



SAFETY RULES



Safe Operation Practices for Ride-On Mowers

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



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



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



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

I. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blades.
- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.
- Operate machine only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating machine.

- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

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

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

III. CHILDREN

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

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

SAFETY RULES





Safe Operation Practices for Ride-On Mowers

IV. TOWING

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

V. SERVICE

SAFE HANDLING OF GASOLINE

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

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

GENERAL SERVICE

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage and remove any fuelsoaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.

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



- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

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PRODUCT SPECIFICATIONS

Gasoline Capacity and type:	4 Gallons Unleaded Regular			
Oil Type (API-SG-SL):	SAE 10w30 (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: 1.8 Quarts			
Spark Plug: (Gap: .030")	Champion RC12YC			
Ground Speed (MPH):	Forward: 5.8 Reverse: 2.1			
Charging System:	15 Amps @ 3600RPM			
Battery:	AMP/HR: 35 Min. CCA: 280 Case Size: U1R			
Blade Bolt Torque:	45-55 FT. LBS.			

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

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

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

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

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

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

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

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

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

FULL ONE (1) YEAR WARRANTY ON BATTERY

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

COMMERCIAL OR RENTAL USE

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

This Warranty does NOT cover:

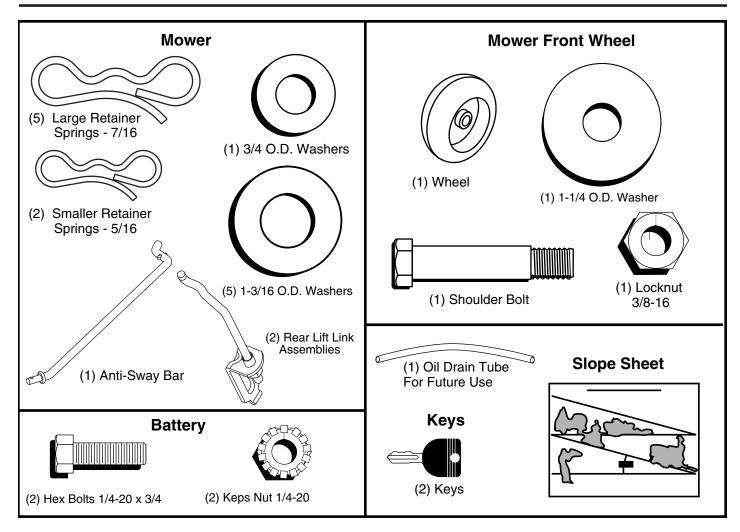
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse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

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

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

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

UNASSEMBLED PARTS



Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes.

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 3/4" wrench(1) 9/16" wrench
- (1) Utility knife(1) Pliers
- (1) Tire Pressure Gauge

When right or left hand is mentioned in this manual, it means from your point of view, 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.
- Remove mower and packing materials.
- Check for any additional loose parts or cartons and remove.

CONNECT BATTERY (See Fig. 1)



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 hood 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.

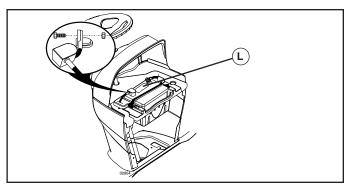


FIG.1

ADJUST SEAT (See Fig. 2)

- Sit in seat.
- Lift up adjustment lever (A) and slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Release lever to lock seat in position.



FIG. 2

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 brake pedal.
- Place freewheel control in disengaged position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.

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

- 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 brake pedal and set the parking brake.
- Raise attachment lift lever to its highest position.
- Remove key from bag and start the engine (see "TO START" in the Operation section of this manual). After engine has started, move throttle control to idle (slow) position.
- Release parking brake.

- Slowly depress forward drive pedal and drive tractor off skid.
- Apply brake to stop tractor and set parking brake.
- Turn ignition key to "STOP" position.

Continue with the instructions that follow.

ASSEMBLE FRONT WHEEL TO MOWER (See Fig. 3)

 Using shoulder bolt, washer and locknut from parts bag, assemble front wheel to mower as shown. Tighten securely.

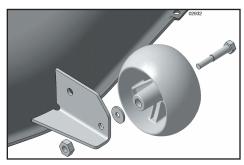


FIG. 3

INSTALL MOWER AND DRIVE BELT (See Figs. 4-12)

See MOWER AND DRIVE BELT ASSEMBLY Supplement Sheet for additional guidance on this assembly.

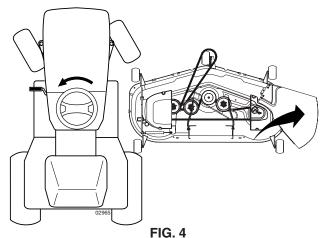
Be sure tractor is on level surface and engage parking brake.

• 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.

 Turn steering wheel to the left as far as it will go and position mower on right side of tractor with deflector shield to the right.



 Remove plastic tie securing belt, bring belt forward and check belt for proper routing in all mower pulley grooves.

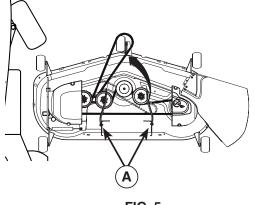


FIG. 5

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.
- FIRST INSTALL ANTI-SWAY BAR (S).
 - From right side of mower, insert anti-sway bar into hole in transmission bracket (T).

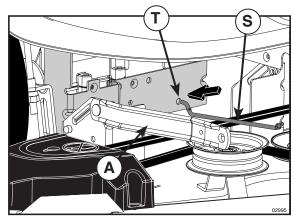


FIG. 6

- Pivot bar towards you and insert other end of bar into hole in rear mower bracket (D). Move mower as needed to insert bar.
- Secure with washer and retainer spring as shown using small 5/16 retainer spring.

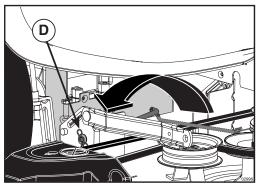


FIG. 7

- 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.

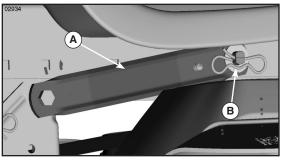
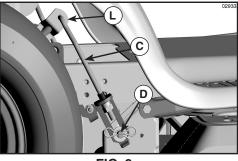


FIG. 8

- ATTACH REAR LIFT LINKS (C) Insert rod end of lift link assembly into hole in tractor lift shaft suspension arm (L) and pivot link down to mower. 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.





- Turn steering wheel to position wheels straight forward.
- 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) and secure with7/16 retainer spring (G) through hole in link located behind the bracket.
- Insert other end of link (E) into hole in front mower bracket (H) and secure with washer and 5/16 retainer spring (J).

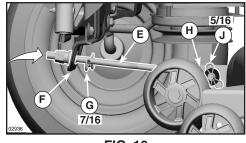


FIG. 10

- Disengage belt tension rod (K) from locking bracket (L).
- Install belt onto engine clutch pulley (M).

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

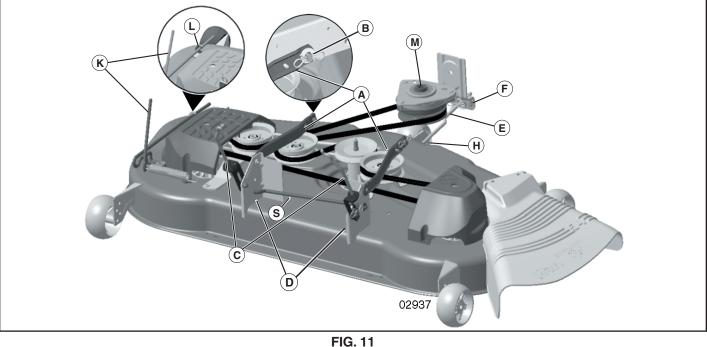




FIG. 12

• Engage belt tension rod (K) on locking bracket (L).



CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and engage slowly.

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

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 PER-FORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

PLEASE REVIEW THE FOLLOWING CHECKLIST:

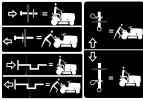
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged.
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
-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

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

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

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





FREE WHEEL (Automatic Models only)



Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage. **DANGER** indicates a hazard which, if not avoided, will result in death or serious injury.



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



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

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



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

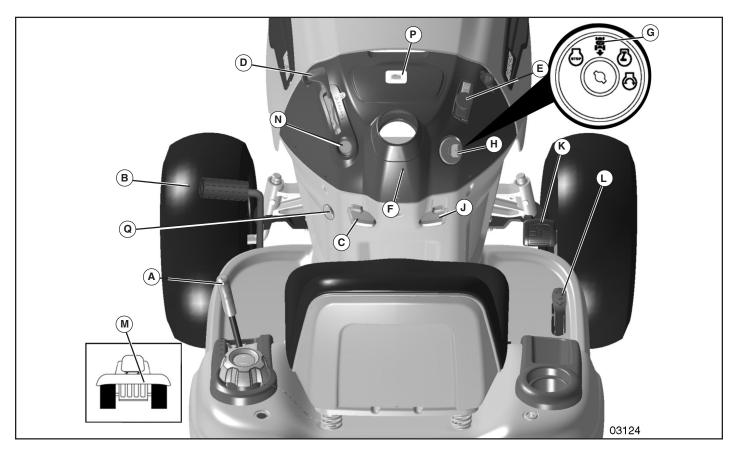


FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

KNOW YOUR TRACTOR

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

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





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) 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 SWITCH – 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 while in reverse. (H) LIGHT SWITCH – Turns the headlights on and off. (J) CRUISE CONTROL LEVER – Used to set forward movement of tractor at desired speed without holding the forward drive pedal.

(K) FORWARD DRIVE PEDAL – Used for forward movement of tractor.

(L) REVERSE DRIVE PEDAL – Used for reverse movement 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.
 (P) SERVICE REMINDER / HOUR METER – Indicates when service is required for the engine and mower.

(Q) 12-VOLT POWER PORT – Used for 12-volt accessories.



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. 14)

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

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

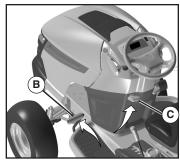
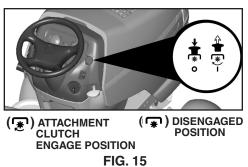


FIG. 14

STOPPING

MOWER BLADES

To stop mower blades, push attachment clutch switch in to disengaged position (\mathbf{r}).



GROUND DRIVE -

• To stop ground drive, depress brake pedal all the way down.

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.

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.

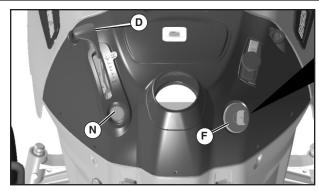


FIG. 16

TO USE THROTTLE CONTROL (See Fig. 16)

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 USE CHOKE CONTROL -D (See Fig. 16)

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

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

TO MOVE FORWARD AND BACKWARD -N (See Fig. 17)

The direction and speed of movement is controlled by the forward and reverse drive pedals.

