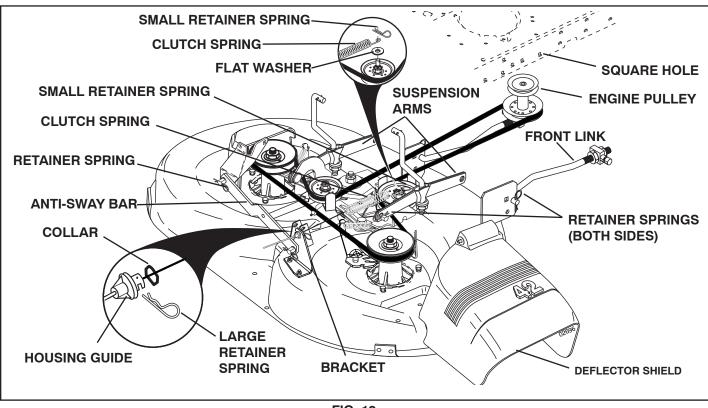
Mower will be easier to remove from the right side of tractor.

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



SERVICE AND ADJUSTMENTS

TO LEVEL MOWER HOUSING

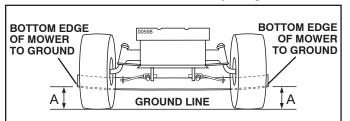
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

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.





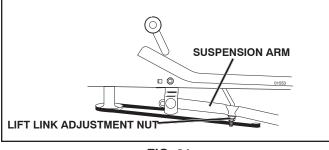


FIG. 21

FRONT-TO-BACK ADJUSTMENT (See Figs. 22-24) **IMPORTANT:** DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACKADJUSTMENT 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.

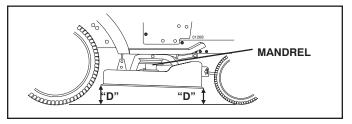


FIG. 22

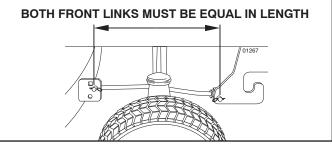


FIG. 23

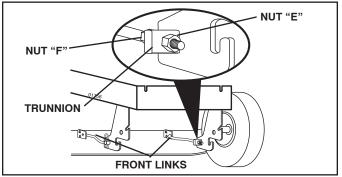


FIG. 24

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

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

BELT REMOVAL -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of 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.

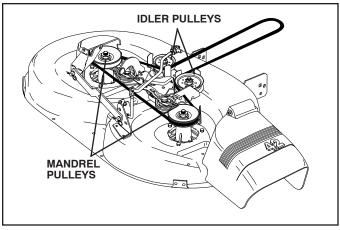


FIG. 25

TO CHECK BRAKE

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 serviced.

You may also check brake by:

- 1. Park tractor on a level, dry concrete or paved surface, depress brake pedal all the way down and engage parking brake.
- 2. 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, then the brake needs to be serviced. Contact a Sears or other qualified service center.

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 -

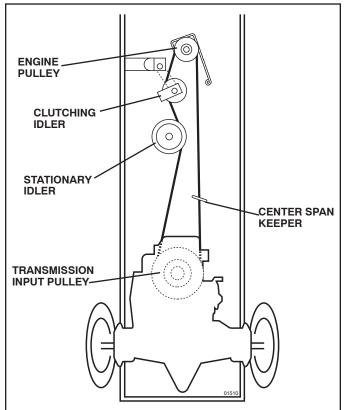
• Remove mower (See "TO REMOVE MOWER" in this section of manual).

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 and over cooling fan blades.
- Remove belt from center span keeper and pull belt away from tractor.

BELT INSTALLATION -

- Carefully work new belt down around transmission cooling fan and onto the input pulley.
- Slide belt into the center span keeper.
- Pull belt toward front of tractor and roll 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).



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.

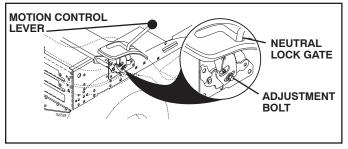


FIG. 27

TRANSMISSION REMOVAL/REPLACEMENT

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

TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN/CAMBER

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

SERVICE AND ADJUSTMENTS

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.

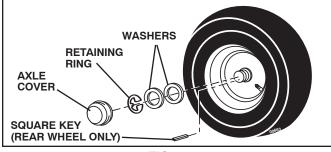


FIG. 28

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.

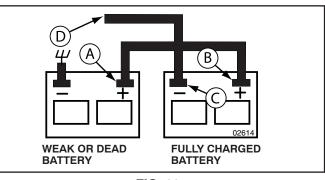


FIG. 29

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.

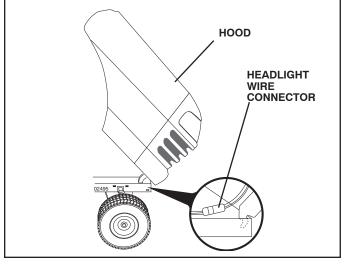
• Check wiring. See electrical wiring diagram in the Repair Parts section.

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.





ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 31)

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

- With engine not running, move throttle control lever 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.

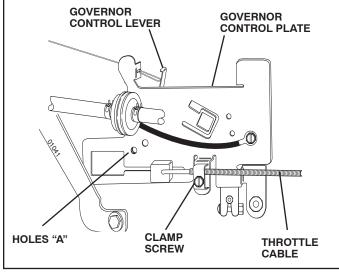


FIG. 31

TO ADJUST CARBURETOR

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, see engine manual.

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

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

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.

- Empty the fuel tank by starting 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 empty the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

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

CYLINDER(S)

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

OTHER

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

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

TROUBLESHOOTING POINTS

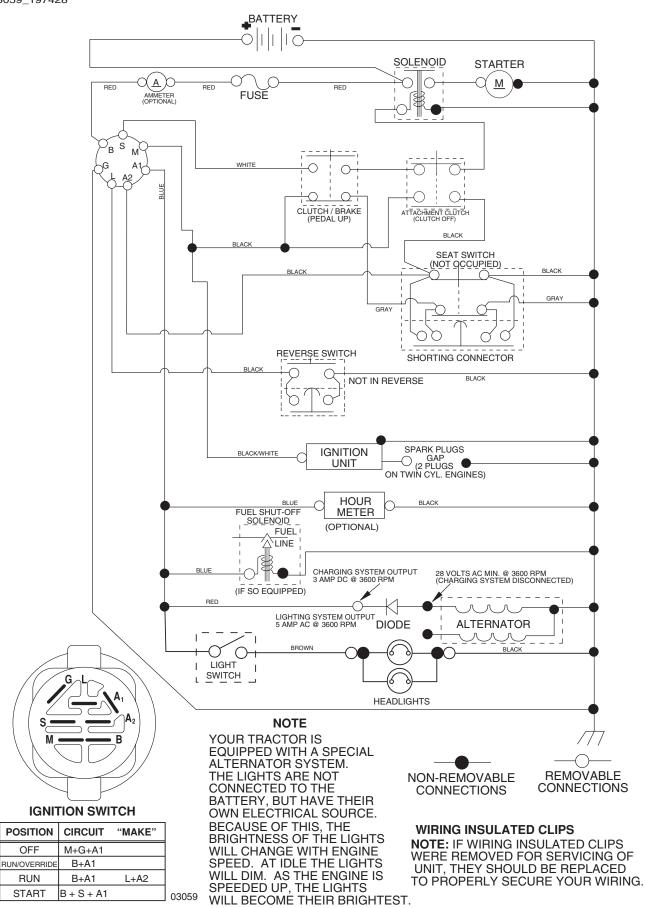
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Empty 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. Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Engine will not turn over	 Brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	 Depress brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power1. 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.		 Raise cutting height/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. Empty fuel tank and refill tank with fresh, clean gasoline. Empty 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 1. Worn, bent or loose blade. 2. Bent blade mandrel. 3. Loose/damaged part(s).		 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.

