SEARS OWNER'S MANUAL	
MODEL NO. 944.606681	
	CRAFTSMAN®
Important: Read and follow all Safety Rules and Instructions Before Operating This Equipment	18.5 HP ELECTRIC START 42" MOWER AUTOMATIC TRANSMISSION 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.



Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

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 mow 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.

SAFETY RULES





Safe Operation Practices for Ride-On Mowers

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.

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.
- Čheck 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.
- 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.

PRODUCT SPECIFICATIONS

Gasoline Capacity and type:	1.50 Gallons Unleaded Regular
Oil Type (API-SG-SL):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F) Synthetic (below 0°F)
Your tractor was shipped fro SAE 10W30 motor oil	m the factory with non-synthetic
Oil Capacity:	W/Filter: 4.0 Pints W/O Filter: 3.75 Pints
Spark Plug: (Gap: .030")	Champion QC12YC
Ground Speed (MPH):	Forward: 0-5.5 Reverse: 0-2.4
Charging System:	3 Amps Battery 5 Amps Headlights
Battery:	AMP/HR: 35 Min. CCA: 280 Case Size: U1R
Blade Bolt Torque:	45-55 FT. LBS.

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

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

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 representatives 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".

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.

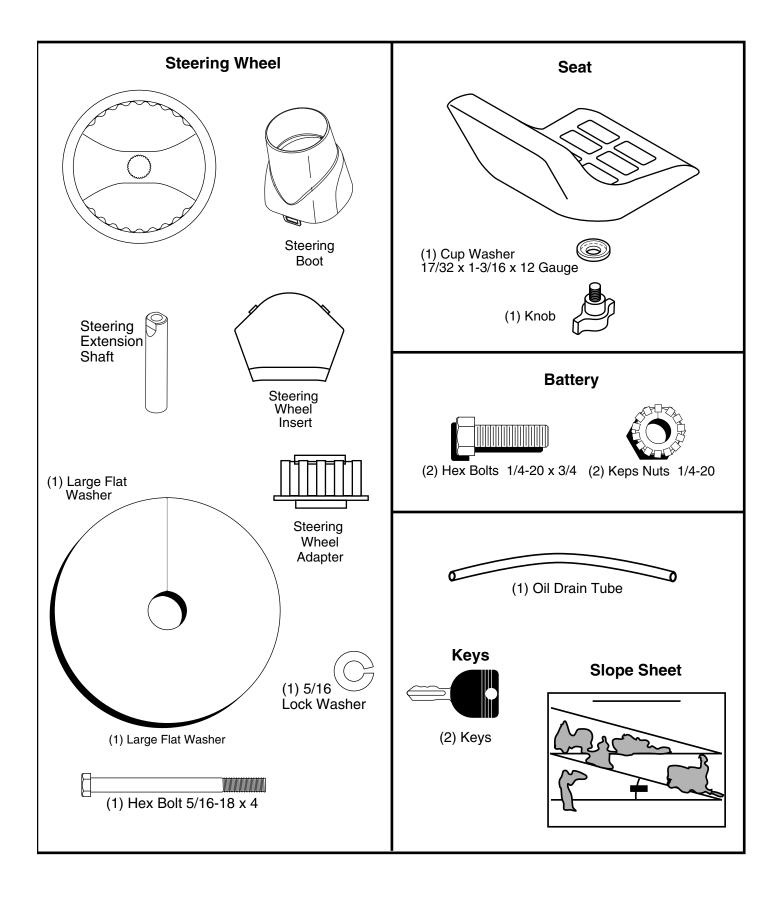
SEARS CANADA, INC., TORONTO, ONTARIO M5B 2B8

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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.

(2) 7/16" wrenches

(1) 1/2" wrenches

Utility knife Tire pressure gauge

Pliers

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.

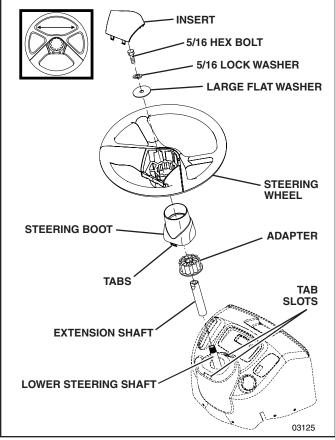


FIG. 1

CONNECT BATTERY (See Fig. 2)



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

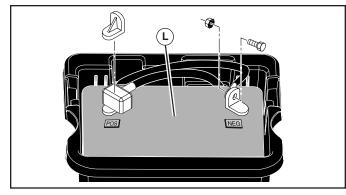
Positive terminal must be connected first to prevent sparking from accidental grounding.

- Lift seat pan to raised position.
- Remove terminal protective caps and discard.

NOTE: If this battery is put into service after month and year indicated on label (L) (label located between terminals) charge battery for minimum of one hour at 6-10 amps.

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

ASSEMBLY

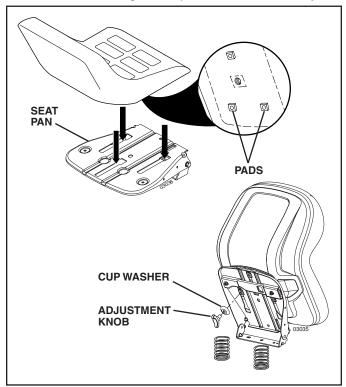




INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and cup washer securing seat to cardboard packing and set aside.
- Remove seat from the cardboard packing and set seat aside. Remove the cardboard packing and discard.
- Place seat on seat pan so all three (3) bottom pads are positioned over large slotted holes in pan.
- Push down on seat to engage pads in slots and pull seat towards rear of tractor.
- Pivot seat and pan forward and assemble adjustment knob and cup washer loosely. Do not tighten.
- Lower seat into operating position and sit in 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.



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

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

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

- 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)

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

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

FIG. 3

ASSEMBLY

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

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

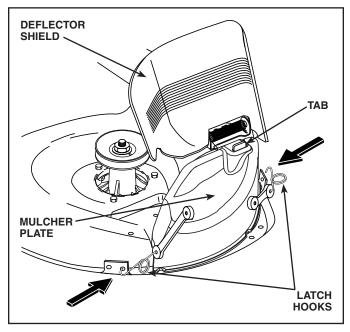


CAUTION: Do not remove deflector shield from mower.

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.





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 "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is 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 PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

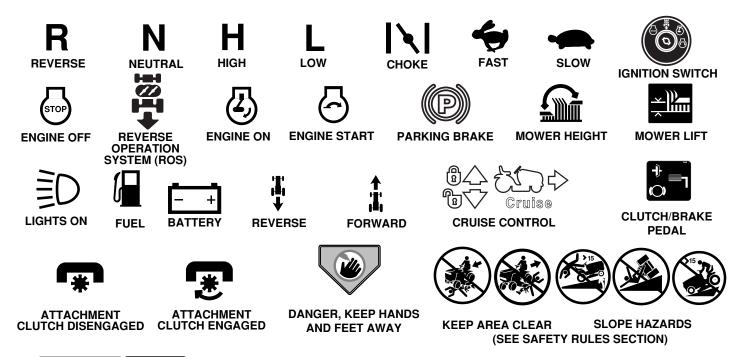
PLEASE REVIEW THE FOLLOWING CHECKLIST:

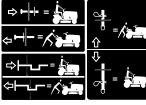
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged.
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- 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.





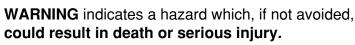
FREE WHEEL (Automatic Models only)



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.





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.

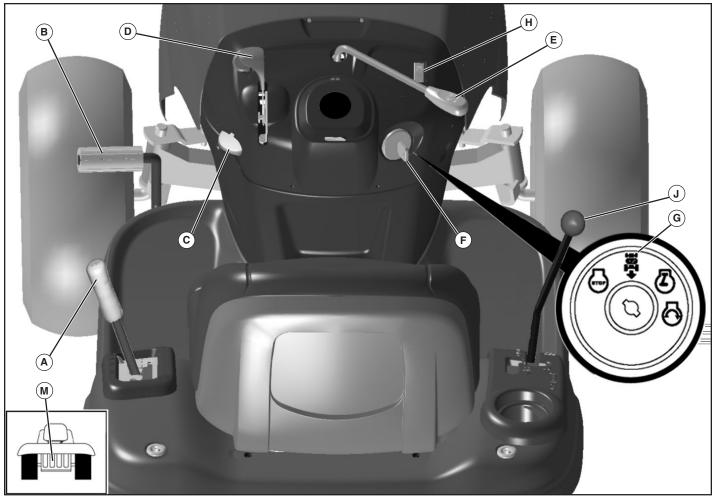


FIG. 5

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

(A) ATTACHMENT LIFT LEVER – Used to raise and lower the mower or other attachments mounted to your tractor.
(B) CLUTCH/BRAKE PEDAL – Used for braking the tractor and starting the engine.

(C) PARKING BRAKE – Locks clutch/brake pedal into the brake position.

(D) THROTTLE CONTROL – Used to control engine speed.
 (E) ATTACHMENT CLUTCH LEVER – Used to engage the mower blades, or other attachments mounted to your tractor.
 (F) IGNITION SWITCH – Used for starting and stopping the engine.

(G) REVERSE OPERATION SYSTEM (ROS) "ON" POSITION – Allows operation of mower or other powered attachment

Allows operation of mower or other powered attachment while in reverse.
 (H) LIGHT SWITCH – Turns the headlights on and off

(H) LIGHT SWITCH – Turns the headlights on and off. (J) MOTION CONTROL LEVER – Selects the speed and direction of tractor.

(M) FREEWHEEL CONTROL – Disengages transmission for pushing or slowly towing the tractor with the engine off.
 (N) CHOKE CONTROL - Used when starting a cold engine.

WEAR YOUR
SAFETY GLASSES
FORESIGHT IS BETTER THAN NO SIGHT

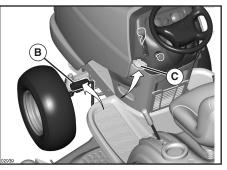
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 6)

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

- 1. Depress clutch/brake pedal (B) all the way down and hold.
- 2. Pull parking brake lever (C) up and hold, release pressure from clutch/brake pedal (B), then release parking brake lever. Pedal should remain in brake position. Make sure parking brake will hold tractor secure.

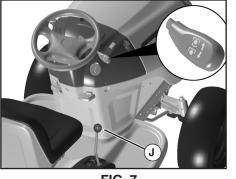




STOPPING

MOWER BLADES -

 To stop mower blades, move attachment clutch lever to disengaged position (m).



(****) Attachment Clutch Engage Position

GROUND DRIVE -

- To stop ground drive, depress clutch/brake pedal all the way down.
- Move motion control lever (J) to neutral position.

ENGINE -

 Move throttle control (D) 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".

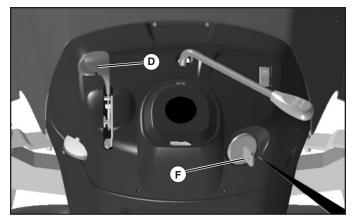
- Turn ignition key (F) to "STOP" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

IMPORTANT: Leaving the ignition switch in any position other than "STOP" will cause the battery to discharge and go 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 USE THROTTLE CONTROL - D (See Fig. 8)

Always operate engine at full speed (fast).

- Operating engine at less than full speed (fast) reduces engines operating efficiency.
- Full speed (fast) offers the best bagging and mower performance.

TO MOVE FORWARD AND BACKWARD (See Fig. 9)

The direction and speed of movement is controlled by the motion control lever. $\left(J\right)$

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

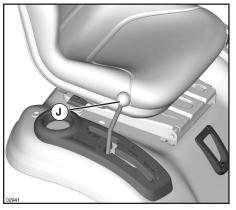


FIG. 9

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 10)

The position of the attachment lift lever (A) determines the cutting height.

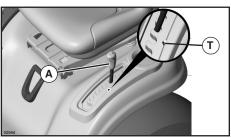


FIG. 10

- Put attachment lift lever in desired cutting height slot.
- Slide pointer tab (T) to desired cutting height as a reminder for next time you mow.

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

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

TO ADJUST GAUGE WHEELS (See Fig. 11)

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

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

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in this section of manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole. Tighten securely.
- Repeat for all, installing gauge wheel in same adjustment hole.

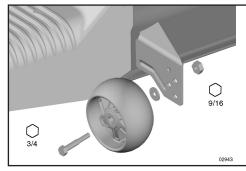


FIG. 11

TO OPERATE MOWER

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 with attachment lift lever.
- 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 (S) in place.

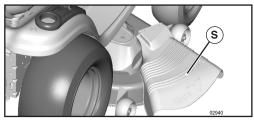


FIG. 12

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.

WARNING: 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 -

Only use if you are certain no children or other bystanders will enter the mowing area.

- Move motion control lever to neutral (N) position.
- With engine running, turn ignition key counterclockwise to ROS "ON" position.
- Look down and behind before and while 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)





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TO OPERATE ON HILLS



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

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

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

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

TO TRANSPORT (See Figs. 5 and 13)

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

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

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

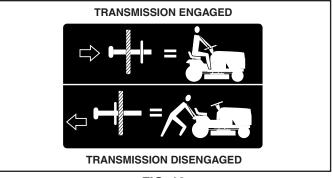


FIG. 13

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. 5)

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

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

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

AUTOMATIC TRANSMISSION WARM UP

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

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

PURGE TRANSMISSION



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

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

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

- Place tractor safely on 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. 14).

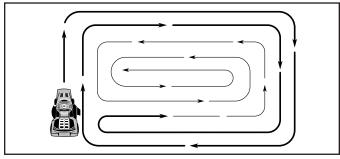


FIG. 14

- 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. 15). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

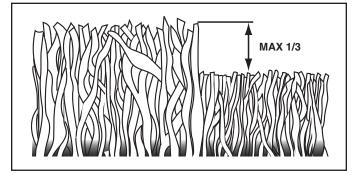


FIG. 15

- 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	~	~					
$ _{\tau}$	Check Tire Pressure	/	/					
ľĸ	Check Operator Presence & ROS Systems							
	Check for Loose Fasteners	/						
I C	Check/Replace Mower Blades			✔3				
Т	Lubrication Chart			/				V
0	Check Battery Level			4				
R	Clean Battery and Terminals			 ✓ 				V
	Check Transaxle Cooling			V				
	Check Mower Levelness				/			
	Check V-Belts							
Γ	Check Engine Oil Level	V	~					
	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			-	~			
Ň	Replace Oil Filter (If equipped)					1,2		
	Clean Engine Cooling Fins					2		
	Replace Spark Plug					/		
	Replace Air Filter Paper Cartridge					V 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.

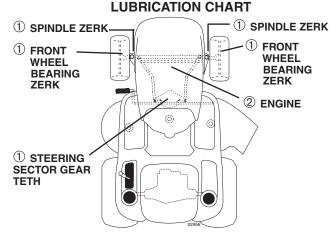
At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

• 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.



- ① General Purpose Grease
- 2 Refer 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 SHORTENTHE 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 serviced. (See "TO CHECK BRAKE" in the Service and Adjustments section of this manual).

TIRES

- Maintain proper air pressure in all tires (See PSI on tires).
- 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.

ROS "ON" POSITION





ENGINE "ON" POSITION (NORMAL OPERATING)

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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.

BLADE CARE

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



CAUTION: Use only a replacement blade approved by the manufacturer of your tractor. Using a blade not approved by the manufacturer of your tractor is hazardous, could damage your tractor and void your warranty.