- Start tractor and release parking brake.
- Slowly depress forward (K) or reverse (L) drive pedal to begin movement. Ground speed increases the further down the pedal is depressed.

• Never use choke (N) to stop engine.

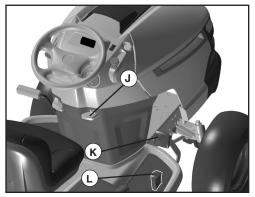


FIG. 17

TO USE CRUISE CONTROL -J (See Fig. 17)

The cruise control feature can be used for forward travel only.

SYSTEM CHARACTERISTICS

The cruise control should only be used while mowing or transporting on relatively smooth, straight surfaces. Other conditions such as trimming at slow speeds may cause the cruise control to disengage. Do not use the cruise control on slopes, rough terrian or while trimming or turning.

• With forward drive pedal depressed to desired speed, pull cruise control lever (J) up and hold while lifting your foot off the pedal, then release the lever.

To disengage the cruise control, depress the brake pedal or tap on forward drive pedal.

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 18)

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

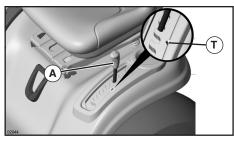


FIG. 18

- 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. 19)

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.

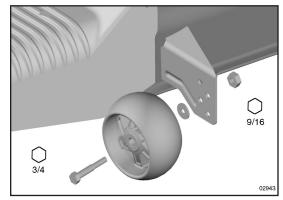


FIG.19

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.

- 1. Select desired height of cut with attachment lift lever.
- 2. 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.

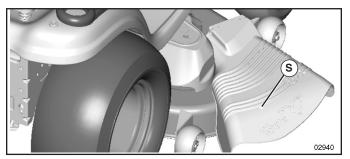


FIG. 20

REVERSE OPERATION SYSTEM (ROS)

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

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

USING THE REVERSE OPERATION SYSTEM -

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

- Depress brake pedal all the way down.
- With engine running, turn ignition key counterclockwise to ROS "ON" position.
- Look down and behind before and while backing.
- Slowly depress reverse drive pedal to start movement.
- When use of the ROS is no longer needed, turn the ignition key clockwise to engine "ON" position.

ROS "ON" POSITION

ENGINE "ON" POSITION (NORMAL OPERATING)





TO OPERATE ON HILLS



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 brake pedal quickly to brake position and engage parking brake.

- To restart movement, slowly release parking brake and brake pedal.
- Slowly depress appropriate drive pedal to slowest setting.
- Make all turns slowly.

TO TRANSPORT (See Figs. 13 and 21)

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.).

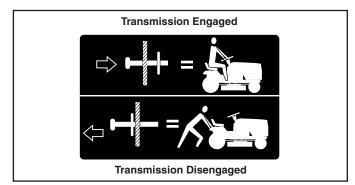


FIG. 21

SERVICE REMINDER/HOUR METER

Service reminder shows the total number of hours the engine has run and flashes to indicate that the engine or mower needs servicing. When service is required, the service reminder will flash for two hours. To service engine and mower, see the Maintenance section of this manual.

NOTE: Service reminder runs when the ignition key is in any position but "STOP". For accurate reading, be sure key remains in the "STOP" position when engine is not running.

TOWING CARTS AND OTHER ATTACHMENTS

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

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.

- Check engine oil with tractor on level ground.
- Unthread and remove oil fill cap/dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the 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. 13)

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 brake pedal and set parking brake.
- 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.
 - Release the parking brake and let the 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



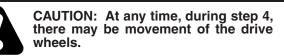
CAUTION: Never engage or disengage freewheel lever while the engine is running.

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.

1. Place tractor safely on a level surface - that is clear and open - with engine off and parking brake set.

- 2. Disengage transmission by placing freewheel control in freewheeling position (See "TOTRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. Disengage parking brake



- 4. Depress forward drive pedal to full forward position, hold for five (5) seconds and release pedal. Depress reverse drive pedal to full reverse position, hold for five (5) seconds and release pedal. Repeat this procedure three (3) times.
- 5. Shut- off engine and set parking brake.
- 6. 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. Disengage parking brake.
- 8. Drive tractor forward for approximately five feet then backwards for five feet. Repeat this driving procedure three 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. 22).

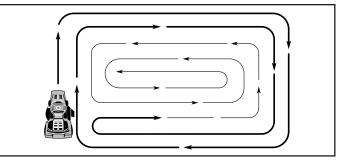


FIG. 22

- 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.

	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	~	~					
Iт	Check Tire Pressure	/	~					
ľĸ	Check Operator Presence & ROS Systems							
	Check for Loose Fasteners							
lĉ	Check/Replace Mower Blades			✔3				
Т	Lubrication Chart			/				
0	Check Battery Level			4				
R	Clean Battery and Terminals			~				 ✓
	Check Transaxle Cooling			~				
	Check Mower Levelness				/			
	Check V-Belts							
Γ	Check Engine Oil Level	~	~					
	Change Engine Oil (with oil filter)				1 ,2			
_ا	Change Engine Oil (without oil filter)			1,2				V
E N	Clean Air Filter							
G	Clean Air Screen							
١ĭ	Inspect Muffler/Spark Arrester							
Ň	Replace Oil Filter (If equipped)					1,2		
E	Clean Engine Cooling Fins					V 2		
	Replace Spark Plug					V		
	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.

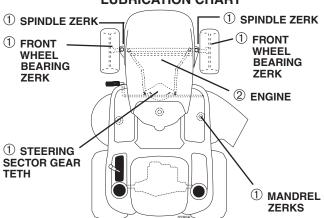
• At least once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

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.



LUBRICATION CHART

- 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 main-tenance.

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.

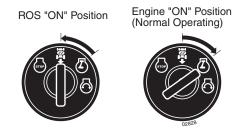
OPERATOR PRESENCE SYSTEM AND REVERSE OPERATION SYSTEM (ROS)

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

• The engine should not start unless the brake pedal is fully depressed, and the attachment clutch control is in the disengaged position.

CHECK OPERATOR PRESENCE SYSTEM

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



CHECK REVERSE OPERATION (ROS) SYSTEM

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

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. 23)

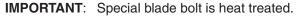
 Raise mower to highest position to allow access to blades.

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).



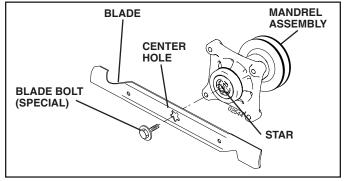


FIG. 23

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 "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS 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.

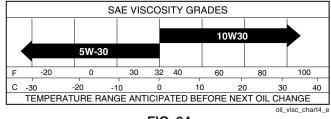
TRANSAXLE PUMP FLUID

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.





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.

TO CHANGE ENGINE OIL (See Figs. 24 and 25)

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.

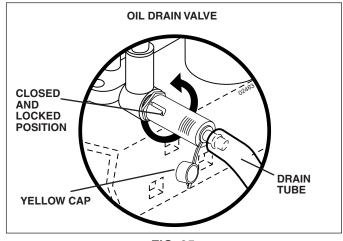


FIG. 25

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

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 Figs. 26 and 27)

Your engine will not run properly using a dirty air filter. Service paper cartridge every two months or every 25 hours of operation, whichever occurs first.

Service paper cartridge more often under dusty conditions.

Replace the paper cartridge annually, or after every 100 hours of operation.

- TO SERVICE CARTRIDGE
- Replace a dirty, bent, or damaged cartridge. Handle new cartridge carefully; do not use if the rubber seal is damaged.

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

- Open door (A) on the blower housing to access the air cleaner element (B).
- Unhook the latch (C) and remove the element.
- Gently tap the paper element to dislodge dirt.
- Clean all air cleaner components of any accumulated dirt or foreign material. Prevent any dirt from entering the throat of carburetor.
- Install cleaned or new element on the base and secure with latch.
- Close and latch the door.

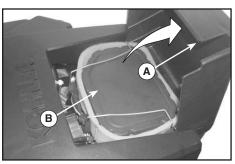


FIG. 26

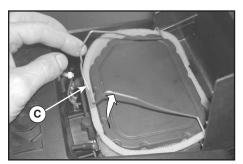


FIG. 27

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. 28)

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.

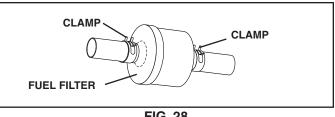


FIG. 28

CLEANING

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

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



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

- Depress brake pedal fully and set parking brake.
- 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 (See Fig. 29)

TO REMOVE MOWER

- Place attachment clutch in "DISENGAGED" position.
- Lower attachment lift lever to its lowest position.
- Disengage belt tension rod (K) from lock bracket (L).



CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and release slowly.

- Remove mower belt from electric clutch pulley (M).
- 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 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.

- From right side of mower, disconnect anti-sway bar (S) from right rear mower bracket (D) - remove retainer spring and washer and pull mower toward you until the bar falls from the hole in bracket.
- Turn tractor steering wheel to the left as far as it will go.
- Slide mower out from under right side of tractor.

TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

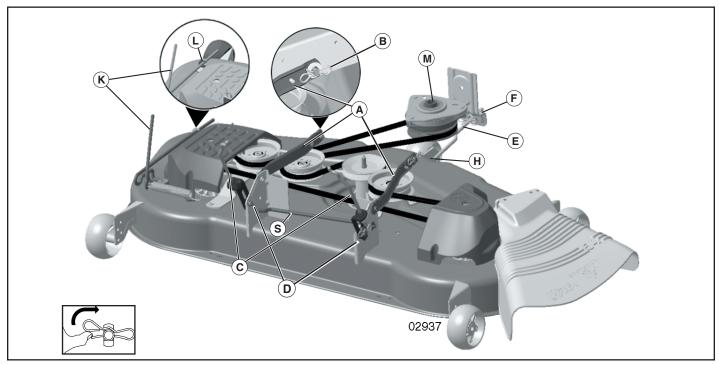
TO LEVEL MOWER

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.

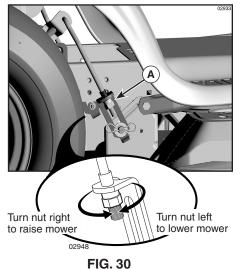
VISUAL SIDE-TO-SIDE ADJUSTMENT (See Fig. 30)

• 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. 31)

• 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 2 and 3 in Visual Adjustment instructions above.
- Recheck measurements, adjust if necessary until both sides are equal.

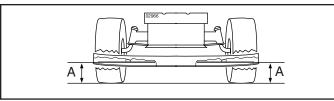


FIG. 31

FRONT-TO-BACK ADJUSTMENT (See Figs. 32 and 33) **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.