TROUBLESHOOTING POINTS

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

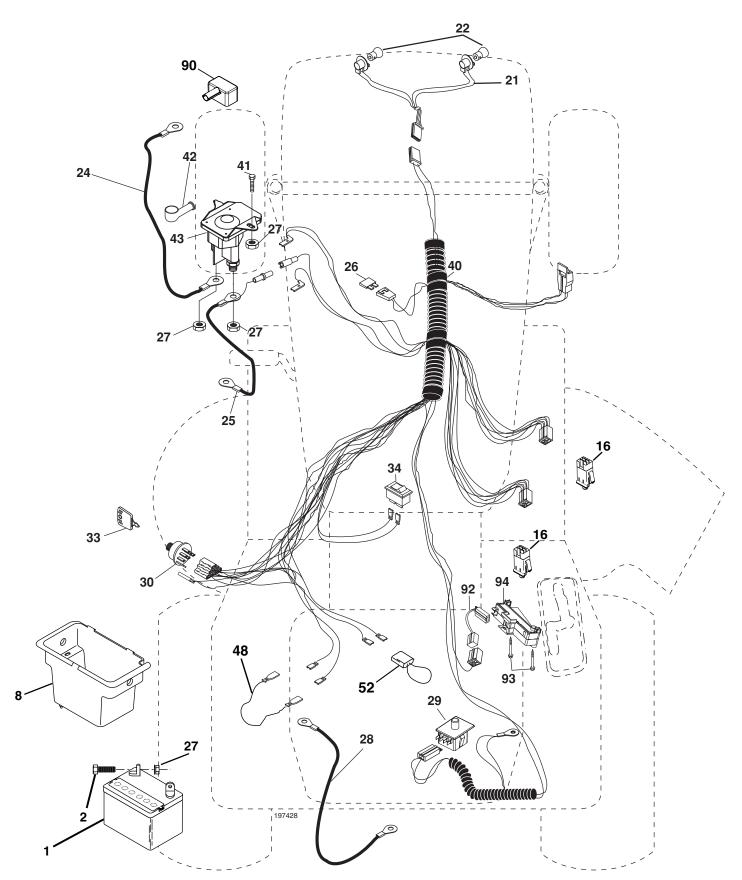
TRACTOR - - MODEL NUMBER 944.607550

SCHEMATIC 03059_197428



TRACTOR - - MODEL NUMBER 944.607550

ELECTRICAL

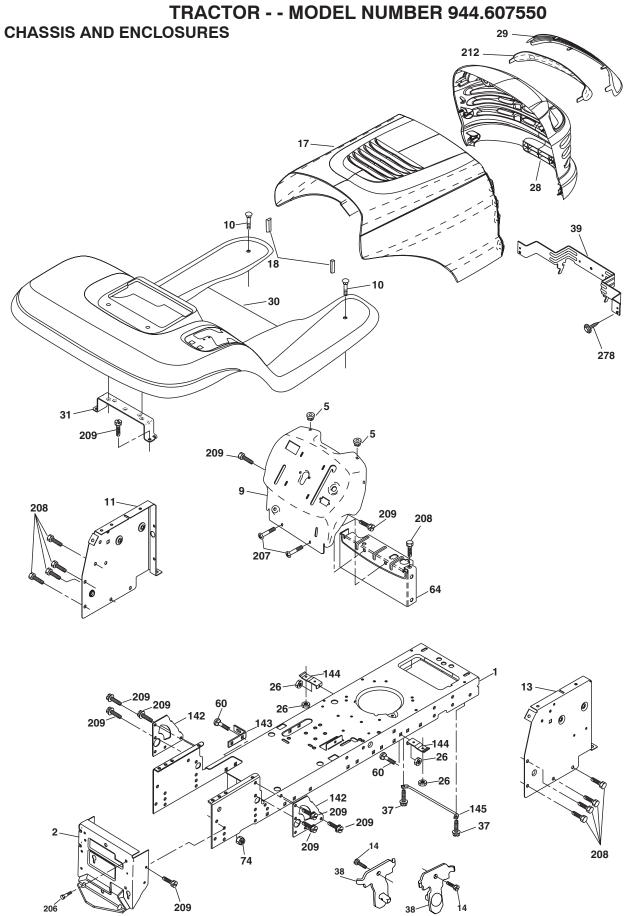


TRACTOR - - MODEL NUMBER 944.607550

ELECTRICAL

KEY NO.		DESCRIPTION
1 2 8 16 21 22 24 25 26	4152J 4799J 146147	Battery 12 Volt 28 Amp Bolt Hex Hd 1/4-20 unc x 3/4 Case Battery Switch Interlock Push-In Harness Asm Light W/4152J Bulb Light #1156 Cable Battery 6 Ga. 11"red Cable Battery 6 Ga. w/16 wire,red Fuse 20 AMP
28 29 30	192749 193350	Nut Kep Hex 1/4-20 Cable Ground 6 Ga. 12" black Switch Seat Switch Ign
42	110712X 197428 71110408 131563	Key Ign Switch Light/Reset Harness Ign Bolt Blk Fin Hex 1/4-20 unc x 1/2 Cover Terminal Red
43 48 52 90 92 93 94	140844 141940 180449 196615	Solenoid Adapter Ammeter Protection Wire Loop (Hourmeter) Cover Terminal Battery Harness Pigtail Console ROS Screw Plastite 10-14 x 2.0 Module Reverse ROS

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

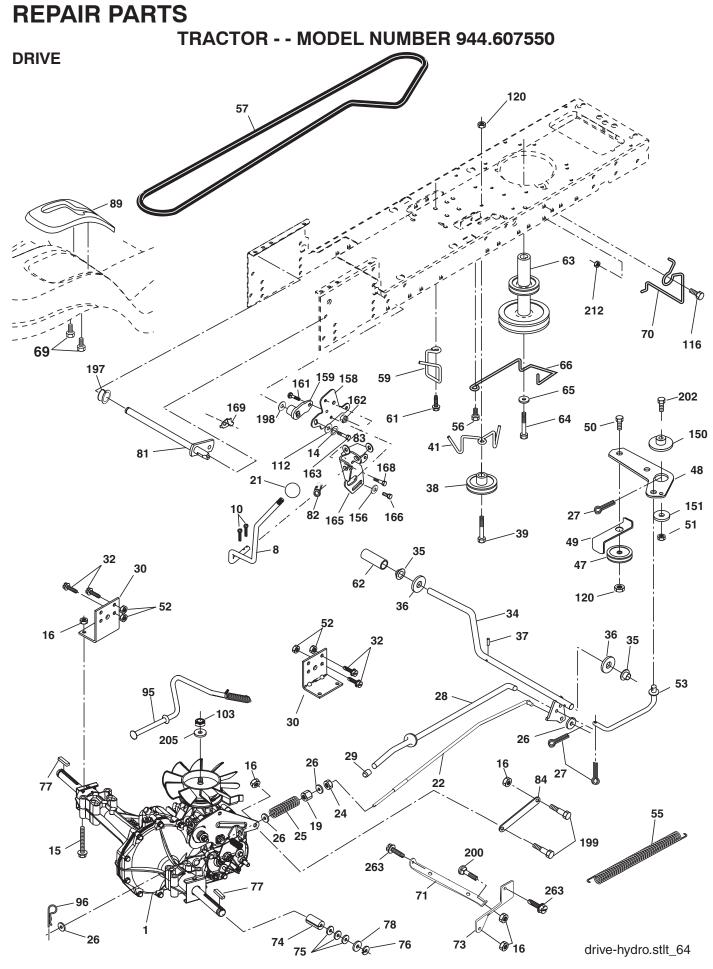


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chassis-Laser -lt.stlt_27
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TRACTOR - - MODEL NUMBER 944.607550 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1 2 5 9 10 11 13 14 17 18 26 28 29 30 31 37 38 39 60 64 74 142 143 144 145 206 207 208 209 212 278	17490608 185682X613 184921 STD541437 188636 174332X599	Bolt Carriage 3/8-16 x 1 Panel Dash Lh Panel Dash Rh Screw Thdrol 3/8-16 x 1/2 Hood Bumper Hood Nut Lock Hex W/Ins 3/8-16 unc Grille/Len Laser (Includes key #'s 29 and 212)
	187801	Plug Dome

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



TRACTOR - - MODEL NUMBER 944.607550

DRIVE

KEY PART NO. NO.

