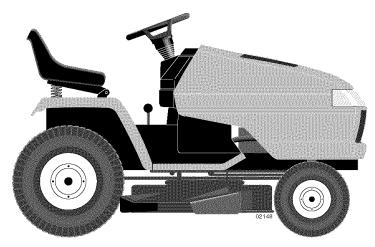
Owner's Manual

CRAFTSMAN[®]

GARDEN TRACTOR

27.0 HP, 54" Mower Electric Start 6 Speed Transaxle

Model No. 917.276330





This product has a low emission engine which operates differently from previously built engines. Before you start the engine, read and understand this Owner's Manual.

IMPORTANT:

Read and follow all Safety Rules and Instructions before operating this equipment. For answers to your questions about this product, Call: **1-800-659-5917** Sears Craftsman Help Line 5 am - 5 pm, Mon - Sat

SEARS, ROEBUCK AND CO., HOFFMAN ESTATES, IL 60179 U.S.A. Visit our Craftsman website:www.sears.com/craftsman

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WARRANTY

LIMITED WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace free of charge any parts that are found to be defective in material or workmanship according to the guidelines of coverage listed below. Sears will also provide free labor for these applicable warranted parts for the two full years. During the first 30 days of purchase, there will be no charges to service the product at your home for issues covered by this warranty. (See exclusions below). For your convenience, IN HOME warranty service will still be available after the first 30 days of purchase, but a trip charge will apply. This charge will be waived if the Craftsman product is dropped off at an authorized Sears location. For the nearest authorized Sears location, please call 1-800-4-MY-HOME®. This warranty applies only while this product is within the United States.

This Warranty does not cover:

- Expendable items which become worn during normal use, including but not limited to blades, spark plugs, air cleaners, belts, and oil filters.
- Standard Maintenance Servicing, oil changes, or tune-ups
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, including but not limited to, damage caused by towing objects beyond the capability of the riding equipment, impacting objects that bend the frame or crankshaft, or over-speeding the engine.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the deck clear of flammable debris, or failure to maintain the equipment according to the instructions contained in the owner's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within 30 days of its purchase date.
- Normal deterioration and wear of the exterior finishes, or product label replacement.
- Riding equipment used for commercial or rental purposes.

LIMITED WARRANTY ON BATTERY

For ninety (90) days 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. During the first 30 days of purchase, there will be no charges to replace the battery at your HOME. After the first 30 days, for your convenience, IN-HOME warranty service will still be available but a trip charge will apply. This charge will be waived if the Craftsman product is dropped off at an authorized Sears location. For the nearest authorized Sears location, please call 1-800-4-MY-HOME®.

This battery warranty applies only while this product is within the United States.

This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

Sears, Roebuck and Co., Dept.817WA, Hoffman Estates, IL 60179

SAFETY RULES

IMPORTANT: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

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.

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

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

I. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blades.
- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.

- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.
- Operate machine only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating machine.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

SAFETY RULES

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.

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.

SAFETY RULES

- 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 are.
- 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 fuel-soaked 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 anvone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.

- Before and while backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

PRODUCT SPECIFICATIONS

Gasoline Capacity and Type:	5 Gallons Unleaded Re	gular		
Oil Type (API-SG-SL):	SAE 30 (abo SAE 5W30 (below 32°F	,		
Oil Capacity:	W/ Filter: W/O Filter:			
Spark Plug: (Gap: .040")	Champion C	QC12YC		
Ground Speed (MPH):	Lo: 0.7 1.4 2.3	Hi: 1.7 3.3 5.4		
Reverse:	0.9	2.1		
Tire Pressure:	Front: Rear:	14 PSI 10 PSI		
Charging System:	16 Amps @	3600 RPM		
Battery:	Amp/Hr: Min. CCA: Case size:	280		
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 a Sears or other qualified service center. 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".

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. In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears service center (See REPAIR PARTS section of this manual).

REPAIR PROTECTION AGREEMENTS

Congratulations on making a smart purchase. Your new Craftsman® product is designed and manufactured for years of dependable operation. But like all products, it may require repair from time to time. That's when having a Repair Protection Agreement can save you money and aggravation. Purchase a Repair Protection Agreement now and protect yourself from unexpected hassle and expense.

Here's what's included in the Agreement:

- Expert service by our 12,000 profesional repair specialists.
- Unlimited service and no charge for parts and labor on all covered repairs.
- Product replacement if your covered product can't be fixed.
- Discount of 10% from regular price of service and service-related parts not covered by the agreement; also, 10% off regular price of preventive maintenance check.
- Fast help by phone phone support from a Sears technician on products requiring in-home repair, plus convenient repair scheduling.