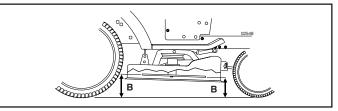


FIG. 32

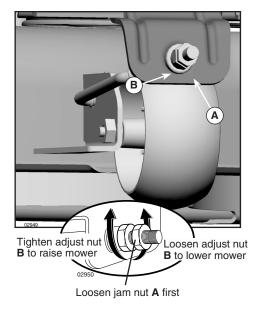


FIG. 33

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 BLADE DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 34)

- Park tractor on a level surface. Engage parking brake.
- Lower attachment lift lever to its lowest position.
- Disengage belt tension rod (K) from lock bracket (L).



CAUTION: Belt tension rod is spring loaded. Have a firm grip on rod and release slowly.

- Remove screws (P) from mandrel covers (Q) and remove covers.
- 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.

- Reassemble mandrel covers (Q). Securely tighten all screws.
- Engage belt tension rod (K) on locking bracket (L).



CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and engage slowly.

• Raise attachment lift lever to highest position.

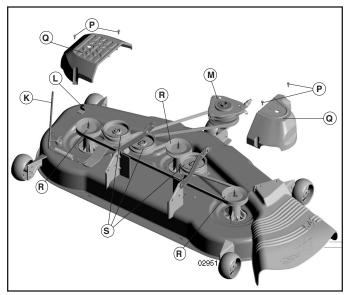


FIG. 34

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:

- Park tractor on a level, dry concrete or paved surface, depress 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 qualified service center.

TO REPLACE MOTION DRIVE BELT (See Fig. 35)

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.

- Disconnect clutch wire harness (A).
- Remove anti-rotation link (B) on right side of tractor.
- Remove belt from stationary idler (C) and clutching idler (D).
- Remove belt from centerspan idler (E).
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades (F).
- Remove belt downward from engine pulley and around electric clutch (G).
- Slide belt toward rear of tractor, off the steering plate (H) and remove from tractor.

BELT INSTALLATION -

- Install new belt from tractor rear to front, over the steering plate (H) and above clutch brake pedal shaft (J).
- Pull belt toward front of tractor and roll belt around electric clutch and onto engine pulley (G).
- Pull belt toward rear of tractor. Carefully work belt down around transmission cooling fan and onto the input pulley (F). Be sure belt is inside the belt keeper.
- Install belt on centerspan idler (E).
- Install belt through stationary idler (C) and clutching idler (D).
- Reinstall anti-rotation link (B) on right side of tractor. Tighten securely.
- Reconnect clutch harness (A).
- 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).

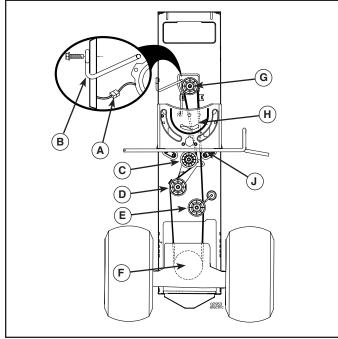


FIG. 35

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. 36)

- 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.

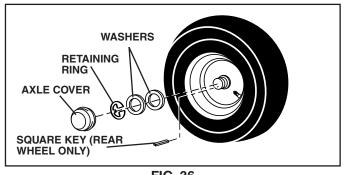


FIG. 36

TO START ENGINE WITH A WEAK BATTERY (See Fig. 37)



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.

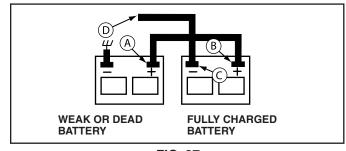


FIG. 37

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. 38)

- 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.

HOOD HEADLIGHT WIRE CONNECTOR

FIG. 38

ENGINE

TO ADJUST THROTTLE CONTROL CABLE

The throttle control has been preset at the factory and adjustment should not be necessary. If adjustment is necessary, see engine manual.

TO ADJUST CHOKE CONTROL

The choke control has been preset at the factory and adjustment should not be necessary. If adjustment is necessary, see engne manual.

TO ADJUST CARBURETOR

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

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

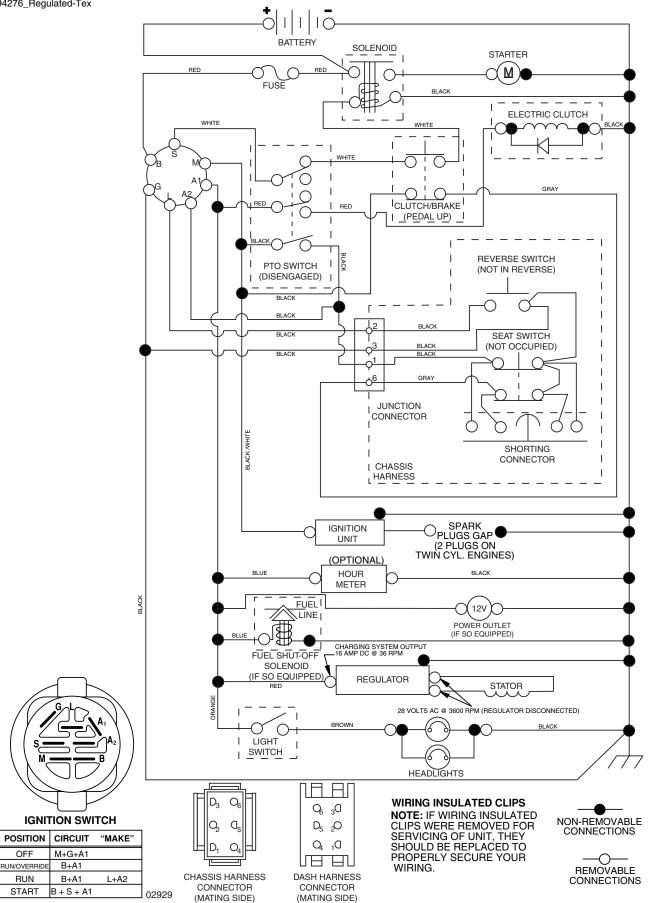
TROUBLESHOOTING POINTS

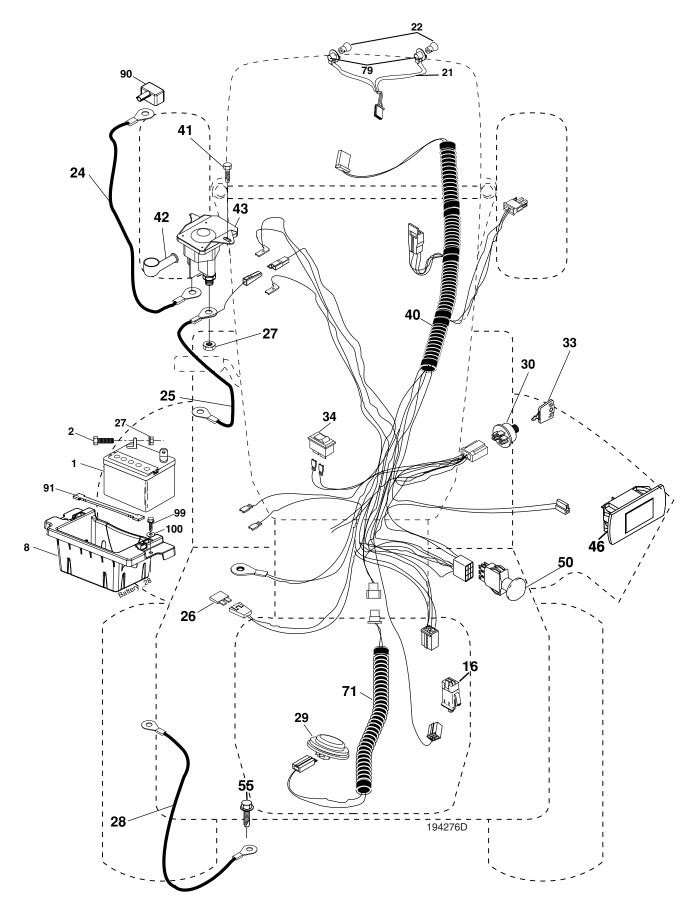
PROBLEM	CAUSE	CORRECTION		
Engine dies when tractor is shifted into reverse	 Reverse operation system (ROS) is not "ON" while mower or other attachment is engaged. 	1. Turn ignition key to ROS "ON" position. See Operation section.		
Engine continues to run when operator leaves seat with attachment clutch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

TRACTOR - - MODEL NUMBER 944.606090

SCHEMATIC

02929-194276_Regulated-Tex

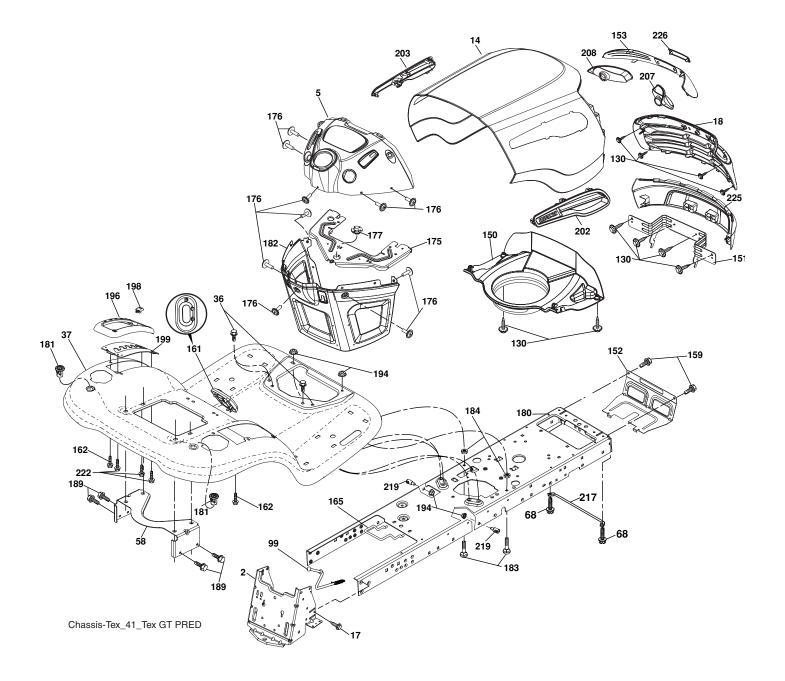




ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
$\begin{array}{c} 1 \\ 2 \\ 8 \\ 16 \\ 21 \\ 22 \\ 24 \\ 25 \\ 26 \\ 27 \\ 28 \\ 29 \\ 30 \\ 33 \\ 40 \\ 41 \\ 42 \\ 43 \\ 46 \\ 55 \\ 59 \\ 71 \\ 79 \\ 90 \\ 91 \\ 99 \\ 100 \end{array}$	144927 74760412 186491 176138 400252 4152J 400253 198893 175158 73510400 145491 401545 193350 140403 110712X 194276 17720408 131563 192507 198138 174652 17490508 400303 401105 175242 400724 190270	Battery Bolt Hex Head 1/4-20 x 3/4 Box Battery Switch Interlock Push-In Harness Socket Light W/4152J Bulb Light Cable Battery Cable Start Red Fuse Nut Keps Hex 1/4-20 unc Cable, Ground Switch, Seat Switch, Ignition Key, Ignition Switch Light / Reset Harness Ignition Screw Thd Cut 1/4-20 x 1/2 Cover, Terminal Solenoid Gauge Hourmeter Switch, PTO Screw Thdrol 5/16-18 x 1/2 TYTT Outlet 12-Volt Harness Ign. Dash Bulbholder Asm. Incan Descent Cover Terminal Battery Strap Battery Mount Front Screw Hexwsh Thdrol 1/4-20 x 3/4 Washer 9/32 x 7/8 x 16 Ga.