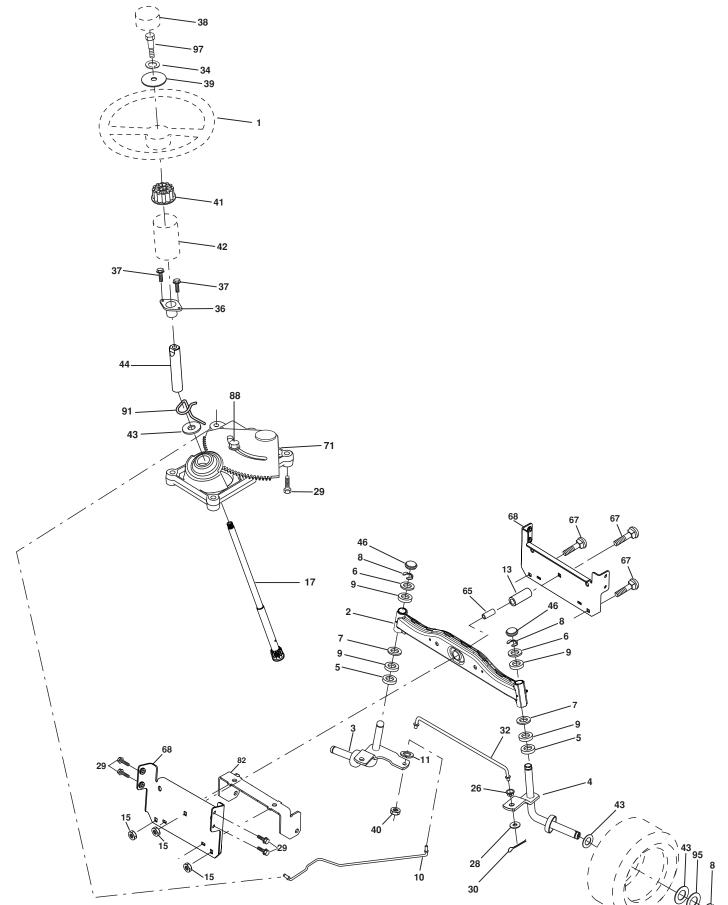
DESCRIPTION

22 169498 Rod Brake 24 STD541237 Nut Hex Jam 3/8-16 unc 25 106888X Spring Rod Brake 2 00 Zinc 26 STD551037 Washer 13/32 x 13/16 x 16 Ga 27 STD561210 Pin Cotter 1/8 x 3/4 Cad 28 175765 Rod Brake Parking LT/YT 29 71673 Cap Brake Parking 30 174973 Bracket Mtg Transaxle 32 STD523107 Bolt Hex Hd 5/16-18 unc x 3/4 34 175578 Shaft Asm Pedal Foot 35 120183X Bearing Nylon Blk 629 Id 36 STD551062 Washer 21/32 x 1 x 16 Ga. 37 STD571810 Pin Roll 3/16 x 1" 38 179114 Pulley Idler Flat 39 72110622 Bolt 3/8-16 unc x 2-3/4 41 175556 Keeper Belt Idler 47 127783 Pulley Idler V Groove Plastic 48 154407 Bellcrank Asm 49 123205X Retainer Belt Style Spring 50 72110612 Bolt

KEY NO.	PART NO.	DESCRIPTION
69	142432	Screw
70	134683	Guide Belt Mower Drive RH
71	169183	Strap Torque LH
73	169182	Strap Torque RH
74	137057	Spacer Axle
75	121749X	Washer 25/32 x 1 1/4 x 16 Ga.
76	12000001	E-Ring
77	123583X	Key Square 2 0 x 1845/ 1865
78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
81	165596	Shaft Asm Cross
82	165711	Spring Torsion T/a
83	19171216	Washer 17/32 x 3/4 x 16 Ga.
84	169843	Link Transaxle
89 95	192387X428	Console Shift STLT
95 96	170201 4497H	Control Asm Bypass
103	73940800	Retainer Spring Nut Hex Jam Toplock 1/2-20
112	19091210	Washer $9/32 \times 3/4 \times 10$ Ga.
116	72140608	Bolt Rdhd Sq Neck 3/8-16 x 1
120	73900600	Nut Lock Flg 3/8-16 unc
150	175456	Bushing Retainer
151	19133210	Washer 13/32 x 2 x 10
156	166002	Washer Srrted 5/16 ID x 1 x .125
158	165589	Bracket Shift Mount
159	183900	Hub Shift
161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
162	73680400	Nut Crownlock 1/4-20 unc
163	74780416	Bolt Hex Fin 1/4-20 unc x 1 Gr. 5
165	165623	Bracket Pivot Lever
166	17490510	Screw 5/16-18 x 5/8
168	165492	Bolt Shoulder 5/16-18 x .561
169	165580	Plate Fastening LT
197	169613	Nyliner Snap-In
198	169593	Washer Nyliner
199	169612	Bolt Shoulder 5/16-18 unc
200		Bolt Rdhd Sqnk 5/16-18 unc x 1
202	72110614	Bolt 3/8-16 x 1-3/4 Gr. 5
205		Washer 17/32 x 1 x 16 Ga.
212		Nut Hexflange Lock
	17000612	Screw 3/8-16 x 3/4
NOT	E: All compone 1 inch = 25.4	ent dimensions given in U.S. inches 4 mm