BLADE REMOVAL (See Fig. 16)

• Raise mower to highest position to allow access to blades.

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

- Remove blade bolt by turning counterclockwise.
- Install new blade with stamped "GRASS SIDE" facing the ground.

IMPORTANT: To ensure proper assembly, center hole in blade must align with star on mandrel assembly.

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

IMPORTANT: Special blade bolt is heat treated.

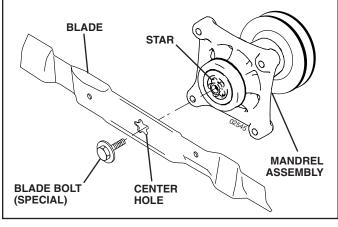


FIG. 16

BATTERY

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

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

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

TO CLEAN BATTERY AND TERMINALS

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

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

V-BELTS

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

TRANSAXLE COOLING

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

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

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

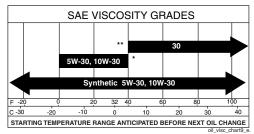
TRANSAXLE PUMP FLUID

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

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification 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.



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

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



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

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

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

TO CHANGE ENGINE OIL (See Figs. 17 and 18)

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.

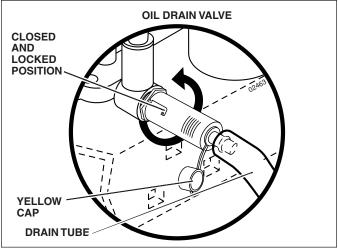


FIG. 18

- 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.

FIG. 17

- 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.

AIR FILTER (See Fig. 19)

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.

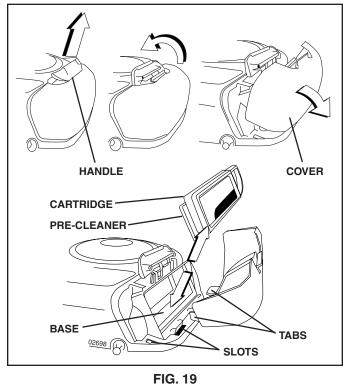
Service air cleaner more often under dusty conditions.

- 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.



ENGINE OIL FILTER

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

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

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. 20)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

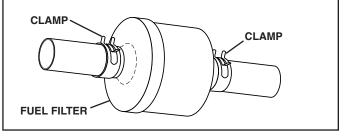


FIG. 20

CLEANING

19

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

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



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

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

TRACTOR

TO REMOVE MOWER (See Fig. 21)

- Place attachment clutch in "DISENGAGED" position.
- Lower attachment lift lever to its lowest position.
- Roll belt off engine pulley (M).
- Remove retainer spring (K), slide collar (L) off and push housing guide (P) out of bracket.
- Remove clutch cable spring (Q) from idler arm (R).
- Disconnect front link (E) from mower remove retainer spring and washer.
- Go to either side of mower and disconnect mower suspension arm (A) from chassis pin (B) and rear lift link (C) from rear mower bracket (D) - remove retainer springs and washers.
- Go to other side of mower and disconnect the suspension arm and rear lift link.



CAUTION: After rear lift links are disconnected, the attachment lift lever will be spring loaded. Have a tight grip on lift lever when changing position of the lever.

• Slide mower out from under right side of tractor.

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front link (E) and rear lift liks (C) from tractor.

TO INSTALL MOWER (See Figs. 22–25)

Be sure tractor is on level surface and engage parking brake.

• Lower attachment lift lever to it's lowest position.



CAUTION: Lift lever is spring loaded. Have a tight grip on lift lever, lower it slowly and engage in lowest position.

NOTE: Be sure mower side suspension arms (A) are pointing forward before sliding mower under tractor.

- Slide mower under tractor until it is centered under tractor.
- ATTACH MOWER SIDE SUSPENSION ARMS (A) TO CHASSIS - Position hole in arm over pin (B) on outside of tractor chassis and secure with washer and retainer spring.
- Repeat on opposite side of tractor.

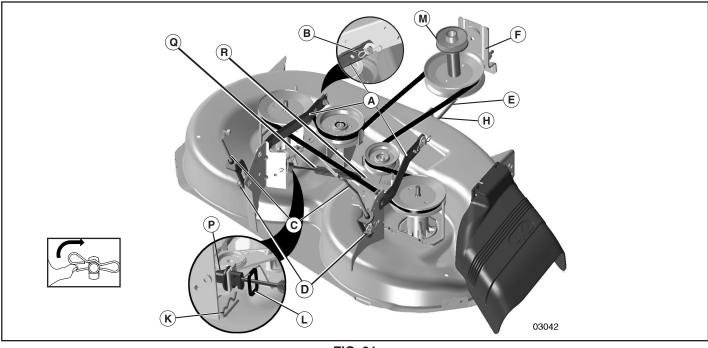


FIG. 21

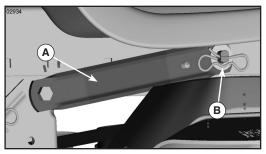


FIG. 22

- ATTACH REAR LIFT LINKS (C) Lift rear corner of mower and position slot in link assembly over pin on rear mower bracket (D) and secure with washer and retainer spring.
- Repeat on opposite side of tractor.

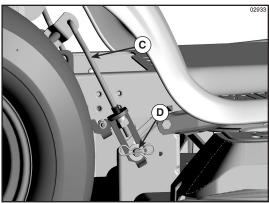


FIG. 23

- ATTACH FRONT LINK (E) Work from left side of tractor. Insert rod end of link assembly through front hole in tractor front suspension bracket (F).
- Insert end of link (E) into hole in front mower bracket (H) and secure with washer and retainer spring (J).

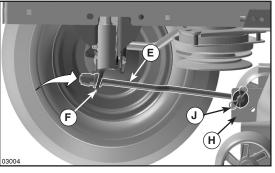


FIG. 24

- Push clutch cable housing guide (P) into bracket, slide collar (L) onto guide and secure with retainer spring (K).
- Hook end of clutch cable spring (Q) into hole in idler arm (R).
- Install belt onto engine pulley (M).

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



FIG. 25

- Raise attachment lift lever to highest position.
- If necessary, adjust gauge wheels before operating mower as shown in the Operation section of this manual.

TO LEVEL MOWER

Make sure tires are properly inflated to the PSI shown on tires. If tires are over or under inflated, it may affect the appearance of your lawn and lead you to think the mower is not adjusted properly.

VISUAL SIDE-TO-SIDE ADJUSTMENT (See Fig. 26)

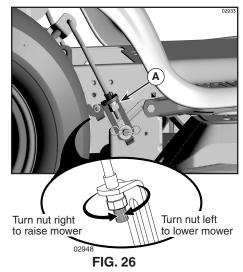
• With all tires properly inflated and if your lawn appears unevenly cut, determine which side of mower is cutting lower.

NOTE: As desired, you can raise the low side of mower or lower the high side.

- Go to side of mower you wish to adjust.
- With a 3/4" or adjustable wrench, turn lift link adjustment nut (A) to the left to lower the mower, or, to the right to raise the mower.

NOTE: Each full turn of adjustment nut will change mower height about 3/16".

• Test your adjustment by mowing some uncut grass and visually checking the appearance. Readjust, if necessary, until you are satisfied with the results.



PRECISION SIDE-TO-SIDE ADJUSTMENT

(See Fig. 27)

• With all tires properly inflated, park tractor on level ground or driveway.



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

- Raise mower to its highest position.
- At both sides of mower, position blade at side and measure the distance (A) from bottom edge of blade to the ground. The distance should be the same on both sides.
- If adjustment is necessary, see steps in Visual Adjustment instructions above.
- Recheck measurements, adjust if necessary until both sides are equal.

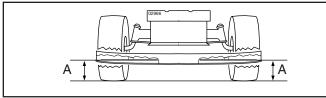


FIG. 27

FRONT-TO-BACK ADJUSTMENT (See Figs. 28 and 29) **IMPORTANT:** Deck must be level side-to-side.

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



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

- Raise mower to highest position.
- Position any blade so the tip is pointing straight forward. Measure distance (B) to the ground at front and rear tip of the blade.
- If front tip of blade is not 1/8" to 1/2" lower than the rear tip, go to the front of tractor.
- With an 11/16" or adjustable wrench, loosen jam nut A several turns to clear adjustment nut B.
- With a 3/4" or adjustable wrench, turn front link adjustment nut (B) clockwise (tighten) to raise the front of mower, or, counterclockwise (loosen) to lower the front mower.

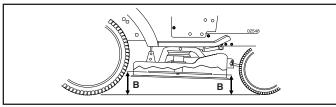
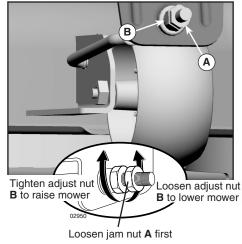


FIG. 28

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

- Recheck measurements, adjust if necessary until front tip of blade is 1/8" to 1/2" lower than the rear tip.
- Hold adjustment nut in position with wrench and tighten jam nut securely against adjustment nut.





TO REPLACE MOWER DRIVE BELT

(See Fig. 30)

MOWER DRIVE BELT REMOVAL

- Park tractor on a level surface. Engage parking brake.
- Lower attachment lift lever to its lowest position.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Remove belt from electric clutch pulley (M), both mandrel pulleys (R) and all idler pulleys (S).

MOWER DRIVE BELT INSTALLATION

- Install belt around all mandrel pulleys (R) and around idler pulleys (S) as shown.
- Install belt onto electric clutch pulley (M).

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

Raise attachment lift lever to highest position.

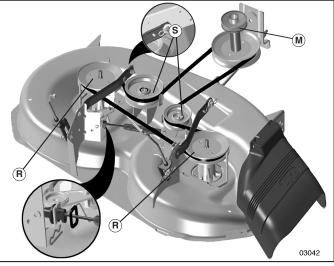


FIG. 30

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 clutch/brake pedal all the way down and engage parking brake.
- Disengage transmission by placing freewheel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged position.

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, then the brake needs to be serviced. Contact a Sears or other qualified service center.

TO REPLACE MOTION DRIVE BELT (See Fig. 31)

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 (A) and clutching idler (B).
- Remove belt from centerspan idler (C).
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle input pulley (D).
- Remove belt downward from engine pulley (E).
- Slide belt toward rear of tractor, off the steering plate (F) and remove from tractor.

BELT INSTALLATION -

- Install new belt from tractor rear to front, over the steering plate (F) and above clutch brake pedal shaft (G).
- Pull belt toward front of tractor and roll belt onto engine pulley (E).
- Pull belt toward rear of tractor. Carefully work belt down around transaxle input pulley (D). Be sure belt is inside the belt keeper.
- Install belt on centerspan idler (C).
- Install belt through stationary idler (A) and clutching idler (B).
- Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- Install mower (See "TO INSTALL MOWER" in this section of manual).

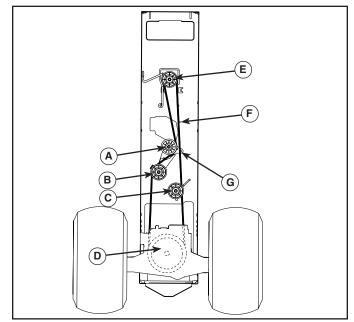


FIG. 31

FRONT WHEEL TOE-IN/CAMBER

Your new tractor front wheel toe-in and camber is set at the factory and is normal. The front wheel toe-in and camber are not adjustable. If damage has occurred to affect the factory set front wheel toe-in or camber, contact a qualified service center.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 32)

- 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.

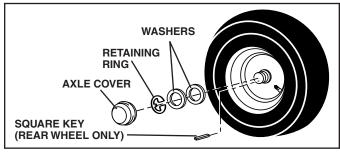


FIG. 32

TO START ENGINE WITH A WEAK BATTERY (See Fig. 33)



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.

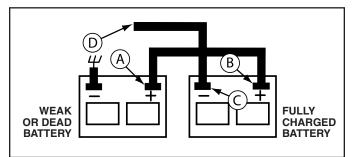


FIG. 33

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. 34)

Raise hood.

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

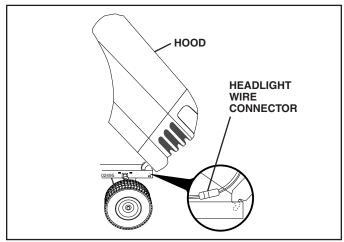


FIG. 34

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 35)

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.

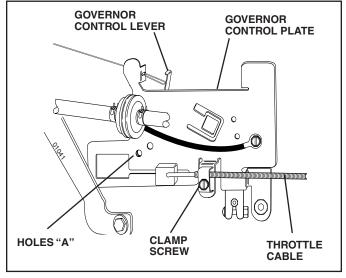


FIG. 35

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 MOIST URE 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. Weak or dead battery. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Recharge or replace battery. 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 start1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment.8. 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 1. Brake pedal not depressed. 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es).		 Depress brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department. 		
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter. 		
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. 	 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 vibration1. 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

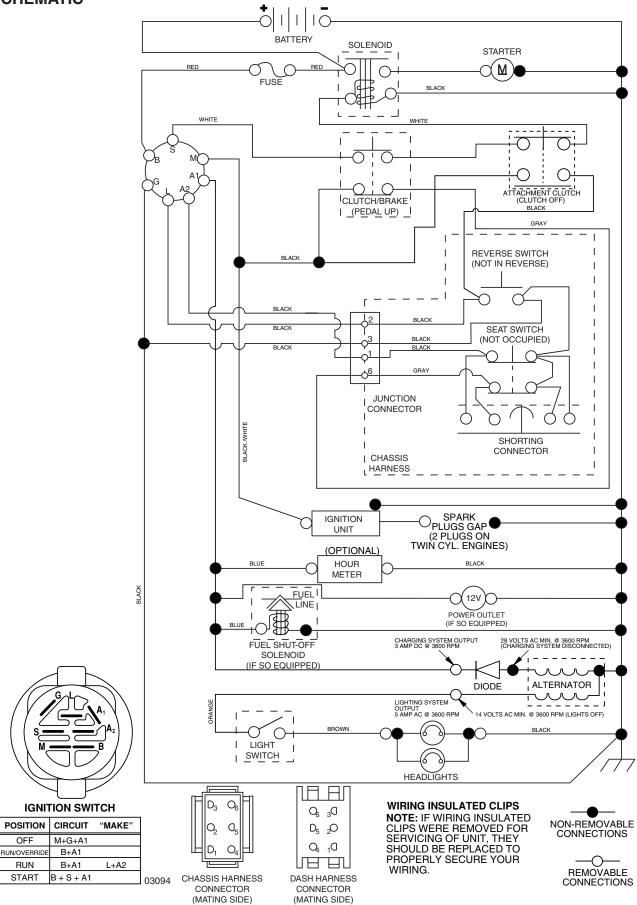
PROBLEM	CAUSE	CORRECTION		
Engine dies when tractor is shifted into reverse	 Reverse operation system (ROS) is not "ON" while mower or other attachment is engaged. 	 Turn ignition key to ROS "ON" position. See Operation section. 		
Engine continues to run when operator leaves seat with attachment clutch 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 rotate1. Obstruction in clutch mechanism. 2. Worn/damaged mower drive belt. 3. Frozen idler pulley. 4. 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 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 drive1. Freewheel control in "disengaged" position.2. Motion drive belt worn, damaged, or broken.3. 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 944.606681