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

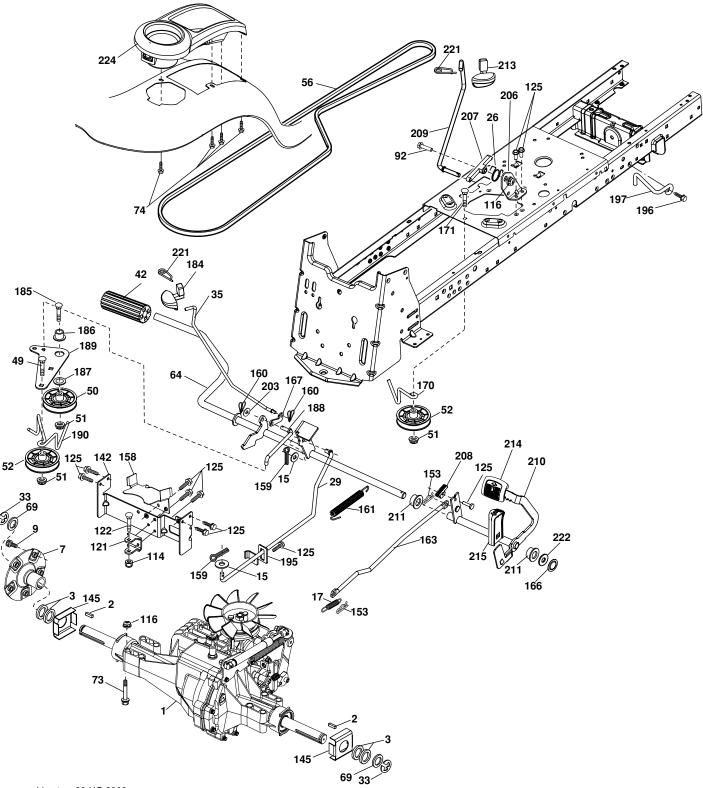


TRACTOR - - MODEL NUMBER 944.606090

KEY NO. 2 5 14 17 18 36 37 58 68 99 130 151 152 153 159 161 162 165 175 176 177 180 181 182 183 184 199 202 203 207 208 217 219 222	NO. 194261 199675X428 404654X428 17060612 404625 17060512 400009X428 194314 17490508 197273 191611 199411 196332 194329 198965 17000612 193097X428 142432 194330 196304 400776 195227 194260 193102X428 194787 74780520 195780 17000512 73900500 195780 17000512 73900500 195780 17000512 73900500 193098X428 194787 74780520 195780 17000512 73900500 193098X428 197300X505 196377 198968X428 198963 198964 156524 195161	Hood Screw 3/8-16 x .75 Grille Screw 5/16-18 x 3/4 Fender Bracket Fender Screw Thdrol 5/16-18 x 1/2 Rod Bypass Asm. Screw 10 x 3/4 Single Lead-Hex Duct Heat Hood Bracket Pivot Shield Browning/Debris Lens Bar Screw Hexwsh Thdrol 3/8-16 x 3/4 Console Fuel Window Screw Hex Wsh Hi-Lo 1/4 x 1/2 Bracket Support Tank Crossmember Screw #10-24 x 5/8 Rnd Qudrx Bushing Steering Chassis Bushing Mtg. Fender Crgo. Dash Lower Bolt Fin Hex 5/16-18UNC x 1-1/4 Spacer Fender Screw 5/16-18 x 3/4 Nut Lock Hex Flange 5/16-18 Console Asm. Deck Lift Indicator Deck Lift Plate Deck Lift Vent Side Hood RH Vent Side Hood LH Bezel RH Bezel LH Rod Pivot Stud Fastener
208 217	198964 156524	Bezel LH Rod Pivot Stud Fastener Screw thd Roll 1/4-20 x 5/8 Bumper

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

DRIVE

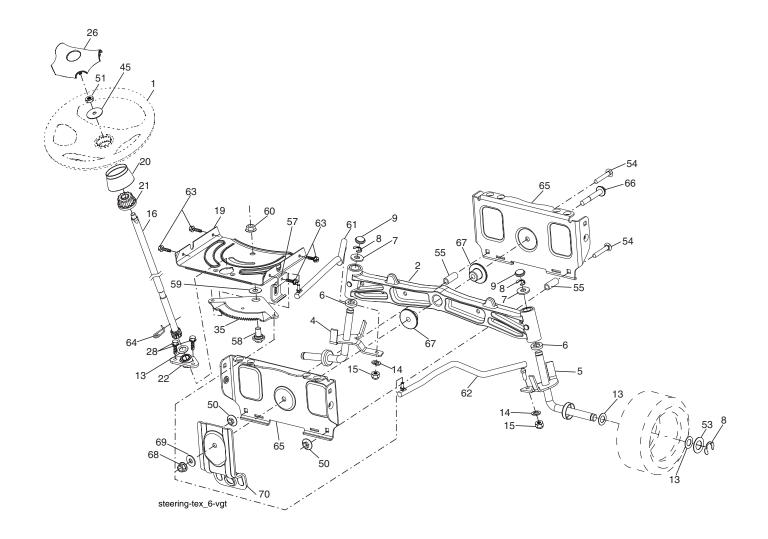


drive-tex_22-HG 3000

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
		DESCRIPTION Transaxle, Hydro 347-3000 (See Transaxle Breakdown) Key 1/4 x 2.500 Washer Thrust Hub Asm. Wheel Bolt Hub Wheel Washer 13/32 x 13/16 x 16 Ga. Spring, Brake Spring Return Cruise Rod, Brake Ring E #5133-100 Rod, Brake, Park Cover, Foot Pedal Bolt Pulley Idler Flat Lock Nut 3/8-16 Idler V-Groove 910" Offset V-Belt, Drive	NO. 160 161 163 166 167 170 171 184 185 186 187 188 189 190 195 196 197 203	NO. 169484 195403 197870 197290 196211 194322 72110616 196439X505 72110620 194321 19133210 194323 194317 194318 197331 17000616 199769 19111116	DESCRIPTION Retainer Clip Spring, Return, Clutch Rod Control Pedal Nut Push .625 Latch Brake Parking Keeper Belt Centerspan Bolt Handle Parking Brake Bolt Spacer Retainer Washer Link Clutch Ground Drive Bellcrank Ground Drive Bellcrank Ground Drive Keeper Bellcrank Ground Drive Bracket Rod Brake Screw 3/8-16 x 1 Bracket Clutch Anti-Rotation Washer 11/32 x 11/16 x 16 Ga.
56 64 69 73 74 92 114 121 122 125 142 145 153 158 159	197865 123800X 74490548 142432 74760520 73800500 73900500 175611 72010520 17000512 404483 163168 4497H 194350 76020412	Shaft Asm. Pedal Brake Control Washer 1-1/32 x 1-5/8 x 16 Ga. Bolt Hex Flghd 5/16-18 x 3.0 Gr. 5 Screw 1/4 x 1/2 Bolt Fin Hex 5/16-18 unc x 1.25 Nut Lock Hex W/Ins. 5/16-18 unc Nut Lock Hex Flange 5/16-18 Bracket Strap Torque Bolt 5/16-18 x 2.50 Screw 5/16-18 x 3/4 Strap Torque Washer Axle Flange Retainer Spring 1" Keeper Belt T/A Pin Cotter 1/8 x 3/4	206 207 208 209 210 211 213 214 215 221 222 224	197867 197868 197869 199592 197860 120183X 196441X428 197302X428 197301X428 403187 19212010 193099X428	Bracket Mount Latch Cruise Latch Control Cruise Gear Sector Control Cruise Rod Control Cruise Rocker Asm. Pedal Control Bearing Nylon Blk .629 Knob Control Cruise Pedal Forward Pedal Reverse Retainer Spring Clip Handle Washer 21/32 x 1-1/4 x 10 Ga. Console Toolbox

TRACTOR - - MODEL NUMBER 944.606090 STEERING ASSEMBLY



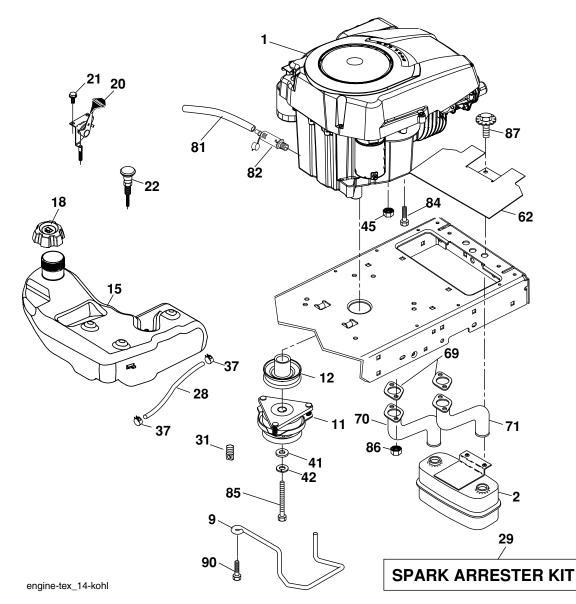
TRACTOR - - MODEL NUMBER 944.606090

STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
$\begin{array}{c}1\\2\\4\\5\\6\\7\\8\\9\\13\\4\\5\\6\\7\\8\\9\\13\\4\\5\\5\\7\\8\\9\\0\\1\\2\\2\\2\\8\\5\\5\\5\\5\\5\\5\\5\\6\\6\\1\\2\\3\\4\\5\\5\\7\\8\\9\\0\\1\\2\\3\\4\\5\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\7\\0\\7\\0\\1\\2\\3\\4\\5\\5\\7\\8\\9\\0\\1\\2\\3\\4\\5\\5\\7\\8\\9\\0\\1\\2\\3\\4\\5\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6$	186093X428 195968 197937 197936 6266H 121748X 12000029 184946X505 121749X STD551137 73540600 194746 194729 199676X428 186737 194845 186095X428 17000612 194732 19183812 73900600 73940800 188967 74760636 197636 197636 197636 197246 194747 194748 73971000 194740 194747 194748 73971000 194740 194741 17000512 199849 194734 71020748 194737 73900700 199162 196197	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