TRACTOR - - MODEL NUMBER 944.607550

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.607550

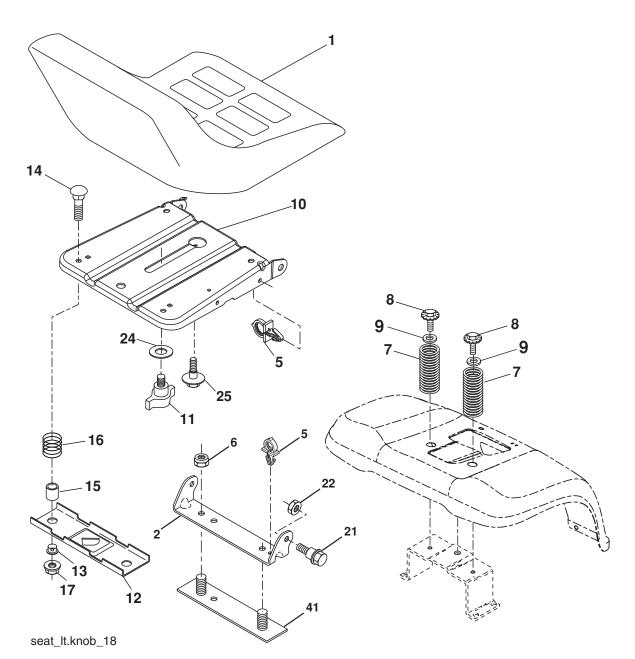
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	186780	Wheel Steering
2	195673	Axle Asm Welded LT/STL
3	169840	Spindle Asm LH
4	169839	Spindle Asm RH
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
7	19272016	Washer 27/32 x 1-1/4 x 16 Ga.
8	12000029	Ring Klip #t5304-75
9	3366R	Bearing Col Strg Blk
10	175121	Link Drag Extended Stamp
11	STD551137	Washer Lock Hvy Hlcl Spr 3/8
13	136518	Spacer Bearing Axle
15	145212	Nut Hex Flange Lock
17 26	411386 126847X	Shaft Strg Bushing Link Drag Blk LR
20 28	19131416	Washer 13/32 x 7/8 x 16 Ga.
29	17000612	Screw 3/8-16 x 3/4
30	STD561210	Pin Cotter 1/8 x 3/4 Cad
32	192757	Rod Tie Wire Form 19 75 Mech
34	10040500	Washer Lock 5/16
36	155099	Bushing Strg
37	152927	Screw
38	186781	Insert Cap Strg Wh Au
39	19113812	Washer 11/32 ID x 2-3/8 OD x 12 Ga.
40	73540600	Lock nut
41	186737	Adaptor Wheel Strg
42	145054X428	
43	121749X	Washer 25/32 x 1 1/4 x 16 Ga.
44	190752	Extension Steering Shaft LR/LT
46	121232X	Cap Spindle Fr Top Blk
65 67	160367	Spacer Brace Axle
67 68	72110618 169827	Bolt Rdhd Sq 3/8-16 x 2-1/4
00 71	175146	Axle, Brace Steering Asm
82	199978	Bracket
88	175118	Bolt Shoulder 7/16-20 unc
91	175553	Clip Steering
95	188967	Washer Hardened
97	74780564	Bolt 5/16-18 unc x 4"L Gr. 5

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

TRACTOR - - MODEL NUMBER 944.607550

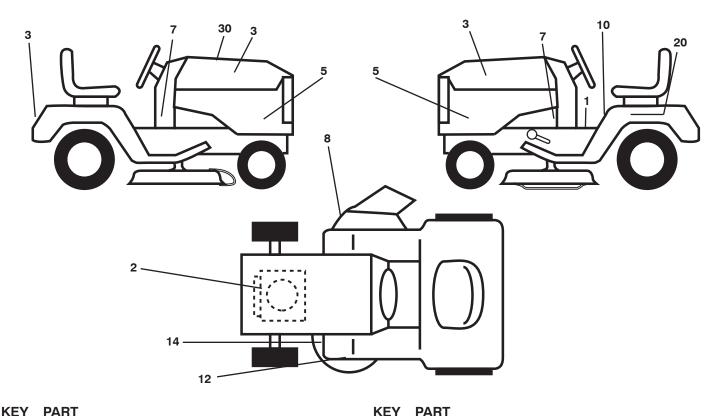
SEAT ASSEMBLY



KEY NO	PART NO	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
NO. 1 2 5 6 7 8 9 10	NO. 188709 140551 145006 STD541437 124181X 17000616 19131614 195530	DESCRIPTION Seat Bracket Pivot Seat Clip Push-In Nut Hex w/Ins. 3/8-16 unc Spring Seat Cprsn 2 250 Blk Zi Screw 3/8-16 x 1.5 Washer 13/32 x 1 x 14 Ga. Pan Seat	NO. 14 15 16 17 21 22 24 25	NO. 72050412 134300 121250X 123976X 171852 STD541431 19171912 127018X	DESCRIPTION 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
11 12 13	166369 174648 121248X	Knob Seat Bracket Mounting Switch Bushing Snap Blk Nyl 50 Id	41 Note	140675 E: All compon 1 inch = 25.4	Strap Asm. ent dimensions given in U.S. inches 4 mm

TRACTOR - - MODEL NUMBER 944.607550

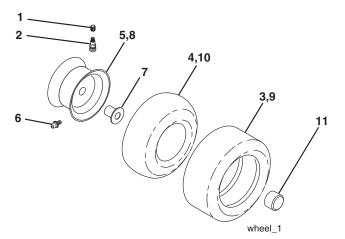
DECALS



KEY NO.	PART NO.	DESCRIPTION
1	193939	Decal, Fend STLT Oper
2	411000	Decal, Engine
3	411697	Decal, Fender, Hood LH/RH
5	193545	Decal, Side Panel
7	177259	Decal, Lower Dash
8	170563	Decal, Warning
10	157140	Decal, Fender Danger Eng/Fr
12	146046	Decal, Mower "B" "42"

NO.	NO.	DESCRIPTION
14	160396	Decal, V-Belt Schematic
20	149517	Decal, Bat Dan/Psn
30	196343	Decal, Replacement Parts
	138311	Decal, Handle Lft Height Adjust
	166960	Decal, Bypass
		Pad, Footrest LH
	184311X428	Pad, Footrest RH
	412509	Manual, Owner's (English)
	412510	Manual, Owner's (French)

WHEELS & TIRES

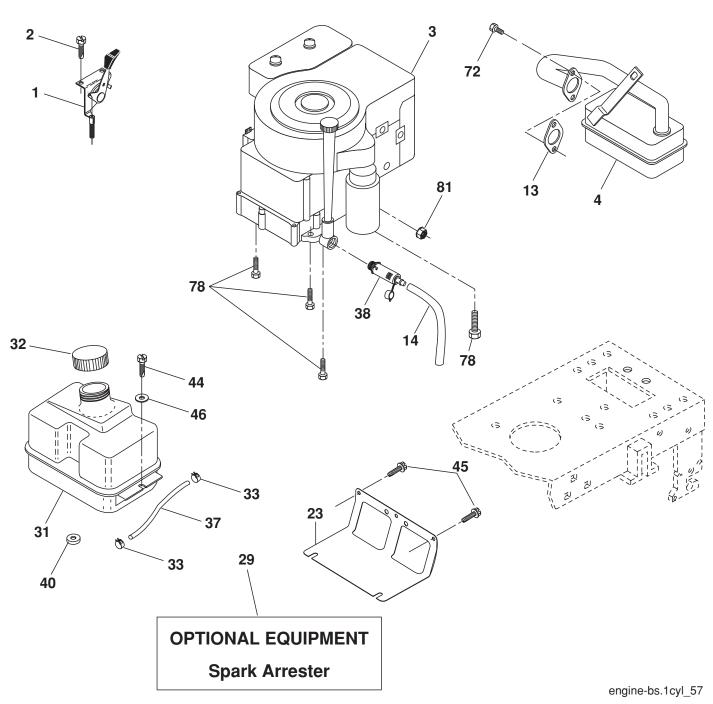


KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F
4	59904	Tube Front (Service Item Only)
5	106732X624	Rim Asm 6" front Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel Only)
8	106108X624	Rim Asm 8" rear Service
9	124635X	Tire R
10	7152J	Tube Rear (Service Item Only)
11	104757X428	Cap Axle Blk 1 50 x 1 00
	144334	Sealant, Tire (10 oz. Tube)

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

TRACTOR - - MODEL NUMBER 944.607550

ENGINE



TRACTOR - - MODEL NUMBER 944.607550

ENGINE

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 13 14 23 29 31 32 33	170545 17720408 137352 165291 148456 169837 137180 407516	Control Throttle/Choke Screw Hex Thd Cut 1/4-20 x 1/2 Engine B&S, Model 31A707-0525-E1 (See Breakdown) Muffler Exhaust B&s Lt Gasket Tube Drain Oil Easy Shield Browning Arrestor Spark Tank Fuel 1 25 Fr Cap Asm Fuel Top Clamp Hose Blk
37 38 40 44 45 46 72 78 81	137040 181654 124028X 17670412 17000612 19091416 192334 17060620 73510400	Line Fuel 20" Plug Drain Oil Easy Bushing Snap Nyl Blk Fuel Line Screw Hexwsh Thdrol 1/4-20 x 3/4 Screw Hex Wsh Thdrol 3/8-16 x 3/4 Washer 9/32 x 7/8 x 16 Ga. Screw Socket HD 5/16-18 x 3/4 Screw 3/8-16 x 1-1/4 Nut Keps Hex 1/4-20 unc