SCHEMATIC

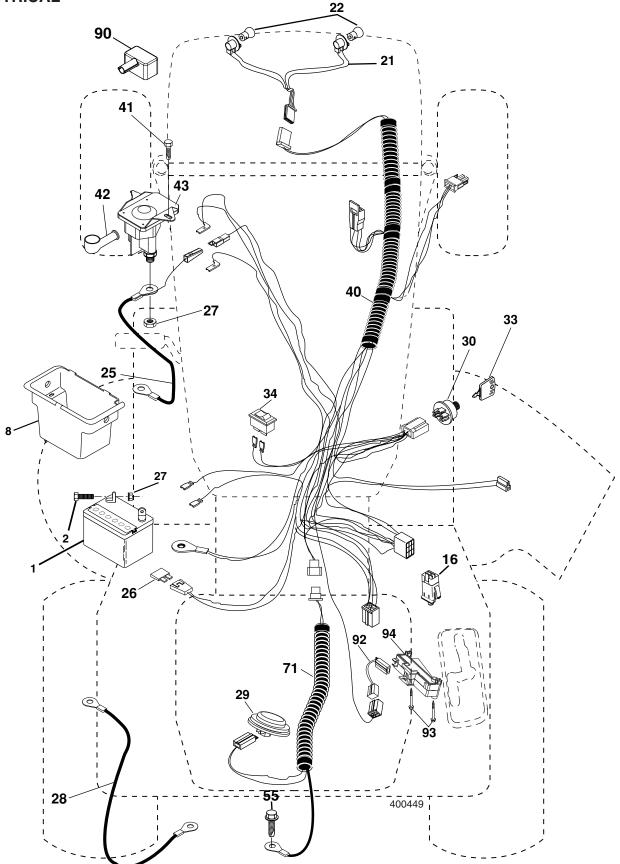
OFF

RUN



TRACTOR - - MODEL NUMBER 944.606681

ELECTRICAL



TRACTOR - - MODEL NUMBER 944.606681

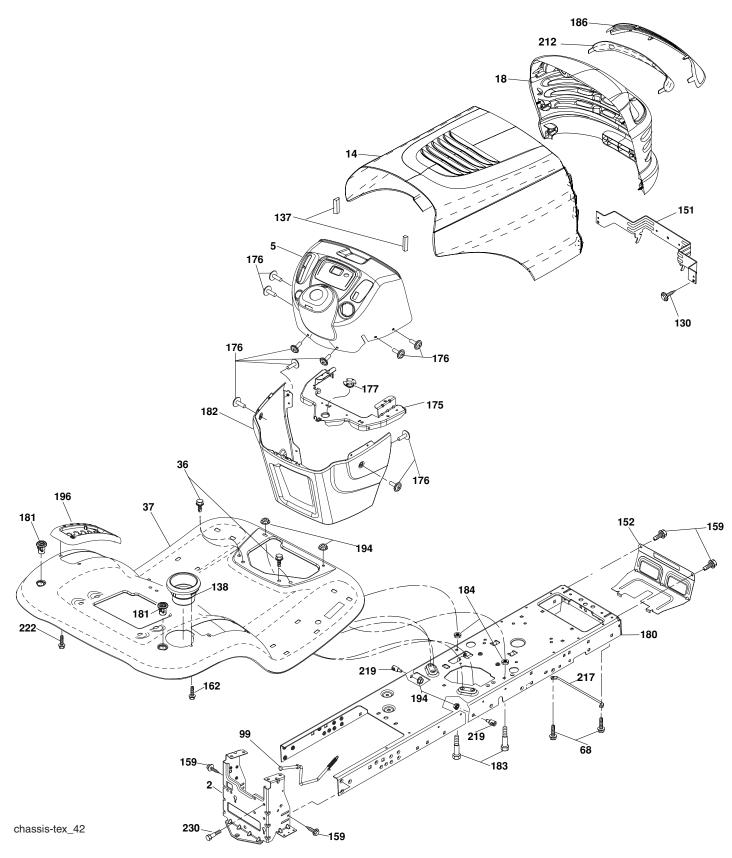
ELECTRICAL

KEY NO.		DESCRIPTION
28 29 30 33 34 40 41 42 43 55 71 90 92 93	4152J 401662 175158 73510400 198885 192749 193350 140403 110712X 400449 17720408 131563 192507 17490512 400451 400725 196615 192540	Battery Bolt Hex Head 1/4-20 x 3/4 Box Battery Switch Interlock Push-In Harness Socket Light Bulb Light Cable Starter Fuse Nut Keps Hex 1/4-20 unc Cable, Ground Switch, Seat Switch, Ign Key, Ignition Switch Light / Reset Harness Ign. Screw Thd Cut 1/4-20 x 1/2 Cover, Terminal Solenoid Screw Thdrol 5/16-18 x 3/4 TYTT Harness Ign. Dash Cover Terminal Battery Harness Pigtail Screw Plastite 10-14 x 2.0
94	191834	Module Reverse ROS

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

TRACTOR - - MODEL NUMBER 944.606681

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TRACTOR - - MODEL NUMBER 944.606681

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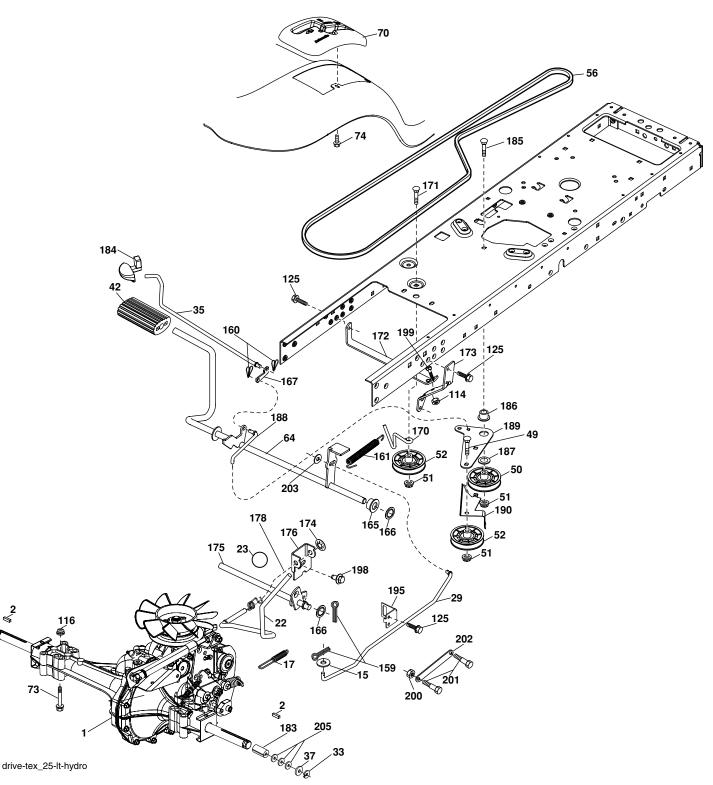
KEY PART NO. NO. DESCRIPTION	
2 194263 Drawbar	
5 197783X428 Dash 14 185682X613 Hood	
14 185682X613 Hood 18 193258 Grille	
36 17060512 Screw 5/16-18 x 3/4	
37 193218X613 Fender	
68 17490508 Screw THDROL 5/16-18 x 1	/2
99 401530 Rod Bypass Asm	
130 191611 Screw 10 x 3/4 Single Lead	-Hex
137 184921 Bumper Hood	
138 193224X428 Cupholder	
151 174714 Bracket Pivot	
152 194329 Shield Browning/Debris	0/4
159 17000612 Screw Hexwsh Thdrol 3/8-16 162 142432 Screw Hex Wsh Hi-Lo 1/4 x 1	
175 193243 Crossmember	
176 400776 Screw 10-24 x 5/8 Wshd Qo	drx
177 195228 Bushing Steering	
180 194260 Chassis	
181 193102X428 Bushing Mtg. Fender Crgo.	
182 193057 Dash Lower	
183 74780520 Bolt Fin Hex 5/16-18 x 1-1/4	1
184 195780 Spacer Fender	
186 174332X599 Lens, Clear, Bar	
191 175143 Insert, Lens, Reflecting 194 73900500 Nut Lock Hex Flange 5/16-1	0
194 73900500 Nut Lock Hex Flange 5/16-1 196 196378X428 Console Asm. Deck Lift	0
217 156524 Rod Pivot Chassis	
219 195161 Stud Fastener	
222 137729 Screw Thd Roll 1/4-20 x 5/8	5
230 170165 Bolt Shoulder 5/16-18	

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

TRACTOR - - MODEL NUMBER 944.606681

DRIVE

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TRACTOR - - MODEL NUMBER 944.606681

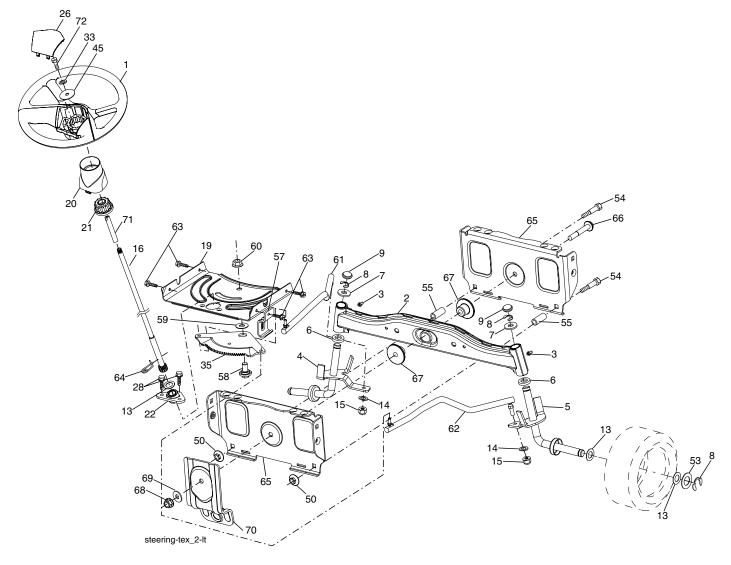
DRIVE

KEY NO.	PART NO.	DESCRIPTION
	NO. 123583X 19131316 197296 197660 130564 197659 12000001 197722 121749X 8883R 72110614 194327 73900600 194326 140218 196200 193220X428 74490544 142432 73800500 73900500 17000512 76020412 169484 195403 196212 197290 196211 194322 72110616 197655 197289	Transaxle, Hydro 351-0510 (See transaxle breakdown) Key Washer 13/32 x 13/16 x 16 Ga. Spring, Brake Rod Shift Knob Deluxe Rod, Brake Ring E Rod, Brake, Park Washer 25/32 x 1-1/4 x 16 Ga. Cover, Foot Pedal Bolt Pulley Idler Flat Lock Nut 3/8-16 Idler V-Groove 910" Offset V-Belt, Drive Shaft Asm. Pedal Brake Control
202 203 205	197714 19111116 121748X	Link Trans Washer 11/32 x 11/16 x 16 Ga. Washer 25/32 x 1-5/8 x 16 Ga.

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

TRACTOR - - MODEL NUMBER 944.606681

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.606681

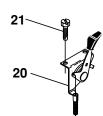
STEERING ASSEMBLY

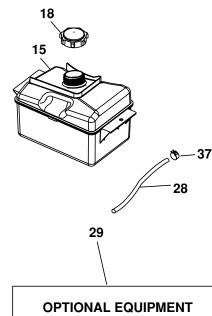
1 186780 Wheel, Steering 2 195968 Axle Asm., Front 4 403087 Spindle Asm., LH 5 403088 Spindle Asm., RH 6 6266H Bearing, Race Thrust Harden 7 121748X Washer 25/32 x 1-5/8 x 16 Ga. 8 12000029 Ring, Klip #T5304-75 9 184946X505 Cap, Spindle 13 121749X Washer 25/32 x 1-1/4 x 16 Ga. 14 10040600 Washer, Lock Hvy HIcl Spr 3/8 15 73540600 Nut, Crown Lock 3/8-24 unf 16 196074 Shaft Steering	KEY NO.	PART NO.	DESCRIPTION
19 194729 Plate Steering 20 198375X428 Boot, Steering 21 186737 Adapter, Wheel Steering 22 194845 Bushing, Strg. Blk 26 186781 Insert, Wheel Steering 28 17000612 Screw 3/8-16 x 3/4 33 10040500 Washer, Lock, Helical Spring 5/16 35 194732 Gear, Sector Plate 45 19113812 Washer 11/32 x 2-3/8 OD x 12 Ga. 50 73900600 Nut Lock 3/8-16 unc 53 188967 Washer Hardened 54 74760636 Bolt Hex 3/8-16 unc x 2-1/4 55 197636 Spacer Brace Axle 57 197246 Bracket Upstop 58 194747 Bolt Shoulder Sector Pivot CFM 59 194748 Washer Thrust Sector Steering 60 73971000 Nut Flange Lock 5/8-11 61 194740 Draglink LH 62 194741 Draglink, RH 63 17000512 Screw 5/16-18 x 3/4 64 199849 Retainer Clip Spring Steering <	$\begin{array}{c}1\\2\\4\\5\\6\\7\\8\\9\\13\\14\\15\\16\\19\\20\\21\\22\\6\\28\\33\\5\\45\\57\\58\\59\\60\\1\\62\\63\\64\\65\\66\\70\\71\end{array}$	186780 195968 403087 403088 6266H 121748X 12000029 184946X505 121749X 10040600 73540600 196074 194729 198375X428 186737 194845 186781 17000612 10040500 194732 19113812 73900600 188967 74760636 197636 197246 194747 194748 73971000 184747 194748 73971000 194740 194741 17000512 199849 194734 71020748 194737 73900700 199162 196075	Wheel, Steering Axle Asm., Front Spindle Asm., LH Spindle Asm., RH Bearing, Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring, Klip #T5304-75 Cap, Spindle Washer 25/32 x 1-1/4 x 16 Ga. Washer, Lock Hvy HIcl Spr 3/8 Nut, Crown Lock 3/8-24 unf Shaft Steering Plate Steering Boot, Steering Adapter, Wheel Steering Bushing, Strg. Blk Insert, Wheel Steering Screw 3/8-16 x 3/4 Washer, Lock, Helical Spring 5/16 Gear, Sector Plate Washer, Lock, Helical Spring 5/16 Gear, Sector Plate Washer 11/32 x 2-3/8 OD x 12 Ga. Nut Lock 3/8-16 unc Washer Hardened Bolt Hex 3/8-16 unc x 2-1/4 Spacer Brace Axle Bracket Upstop Bolt Shoulder Sector Pivot CFM Washer Thrust Sector Steering Nut Flange Lock 5/8-11 Draglink, RH Screw 5/16-18 x 3/4 Retainer Clip Spring Steering Brace Axle Front Bolt Hex Fghd 7/16-14 x 3 Serr Bushing PM Front Axle Nut Lock Flange 7/16-14 Gr. 5 Washer 1.5 x .505 x .118 Bracket Deck Susp. Front