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

ENGINE

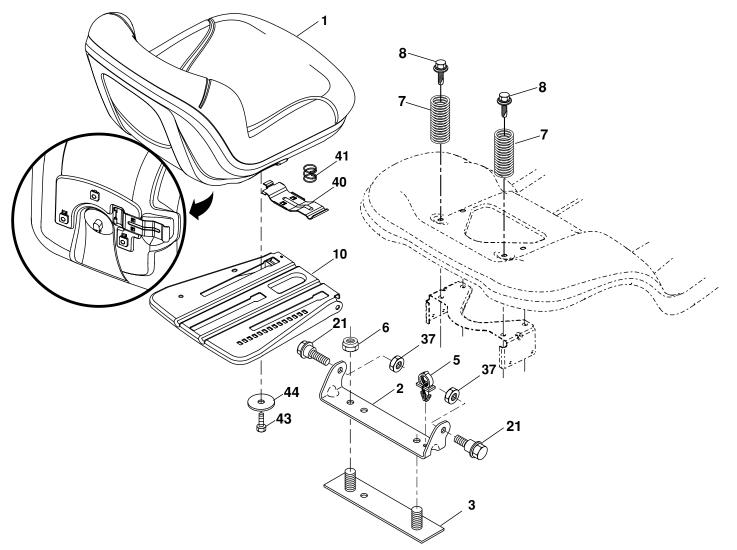


KEY NO.	PART NO.	DESCRIPTION
1		Engine Kohl Model No. SV740-0015 (See Engine Breakdown)
2	149723	Muffler
9	194320	Keeper Asm. Belt Engine
11	179335	Clutch Electric
12	194343	Pulley Engine
15	193499	Tank Fuel 4.0
18	195951	Cap Asm
20	177328X428	Control Throttle
21	191611	Screw 10 x 3/4 Single Lead-Hex
22	187767X428	Control Choke
28	8543R	Fuel Line
29	137180	Spark Arrester Kit
31	145006	Clip Push-In Hinged
37	123487X	Clamp Hose
41	126197X	Washer 1-1/2 OD x 15/32 ID x .250

KEY NO.	PART NO.	DESCRIPTION
42 45 69 70 71 81 82 84 85 86 87 90	STD551143 73510400 146629 146699 146700 148456 181654 17120616 179953 184632 198239 17000616	Washer Lock 7/16 Nut Keps Hex 1/4-20 unc Shield Heat Muffler Gasket (Order parts from mfgr.) Tube Exhaust LH Tube Exhaust RH Tube Drain Oil Easy Plug Drain Oil Screw 3/8-16 x 1 Bolt Hex 7/16-20 x 3.75 Gr. 5 Nut Hex Flange Toplock M8-1.25 Bolt 5/16-18 unc x 1 w/Sems Screw 3/8-16 x 1
NOTE	E: All compor 1 inch = 25	nent dimensions given in U.S. inches .4 mm

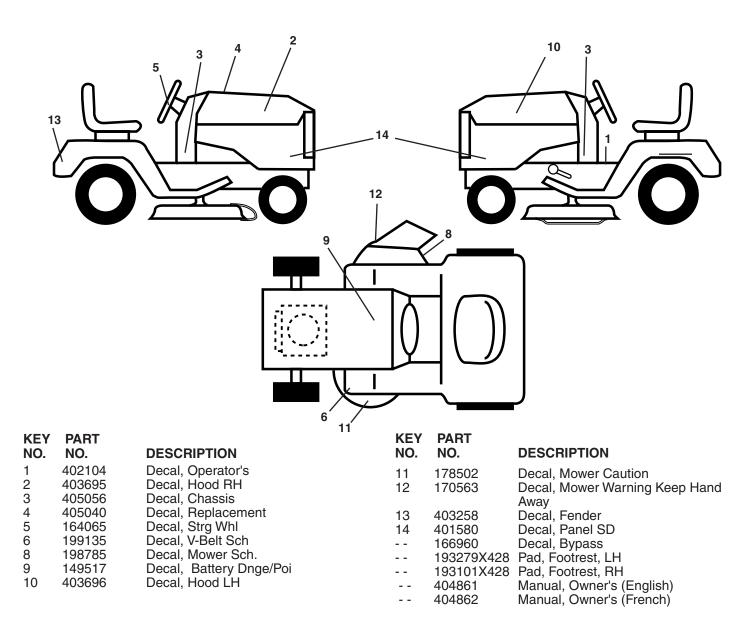
TRACTOR - - MODEL NUMBER 944.606090

SEAT ASSEMBLY

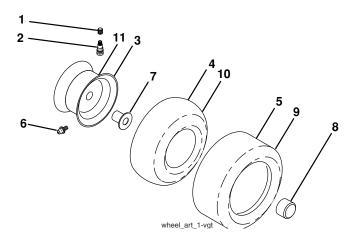


seat-tex_7-vgt

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 5 6	197528 180166 140675 145006 STD541437	Seat Bracket Pivot Fender Strap, Asm Fender Clip, Push In, Hinged Nut, Lock W/Ins. 3/8-16 unc	21 37 40 41 43	171852 STD541431 197661 198200 74760612	Bolt, Shoulder 5/16-18 Nut, Lock 5/16-18 unc Handle Slide Seat Spring Latch Seat Bolt Fin Hex 3/8-16 unc x 3/4
7 8 10	124181X 171877 196977	Spring, Seat Cprsn Bolt 5/16-18 uncx 3/4 w/Sems Pan, Seat	44	19133812	Washer 13/32 x 2-3/8 x 12 Ga. ent dimensions given in U.S. inches



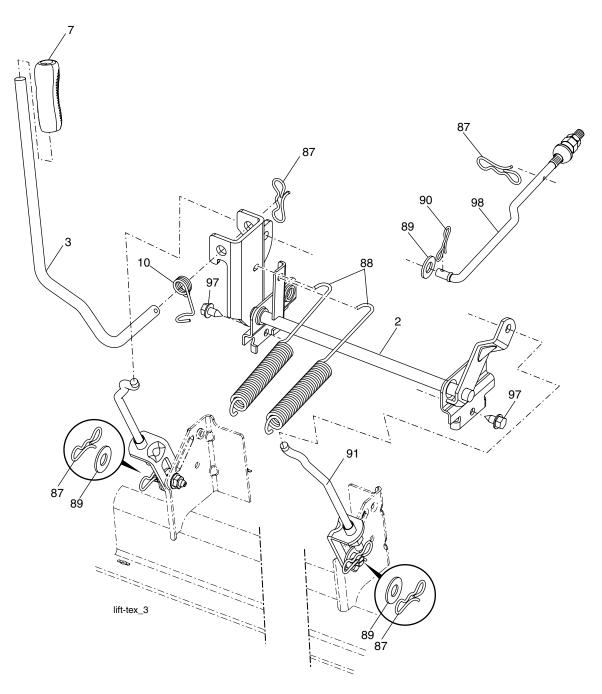
WHEELS AND TIRES



KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106228X643	Rim Assembly, Front
4	59904	Tube, Front (Service Item Only)
5	106230X	Tire, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	104757X643	Cap, Axle (Front Wheel Only)
9	105588X	Tire, Rear
10	7152J	Tube, Rear (Service Item Only)
11	106227X643	Rim Assembly, Rear
	144334	Sealant, Tire (10 oz. Tube)

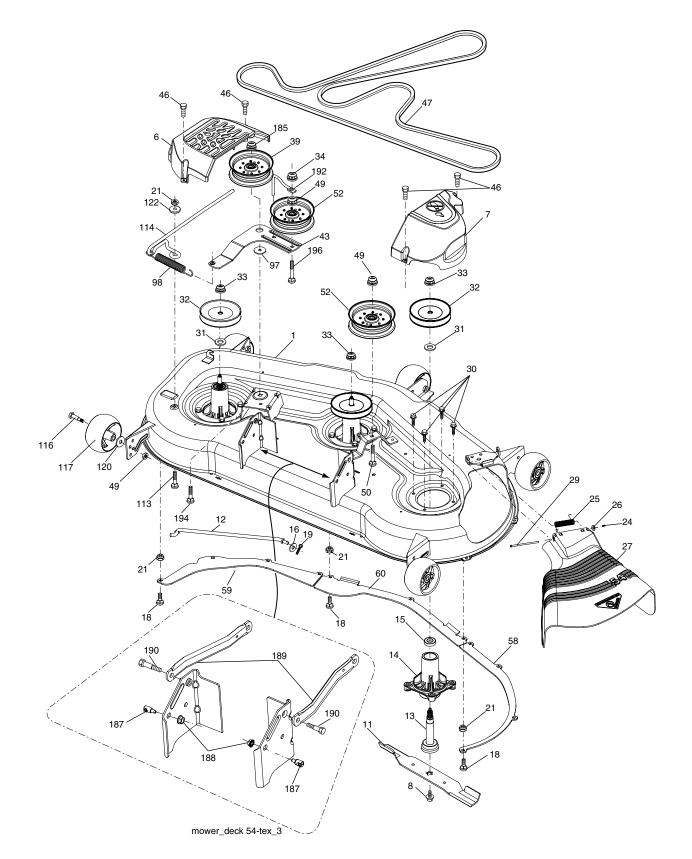
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

MOWER LIFT



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2	195223	Shaft Asm., Lift	90	194208	Pin Cotter 5/16 Bow Tie Lock
3	195230	Lever Asm., Lift Rh	91	403407	Link Lift Susp Mower Rear
7	196492	Grip, Lever	97	17060612	Screw 3/8-16 x .75 Smgml Tap/R.Z
10	196314	Spring Torsion	98	195264	Link Lift Susp. Front Mower
87	194209	Pin Cotter 7/16 Bow Tie Lock			
88	195304	Spring Lift Assist	NOTE		nent dimensions given in U.S. inches
89	19191912	Washer Clear Zinc		1 inch = 25	5.4 mm