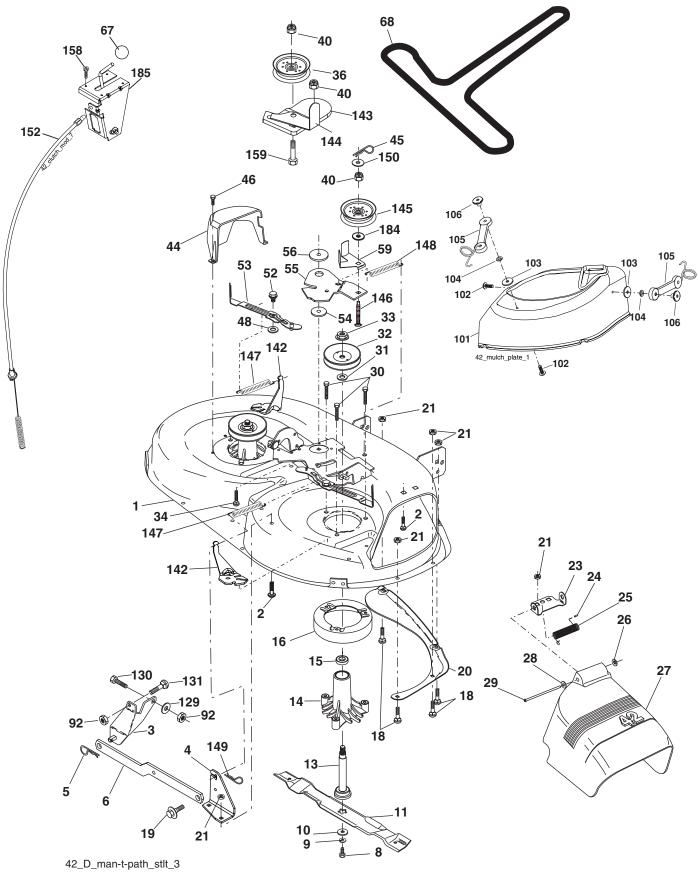
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

Engine Power Rating Information

The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J11940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-5). Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net horsepower). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine.

TRACTOR - - MODEL NUMBER 944.607550

MOWER DECK



TRACTOR - - MODEL NUMBER 944.607550

MOWER DECK

KEY PART NO. NO.

1 2	165892 STD533107	Mower Deck Assembly, 42" Bolt RDHD SQNK
3 4 5 6	138017 165460 STD624008 178024	5/16-18 unc x 3/4 Bracket Assembly,Sway Bar, Front Bracket Sway Bar 38/42" Deck Retainer Spring Bar, Sway Deck
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8
9	STD551137	Washer, Lock
10	140296	Washer, Hardened (The following blades are available)
11	134149	Blade, 42" Mulching Std
	139775	(For mulching mowers only) Blade, 42" Mulching Premium
	138971	(For better wear when mulching) Blade, 42" Hi-Lift
10	107045	(For bagging or discharging)
13 14	137645 128774	Shaft Asm. w/Lower Bearing Housing, Mandrel, Vented
15	128774 110485X	Bearing, Ball, Mandrel
16	174493	Stripper, Vented Mower Deck
18	72140505	Bolt, Carriage 5/16-18 x 5/8
19	132827	Bolt, Shoulder
20	159770	Baffle, Vortex
21	STD541431	Nut Crownlock 5/16-18 unc
23	177563	Bracket, Deflector
24	105304X	Cap, Sleeve
25	123713X	Spring, Torsion, Deflector
26	110452X	Nut, Push
27	130968X428	Shield, Deflector
28	19111016	Washer 11/32 x 5/8 x 16 Ga.
29	131491	Rod, Hinge
30	173984	Screw Thdrol DOD PT Hex
31	187690	Washer, Spacer
32	153535	Pulley, Mandrel
33 34	400234 STD533717	Nut, Toplock, Flanged Bolt RDHD 3/8-16 x 1-1/2
36	131494	Pulley, Idler, Flat
40	73900600	Nut Lock 3/8-16 unc
44	140088	Guard, Mandrel, L.H.
45	STD624003	Retainer
46	137729	Screw, Thd. Roll 1/4-20 x 5/8

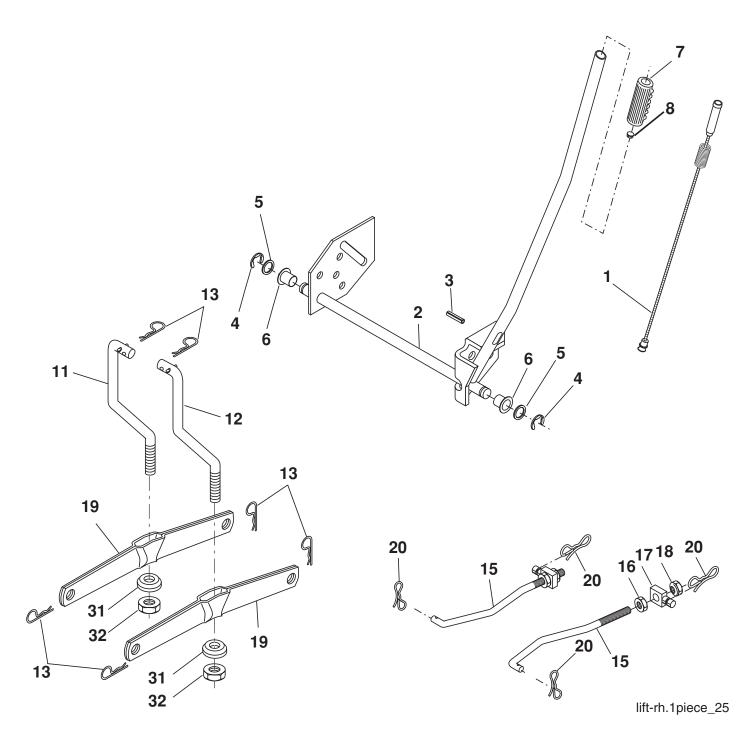
DESCRIPTION

KEY NO.	PART NO.	DESCRIPTION
48	133944	Washer, Hardened
52	139888	Bolt, Shoulder 5/16-18 unc
53	184907	Arm Assembly, Pad, Brake
54 55 56	178515 155046 165723	Washer, Hardened Arm, Idler
59 67	141043 149846	Spacer, Retainer Guard, TUV Idler Knob Custom Oval
68	144959	V-Belt
92	STD541437	Nut
101	193107	Cover Mulching
102	71081010	Screw 10-24 x 5/8
103	19061216	Washer #10
104	10071000	Washer Lock #10
105	160793	Latch Asm.
106	2029J	Nut Weld
129	19131312	Washer 13/32 x 13/16 x 12 Ga.
130	STD523710	Bolt, Fin Hex 3/8-16 unc x 1 Gr. 5
131	STD533710	Bolt, Rdhd Sqnk 3/8-16 unc x 1
142	165890	Arm Spring Brake Mower
143	157109	Bracket Arm Idler 42"
143 144 145	158634 165888	Keeper Belt 42" Clutch Cable Pulley Idler Flat
146	171977	Bolt Carriage Idler
147	131335	Spring Extension
148	169022	Spring Return Idler
149	165898	Retainer Spring Yellow Zinc
150	19091210	Washer 9/32 x 3/4 x 10 Ga.
152	169676	Cable Clutch 42 In
158	17720408	Screw Hex Thd Cut 1/4-20 x 1/2
159	72140614	Bolt Rdhd Sqn 3/8-16 unc x 1-3/4
184 185 	19131410 188234 130794	Washer 13/32 x 7/8 x 10 Ga. Head Asm Cable Clutch Mandrel Assembly (Includes Hous- ing, Shaft and shaft Hardware Only- Pulley not included)
	169583	Replacement Mower, Complete