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

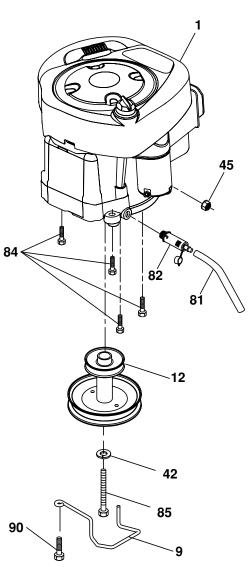
TRACTOR - - MODEL NUMBER 944.606681

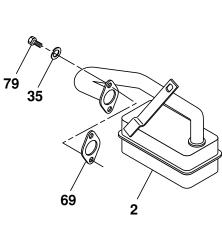
ENGINE

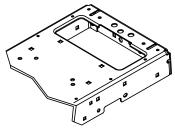




Spark Arrester







engine-bs-1cyl-tex_4

KEY NO.	PART NO.	DESCRIPTION
NO.	NO.	DESCRIPTION
1		Engine Briggs & Stratton Model No. 31P777-0602-E2 (See breakdown)
2	137352	Muffler
9	194319	Keeper Belt Engine
12	401985	Pulley Engine
15	197766	Tank Fuel
18	197725	Cap Asm
20	176636X428	Control Throttle
21	191611	Screw 10 x 3/4 Single Lead-Hex
28	137040	Fuel Line
29	137180	Spark Arrester Kit
35	10010500	Washer, Split
37	123487X	Clamp Hose

KEY NO.	PART NO.	DESCRIPTION
42 45	10040700 73510400	Washer Lock 7/16
45 69	165291	Nut Keps Hex 1/4-20 unc Gasket
79	192334	Screw Socket Head 5/16-18 x .75
81	148456	Tube Drain Oil Easy
82	181654	Plug Drain Oil
84	17060620	Screw 3/8-16 x 1-1/4
85	173937	Bolt Hex 7/16-20 x 4 x Gr. 5-1.5
90	17060616	Screw 3/8-16 x 1

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

TRACTOR - - MODEL NUMBER 944.606681

MOWER LIFT

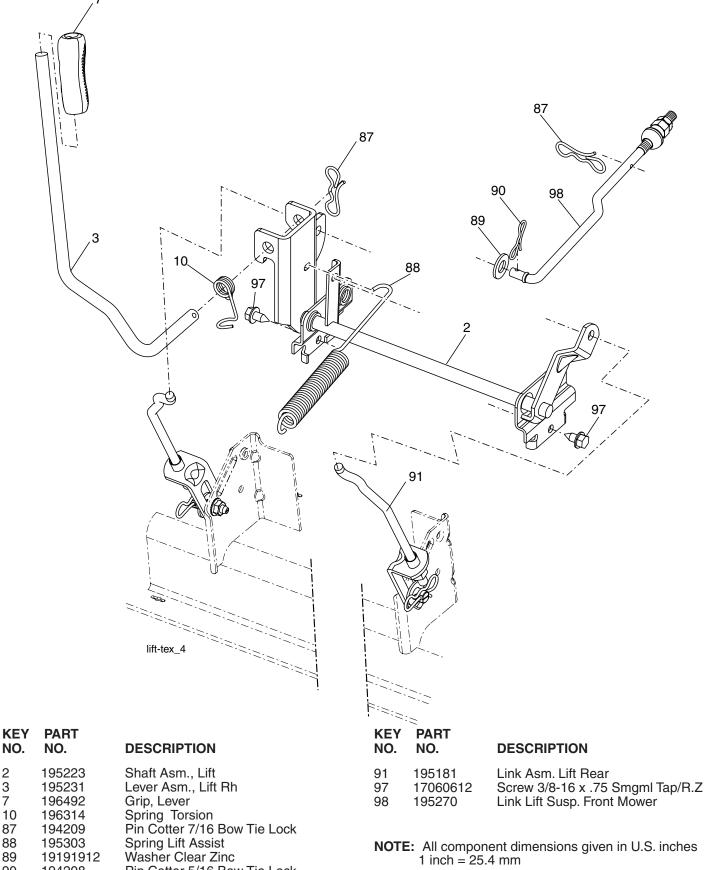
89

90

19191912

194208

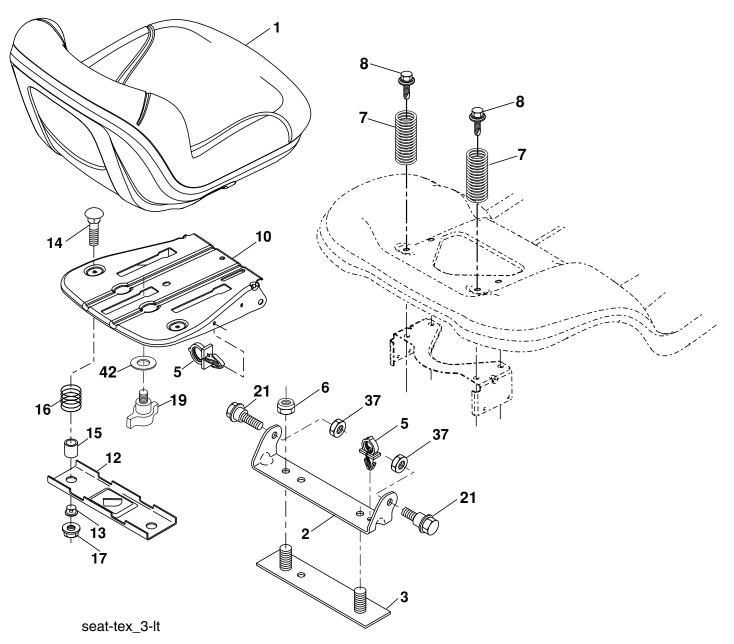
Pin Cotter 5/16 Bow Tie Lock



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

TRACTOR - - MODEL NUMBER 944.606681

SEAT ASSEMBLY



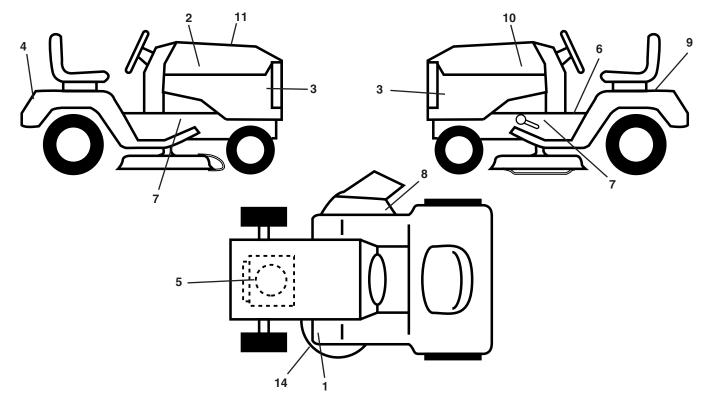
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DE
1 2 3 5 6 7 8	197516 180166 140675 145006 73800600 124181X 171877	Seat Bracket Pivot Fender Strap, Asm Fender Clip, Push In, Hinged Nut, Lock W/Ins. 3/8-16 unc Spring, Seat Cprsn Bolt 5/16-18 uncx 3/4 w/Sems	15 16 17 19 21 37 42	134300 123740X 123976X 199372 171852 73800500 199371	Spa Spi Nut Bol Nut Wa
10 12 13 14	199180 199370 121248X 72050412	Pan, Seat Bracket Mnt Opc Seat Bushing Snap Bolt Rdhd Sh Nk 1/4-20 x 1-1/2	NOTE	E: All compor 1 inch = 25	nent c 5.4 mi

	NO	••	DESCRIPTION	
15134300Spacer Split .28 x .9616123740XSpring17123976XNut Lock 1/4 Lrg Flg Gr. 519199372Knob Seat21171852Bolt, Shoulder 5/16-183773800500Nut, Lock 5/16-18 unc42199371Washer	123 123 199 171 738	3740X 3976X 9372 1852 800500	Spring Nut Lock 1/4 Lrg Flg Gr. 5 Knob Seat Bolt, Shoulder 5/16-18 Nut, Lock 5/16-18 unc	

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

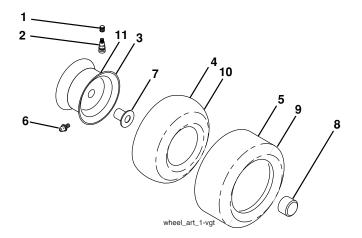
TRACTOR - - MODEL NUMBER 944.606681

DECALS



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	199135	Decal, Mower V-Belt Sch	10	401125	Decal, Hood, LH
2	401124	Decal, Hood, RH	11	405123	Decal, Replacement
3	401128	Decal, Side Panel	14	160396	Decal, Mower Schematic
4	401127	Decal, Fender		193227X428	Pad, Footrest, RH
5	191777	Decal, Engine		166960	Decal, Bypass
6	199114	Decal, Fender Operator's		193226X428	Pad, Footrest, LH
7	191551	Decal, Chas 18 B&S		405997	Manual, Owner's English
8	170563	Decal, Warning		405998	Manual, Owner's French
9	149517	Decal, Battery Dnge/Poi			

WHEELS AND TIRES

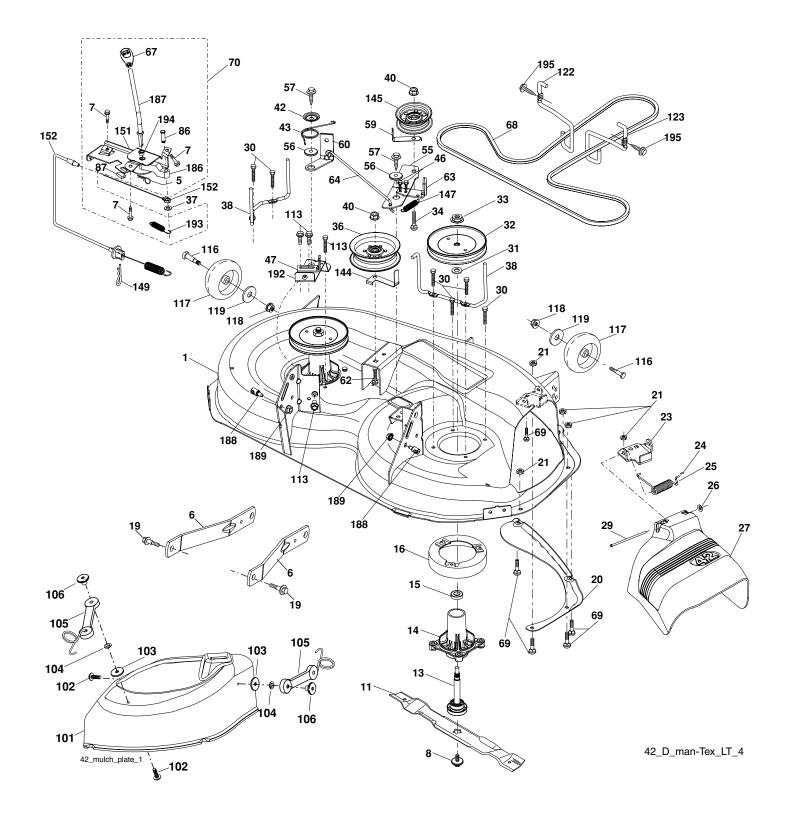


PART NO.	DESCRIPTION
59192	Cap, Valve, Tire
	Stem, Valve
106732X645	Rim Assembly, Front
59904	Tube, Front
106222X	Tire, Front
278H	Fitting, Grease
9040H	Bearing, Flange
104757X645	Cap, Axle (Front Wheel Only)
138468	Tire, Rear
7152J	Tube, Rear
106108X645	Rim Assembly, Rear
144334	Sealant, Tire (10 oz. Tube)
	NO. 59192 65139 106732X645 59904 106222X 278H 9040H 104757X645 138468 7152J 106108X645

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

TRACTOR - - MODEL NUMBER 944.606681

MOWER DECK

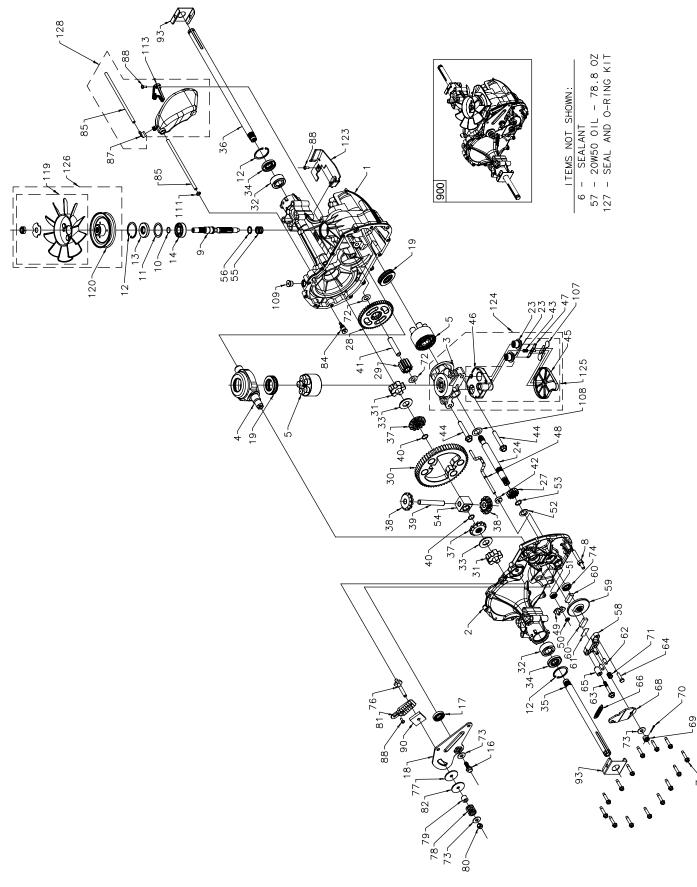


TRACTOR - - MODEL NUMBER 944.606681

MOWER DECK

KEY PART KEY PART NO. NO. DESCRIPTION NO. NO. DESCRIPTION	
1 196495 Deck Weldment Mower 63 199477 Arm Brake Mower	
5 4939M Retainer Spring 64 199790 Link Brake Asm	
6 195186 Arm Suspension 67 198398X505 Handle Clutch Cable	
7 191611 Screw 10 x 3/4 Single Lead Hex 68 197253 V-Belt	
8 193003 Bolt/Washer asm 7/16-20 unf 69 72140505 Bolt	
11 138971 Blade, 42" Hi-Lift 70 198332 Clutch Asm Manual	
(For bagging or discharge) 86 197798 Pin Attachment Cable	`
134149 Blade, 42" Mulching Std 87 197802 Switch Interlock Clutc	
(For mulching movers only) 101 193107 Cover Mulching	IT Cable
139775 Blade, 42" Mulching Premium (For 102 71081010 Screw Pan Hd Phillips	$\sim 10.24 \times 5/9$
better wear when mulching) 103 19061216 Washer #10	5 TU-24 X J/0
13 192872 Shaft Assembly, Mandrel 104 1007100 Washer Lock #10	
14 187281 Housing, Mandrel 105 160793 Latch Asm	
15 110485X Bearing, Ball, Mandrel 106 2029J Nut Weld .327304 #	10.24
16 174493 Stripper, Mower Deck 113 17000510 Bolt 5/16-18	10-24
19 196539 Bolt, Shoulder 116 4898H Bolt, Shoulder	
20 159770 Baffle, Vortex 117 188606 Wheel, Gauge	
21 73680500 Nut, Crownlock 5/16-18 unc 118 73930600 Nut, Crownlock 3/8-1	
23 192557 Bracket, Deflector 119 19121414 Washer 13/32 x 7/8 x	
24 105304X Cap, Sleeve 122 197258 Keeper Belt Engine L	
25 197026 Spring, Torsion, Deflector 123 197259 Keeper Belt Engine F	11 2 L
26 110452X Nut, Push 144 199204 Keeper Belt	
27 193108X428 Shield, Deflector 145 193197 Pulley Idler	
29 131491 Rod, Hinge 147 401971 Spring Return	
30 173984 Screw Thdrol Rolling Wsh Hd 149 165898 Retainer Spring	
31 187690 Washer, Spacer 151 198331 Bracket Clutch	
32 197473 Pulley, Mandrel 152 197257 Manual Clutch Cable	
33 400234 Nut, Toplock, Flanged 186 197799 Arm Actuator	
34 72110612 Bolt Carr Sh. 3/8-16 x 1-1/2 Gr. 5 187 197800 Lever Control	
36 197379 Pulley, Idler, Flat 188 195161 Stud Fastener	
37 19131316 Washer 189 73900500 Nut Lock Hex Flange	
38 199189 Keeper Belt LH Mandrel 192 197260 Bracket Brake Stand	LH
40 73900600 Nut, Lock Flg. 3/8-16 unc 193 197801 Spring Plunger Activa	
42 198410 Spring Torsion Brake 194 197797 Bearing Control Leve	
43 197256 Spring Torsion Retainer 195 17000612 Screw Hex Wsh Thdr	
46 137729 Screw Thd Roll 1/4-20 x 5/8 192870 Mandrel Assembly (Ir	
47 197250 Bracket Clutch Cable housing, shaft and sh	
55 197249 Arm, Idler only-pulley not includ	
56 199092 Spacer, Retainer 405126 Replacement Mower,	
57 17000616 Screw 3/8-16 x 1	
50 141042 Guard Tuy Idlar	all Cinches
59141043Guald, fuv fileNOTE: All component dimensions given in60197261Arm Brake Mower1 inch = 25.4 mm	10.5. Inches
62 72110616 Bolt Rd Hd Sq Nk 3/8-16 unc x 2	