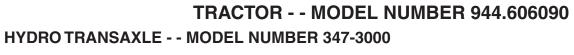
MOWER DECK

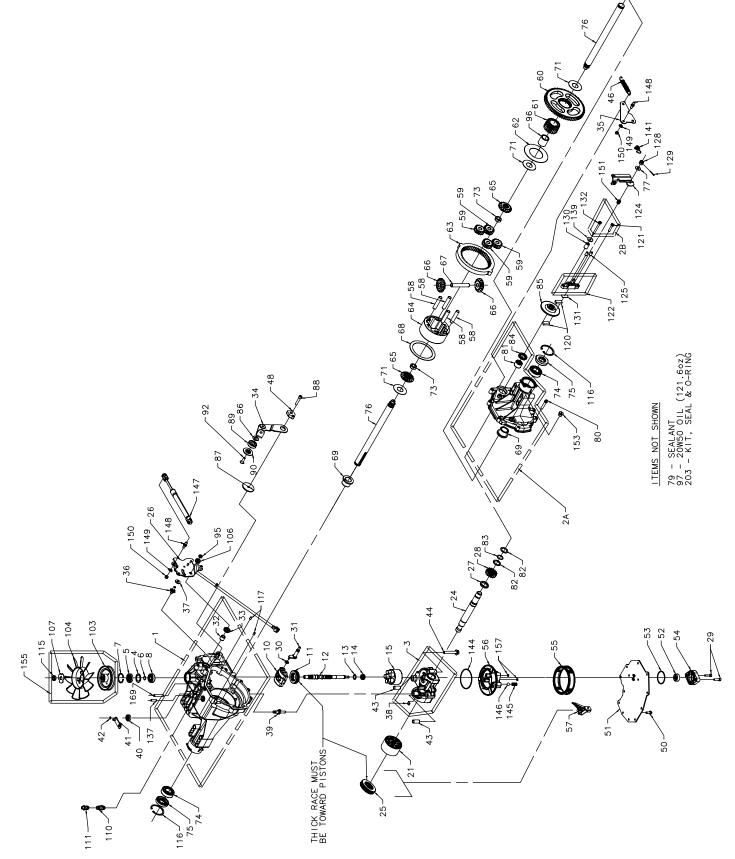


TRACTOR - - MODEL NUMBER 944.606090

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 6	195632X613 196066	Deck Weldment Mower Cover Mandrel LH	50 52	STD533720 196106	Bolt RDHD SQNK 3/8-16UNC x 2 Pulley Idler Clutching
7	197181	Cover Mandrel RH	58	187342	Baffle Right
8	174365	Bolt 7/16 Asm. Blade	59	187344	Baffle Left
	187255	Blade Mulching	60	187607	Baffle Center
11	187256	Blade Bagging	97	178515	Washer Hardened
12	400337	Rod Anti-Sway	98	196105	Spring Drive
13	187291	Shaft Asm. w/Lower Bearing	113	72110508	Bolt Rdhd Sqnk 5/16-18 x 3/4
14	187281	Housing, Mandrel	114	187556	Rod Tension Relief
15	110485X	Bearing, Ball, Mandrel	116	193406	Bolt, Shoulder
16 18	19131312 72140505	Washer 13/32 x 13/16 x 12 Ga. Bolt Rdhd Sqnk 5/16-18 x	117 120	174873 19132012	Gauge Wheel Washer 13/32 x 1-1/4 x 12Ga.
19	194208	Pin Cotter 5/16 Bow Tie Lock	120	187557	Bushing Tension Relief
21	STD541431	Nut, Crownlock 5/16-18 unc	185	73900700	Nut Lock Flange 7/16-14 Gr. 5
24	105304X	Cap Sleeve	187	195161	Stud Fastener w/"D" Anti-Rotation
25	178102	Spring, Torsion	188	73900500	Nut Lock Hex Flange 5/16-18
26	110452X	Nut, Push	189	195185	Arm Susp. Mower Řear
27	187257X428	Deflector Shield	190	196539	Bolt Shoulder
29	131491	Rod, Hinge	192	198468	Keeper Belt Idler
30	173984	Screw, Thdroll Washer Head	194	72140716	Bolt Carr Sqnk 3/8-16 x 2-1/4
31	187690	Washer, Spacer Mower Vented	196	72140620	Bolt Rdhd Sqnk 3/8-16 x 2-1/2 Gr. 5
32	173436	Pulley, Mandrel		187254	High Lift Blade
33	400234	Nut, Flg. Top Lock Nut Crownlock 3/8-16UNC		187292	Mandrel Asm. Service (Includes Key Nos. 13-15 and 33)
34 39	STD541437 196104			403349	Replacement Mower, Complete
43	196065	Pulley, Idler, Stationary Arm, Idler		400049	Replacement Mower, Complete
46	137729	Screw, Thdroll. 1/4-20 x 5/8	NOTE		ent dimensions given in U.S. inches
47	196103	V-Belt, Mower		1 inch = 25.	4 mm
49	73900600	Nut, Lock Flg. 3/8-16 unc			

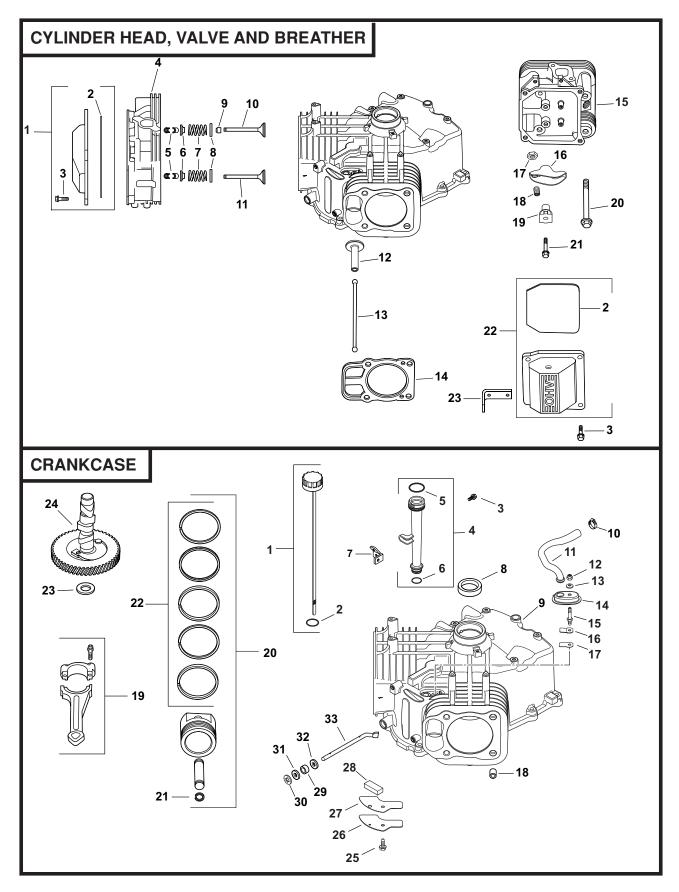




TRACTOR - - MODEL NUMBER 944.606090

HYDRO TRANSAXLE - - MODEL NUMBER 347-3000

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	161122	Kit, Housing Main Main Housing Lip Seal Flange Bearing	74 75	169535 161157	Bearing, Ball (310-3000) Seal, Lip (310-3000)
2a	193015	Trunnion Bushing Cradle Bearing Kit, Housing R/H R.H. Housing Flange Bearing Needle Bearing (Sce1412) Lip Seal (.875 ID X	76 77 79 80	161158 142884 178322 161159	Shaft, Axle (310-3000) Washer, Flat Sealant Tube Screw, Torx Head 5/16-18 (310-3000)
2b	193016	1.3 OD X.25) Kit, Brake Bolt Bolt, Hex HD 1/4-20 X 1.25 W/patch Bolt,	81 82 83	161160 161161 161162	Bearing, Needle (210-3000) Washer, Flat (0.880 ld) (310-3000) Ring, Retaining (310-3000)
3	404259	Hex Hd 1/4-20 X 2.25 W/patch Kit, Center Section Center Section Bushing.50 X.60 X.50	84 85 86	161163 161164 170418	Seal, Lip (.875 ID X 1.38 OD X.25) (310-3000) Brake Disc (310-3000) Washer, .5 X 1.0 X.032
		Bushing.90 X 1.02 X.75 Plate, Bypass Check Plug Assembly,.044 Check Plug Assembly,.027	87 88 89	178323 178784 178783	Spacer, .32 X 1.96 X.15 Screw, Socket HD Cap 5/16-24 X 1.5 Bearing, Ball.62 X 1.38 X.44
4 5 6	161125 142932 142928	Spacer (BDP, Bdu 10) Seal, Lip Retaining Ring	90 92 95	178786 178787 169537	Spacer, Locating Screw, Countersunk 5/16-18 X 1.0 Nut, Nylon Insert Hex Lock 5/16-24
7 8 10	142933 142934 169524	Retaining Ring Bearing, Ball Swash Plate (BDP, BDU 10)	96 97 103	169538 20w-50 170440	Bearing, Sleeve (310-3000) Oil 122 Oz Pulley 3.68
11 12 13	173159 161126 142978	Bearing, Thrust (10cc) Shaft, Input (310-3000) Washer, Block Thrust	104 106 107	170439 161166 199658	Fan 7.0, 10 Blade Spacer, Trunnion (310-3000) Washer, Od Slotted, 53 X 1.63 X.06
14 15	142977 169898	Spring, Helical Compression Kit, Cylinder Block (1000) 10cc Cylinder Block 10cc Piston 10cc Piston Spring Piston Seat Washer	110 111 115 116	150813 150812 150794 169539	O-ring Fitting, Plastic Hose O-ring Breather Vent, Plastic Vent, Plastic Vent, Cap Hex Nut 1/2-20 Ring, Retaining (310-3000)
21	150786	Block, (Bd-21& Iht) 21 CC Cylinder Block Piston Seat Washer 21 CC Piston 21cc Piston Spring	117 120 121	161168 142883 193019	Pin Brake Puck Bolt, Hex HD 1/4-20 X 1.25 W/patch
24 25 26	161127 169526 404260	Shaft, Motor (310-3000) Bearing, Thrust (21cc) Assembly, GT RCS	122 124 125	178329 178330 170409	Kit, Brake Yoke Brake Arm Pin, Brake Actuating
27 28 29	161129 161130 169527	Spacer (310-3000) Gear, 16T Pinion Capscrew	128 129 130	170415 170416 170411	Nut, Castle 5/16-24 Pin, Cotter 3/32x3/4 Spacer, Brake Torsion Spring
30 31 32	142941 169887 161133	Guide Block (Bd-21) Trunnion, Tapered Square Bearing, Journal	131 132 139	142882 193020 161176	Brake Puck Plate Bolt, Hex HD 1/4-20 X 2.25 W/patch Washer, Flat
33 34 35 36	142940 404261 404262 169871	Seal, Lip Arm, Return Bracket, Damper Stud DB End 5/16-24 X 1.5	141 144 145 146	178335 169545 169546 169547	Spring, Brake Arm Bias O-ring Spring, Relief Steel Ball 7/16
37 38 39	142967 184694 169529	Friction Puck Kit, Bypass Plate Bypass Actuator (IHT)	147 148 149	404264 178802 178808	Damper Stud, Threaded Ball Washer, 5/15 Lock
40 41 42	142945 142952 142953	Seal, Lip Bypass Arm Retaining Ring	150 151 152	178804 170417 178336	Nut, Hex 5/16-18 Brake Spring Brake Pull Rod
43 44 46	142965 150797 404263	Pin Bolt 3/8-24 X 2-1/2 Spring, 4 In Extension	153 155	170434 178337	Plug, Straight Thread 9/16-18 Kit, Fan/pulley Nut, Jam 1/2-20 Washer, Od Slotted.53 X 1.63 X.06
48 50 51	178792 178343 169530	Puck, Adjusting Screw, Hex Head Washer Cap Screw (IZT) 1/4-20 X Lower Cover	157 169 203	169548 184701 178338	Pulley Fan O-ring Pin, Spring 5/16 X 1.75 Kit, Seal
52 53 54	169531 144581 161139	Geroter Assembly O-ring Charge Pump Housing	200	170000	Lip Seal 15 X 5 X 37 Lip Seal 12 X 25 X 7 Lip Seal 10 X 25 X 7
55	178321	Kit, Filter Gasket.10 X .16 X 4.24 Filter			O ['] -ring.103 X 1.862 Seal 25 X 52 X 10 Lip Seal.875 ID X 1.3 OD X.25
56 57 58	169533 161142 161143	Charge Manifold 310-3000 Retainer, Motor Bearing (310-3000) Pin, Carrier (310-3000)			O-ring.070 X.239 Kit, O-ring, Manifold Pin, Spring 5/16 X 1.75
59 60 61 62	161144 161145 161146 161147	Gear, 15T Planet (310-3000) Gear, 67T Spur (310-3000) Gear, 21T Sun (310-3000) Plate, Planet Thrust (310-3000)	900	199651 All Componen	Pin, Spring 1/4 X 1.00 Transaxle t Dimensions Given In U.S. Inches 1 Inch = 25.4
63 64 65	161147 161148 161149 161150	Gear, 51T Ring (310-3000) Carrier, Planetary (310-3000) Gear, Differential Bevel (310-3000)	mm		
66 67 68 69	161151 161152 161153 169534	Gear, Differential Bevel Pinion (310-3000) Shaft, Differential (310-3000) Plate, Differential Thrust (310-3000) Bearing, Flange (310-3000)			
71 73	161155 161156	Washer, Flat (1.00 ld) (310-3000) Nut, 5/8-18 Hex Jam (310-3000) 45	5		