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

TRACTOR - - MODEL NUMBER 944.607550

MOWER LIFT

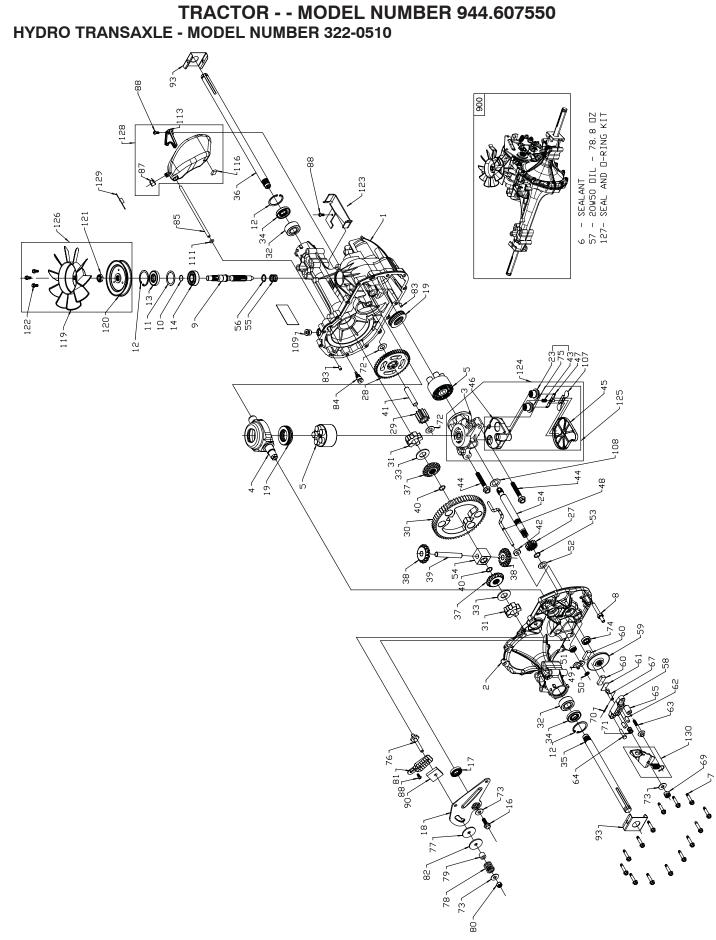


TRACTOR - - MODEL NUMBER 944.607550

MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
NO. 1 2 3 4 5 6 7 8 11 12 13 15 16 17 18 19 20 31	NO. 159460 159471 105767X STD581062 19211621 120183X 125631X 122365X 139865 139866 STD624008 173288	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
32	73540600	Nut Lock 3/8-24