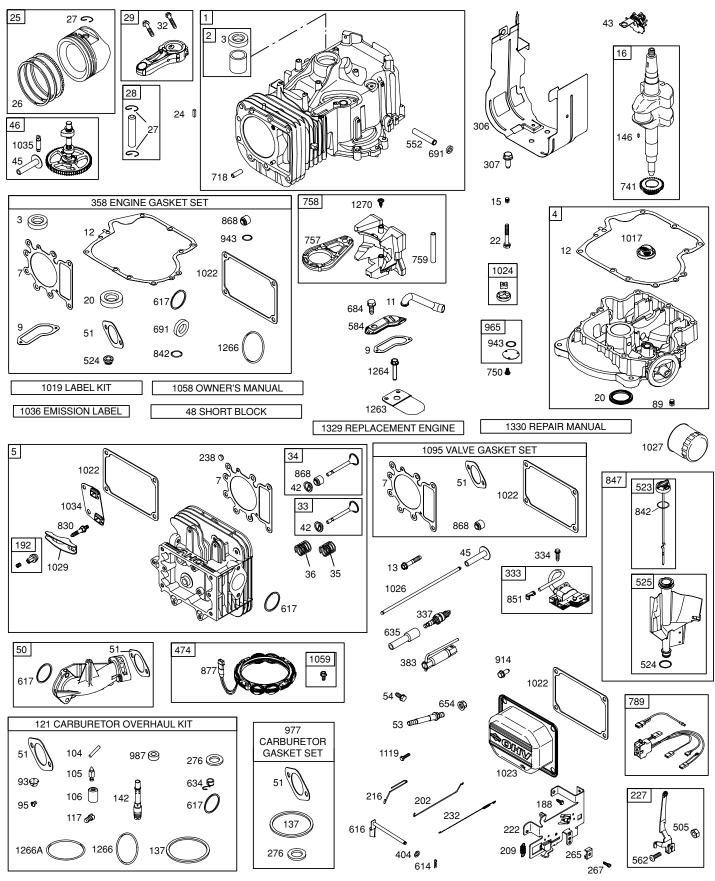
TRACTOR - - MODEL NUMBER 944.606681 HYDRO TRANSAXLE - - MODEL NUMBER 351-0510



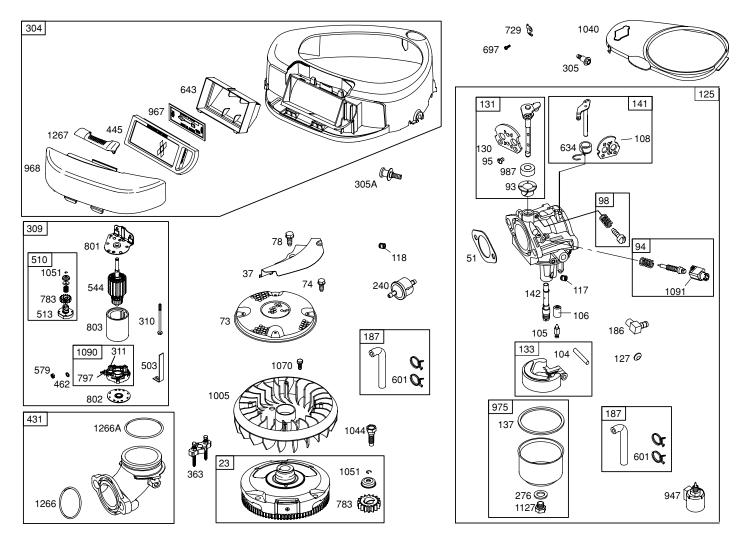
TRACTOR - - MODEL NUMBER 944.606681 HYDRO TRANSAXLE - - MODEL NUMBER 351-0510