TRACTOR - - MODEL NUMBER 944.606930 KOHLER ENGINE - MODEL NUMBER SV740, TYPE NUMBER 0015

HEAD/VALVE/BREATHER

CRANKCASE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	24 755 141-S 1	Kit, valve cover - plain	1	24 038 04-S 1	Kit, dipstick (Includes 2)
	_	(Includes 2,3 [qty. 4])	2	25 153 02-S 1	O-Ring
2	24 153 28-S 1	O-Ring	3	M-545013-S 1	Screw, flg thd frm M5x0.8x13
3	M-651030-S 8	Screw, flg M6x1.0x30	4	12 123 04-S 1	Tube, oil fill (Includes 5,6)
4	32 318 01-S 1	Head assembly, #1 cylinder	5	12 153 02-S 1	O-Ring, upper oil fill tube
	_	(Includes 20 & head gasket)	6	12 153 01-S 1	O-Ring, lower oil fill tube
5	12 755 03-S 4	Kit, retainer	7	24 126 19-S 1	Bracket, oil fill tube
6	12 173 01-S 4	Cap, valve spring	8	24 032 01-S 1	Seal, oil
7	24 089 02-S 4	Spring, valve	9	1	Crankcase (USE: Short Block)
8	235011-S 4	Retainer, spring	10	25 237 14-S 1	Clamp, hose
9	66 032 05-S 2	Seal, valve stem	11	32 326 04-S 1	Hose, breather
10	24 017 01-S 2	Valve, intake (Std.)	12	M-547050-S 1	Nut, lock M5x0.8
	24 017 02-S 2	Valve, intake (.25)	13	32 468 01-S 1	Washer, sealing
11	24 016 01-S 2	Valve, exhaust (Std.)	14	32 081 02-S 1	Housing, breather
10	24 016 02-S 2	Valve, exhaust (.25)	15	32 072 02-S 1	Stud, breather cover
12	32 019 01-S 4	Tappet	16	24 018 04-S 1	Retainer, breather reed
13	32 411 02-S 4	Rod, push	17	12 402 02-S 1	Reed, breather
14	24 841 03-S 2	Kit, cylinder head gasket	18	24 380 16-S 6	Pin, locating
		(Includes head mounting	19	24 067 20-S 2	Connecting Rod (Std.)
		hardware & 24 041 49-S,	20	32 874 06-S 2	Piston w/Ring Set (Std.)
4.5	00.010.00.0	24 153 27-S)	01	04.040.04.0	(Includes 21,22)
15	32 318 02-S 1	Head assembly, #2 cylinder	21	24 018 01-S 4	Retainer, piston pin
10	00 400 00 0 4	(Includes 20 & head gasket)	22	24 108 11-S 2	Ring Set (Std.)
16	32 186 02-S 4	Arm, rocker	23	12 422 10-S	A.R. Shim, camshaft (yellow .034")
17	32 100 04-S 4	Nut, M10x0.75		12 422 09-S	A.R. Shim, camshaft red .032")
18	32 086 03-S 4	Screw, set		12 422 13-S	A.R. Shim, camshaft (black .04")
19	24 599 01-S 4	Pivot, rocker arm		12 422 07-S	A.R. Shim, camshaft (white .028")
20	12 086 16-S 8	Screw, flg M10x1.5x90		12 422 08-S	A.R. Shim, camshaft (blue .03")
21	32 086 04-S 4	Screw, flg M6x1.0x45		12 422 11-S	A.R. Shim, camshaft (green .036")
22	32 096 06-S 1	Kit, valve cover - breather	04	12 422 12-S	A.R. Shim, camshaft (gray .038")
00	04 445 01 0 1	(Includes 2)	24	32 012 01-S 1	Kit, camshaft
23	24 445 01-S 1	Strap, lifting	05	M CAEOLO C 1	(Includes 25 357 14-S)
NUTI		Cooket, exhaust manifold	25	M-645016-S 1	Screw, flg thd frm M6x1.0x16
	24 041 49-S 1	Gasket, exhaust manifold	26	32 096 04-S 1	Cover, breather
	24 153 27-S 1	O-Ring, intake port	27	32 041 01-S 1	Gasket, breather cover
			28	32 050 01-S 1	Filter, breather
			29 20	28 032 09-S 1	Seal, governor cross shaft
			30	24 018 09-S 1	Ring, retainer
			31	M-931010-S 1	Washer, flat 9 mm

47

32 33 24 468 15-S 1

24 144 38-S 1

25 357 14-S 1

NOT ILLUSTRATED

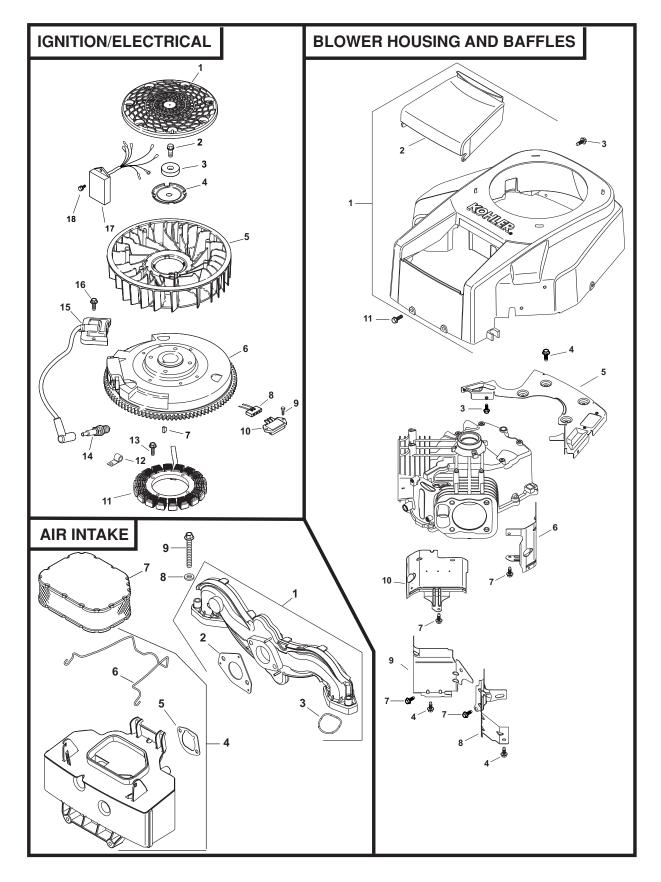
1 inch = 25.4 mm

Washer, flat 11/32"

Shaft, governor cross

Lubricant, camshaft

NOTE: All component dimensions given in U.S. inches



TRACTOR - - MODEL NUMBER 944.606930 KOHLER ENGINE - MODEL NUMBER SV740, TYPE NUMBER 0015

IGNITION/ELECTRICAL

KEY NO.	PART NO.		DESCRIPTION
1	32 162 03-S		Screen, grass
2	12 086 14-S		Screw, flg M10x1.5x45
3	12 468 03-S		Washer, flat 3/8"
4	20 146 02-S	1	Plate, fan mounting
5	32 157 01-S	1	Fan
6	32 025 05-S	1	Flywheel
7	X-42-15-S	1	Key
8	236602-S	1	Connector (3 contact)
9	M-551016-S	2	Screw, hvy flg M5x0.8x16
10	41 403 09-S	1	Rectifier-regulator
11	237878-S	1	Kit, 15 amp stator
12	47 154 01-S	1	Clip, cable
13	M-548025-S	2	Screw, thd frm M5x0.8x25
14	25 132 12-S	2	Spark plug
15	24 584 36-S	2	Module, ignition
16	M-545020-S	4	Screw, flg thd frm M5x0.8x20
17	24 584 31-S	1	Module, speed advance
18	M-448010-S	2	Screw, thd frm M4x0.7x10
NOT IL	LUSTRATED		
	32 176 03-S	1	Harness, wiring
	25 454 03-S	2	Tie, wire

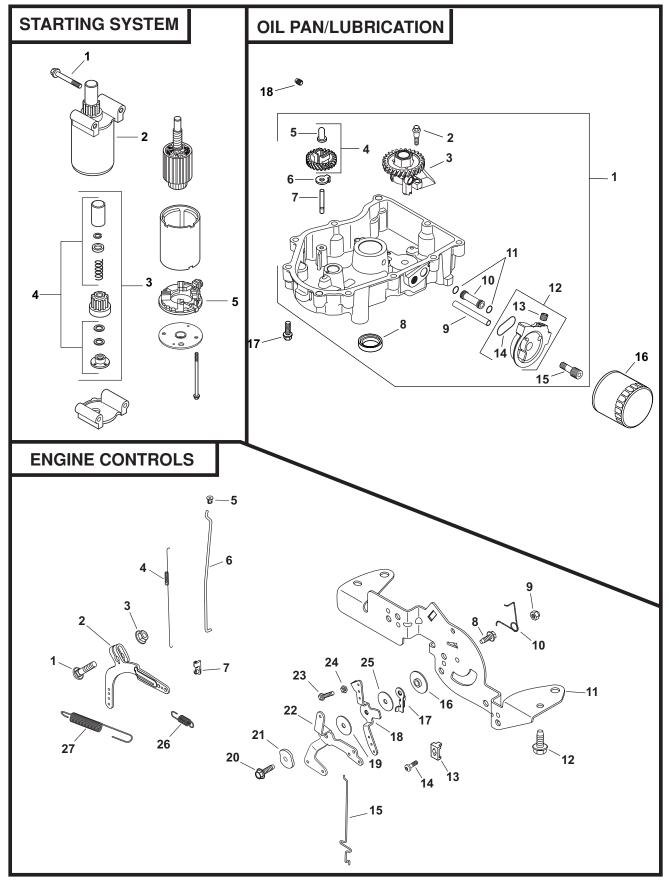
BLOWER HOUSING & BAFFLES

1	32 027 03-S	1	Housing, blower (Includes 2, 41 037 10-S)
2	32 096 08-S	1	Cover, air cleaner
3	M-545016-S	6	Screw, flg thd frm M5x0.8x16
4	M-645016-S	6	Screw, flg thd frm M6x1.0x16
5	32 146 05-S	1	Plate, backing w/rectifier-
			regulator opening
6	32 063 05-S	1	Baffle, cylinder barrel - #2 side
7	M-545010-S	5	Screw, flg thd frm M5x0.8x10
8	32 063 02-S	1	Baffle, valley - #2 side
9	32 063 03-S	1	Baffle, valley - #1 side
10	32 063 04-S	1	Baffle, cylinder barrel - #1 side
11	24 086 12-S	2	Screw, tap M6x1.7x18
NOT I	LLUSTRATED		
	41 037 10-S	1	Nameplate, service