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

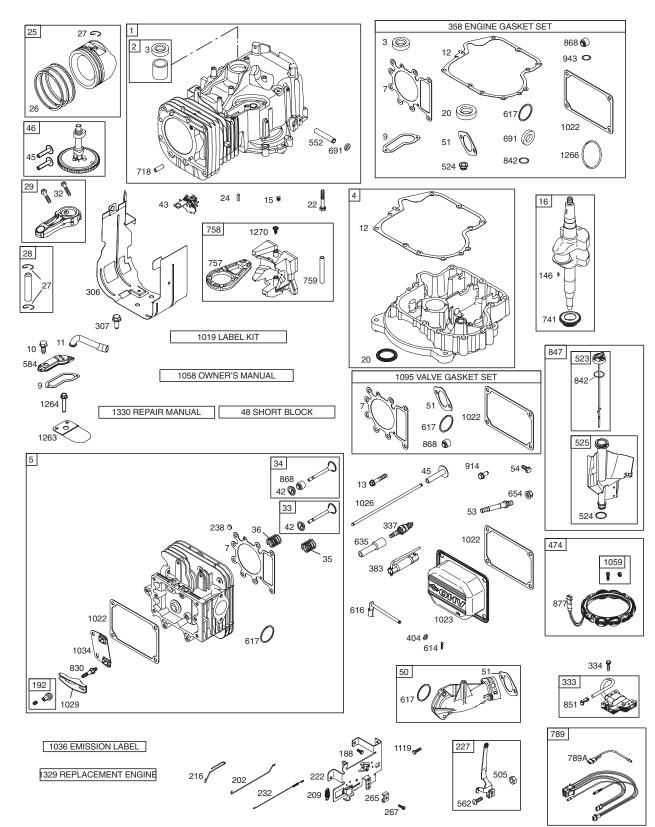


TRACTOR - - MODEL NUMBER 944.607550 HYDRO TRANSAXLE - MODEL NUMBER 322-0510

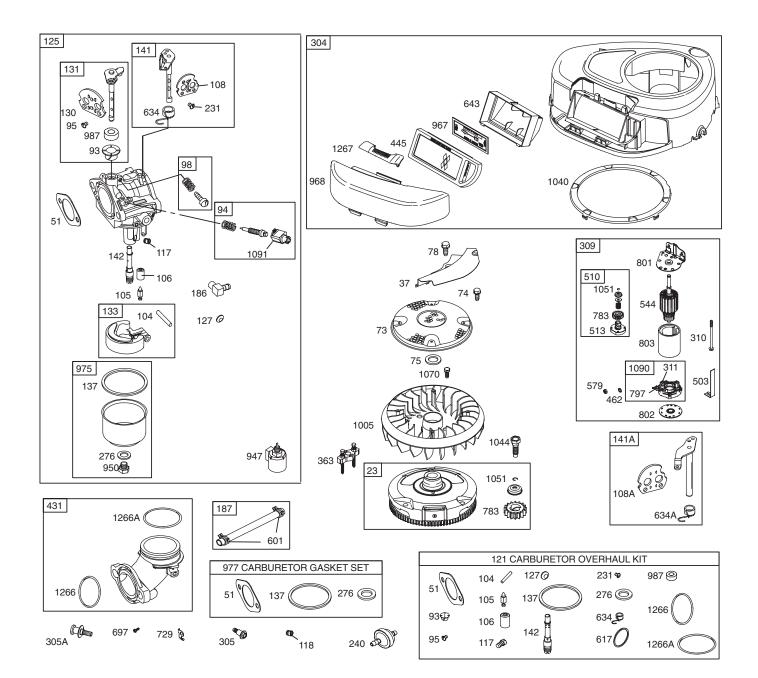
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170351	Kit, Main Housing	67	170413	Bolt, Square Head - Brake
		Main Housing, Machined Bushing .865 X .985 X .790	69 70	170415 170416	Nut, Castle 5/16-24 Pin, Cotter 3/32x3/4
2	170352	Kit, Side Housing	71	170417	Brake Spring
_		Side Housing, Machined	72	170418	Washer (310-0750)
		Bushing .865 X .985 X .790	73	142884	Washer, Flat
3	170353	Bushing .624 X .719 X .562 Kit, Center Section	74 75	170419 170420	Seal, Oil Ass'y Check Plug
0	170000	Center Section, Machined	76	170421	Bolt, Stud 5/16-24
		Bushing .707 X .788 X .591	77	170422	Puck, Friction
4 5	170354	Swashplate, Trunnion Machined	78 79	142969	Spring
5	169898	Kit, Cylinder Block (10cc) Block - Cylinder	80	142980 150778	Spacer Nut, Nylon Insert Hex Lock 5/16-24
		Piston	81	170423	Wedge, Friction
		Spring, Compression	82	170424	Clip, Washer
6	178322	Washer - Thrust Sealant Tube	83 84	161168 170425	Pin Fitting, 5/16 X Sae 5/32 Tube
7	170356	Hexflange Screw 1/4-20 X 1.25	85	170426	Hose, Expansion Tank
8	170357	Stud, 5/16-24 Hex Double End	87	173160	Cap, Vent
9	170358	Shaft, Input	88	178334	Bolt, Self Tapping (BDR)
10 11	170359 170360	Retaining Ring Spacer	90 93	170430 170431	Puck, Inner Wedge Spring Clip, Housing
12	169870	Retaining Ring	107	170432	Deflector
13	170361	Seal, Lip .67 X 1.58 X .276	108	170433	Washer, Motor Shaft .71ID X 1.15OD X .03
14 16	173158 170362	Bearing, Ball 6203 (BDR) Hex Flange Head Screw 1/4-20 X 1.25	109	170434	Thick Plug, Straight Thread 9/16-18
17	170363	Seal, Lip 18 X 32 X 7	111	170435	O-ring .7 X .301 ID
18	170364	Arm, Control	113	170437	Bracket, Support Expansion Tank
19 23	173159	Bearing, Thrust (10cc)	119 120	173161	Fan (310-3000)
23 24	170365 170366	Check Plug Assembly Shaft Motor	120	170440 170441	Pulley Hex Nut Locking
27	170367	Gear, Pinion, 13t	122	173162	Screw, #12-24 Hx Hd Self Tapping (310-3000)
28	170368	10t / 48t Gear	123	173163	Bracket, Belt Keeper
29 30	170369 170370	Gear, 10t Jackshaft 60t Bullgear	124	170444	Kit, Center Section Filter Bypass Center Section Machining
31	170371	Sleeve Bearing .75 X 1.75 X .625			Base Filter W/ Poppet
32	170389	Sleeve Bearing (Outboard) .75 X 1.575 X .625			Check Plug Assembly, 027 Washer
33 34	142991 170390	Washer Lip Seal, Axle Shaft			Check Plug Assembly, Washer Spring, Bypass
35	170391	Shaft, Axle (Keyed, R.h.)			Actuator, Bypass
36	170392	Shaft, Axle (Keyed, L.h.)			Deflector
37 38	150792 150793	Gear, Splined Diff. (210-1000 & 310-0750) Gear, Miter Diff. (210-1000 & 310-0750)			Bottom, Filter Bushing .707 X .788 X .591
39	150809	Differential Shaft (310-0750)	125	170445	Kit, Filter
40	170393	Retaining Ring			Bottom, Filter
41 42	170394 170395	Pin, Jackshaft Magnet, Ring			Spring, Bypass Actuator, Bypass
43	170396	Spring, Bypass			Deflector
44	150797	Bolt 3/8-24 X 2-1/2	100	170104	Base, Filter W/ Poppet
45 46	170397 170398	Filter Base, Filter	126	173164	Kit, Fan / Pulley #12 T.f. Screw - Indented Hex Washer Head
47	170399	Actuator, Bypass			Fan
48	170400	Rod, Bypass Actuator	107	170447	Pulley 4.315 X .801
49 50	170401 170402	Arm, Bypass Retaining Ring .25 External	127	170447	Kit, Seal Lip Seal .67 X 1.58 X .276
51	170403	Seal, Lip .741 X .25 X .25			Lip Seal 18 X 32 X 7
52	170404	Washer, Flat 0.050" (210-1000)			Lip Seal .706 X 1.584 X .25
53 54	170405 170406	Retaining Ring Bearing, Center Block			Lip Seal .741 X .250 X .250 TC Oil Seal 625 X 1.0 X .25
55	142977	Spring, Helical Compression			O-ring .07 X .301 ID
56	142978	Washer, Block Thrust	128	173165	Kit, Expansion Tank
57 58	 142929	20w-50 Oil 78.8 Oz Kit, Brake Yoke			Tank, Expansion Cap, Vent
59	170408	Rotor, Brake			Bolt, Self Tapping 10-32 X 1/2
60	142883	Brake Puck			Bracket, Support Expansion Tank
61 62	142882 170409	Brake Puck Plate Pin, Brake Actuating	129	191032	Silicon Sponge 1/2 X 1/2 X 3/16 Cap, Expansion Tank Shipping
63	170403	HFHCS 1/4-20 X 2 W/patch, Special Flange	130	186352	Kit, Brake Arm And Spring
64	142892	Bolt, Nylok			Arm, Brake
65	170411	Spacer, Brake Torsion Spring			Spring, Brake Arm Bias Instruction Sheet
			900	171613	Transaxle Assembly - Complete
			NOTE		anant Dimanajana Ciyan In II a Jachaa 1 Jach

NOTE: All Component Dimensions Given In U.s. Inches 1 Inch = 25.4 MM

TRACTOR - - MODEL NUMBER 944.607550 BRIGGS & STRATTON ENGINE - MODEL NUMBER 31A707, TYPE NUMBER 0525-E1



TRACTOR - - MODEL NUMBER 944.607550 BRIGGS & STRATTON ENGINE - MODEL NUMBER 31A707, TYPE NUMBER 0525-E1



TRACTOR - - MODEL NUMBER 944.607550 BRIGGS & STRATTON ENGINE - MODEL NUMBER 31A707, TYPE NUMBER 0525-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	697174	Cylinder Assembly	108 108A	690464 692344	Valve-Choke (Manual Choke) Valve-Choke (Choke A Matic)
2	399265	Kit-Bushing/Seal (Magneto Side)	117	694352	Ø Jet-Main (Standard)
3 4	391086	 Seal-Oil (Magneto Side) Sump-Engine 	118	697492	Jet-Main (High Altitude)
	697106 698148	Head-Cylinder	121	697241	Kit-Carburetor Overhaul
5 7	699168	•+ Gasket-Cylinder Head	125	697190	Carburetor
9	697109	Gasket-Breather	127	695005	Plug-Welch
10	697157	Screw (Breather Assembly)	130	691750	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 Órain	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	Ø Nozzle-Carburetor
22	692125	Screw (Crankcase Cover/Sump)	146	691639	Key-Timing
23	693557	Flywheel	186	698174	Connector-Hose
24	222698	Key-Flywheel	187	699331	Line-Fuel (Cut to Required Length)
25	699025	Piston Assembly (Standard)	188	691693	Screw (Control Bracket)
	699041	Piston Assembly (.020" Oversize)	192	691986	Adjuster-Rocker Arm
26	697164	Ring Set (Standard)	202	691841	Link-Mechanical Governor
	697171	Ring Set (.020" Oversize)	209 216	692208 691840	Spring-Governor Link-Choke
27	697100	Lock-Piston Pin	210	694042	Bracket-Control
28	697099	Pin-Piston	222	691374	Lever-Governor Control
29 32	697126 692852	Rod-Connecting (Standard)	231	691636	Screw (Choke Valve)
32	695760	Screw (Connecting Rod) Valve-Exhaust	232	691842	Spring-Governor
34	695761	Valve-Exhaust	238	691843	Cap-Valve
35	691279	Spring-Valve (Intake)	240	394358	Filter-Fuel
36	691279	Spring-Valve (Exhaust)	265	691024	Clamp-Casing
37	697352	Guard-Flywheel	267	695134	Screw (Casing Clamp)
42	691752	Keeper-Valve	276	692255	؇ Washer-Sealing
43	691968	Slinger-Governor/Oil	304	698402	Housing-Blower
45	690564	Tappet-Valve	305	697102	Screw (Blower Housing)
46	790400	Camshaft	305A	697103	Screw (Blower Housing)
48	697761	Short Block	306	697107	Shield-Cylinder
50	690193	Manifold-Intake	307	691003	Screw (Cylinder Shield)
51	692137 •	؇+ Gasket-Intake	309	693551	Motor-Starter
53	690227	Stud (Carburetor)	310	690323	Bolt (Starter Motor)
54	691148	Screw (Intake Mánifold)	311	497608	Brush Set
73	697133	Screen-Rotating	333	492341	Armature-Magneto
74	697897	Screw (Rotating Screen)	•	ابه مار رما م ما	in Engine Cooket Cat. Key, No. 050
78	691003	Screw (Flywheel Guard)	ø		in Engine Gasket Set, Key. No. 358
93	690602	Ø Bushing-Throttle Shaft			in Carburetor Overhaul Kit, Key. No. 121 in Carburetor Gasket Set, Key. No. 977
94 05	498030	Kit-Idle Mixture	‡ +		in Valve Gasket Set, Key. No. 1095
95	691636	Screw (Throttle Valve)	т	moluueu	11 Valve Gaskel Gel, Ney. NO. 1080
98 104	495800 690525	Kit-Idle Speed	NOTE	• All comr	oonent dimensions given in U.S. inches 1 inch
104	690525 231855	Ø Pin-Float Hinge Ø Valve-Float Needle	= 25.4		sensiti amendiono given in 0.0. moneo 1 mon
105	690577	Ø Seat-Inlet	20.7		
100	000011				