1 170351 Kit Main Housing Bushing d65 X 365 X 700 68 401663 And pation BH And pation Bis 44 2 170352 Kit Side Housing, Machined Bushing d65 X, 365 X 700 71 71 File File File File File File File File		/ PART NO.	DESCRIPTION		' PART NO.	DESCRIPTION
Main Housing, Machined 66 170415 Nut, Castle 5/16-24 2 17035 Kult, Denker 325-X44 Parke Spring 77 3 17035 Kult, Center 326-X44 Parke Spring 77 3 17035 Kult, Center 326-X44 Parke Spring 77 4 170416 Parke Spring 78 12048 Washer, Flat 5 17035 Kult, Center 326-X44 Parket Spring 77 17042 Parket Spring 6 17035 Kult, Center 326-X44 Parket Spring 77 17042 Parket Spring 7 17045 Nult, Nyer Insert Hex Lock 5/16-24 Parket Spring 77 17042 Parket Spring 77 8 17045 Nult, Nyer Insert Hex Lock 5/16-24 Parket Spring 77 17042 Parket Spring 77 170417 170417 170417 170417 170417	1	170351	Kit Main Housing			
2 170352 Kit, Side Housing, Machined 71 17041 Brake Spring 3 170353 Kit, Centre Section, Machined 72 170419 Washer (310-0750) 4 17044 Washer (310-0750) Washer (310-0750) 5 170453 Status (710-07450) Washer (310-0750) 6 170420 Assy Chack Plug Bolt, Stud (516-24) 9 170420 Bolt, Stud (516-24) Bolt, Stud (516-24) 170420 Assy Chack Plug (516-24) Bolt, Stud (516-24) 170430 Bolt, Stud (516-24) Bolt, Stud (516-24) 170430 Bolt, Stud (516-24) Bolt, Stud (516-24) 170430 Bolt, Stud (516-24) Bolt, Stud (516-24) <td></td> <td>170001</td> <td></td> <td></td> <td></td> <td></td>		170001				
Slide Housing, Machined 72 170418 Washer, Flat 3 17053 Kit, Cerlier Section 73 170420 Sect., Orb., Plug 4 170543 Cerlier Section, Machined 76 170421 Sect., Orb., Plug 5 16999 Kit, Cerlier Section 76 170421 Sect., Orb., Plug 5 16999 Kit, Cerlier Section 71 170422 Puck, Friction 6 170325 Swashpitat. Funnion Machined 71 170423 Sect., Orb., Funnion Machined 6 16004. Cylinder 16107 16007 Puck, Friction 7 170325 Media, Finzition 82 170424 Clip, Washer 7 170356 Hoxtange Screw 1/4-20 X1.25 87 401264 Cap. Bandor Wick 170357 Puck, Inner Wedge 701743 Sect., Finzition 701743 170358 Shati, Input 90 170439 Puck, Inner Wedge 170359 Relating Bring 170743 Puck, Inner Wedge 170359 R	~	170050				
Bushing, 865 X, 965 X, 760 73 14284 Washer, Flat 3 17053 Rector Section, Machined 75 17049 Seal, Oliphical 4 170254 Systephilas, Turnion Machined 76 170422 Park, Flotton 5 169898 Systephilas, Turnion Machined 77 14280 Spacer 6 170254 Systephilas, Turnion Machined 78 14280 Spacer 7 170422 Park, Flotton Spring, Compression 81 170424 City, Washer 7 17022 Math, M. Friction 82 170424 City, Washer 7 170255 Seaferi Trust 84 170425 Spring Cip, Housing 10 170357 Shati, Input 90 170358 Spring Cip, Housing 11 170369 Spacer 107 170425 Defactor 11 170369 Spring Cip, Housing 111 170439 Spring Cip, Housing 11 170369 Spacer 107 115	2	170352	Side Housing			Brake Spring Washer (310-0750)
3 170433 KiL, Geriter Section, Machined 75 170420 Ass'y Check Plug 4 170354 Sweinpron, Turgen Machined 76 170421 Bolt, Stud 5/16-24 5 16998 KiL, Oyinder Plack, Friction Puck, Friction Puck, Friction 6 170423 Sele, Friction 80 150778 Nut, Nyon Insert Hex Lock 5/16-24 7 170423 Medge, Friction 80 150778 Nut, Nyon Insert Hex Lock 5/16-24 7 170423 Medge, Friction 80 150778 Nut, Nyon Insert Hex Lock 5/16-24 7 170423 Medge, Friction 80 150778 Nut, Nyon Insert Hex Lock 5/16-24 7 170354 Bealing Fing 81 170423 Defect 60 170359 Bealing Fing 81 170423 Defect 60 170423 Defect 170359 Beal, Lip GY, Max 2, 27 108 170433 Defect 16 170433 Defect 16 170433 Defect 16 170443 Defect			Bushing .865 X .985 X .790			
Center Section, Machined 76 170422 Boll, 'Stud' Stricton 4 170325 Puck, Friction 5 169998 Marking AVX, 788 X, 591 77 6 170325 Puck, Friction 7 142808 Spring 8 170422 Wedge, Friction 8 170423 Wedge, Friction 8 170425 Filing, 5/16-24 9 170357 Stud, 5/16-24 Hex Double End 84 9 170358 Shaft, Input 90 9 170358 Shaft, Input 91 10 170357 Stud, 5/16-24 Hex Double End 88 170433 11 170438 Belaining Ring 93 170433 Spring Clop Relaining Bing 11 170358 Bearing, Bal 2603 (BDR) 111 170434 Plug, Straph Trance J(16 × 1.15 × 0.25 13 170361 Seal, Lip, 67 × 1.58 × 2.75 109 170434 Plug, Straph Trance J(16 × 1.16 × 1.15 × 0.25 14 177158 Bearing, Bal 2603 (BDR) 111	0	170252				
Bushing. 707 X.788 X.591 77 7	3	170355				
5 169898 Kit, Cylinder Block, LOCC) Block - Cylinder Piston Spring, Compression Spring, Compression Spring, Compression Spring, Compression Piston Spring, Compression Spring, Spring, Spring, Spring, Compression Spring, Spring, Spring, Compression Spring, Spring, Spring, Spring, Spring, Compression Spring, Spring, Sp			Bushing .707 X .788 X .591	77	170422	Puck, Friction
Block - Cylinder 80 15077 91 170423 Wuck Jylon Insert Hex Lock 5/16-24 9 ration Wardge, Friction 170423 Wedge, Friction Clip, Weathing as 5/22 Tube 7 170356 Hextlange Screw 1/4-20 X 1.25 87 401264 Cap, Barbed Vent 170357 Stati, Input 90 170349 Spring Clip, Housing 170358 Shark, Input 90 170349 Spring Clip, Housing 170358 Shark, Input 90 170349 Spring Clip, Housing 170358 Spring Clip, Housing 170349 Spring Clip, Housing 170358 Sealu, I. Ox 7.158 X.276 109 170343 Washer, More Shart, 71d X 1.150D X.03 Thick 170359 Sealu, I. Ox 7.158 X.276 109 170343 Washer, More Shart, 71d X 1.150D X.03 Thick 170355 Facker, Support Expansion Tank Kii, Formation Shart, 71d X 1.150D X.03 Thick 111 170356 Check Plug Assembly Hark Clock ANut 1/2.20 (Nykoin Insert) Washer 170357 Gear, Finiton, 13T 123 170345 Stati X.84 (Gingen Lip)						Spring
Piston 81 170423 Wedge, Frition 6 178322 Clip, Washer Clip, Washer 7 170365 Steel (1742) Filling, 516 X Sare 5/32 Tube 8 170375 Stud, 516-24 Hex Double End 87 701264 9 170358 Shatt, Input 90 170367 10 170357 Stud, 516-24 Hex Double End 87 701264 10 170359 Retaining Fing 90 170433 Delfector 11 170350 Space 100 170433 Orthog Puck, Innor Wedge 11 170350 Bearing, Bit 203 (BDF) 111 170433 Orthog, 7X 301 ID The Altor 115 ID 11 170356 Seal L, ID 87 X 1.58 X.276 113 170437 Branker, Nut Thread 216-18 170367 Stad, Kar Dorthol 112 170435 Branker, Nut Thread 216-18 170368 Seal L, ID 87 X 1.58 X.275 113 170437 Branker, Nut Thread 216-18 170369 Gear, Pinion, 137 120 170440	0	100000				
Washer Thrust 84 170425 Fitting, S16 X Sae 5/32 Tube 7 170356 HextRinge Screw 1/4-20 X 1.25 87 401264 Cap, Barded Vent 1 170357 Stud, S16 Z Hext Double End 93 170411 Double End 93 1 170358 Retaining Ring 93 170431 Deflector 1 170358 Seal, Lp 17 X 1.55 X 2.76 108 170433 Deflector 1 170358 Bearing, Bail 6203 (BDP) 111 170435 Orting, 7X, 301 ID 1 170358 Bearing, Bail 6203 (BDP) 111 170435 Orting, 7X, 301 ID 1 170358 Bearing, Trust (10co) Tits 72, 72, 72 119 Trust 72, 74, 301 ID 24 170366 Check Plug Assembly Washer - Nut Tits 72, 72, 72 119 Trust 72, 74, 73, 73, 73, 73, 73, 73, 73, 73, 74, 72, 74, 74, 74, 74, 74, 74, 74, 74, 74, 74						
6 173322 Sealant Tube 85 170426 Hosa Hosa <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
8 170357 Stud, 5/16:24 Hex Double End 98 172354 Böll, Sell Tapping (BDP) 9 170359 Retaining Ring 93 170434 Puck, Inner Wedge 10 170359 Retaining Ring 93 170434 Deflector 11 170360 Puck, Inner Wedge Deflector Pug. Straight Medge 12 168870 Retaining Ring 108 170433 Washer, Motor Shaft, Job X.03 Thick 12 168870 Retaining Ring 108 170434 Washer, Nut (Padge 14 170356 Seal, Lip IS X 32 X 113 170357 Bracket, Support Expansion Tank 16 170358 Bearing, Trust (10co) Hex Lock Nut 1/2-20 (Nylon Insert) Washer, Nut 1/2-20 (Nylon Insert) 21 170366 Gran, Pince 137 120 170444 Keeper 21 170358 Bearing, Stat, Xie Keeper 118 191031 119 21 170359 Gran, Pince 137 175 X 1.57 X .625 Ease Filter W Poppet 21 To339 Shaft, Aick			Sealant Tube			
9 170358 Shaft, Input 90 170430 Puck, Inner Wedge 11 170350 Spacer 107 Spacer 107 11 170350 Spacer 107 170430 Puck, Inner Wedge 12 158970 File Jost Spring Clip, Nussing Washer, Motor Shaft, 71 id X 1.15OD X.03 Thick 13 170361 Seal, Lip, 67 X.158 D.276 109 170432 Washer, Motor Shaft, 71 id X 1.15OD X.03 Thick 14 170363 Seal, Lip, 16 X.22 X.77 119 170430 Puck, Inner Wedge 170430 14 170363 Seal, Lip, 16 X.22 X.77 110 170430 Puck, Inner Wedge 170430 170376 Bearing, Thrust (10cc) 111 170434 Puley 17047 Bearing, Thrust (10cc) 119 120 17044 Puley 17047 Bearing, Thrust (10cc) 120 17044 Puley 124 17044 Kit, Center Section Filter Bypass Center Section Filter Bypass Center Section Filter Bypass 126 17036 170430 Puley 124 17044 Kit, Filter 17047 Nome <td></td> <td></td> <td>Hexflange Screw 1/4-20 X 1.25</td> <td></td> <td></td> <td></td>			Hexflange Screw 1/4-20 X 1.25			
10 170359 Retaining Ring 93 170431 Spacer 12 169870 Retaining Ring 107 170432 Deflector 14 170363 Seal, Lp 16 X 1.58 X.276 108 170433 Deflector 14 170363 Seal, Lp 18 X 32 X 7 119 170433 Bracket, Support Expansion Tank 170365 Check Plug Assembly 111 170435 Bracket, Support Expansion Tank 24 170365 Check Plug Assembly Fair, Tin 120 170447 24 170365 Check Plug Assembly Fair, Tin 123 401265 Bel Keeper 27 170366 Gaar, 107 Jackshaft 120 170444 Kit, Center Section Machining 29 170369 Gear, 107 Jackshaft 124 170444 Kit, Center Section Machining 31 170387 Steeve Bearing .75 X 1.75 X .625 Steeve Bearing .75 X 1.75 X .625 Steeve Bearing .75 X 1.75 X .625 31 Haysher Nate (Spinded) Base Filter W Poppet 34 170393 Retaining Ring Spring, Byaas Actuator, Byaas 34						
12 169870 Retaining Ring 108 170431 Washer, Motor Shaft. 71id X 1.150D X.03 Thick 14 173158 Bearing, Ball 6203 (BDR) 111 170434 Plug, Straight Thread 91/6-16 17 170363 Seal, Lip 18 X 32 X 7 113 170437 Bracket, Support Expansion Tank 17 170363 Seal, Lip 18 X 32 X 7 113 170437 Bracket, Support Expansion Tank 17 170363 Seal, Lip 18 X 32 X 7 119 191031 Kit, Fan - Washer - Nut 18 Tro366 Sheft Meig Seemby 120 170440 Hax Elano, Thurus (10cc) 27 170367 Gear, Prinon, 13T 120 170440 Kit, Center Section Machining 29 170369 Gear, 107 Jackshaft 124 170444 Kit, Center Section Machining 30 107 (487 Gear 124 170444 Kit, Center Section Machining Base Filter W Poppet 31 170397 Shaft Ave (Keyed, I.H.) Base Filter W Poppet Check Plug Assembly, 0.27 Washer Spring, Bypass 34 170391 Shaft Ave (Keyed, I.H.) Base, Filter W Poppet Spring, Hile Gear Spring, Hile Ge			Retaining Ring	93	170431	Spring Clip, Housing
13 170361 Seal, Lip, 67 X, 158 X, 276 109 170436 Orting, 7X, 301 ID 14 173158 Bearing, 7X, 301 ID Bracket, Support Expansion Tank 16 170362 Hex Flange Head Screw 1/4-20 X 1.25 113 170435 Orting, 7X, 301 ID 18 170365 Seal, Lip, 74X, 301 ID Bracket, Support Expansion Tank Hit, 170435 21 170365 Shaft Motor 120 170440 Pulge, Straight Thread 9/16-18 21 170365 Shaft Motor 120 170440 Washer, Or Slotted, .53 X 1.53 X .06 21 170365 Gear, Pinion, 13T 123 401265 Belt Keeper 21 170370 GOT Bullgear 124 170440 Pulge, Straight Habridge 21 170386 Gore Rearing, 75 X 1.75 X .625 Staft Motor Check Plug Assembly, .027 Washer 21 170399 Soleta, Kle (Keyed, I, H.) Staft Ake (Keyed, I, H.) Staft Ake (Keyed, I, H.) Staft Ake (Keyed, I, H.) 26 170391 Shaft Ake (Keyed, I, H.) Staft Ake (Keyed, I, H.) Staft Ake (Keyed, I, H.) Staft Ake (Keyed, I, H.) 27 170397 S				107	170432	
14 173158 Bearing, Ball £020 (BDR) 111 111 170435 O-ring, 7. X. 301 ID 17 170563 Seal, Lip 18 X 32 X 7 113 170437 Bracket, Support Expansion Tank 17 170563 Seal, Lip 18 X 32 X 7 113 170437 Bracket, Support Expansion Tank 18 170366 Check Plug Assembly 119 101 X 1/2-20 (Nylon Insert) 24 170366 Shaft Motor 120 170446 Six 1.63 X .06 24 170366 Gear, Finion, 13T 123 401265 Belt Keeper 28 170361 Or Bulgear Exclon Matchining Base Filter W/ Poppet 24 170370 Or Bulgear Check Plug Assembly, .027 Washer Check Plug Assembly, .027 Washer 21 170370 Up Seal, Avie (Keyed, R.H.) Base Filter W/ Poppet Check Plug Assembly, .027 Washer 24 170395 Shaft, Avie (Keyed, R.H.) Bottom, Filter Bushing, .707 X .788 X .591 34 170396 Miter Gear (Sprined) Base, Filter W/ Poppet String, Pupass 34 170396 Base, Filter Base, Filter W/ Poppet String, Pupass		170361	Seal. Lip .67 X 1.58 X .276			
17 170363 Seal, Lip 18 X 28 X 7 119 191031 Kit, Fan - Washer - Nut 18 170364 Arm, Control Fan, 7 in 19 173159 Bearing, Thrust (10cc) Washer, O' Slotted, .53 X 1.63 X .06 24 170365 Check Plug Assembly Washer, O' Slotted, .53 X 1.63 X .06 24 170369 Gear, 101, Jackshaft 120 170440 Pulley 27 170370 GOT Bulgear 124 170444 Kit, Center Section Machining 30 170370 GOT Bulgear 124 170444 Kit, Center Section Machining 31 170370 GOT Bulgear Spring, Bypass Check Plug Assembly, 0.27 Washer 31 170381 Uphaca Arie Shaft Spring, Bypass Actuator, Bypass 34 170393 Retaining Ring Bottom, Filter Bottom, Filter 39 150809 Differential Shaft (310-0750) Base, Filter Bottom, Filter 31 170393 Retaining Ring Spring, Bypass Actuator, Bypass 41 170398 Base, Filter Base, Filter Base, Filter Base, Filter Withog, Sprin			Bearing, Ball 6203 (BDR)			O-ring .7 X .301 ID
18 170364 Arm, Control Fan, 7 in 19 17355 Bearing, Thrust (10cc) Hex Lock Nut 1/2-20 (Nylon Insert) 23 170365 Check Plug Assembly Washer, Or Slotted, .53 X 1.63 X .06 27 170366 Shaft Motor 120 170444 Kit, Center Section Filter Bypass 29 170369 Gear, 10T Jackshaft 124 170444 Kit, Center Section Machining 29 170370 Goff Bullgear 124 170444 Kit, Center Section Filter Bypass 21 170389 Sleeve Bearing, 7.5 X 1.57 X 1.57 X 5.25 Enter W-Poppet Check Plug Assembly, Washer 31 170391 Shaft, Axle (Keyed, R.H.) Bata, Keyed, R.H.) Bottom, Filter 37 170393 Bealt, Axle (Keyed, L.H.) Bottom, Filter Bottom, Filter 31 170394 Pin, Jackshaft Bottom, Filter Bottom, Filter 31 170395 Magner, King Bata, Filter W-Poppet Spring, Bypass 31 170396 Bata, Filter Bata, Filter W-Poppet Spring, Bypass 31 170497 Bata, Filter W-Poppet Kit, Eranpuiley						
23 170365 Check Plug Assembly Washer, Or. Stotted, .53 X 1.63 X .06 27 170366 Shaft Motor 120 170440 27 170367 Gear, Fhrion, 13T 123 401265 28 170369 Gear, 10T Jackshaft 124 170440 29 170369 Gear, 10T Jackshaft 24 170440 21 170371 Sleeve Bearing (Outboard) .75 X 1.575 X .625 Check Plug Assembly, .027 Washer 31 170391 Shaft, Avle (Keyed, R.H.) Base Filter W Poppet 35 170391 Shaft, Avle (Keyed, I.H.) Basesimbly Bushing, .707 X .788 X .591 34 101394 Phi, Jackshaft Bushing, .707 X .788 X .591 Bushing, .707 X .788 X .591 36 1070337 Retaining Ring Bushing, .707 X .788 X .591 Bushing, .707 X .788 X .591 37 170385 Spring, Bypass Deflector Bushing, .707 X .788 X .591 37 170386 Spring, Bypass Deflector Bushing, .707 X .788 X .591 37 170386 Spring, Bypass Deflector Spring, Bypass 37 Pulley Hiter <	18	170364	Arm, Control	110	101001	Fan, 7 In
24 170366 Shaft Motor 120 170440 Fulley 27 170376 Gear, Philon, 137 123 401265 Belt Keeper 28 170366 Gora, 107 Jackshaft 124 170440 Fulley Center Section Machining 30 170370 60T Bullgear 124 170440 Fulley Center Section Machining 31 170371 Sleeve Bearing, 75 X 1.75 X .625 Check Plug Assembly, Washer Base Filter W Poppet 31 170390 Lip Seal, Ake (Keyed, R.H.) Bathing, Filter Spring, Bypass 34 170392 Shaft, Ake (Keyed, R.H.) Bushing, .707 X .788 X .591 35 170392 Shaft, Ake (Keyed, R.H.) Bushing, .707 X .788 X .591 36 170392 Shaft, Ake (Keyed, R.H.) Bushing, .707 X .788 X .591 37 170396 Diffector Bushing, .707 X .788 X .591 38 401261 Miter Gear Spring, Bypass 41 170394 Pin, Jackshaft Sae, Filter W Poppet 42 170396 Base, Filter M Poppaes Sae, Filter W Poppet 43 170398 Base						
27 170367 Gear, Pinion, 13T 123 401265 Beit Keeper 28 170369 Gear, 10T Jackshaft 124 10265 Beit Keeper 29 170370 Steve Bearing (Outboard), 75 X 1.75 X.625 Check Plug Assembly, 027 Washer 31 170371 Sleeve Bearing (Outboard), 75 X 1.57 X.625 Check Plug Assembly, 027 Washer 31 170391 Shaft, Axle (Keyed, R.H.) Deflector 35 170392 Shaft, Axle (Keyed, L.H.) Bottom, Filter 36 401260 Miter Gear 125 170445 37 170397 Bitferential Shaft (310-0750) 125 170445 Bottom, Filter 37 170398 Retaining Ring Bottom, Filter Butom, Filter Bottom, Filter 37 170396 Spring, Bypass Deflector Bustom, Filter Bottom, Filter 37 170397 Filter Hiter Bottom, Filter Bottom, Filter Bottom, Filter 37 170398 Spring, Bypass Deflector Base, Filter W/ Poppet Kit, Filter 41 170397 Filter Bottom, Filter	24	170366		120	170440	
29 170369 Gear. 10T Jackshaft Center Section Machining 31 170370 60T Bullgaar Base Filter W Poppet 31 170371 Sleeve Bearing (75 X 1.75 X .625 Check Plug Assembly. 027 Washer 32 170389 Sleeve Bearing (Outboard) .75 X 1.575 X .625 Check Plug Assembly. 027 Washer 34 170391 Shaft, Axle (Keyed, LH.) Deflector 35 170392 Shaft, Axle (Keyed, LH.) Deflector 36 170392 Shaft, Axle (Keyed, LH.) Butshing707 X .788 X.591 37 401261 Miter Gear Spring. Bypass 401261 Miter Gear Spring. Bypass 41 170394 Pin, Jackshaft Spring. Bypass 42 170395 Magnet, Ring Spring. Bypass 43 150797 Bolt 3/8-24 X 2-1/2 126 170446 44 150797 Bolt 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 45 170398 Base, Filter W Poppet 127 170446 Kit, Fan/pulley 46 170399 Actuator, Bypass Deflector Base, Filter W						Belt Keeper
3017037060T BullgearBase Filter W/ Popet31170370Sieeve Bearing (Outboard) .75 X 1.575 X.625Check Plug Assembly, 027 Washer32170389Sieeve Bearing (Outboard) .75 X 1.575 X.625Check Plug Assembly, 027 Washer3314291WasherSpring, Bypass34170390Lip Seal, Axle (Keyed, R.H.)Deflector37401260Miter Gear (Splined)Bushing, .707 X .788 X .59134401261Miter Gear12539150809Differential Shaft (310-0750)12531170394Pin, JackshaftSpring, Bypass41170394Pin, JackshaftSpring, Bypass41170397Bolton, FilterBoltorn, Filter30Base, Filter WPoppetKit, Filter, Poppet41170398Base, Filter WPoppet42170398Base, Filter WPoppet43170399Actuator, BypassDeflector44170397Beilter MWasher, OD Slotted, 53 X 1.63 X .0645170397Beilter MPoppet46170398Base, Filter W47170399Actuator, Bypass48170407Kit, Seal49196599Arm, Bypass41170407Kit, Seal4217038Seal, Lip, 741 X, 25 X, 2543170408Retaining Ring, Center Block4417047Kit, Seal45170405Retaining Ring, Center Block461428				124	170444	