AIR INTAKE/FILTRATION

1	24 164 51-S	1	Manifold, intake (Includes 2,3)
2	24 041 52-S	1	Gasket, carburetor
3	24 153 27-S	2	O-Ring, intake port
4	32 094 04-S	1	Base, air cleaner (Includes 5,6)
5	24 041 14-S	1	Gasket, air cleaner base
6	32 344 02-S	1	Latch, air cleaner element
7	32 083 03-S	1	Element, air cleaner
8	X-25-63-S	1	Washer, flat 1/4"
9	M-651040-S	4	Screw, flg M6x1.0x40

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



TRACTOR - - MODEL NUMBER 944.606930 KOHLER ENGINE - MODEL NUMBER SV740, TYPE NUMBER 0015

STARTING SYSTEM

52 050 02-S 1

Filter, oil

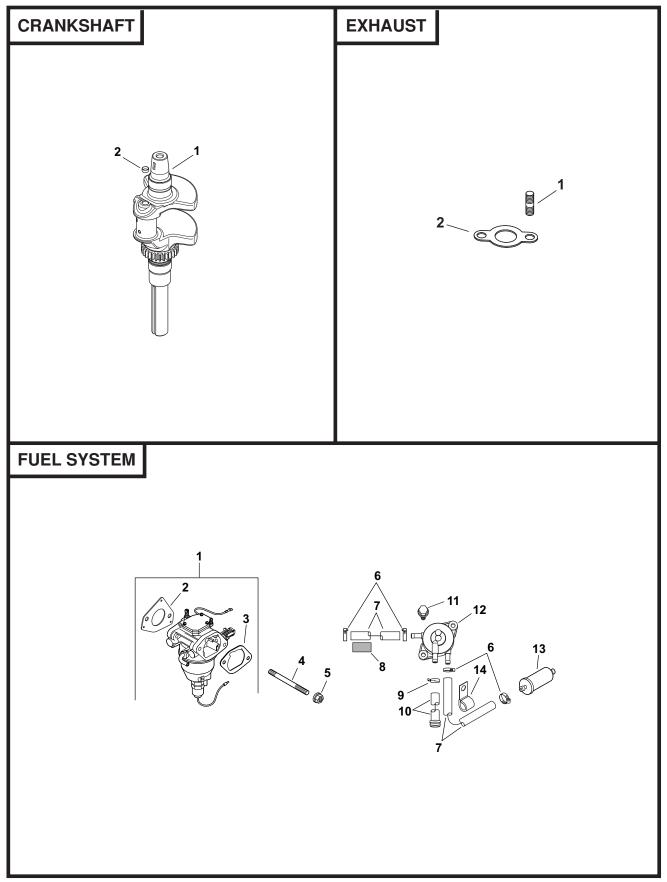
24 086 17-S 10 Screw, flg M8x1.25x45

25 139 57-S 1 Plug, sq hd solid 3/8"

KEY NO.	PART NO.		DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	M-839080-S	2	Screw, flg M8x1.25x70	1	24 211 03-S 1	Bolt, rd hd sge neckM6x1.0x25
2	32 098 01-S	1	Starter assembly (Includes 3-5)	2	24 090 33-S 1	Lever, governor
3	12 755 39-S		Kit, drive	3	M-641060-S 1	Nut, flg M6x1.0
4	12 755 38-S	1	Kit, drive parts	4	24 089 01-S 1	Spring, linkage
5	12 243 04-S	1	Commutator, end cap	5	25 158 08-S 1	Bushing, linkage retaining
			, I	6	24 079 04-S 1	Linkage, throttle
				7	25 158 11-S 1	Bushing, throttle linkage
OIL P/	AN/LUBRICAT	ION		8	M-545016-S 1	Screw, flg thd frm M5x0.8x16
				9	M-547050-S 1	Nut, lock M5x0.8
KEY	PART			10	24 089 03-S 1	Spring, choke return
NO.	NO.	DE	SCRIPTION	11	24 126 161-S 1	Bracket, control
				12	M-645016-S 4	Screw, flg thd frm M6x1.0x16
1	32 199 02-S	1	Pan assembly, oil (Includes 2-15)	13	12 237 01-S 2	Clamp, cable
2	32 086 01-S	2	Screw, flg thd frm shd M6x1.0x13	14	24 086 43-S 2	Screw, lbd thd frm M5x0.8x16
3	32 393 10-S	1	Pump assembly, oil	15	24 079 22-S 1	Linkage, choke
4	24 043 12-S	1	Kit, governor gear w/pin	16	24 112 27-S 1	Spacer, control assembly
			(Includes 5)	17	24 090 47-S 1	Lever, throttle actuator
5	12 380 01-S	1	Pin, governor regulating	18	24 090 13-S 1	Lever, throttle control
6	24 448 02-S	1	Tab, locking	19	24 468 01-S 1	Washer, flat 5.5 mm
7	12 144 02-S	1	Shaft, governor gear	20	M-545020-S 1	Screw, flg thd frm M5x0.8x20
8	52 032 08-S	1	Seal, oil (PTO end)	21	41 468 03-S 1	Washer, spring 1/4"
9	32 123 01-S	1	Tube, oil feed - filter to oil pan	22	24 090 05-S 1	Lever, choke
10	32 123 03-S	1	Tube, oil feed - oil pan to filter	23	M-403025-S 1	Screw, slt hd cap M4x0.7x25
11	24 153 01-S	2	O-Ring	24	M-446030-S 1	Nut, M4x0.7
12	32 029 07-S	1	Adapter, oil filter (Includes 13,14)	25	24 468 20-S 1	Washer, flat 5 mm
13	25 139 60-S	1	Plug, ctsk 1/8"	26	24 089 55-S 1	Spring, governor
14	32 153 04-S	1	O-Ring, oil filter adapter	27	24 089 25-S 1	Spring, governor
15	32 136 03-S	1	Nipple, oil filter			
10		-	Eilten eil	NOTE	- All a success success all	mensione silves in LLC inches

ENGINE CONTROLS

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



TRACTOR - - MODEL NUMBER 944.606930 KOHLER ENGINE - MODEL NUMBER SV740, TYPE NUMBER 0015

CRANKSHAFT

KEY PART KEY PART NO. NO. DESCRIPTION NO. NO. DESCRIPTION 32 014 02-S 1 Crankshaft (Includes 2) 32 853 04-S 1 1 1 Kit, carburetor w/gaskets 2 52 139 09-S 1 Plug, cup (Includes 2,3) 2 Gasket, carburetor 24 041 52-S 1 **EXHAUST** 3 24 041 14-S 1 Gasket, air cleaner base Stud, M6x1.0x106 M-629105-S 2 4 KEY PART 5 M-641060-S 2 Nut, flg M6x1.0 NO. NO. DESCRIPTION 6 25 237 14-S 4 Clamp, hose 7 25 111 34-S 2 Line, fuel (24" - Cut to length) 1 25 072 04-S 4 Stud, M8x1.25x33 8 25 431 10-S 1 Sleeve, anti-abrasion Gasket, exhaust manifold 2 24 041 49-S 2 9 25 237 01-S 1 Clamp, hose 1 25 113 39-S 1 Decal, clear laminate 10 32 326 02-S 1 Hose, fuel pump Screw, tap M6x1.7x18 11 24 086 12-S 2 NOT ILLUSTRATED Pump, pulse fuel 12 24 393 16-S 1 32 522 02 1 Short Block 13 24 050 10-S 1 Filter, fuel 32 755 01-S 1 Kit. overhaul 47 154 01-S 1 14 Clip, cable NOT ILLUSTRATED For Service of Keihin Carburetors

FUEL SYSTEM

24 757 36-S	1	Kit, service choke repair (Includes 2.3)
24 757 38-S	1	Kit, service gasket repair (Includes 2,3)
24 757 44-S	•	Kit, float (Includes 2,3)
24 757 45-S 24 757 46-S	•	Kit, solenoid valve (Includes 2,3) Kit, overhaul (Includes 2,3)

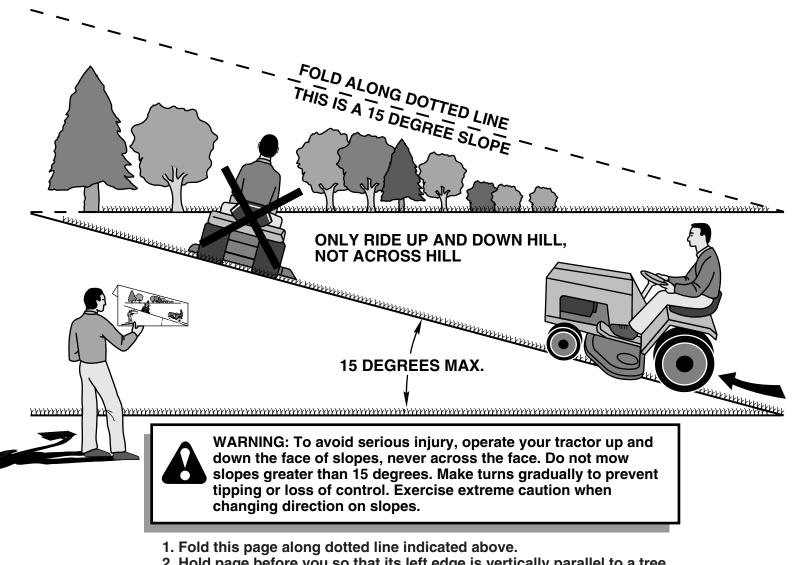
For Service of Nikki Carburetors

24 757 18-S	1	Kit, overhaul
		(Includes 2,3 & Float Kit)
24 757 19-S	1	Kit, service choke repair
		(Includes 2,3)
24 757 20-S	1	Kit, service gasket repair
04 757 00 0		(Includes 2,3)
24 757 22-S	1	Kit, solenoid valve (Includes 2,3)

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

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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