TRACTOR - - MODEL NUMBER 944.607550 BRIGGS & STRATTON ENGINE - MODEL NUMBER 31A707, TYPE NUMBER 0525-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	part No.	DESCRIPTION
334	691061	Screw (Magneto Armature)	851	692424	Terminal-Spark Plug
337	491055	Plug-Spark	868	690968	•+ Seal-Valve
358	697191	Gasket Set-Engine	877	393456	Wire-Connector/Alternator
363	19203	Flywheel Puller	914	691108	Screw (Rocker Cover)
383	89838	Wrench-Spark Plug	947	694393	Solenoid-Fuel
404	691691	Washer (Governor Crank)	950	691657	Screw (Float Bowl)
431	697122	Elbow-Intake	967	697015	Filter-Pre Cleaner
445	698083	Filter-Air Cleaner Cartridge	968	698403	Cover-Air Cleaner
462	691261	Washer (Starter Cable)	975	495933	Bowl-Float
474	696459	Alternator	977	690192	Gasket Set-Carburetor
503	691532	Strap-Starter	987	691326	Ø Seal-Throttle Shaft
505	691251	Nut (Governor Control Lever)	1005	699043	Fan-Flywheel
510	693699	Drive-Starter	1019	697143	Kit-Label
513	692024	Clutch-Drive	1022	272475	•+ Gasket-Rocker Cover
523	699908	Dipstick	1023	791079	Cover-Rocker Arm
524	691032	 Seal-Dipstick Tube 	1026	692003	Rod-Push (Intake)
525	697184	Tube-Dipstick		692011	Rod-Push (Exhaust)
544	692034	Starter-Armature	1029	691751	Arm-Rocker
552	697144	Bushing-Governor Crank	1034	690822	Guide-Push Rod
562	691119	Bolt (Governor Control Lever)	1036	790464	Label-Emission
579	691029	Nut (Starter Cable)	1040	698368	Plate-Trim
584	697112	Cover-Breather Passage	1044 1051	691658 691265	Screw (Flywheel)
601	95162	Clamp-Hose	1051	275038	Ring-Retaining Owner's Manual
614	691620	Pin-Cotter	1058	698516	Kit-Screw/Washer
616	692012	Crank-Governor	1039	690372	Screw (Flywheel Fan)
617	692138	Ø • Seal-O Ring (Intake Manifold)	1090	691293	Retainer-Brush
634	690801	Ø Spring/Seal Assembly (Manual Choke)	1091	691333	Cap-Limiter
634A 635	690802 691909	Ø Spring/Seal Assembly (Choke A Matic)	1095	690190	Gasket Set-Valve
643	698401	Boot-Spark Plug Retainer-Air Filter	1119	691183	Screw (Alternator)
654	690958	Nut (Carburetor)	1263	697124	Reed-Breather
691	692407	Seal-Governor Shaft	1264	697104	Screw (Breather Reed)
697	690372	Screw (Drive Cap)	1266	691917	•Ø Seal-O Ring (Intake Elbow)
718	690959	Pin-Locating		697123	Ø Seal-O Ring (Intake Elbow)
729	691224	Clip-Wire	1267	697419	Latch-Blower Housing
741	697128	Gear-Timing	1270	697156	Plug-AVS Counterweight
757	697607	Link-Counterweight	1329	31G707-0	026Replacement Engine (If the original en-
758	697134	Counterweight			gine is equipped
759	697392	Pin-Counterweight			with a six pin wiring harness transfer to
783	693713	Gear-Pinion			the replacement
789	698329	Harness-Wiring			engine. Transfer muffler and/or spark
797	693167	Nut (Brush Retainer)			arrester assembly
801	691283	Cap-Drive			from the original engine if suitable for
802	691286	Cap-End			additional service or
803	693757	Housing-Starter			add new parts as required. Add
830	691095	Stud (Rocker Arm)	1005	0-01/1-	790544.)
842	691031	 Seal-O Ring (Dipstick Tube) 	1330	272147	Repair Manual
847	790442	Dipstick/Tube Assembly		la di da 11	- Engine Operated Opt Key No. 050
			•		n Engine Gasket Set, Key. No. 358
			Ø		n Carburetor Overhaul Kit, Key. No. 121

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

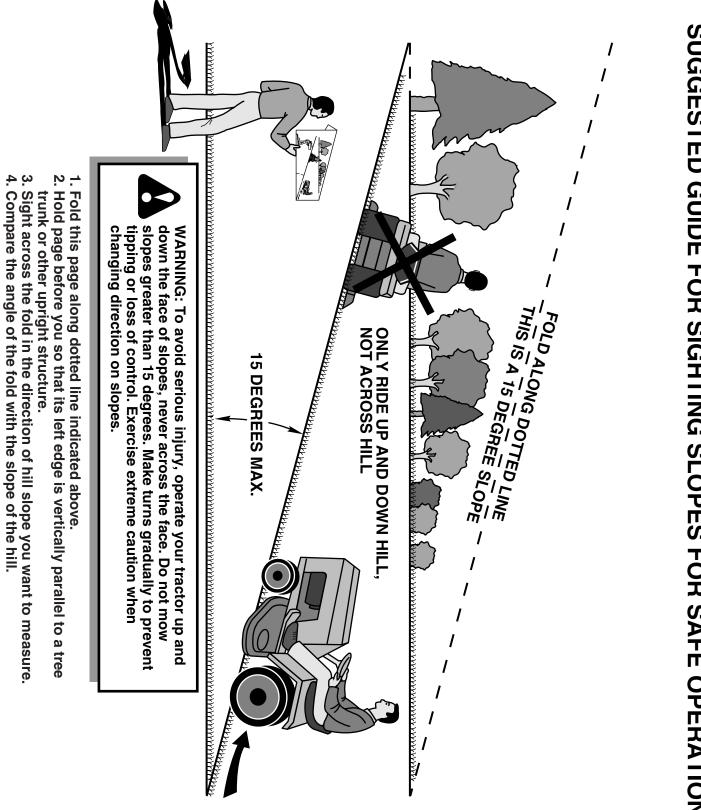
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NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

SERVICE NOTES

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