32 170389 Sleeve Bearing (Outboard) .75 X 1.575 X .625 Check Plug Assembly, Washer 33 14291 Washer Spring, Bypass 34 170390 Lip Seal, Axle (Keyed, R.H.) Deflector 35 170391 Shaft, Axle (Keyed, R.H.) Bottorn, Filter 36 Miter Gear 150809 Differential Shaft (310-0750) Bushing, .707 X .788 X .591 36 101261 Miter Gear 125 170445 Kit, Filter 37 100393 Retaining Ring Spring, Bypass Deflector 37 170394 Pin, Jackshaft Spring, Bypass Deflector 37 170397 Filter Base, Filter Spring, Bypass 37 170397 Filter Base, Filter Washer, OD Slotted, .53 X 1.63 X .06 37 170398 Base, Filter Washer, Filtor .55 X 1.52 X .25 Uip Seal .70 X .301 ID 37 170409 Rottaining Ring .25 External 127 170447 Kit, Seal 37 170397 Filter Base, Filter .30 X .250 TC Lip Seal .706 X 1.58 X .250 TC 38 170409 Retaining Ring .25 E	30	170370	60T Bullgear			Base Filter W/ Poppet
33 142991 Washer Spring, Bypass 34 170390 Lip Seal, Axle Shaft Actuator, Bypass 35 170391 Shaft, Axle (Keyed, R.H.) Deflector 36 170392 Shaft, Axle (Keyed, R.H.) Deflector 37 401260 Miter Gear (Spined) Butting, 707 X. 788 X.591 38 401261 Miter Gear (Spined) Butting, 707 X. 788 X.591 39 150809 Differential Shaft (310-0750) Butting, 707 X. 788 X.591 40 170394 Pin, Jackshaft Spring, Bypass 41 170396 Spring, Bypass Deflector 42 170396 Spring, Bypass Deflector 44 15079 Boit 38-24 X 2-1/2 126 170446 Kit, Fan/pulley 45 170397 Filter Base, Filter Washer, OD Slotted, .53 X 1.63 X.06 47 170398 Base, Filter Statuator, Bypass 127 170447 Kit, Seal 48 170400 Rod, Bypass Actuator 127 170447 Kit, Seal Lip Seal, 74 X 2-52 51 170404 Washer, Fila 0.050"" (210-1000) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
34 170390 Lip Seal, Axle (Shaft Actuator, Bypass 36 170391 Shaft, Axle (Keyed, E.H.) Deflector 36 170392 Shaft, Axle (Keyed, E.H.) Deflector 37 401261 Miter Gear Butshing, 707 X.788 X.591 38 401261 Miter Gear Butshing, 707 X.788 X.591 39 150809 Differential Shaft (310-0750) 125 170445 Kit, Filter 30 170393 Retaining Ring Spring, Bypass Actuator, Bypass Actuator, Bypass 41 170396 Spring, Bypass Deflector Base, Filter W Poppet 41 150397 Filter Base, Filter W Poppet Hex Jam 1/20-20 (Nylon Inser) 45 170398 Base, Filter Washer, OD Slotted, .53 X 1.63 X.06 47 170398 Actuator, Bypass 127 170447 Kit, Seal 50 170400 Rotaining Ring.25 External 127 170447 Kit, Seal .67 X 1.58 X 276 51 170404 Washer, Block Thrust Lip Seal .67 X 1.58 X 275 .10 X 250 VC .10 X 250 VC .11 Space X 250 VC .11 Space X 250						
36 170392 Shafi, Axle (Kejved, L.H.) Bottom, Filter 37 401260 Miter Gear (Splined) Bushing, 707 X.788 X.591 38 401261 Miter Gear 125 170445 Kit, Filter 39 150809 Differential Shaft (310-0750) Bottom, Filter Bottom, Filter 41 170393 Retaining Ring Spring, Bypass Actuator, Bypass 42 170396 Spring, Bypass Deflector Base, Filter W/ Poppet 43 170396 Spring, Bypass Deflector Base, Filter W/ Poppet 44 150737 Bits Base, Filter W/ Poppet Hex Jam 1/20-20 (Nylon Inser) 45 170398 Actuator, Bypass Deflector Base, Filter W/ Poppet 47 170398 Actuator, Bypass Differential filter Washer, Flat 0.50°" 48 170400 Rod, Bypass Actuator Pulley Use Seal, Afr X 1.58 X 2.57 21 TO403 Retaining Ring Seaternal Lip Seal afr X 1.58 X 2.50 TC 170403 Retaining Ring Deflector Lip Seal .67 X 1.58 X 2.50 TC 21 TO404 Ba						Actuator, Bypass
37 401260 Miter Gear (Splined) Bushing707 X.788 X.591 38 401261 Miter Gear (Splined) Bushing707 X.788 X.591 39 150809 Differential Shaft (310-0750) 125 170445 Bottom, Filter 40 170393 Retaining Ring Spring. Bypass Actuator, Bypass Deflector 41 150797 Bolt 3/8-24 X 2-1/2 126 170446 Kit, Filter 44 150797 Bott 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 45 170398 Base, Filter Hex Jam 1/20-20 (Nylon Inser) 46 170398 Base, Filter Hex Jam 1/20-20 (Nylon Inser) 47 170399 Actuator, Bypass Hex Jam 1/20-20 (Nylon Inser) 48 170400 Rod, Bypass Actuator Pulley 49 196599 Arm, Bypass 127 170447 Kit, Seal 51 170402 Retaining Ring 25 X14 X25 X.25 51 170404 Washer, Flat 0.050" (210-1000) Lip Seal 1741 X.25 X.25 Lip Seal 1741 X.25 X.25 53 170404 Bearing, Center Block <td></td> <td></td> <td>Shaft, Axle (Keyed, R.H.) Shaft, Axle (Keyed, I.H.)</td> <td></td> <td></td> <td></td>			Shaft, Axle (Keyed, R.H.) Shaft, Axle (Keyed, I.H.)			
39 150809 Differential Shaft (310-0750) Bottom, Filter 40 170393 Retaining Ring Spring, Bypass 41 170394 Pin, Jackshaft Actuator, Bypass 42 170395 Spring, Bypass Deflector 43 170397 Bottom, Filter Base, Filter W/ Poppet 44 150797 Bott 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 45 170398 Base, Filter Base, Filter W/ Poppet Hex Jam 1/20-20 (Nylon Inser) 45 170399 Actuator, Bypass 127 170447 Kit, Seal 46 170400 Rod, Bypass Actuator Pulley Hex Jam 1/20-20 (Nylon Inser) 47 170399 Actuator, Bypass 127 170447 Kit, Seal 50 170400 Rod, Bypass Actuator 127 170447 Kit, Seal 51 170403 Seal, Lip, 741 X. 25 X. 25 Lip Seal .706 X 1.584 X. 25 Lip Seal .706 X 1.584 X. 25 51 170405 Retaining Ring Lip Seal .706 X 1.584 X. 25 Deflector 54 170406 Retaining Ring Lip Seal .625	37	401260	Miter Gear (Splined)			
40 170393 Retaining Ring Spring, Bypass 41 170394 Pin, Jackshaft Actuator, Bypass 42 170395 Magnet, Ring Deflector 43 170397 Bolt 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 44 15077 Bolt 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 45 170399 Actuator, Bypass Base, Filter W Poppet 46 170399 Actuator, Bypass Base, Filter W Poppet 47 170399 Actuator, Bypass Paint 48 170400 Rod, Bypass Actuator Fan, 7 In 49 196599 Arm, Bypass Pulley 49 196599 Arm, Bypass 127 170447 50 170402 Retaining Ring .25 External Lip Seal .67 X 1.58 X .276 Lip Seal .76 X 1.58 X .255 51 170403 Seal, Lip .741 X .25 X .25 Lip Seal .76 X 1.58 X .255 Lip Seal .76 X 1.58 X .255 52 170404 Washer, Fild Compression Lip Seal .76 X 1.58 X .255 Lip Seal .76 X 1.58 X .255 54 142977 Washer, Block T				125	170445	
41 170394 Pin, Jackishaft Actuator, Bypass 42 170396 Spring, Bypass Deflector 43 170397 Bolt 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 44 150797 Bolt 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 45 170398 Base, Filter Washer, OD Slotted, .53 X 1.63 X .06 47 170399 Actuator, Bypass Fan, 7 In 48 170400 Rod, Bypass Actuator Pulley 49 196599 Arm, Bypass 127 170447 Kit, Seal 50 170402 Retaining Ring 127 170447 Kit, Seal 51 170403 Seal, Lip, 741 X .25 X .25 Lip Seal .67 X 1.58 X .276 Lip Seal .67 X 1.58 X .276 51 170404 Washer, Flat 0.050 ^{mm} (210-1000) Lip Seal .706 X 1.584 X .25 Lip Seal .706 X 1.584 X .25 53 170406 Bearing, Center Block Oli Seal .625 X 1.0 X .25 Oli Seal .625 X 1.0 X .25 54 170408 Rotor, Brake Deflector Seal .42 Seal .42 Seal .42 Seal .42 Seal .42 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
43 170396 Spring, Bypass Base, Filter W/ Poppet 44 150797 Bolt 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 45 170398 Base, Filter Hex Jam 1/20-20 (Nylon Inser) 46 170398 Base, Filter Washer, OD Slotted, .53 X 1.63 X .06 47 170399 Actuator, Bypass Fan, 7 In 48 170400 Rod, Bypass Actuator Pulley 49 196599 Arm, Bypass 127 170447 50 170402 Retaining Ring, 25 External Lip Seal .67 X 1.58 X .276 51 170403 Seal, Lip .741 X .25 X .25 Lip Seal .706 X 1.584 X .25 53 170405 Retaining Ring Lip Seal .706 X 1.584 X .25 54 170406 Bearing, Center Block Orring .07 X .301 ID 55 142977 Spring, Helical Compression Orring .07 X .301 ID 56 142978 Washer, Block Thrust 128 401266 Kit, Expansion Tank 59 170408 Rotor, Brake Boit, Self Tapping 10-32 X 1/2 Bracket, Support Expansion Tank 59 170408 Rotor, Bra			Pin, Jackshaft			Actuator, Bypass
44 150797 Bolt 3/8-24 X 2-1/2 126 170446 Kit, Fan/pulley 45 170397 Filter Hex Jam 1/20-20 (Nylon Inser) 46 170398 Base, Filter Washer, OD Slotted, .53 X 1.63 X .06 47 170399 Actuator, Bypass Fan, 7 In 48 170400 Rod, Bypass Actuator Washer, OD Slotted, .53 X 1.63 X .06 50 170402 Retaining Ring .25 External 127 170447 50 170402 Retaining Ring .25 External 127 170447 51 170403 Seal, .Lip .741 X .25 X .25 Lip Seal .67 X 1.58 X .276 53 170404 Washer, Flat 0.050"" (210-1000) Lip Seal .706 X 1.58 X .25 54 170405 Retaining Ring Lip Seal .706 X 1.58 X .25 55 142977 Spring, Helical Compression Oring .07 X .301 ID 56 142978 Washer, Block Thrust 128 401266 57 12929 Kit, Brake Yoke Oring .07 X .301 ID 58 142929 Kit, Brake Yoke Bolt, Self Tapping 10-32 X 1/2 59 170408 Rotor, Brake Bolt, Self						
46 170398 Base, Filter Washer, OD Slotted, .53 X 1.63 X .06 47 170399 Actuator, Bypass Fan, 7 In 48 170400 Rod, Bypass Actuator Pulley 49 196599 Arm, Bypass 127 170447 50 170402 Retaining Ring .25 External 127 170447 Kit, Seal 51 170403 Seal, Lip .741 X .25 X .25 Lip Seal .67 X 1.58 X .276 Lip Seal .67 X 1.58 X .276 52 170404 Washer, Flat 0.050"" (210-1000) Lip Seal .741 X .250 X .250 TC Oil Seal .625 X 1.0 X .25 53 170406 Bearing, Center Block Oring .07 X .301 ID Oring .07 X .301 ID 54 142978 Washer, Block Thrust 128 401266 Kit, Expansion Tank 57 20vr-50 Oil 128 401266 Kit, Expansion Tank Expansion Tank 58 142929 Kit, Brake Yoke Bolt, Self Tapping 10-32 X 1/2 Bracket, Support Expansion Tank 60 142882 Brake Puck Plate Bolt, Nylok Bolt, Nylok 900 197942 Complete Transaxle Assembly 63 170410 Hincs 1/4-2	44	150797	Bolt 3/8-24 X 2-1/2	126	170446	Kit, Fan/pulley
47170399Actuator, BypassFan, 7 in48170400Rod, Bypass ActuatorPulley49196599Arm, Bypass12750170402Retaining Ring .25 ExternalLip Seal .67 X 1.58 X .27651170403Seal, Lip .741 X .25 X .25Lip Seal .67 X 1.58 X .27652170404Washer, Flat 0.050"" (210-1000)Lip Seal .706 X 1.584 X .2553170405Retaining RingLip Seal .706 X 1.584 X .2554170406Bearing, Center BlockOil Seal .625 X 1.0 X .2555142977Spring, Helical CompressionOil Seal .625 X 1.0 X .2556142978Washer, Block Thrust128 4012665720v+50 Oil128 401266Kit, Expansion Tank58142929Kit, Brake YokeDerived Vent59170408Rotor, BrakeBrake Puck60142882Brake PuckBrake Actuating61142882Brake Puck Plate900 19794262170409Pin, Brake Actuating900 19794263170411Spacer, Brake Torsion Spring900 19794264142892Bolt, Nylok65170411Spacer, Brake Torsion SpringMOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.4						
48 170400 Rod, Bypass Actuator Pulley 49 196599 Arm, Bypass 127 170407 Kit, Seal 50 170402 Retaining Ring .25 External Lip Seal .67 X 1.58 X .276 Lip Seal .67 X 1.58 X .276 52 170404 Washer, Flat 0.050"" (210-1000) Lip Seal .741 X .250 X .250 TC Lip Seal .741 X .250 X .250 TC 53 170406 Bearing, Center Block O'I Seal .625 X 1.0 X .250 TC O'I Seal .625 X 1.0 X .250 TC 54 170406 Bearing, Center Block O'I Seal .625 X 1.0 X .250 TC O'I Seal .625 X 1.0 X .250 TC 54 142978 Washer, Block Thrust 128 401266 Kit, Expansion Tank 57 20vv-50 Oil Tank, Expansion Tank Tank, Expansion Assembly Cap, Barbed Vent 58 142929 Kit, Brake Yoke Bott, Self Tapping 10-32 X 1/2 Bracket, Support Expansion Tank 59 170408 Brotor, Brake Pulley 900 197942 Complete Transaxle Assembly 61 142882 Brake Puck Plate Hose, Expansion Tank Hose, Expansion Tank 62 170409 Pin, Brake Actuating 900 197942						
50170402Retaining Ring .25 ExternalLip Seal .67 X 1.58 X .27651170403Seal, Lip .741 X .25 X .25Lip Seal 18 X 32 X 752170404Washer, Flat 0.050"" (210-1000)Lip Seal .706 X 1.584 X .2553170405Retaining RingLip Seal .706 X 1.584 X .2554170406Bearing, Center BlockOil Seal .625 X 1.0 X .2555142977Spring, Helical CompressionOil Seal .625 X 1.0 X .2556142978Washer, Block Thrust128 401266Kit, Expansion Tank5720vv-50 OilTank, Expansion AssemblyCap, Barbed Vent58142929Kit, Brake YokeBolt, Self Tapping 10-32 X 1/260142883Brake PuckBrake Puck61142882Brake Puck PlateBracket, Support Expansion Tank62170409Pin, Brake Actuating900 19794263170410Hfncs 1/4-20 X 2 W/patch, Special FlangeNOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.464142892Bolt, NylokMote: All Component Dimensions Given In U.S. Inches 1 Inch = 25.4						Pulley
51170403Seal, Lip. 741 X.25 X.25Lip Seal 18 X 32 X 752170404Washer, Flat 0.050"" (210-1000)Lip Seal .706 X 1.584 X.2553170405Retaining RingLip Seal .706 X 1.584 X.2554170406Bearing, Center BlockOil Seal .625 X 1.0 X .2555142977Spring, Helical CompressionOil Seal .625 X 1.0 X .2556142978Washer, Block Thrust128 401266Kit, Expansion Tank5720vv-50 Oil128 401266Kit, Expansion Assembly58142929Kit, Brake YokeBolt, Self Tapping 10-32 X 1/259170408Rotor, BrakeBolt, Self Tapping 10-32 X 1/260142883Brake PuckBracket, Support Expansion Tank61142882Brake Puck PlateBracket, Support Expansion Tank62170409Pin, Brake Actuating900 19794263170410Hfncs 1/4-20 X 2 W/patch, Special FlangeNOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.464142892Bolt, Nylokmm			Arm, Bypass Retaining Ring .25 External	127	170447	
53170405Retaining RingLip Seal .741 X .250 X .250 TC54170406Bearing, Center BlockOil Seal .625 X 1.0 X .2555142977Spring, Helical CompressionO-ring .07 X .301 ID56142978Washer, Block Thrust128 401266Kit, Expansion Tank5720vv-50 OilTank, Expansion AssemblyCap, Barbed Vent58142929Kit, Brake YokeBolt, Self Tapping 10-32 X 1/258142882Brake PuckBrake Puck61142882Brake Puck PlateBrake Actuating62170409Pin, Brake Actuating900 19794263170410Hfhcs 1/4-20 X 2 W/patch, Special Flange900 19794264142892Bolt, NylokNOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.465170411Spacer, Brake Torsion Springmm	51	170403	Seal, Lip .741 X .25 X .25			
54170406Bearing, Center BlockOil Seal .625 X 1.0 X .2555142977Spring, Helical CompressionO-ring .07 X .301 ID56142978Washer, Block Thrust128 401266Kit, Expansion Tank5720vv-50 OilTank, Expansion AssemblyCap, Barbed Vent58142929Kit, Brake YokeBolt, Self Tapping 10-32 X 1/260142883Brake PuckBracket, Support Expansion Tank61142882Brake Puck PlateBracket, Support Expansion Tank62170409Pin, Brake Actuating900 19794263170410Hfhcs 1/4-20 X 2 W/patch, Special Flange900 19794264142829Bolt, NylokNOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.465170411Spacer, Brake Torsion Springmm			Washer, Flat 0.050"" (210-1000)			
55142977Spring, Helical CompressionO-ring .07 X .301 ID56142978Washer, Block Thrust128 401266Kit, Expansion Tank5720vv-50 Oil128 401266Kit, Expansion Assembly58142929Kit, Brake YokeCap, Barbed Vent59170408Rotor, BrakeBolt, Self Tapping 10-32 X 1/260142883Brake PuckBracket, Support Expansion Tank61142882Brake Puck PlateBracket, Support Expansion Tank62170409Pin, Brake Actuating900 19794263170410Hfhcs 1/4-20 X 2 W/patch, Special FlangeNOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.464142892Bolt, Nylokmm			Bearing, Center Block			Oil Seal .625 X 1.0 X .25
5720vv-50 OilTank, Éxpansion Assembly58142929Kit, Brake YokeCap, Barbed Vent59170408Rotor, BrakeBolt, Self Tapping 10-32 X 1/260142883Brake PuckBrake Puck61142882Brake Puck PlateBrakek Cutuating62170409Pin, Brake Actuating90063170410Hfhcs 1/4-20 X 2 W/patch, Special Flange90064142892Bolt, NylokNOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.465170411Spacer, Brake Torsion Springmm	55	142977	Spring, Helical Compression			O-ring .07 X .301 ID
58142929Kit, Brake YokeCap, Barbed Vent59170408Rotor, BrakeBolt, Self Tapping 10-32 X 1/260142883Brake PuckBracket, Support Expansion Tank61142882Brake Puck PlateHose, Expansion Tank62170409Pin, Brake Actuating900 19794263170410Hfhcs 1/4-20 X 2 W/patch, Special Flange900 19794264142892Bolt, NylokNOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.465170411Spacer, Brake Torsion Springmm		142978		128	401266	
59170408Rotor, BrakeBolt, Self Tapping 10-32 X 1/260142883Brake PuckBracket, Support Expansion Tank61142882Brake Puck PlateHose, Expansion Tank62170409Pin, Brake Actuating900 197942Complete Transaxle Assembly63170410Hfhcs 1/4-20 X 2 W/patch, Special FlangeMOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.464142892Bolt, NylokMote: All Component Dimensions Given In U.S. Inches 1 Inch = 25.4	58					
61 142882 Brake Puck Plate Hose, Expansion Tank 62 170409 Pin, Brake Actuating 900 197942 Complete Transaxle Assembly 63 170410 Hfhcs 1/4-20 X 2 W/patch, Special Flange 900 197942 Complete Transaxle Assembly 64 142892 Bolt, Nylok NOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.4 65 170411 Spacer, Brake Torsion Spring mm						Bolt, Self Tapping 10-32 X 1/2
62170409Pin, Brake Actuating900197942Complete Transaxle Assembly63170410Hfhcs 1/4-20 X 2 W/patch, Special Flange900197942Complete Transaxle Assembly64142892Bolt, NylokNOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.465170411Spacer, Brake Torsion Springmm						
63 170410 Hithcs 1/4-20 X 2 W/patch, Special Flange 64 142892 Bolt, Nylok NOTE: All Component Dimensions Given In U.S. Inches 1 Inch = 25.4 65 170411 Spacer, Brake Torsion Spring mm	62	170409	Pin, Brake Actuating	900	197942	Complete Transaxle Assembly
65 170411 Spacer, Brake Torsion Spring mm				NOT		
66 401262 Spring, Brake Arm Bias		170411	Spacer, Brake Torsion Spring		E. AII COM	ponent unitensions diven in 0.5. inches 1 inch = 25.4
	66	401262	Spring, Brake Arm Bias			

TRACTOR - - MODEL NUMBER 944.606681 BRIGGS ENGINE - MODEL NUMBER 31P777, TYPE NUMBER 0602-E2



TRACTOR - - MODEL NUMBER 944.606681 BRIGGS ENGINE - MODEL NUMBER 31P777, TYPE NUMBER 0602-E2



TRACTOR - - MODEL NUMBER 944.606681 BRIGGS ENGINE - MODEL NUMBER 31P777, TYPE NUMBER 0602-E2

KEY NO.	PART NO.	DE	SCRIPTION	KE' NO.		PART NO.		DESCRIPTION
		_						
35 36	691279 691279		Spring-Valve (Intake) Spring-Valve (Exhaust)	337 358		491055 697191		Plug-Spark Gasket Set-Engine
37	697352		Guard-Flywheel	363		19203		Flywheel Puller
42	690964		Retainer-Valve	383		89838		Wrench-Spark Plug
43	691968		Slinger-Governor/Oil	404		691691		Washer (Governor Crank)
45	690564		Tappet-Valve	431		697122		Elbow-Intake
46	790400		Camshaft	445		698083		Filter-Air Cleaner Cartridge
48	697762		Short Block	462		691261		Washer (Starter Cable)
50	690193		Manifold-Intake	474		696459		Alternator
51	692137	•؇+	Gasket-Intake	503		691532		Strap-Starter
53	690227		Stud (Carburetor)	505		691251		Nut (Governor Control Lever)
54	691148		Screw (Intake Manifold)	510		693699		Drive-Starter
73	697133		Screen-Rotating	513	;	692024		Clutch-Drive
74	697897		Screw (Rotating Screen)	523	;	699908		Dipstick
78	691003		Screw (Flywheel Guard)	524	-	691032	•	Seal-Dipstick Tube
89	690283		Plug-Oil	525	;	697184		Tube-Dipstick
93	690602	Ø	Bushing-Throttle Shaft	544		692034		Starter-Armature
94	498030		Kit-Idle Mixture	552		697144		Bushing-Governor Crank
95	691636		Screw (Throttle Valve)	562		691119		Bolt (Governor Control Lever)
98	495800	-	Kit-Idle Speed	579		691029		Nut (Starter Cable)
104	690525	Ø	Pin-Float Hinge	584		697112		Cover-Breather Passage
105	231855	Ø	Valve-Float Needle	601		95162		Clamp-Hose
106	690577	Ø	Seat-Inlet	614		691620		Pin-Cotter
108	692344	a	Valve-Choke (Choke A Matic)	616		692012	~	Crank-Governor
117	694352	Ø	Jet-Main (Standard)	617		692138		Seal-O Ring (Intake Manifold)
118	697228		Jet-Main (High Altitude)	634		690802	Ø	Spring/Seal Assembly (Choke A Matic)
121	697241		Kit-Carburetor Overhaul	635		691909		Boot-Spark Plug
125 127	791888 695005		Carburetor	643 654		698401		Retainer-Air Filter
130	691750		Plug-Welch Valve-Throttle	684		690958 697157		Nut (Carburetor) Screw (Breather Passage Cover)
131	494379		Kit-Throttle Shaft	691		692407	•	Seal-Governor Shaft
133	494381		Float-Carburetor	697		690372	-	Screw (Drive Cap)
137	281165	Ø+	Gasket-Float Bowl	718		690959		Pin-Locating
141	495931	~+	Kit-Choke Shaft (Choke A Matic)	729		691224		Clip-Wire
142	697140	Ø	Nozzle-Carburetor	741		697128		Gear-Timing
146	691639		Key-Timing	750		790832		Screw (Oil Pump Cover)
186	698174		Connector-Hose	757	,	697607		Link-Counterweight
187	691805		Line-Fuel	758		697134		Counterweight
188	691693		Screw (Control Bracket)	759)	697392		Pin-Counterweight
192	691986		Adjuster-Rocker Arm	783	;	693713		Gear-Pinion
202	691841		Link-Mechanical Governor	789)	698329		Harness-Wiring
209	692208		Spring-Governor	797	,	693167		Nut (Brush Retainer)
216	691840		Link-Choke	801		691283		Cap-Drive
222	694042		Bracket-Control	802		691286		Cap-End
227	691374		Lever-Governor Control	803	5			Housing-Starter (For service order
232	691842		Spring-Governor					starter motor reference 309)
238	691843		Cap-Valve	830		691095		Stud (Rocker Arm)
240	394358		Filter-Fuel	842		691031	•	Seal-O Ring (Dipstick Tube)
265	691024		Clamp-Casing	847		790442		Dipstick/Tube Assembly
267	695134	<i>α</i> +	Screw (Casing Clamp)	851		692424	• •	Terminal-Spark Plug
276	692255	؇	Washer-Sealing	868		690968	•+	Seal-Valve
304 305	699829 697102		Housing-Blower Screw (Blower Housing)	877		393456		Wire/Connector-Alternator
	697102		Screw (Blower Housing)					
305A	697103		Shield-Cylinder					
307	691003		Screw (Cylinder Shield)					
309	693551		Motor-Starter					
310	690323		Bolt (Starter Motor)					
311	497608		Brush Set					
333	492341		Armature-Magneto					
334	691061		Screw (Magneto Armature)	40				
			· - ·	48				

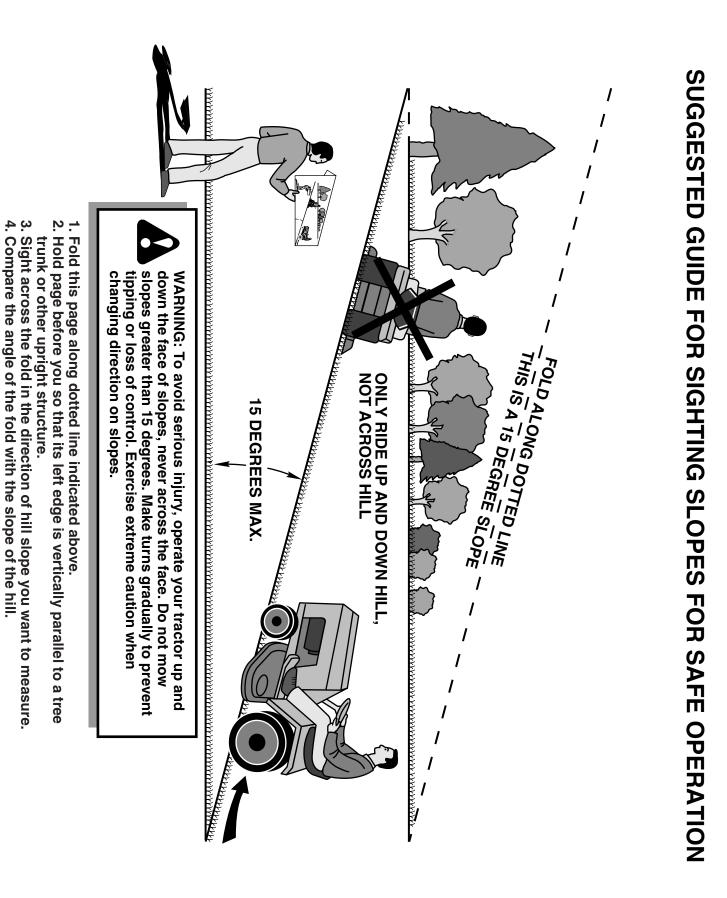
TRACTOR - - MODEL NUMBER 944.606681 BRIGGS ENGINE - MODEL NUMBER 31P777, TYPE NUMBER 0602-E2

KEY NO.	PART NO.	DESCRIPTION
914	691108	Screw (Rocker Cover)
943	690589 •	Seal-O Ring (Oil Pump Cover)
947	694393	Solenoid-Fuel
965	499613	Cover-Oil Pump
967	697015	Filter-Pre Cleaner
968	699986	Cover-Air Cleaner
975	495933	Bowl-Float
977	690192	Gasket Set-Carburetor
987	691326 Ø	Seal-Throttle Shaft
1005		Fan-Flywheel
	690770	Screen-Oil Pump
1019		Kit-Label
1022		Gasket-Rocker Cover
	791079	Cover-Rocker Arm
-	499054	Pump-Oil
1026		Rod-Push (Intake)
1007	692011	Rod-Push (Exhaust)
	696854	Filter-Oil
1029		Arm-Rocker
	690822	Guide-Push Rod
1035	693784 791932	Shaft-Pump Label-Emission
	699852	Plate-Trim
	698139	Screw (Flywheel)
-	691265	Ring-Retaining
	275935	Owner's Manual
	698516	Kit-Screw/Washer
	690372	Screw (Flywheel Fan)
1090		Retainer-Brush
	691333	Cap-Limiter
1095		Gasket Set-Valve
1119		Screw (Alternator)
-	691657	Screw (Float Bowl)
1263	697124	Reed-Breather
1264	697104	Screw (Breather Reed)
1266	691917 •Ø	
1266/	A 697123 Ø	Seal-O Ring (Intake Elbow)
1267	697419	Latch-Blower Housing
1270	697156	Plug-AVS Counterweight
1329	31Q777-0036	
1330	272147	Repair Manual

• Included in Engine Gasket Set, Key No. 358

- Ø Included in Carburetor Overhaul Kit, Key No. 121
- ‡ Included in Carburetor Gasket Set, Key No. 977
- + Included in Valve Gasket Set, Key No. 1095
- **NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

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