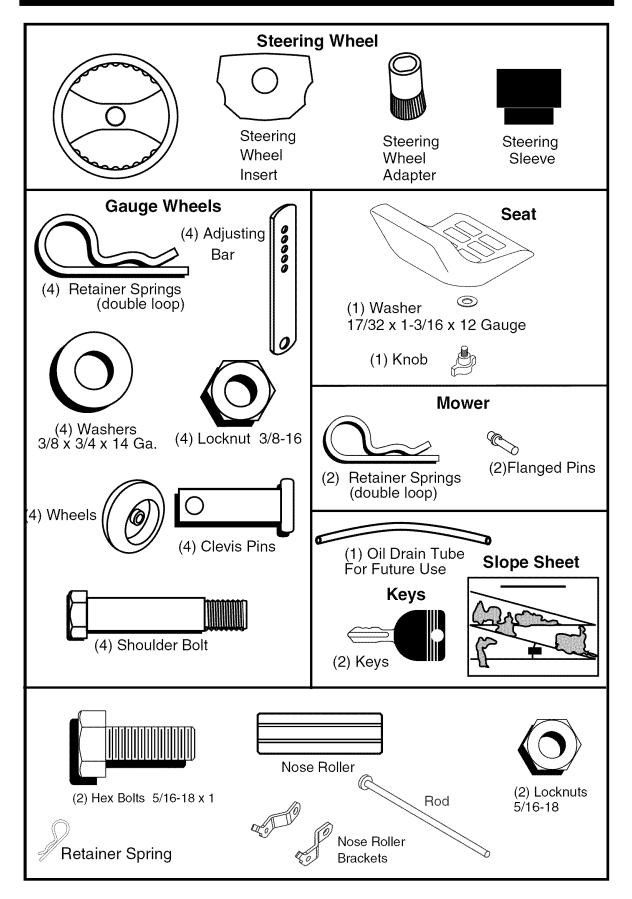
Once you purchase the Agreement, a simple phone call is all that it takes for you to schedule service. You can call anytime day or night, or schedule a service appointment online.

Sears has over 12,000 professional repair specialists, who have access to over 4.5 million quality parts and accessories. That's the kind of professionalism you can count on to help prolong the life of your new purchase for years to come. Purchase your Repair Protection Agreement today! **Some limitations and exclusions apply. For prices and additional information call 1-800-827-6655.**

SEARS INSTALLATION SERVICE

For Sears professional installation of home appliances, garage door openers, water heaters, and other major home items, in the U.S.A. call **1-800-4-MY-HOME**®

UNASSEMBLED PARTS



ASSEMBLY/PRE-OPERATION

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench
- (1) Pliers
- (1) 1/2" wrench (1) Utility knife
- (1) 3/4" socket with drive ratchet
- (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

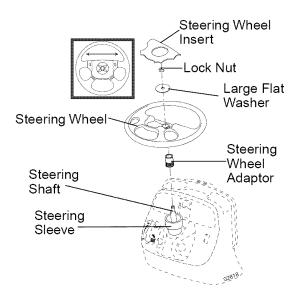
- 1. Remove all accessible loose parts and parts boxes from carton.
- 2. Cut along dotted lines on all four panels of carton. Remove end panels and lay side panels flat.
- 3. Remove mower and packing materials.
- 4. Check for any additional loose parts or cartons and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

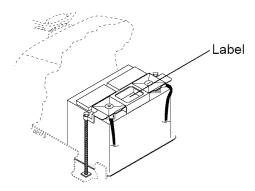
- 1. Remove locknut and large flat washer from steering shaft.
- 2. Position front wheels of the tractor so they are pointing straight forward.
- 3. Slide the steering sleeve over the steering shaft.
- 4. Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.
- Secure steering wheel to steering shaft with locknut and large flat washer previously removed. Tighten securely.
- 6. Snap steering wheel insert into center of steering wheel.
- 7. Remove protective materials from tractor hood and grill.

IMPORTANT: Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid.



CHECK BATTERY

1. Lift hood to raised position. **NOTE:** If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).

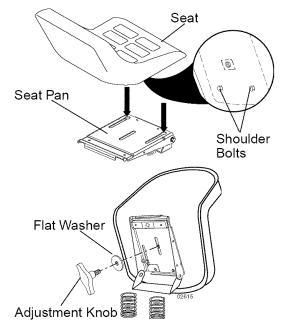


INSTALL SEAT

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- 2. Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.

- 3. Place seat on seat pan so head of shoulder bolts are positioned over the large slotted holes in pan.
- 4. Push down on seat to engage shoulder bolts in slots and pull seat towards rear of tractor.
- 5. Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
- 6. Lower seat into operating position and sit in seat.
- 7. Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- 8. Get off seat without moving its adjusted position.
- 9. Raise seat and tighten adjustment knob securely.



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

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

- 1. Press lift lever plunger and raise attachment lift lever to its highest position.
- 2. Release parking brake by depressing clutch/brake pedal.
- 3. Place gearshift lever in neutral (N) position.
- 4. Roll tractor forward off skid.

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

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

- 1. Be sure all the above assembly steps have been completed.
- 2. Check engine oil level and fill fuel tank with gasoline.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- 4. Place gear shift lever in neutral (N) position.
- 5. Press lift lever plunger and raise attachment lift lever to its highest position.
- 6. Start the engine. After engine has started, move throttle control to idle position.
- Depress clutch/brake pedal into full "BRAKE" position and hold. Move gearshift lever to 1st gear.
- 8. Slowly release clutch/brake pedal and slowly drive tractor off skid.
- 9. Apply brake to stop tractor, set parking brake and place gearshift lever in neutral position.

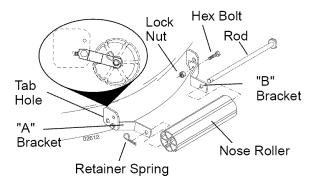
10. Turn ignition key to "STOP" position. Continue with the instructions that follow.

TO ATTACH NOSE ROLLER

1. Assemble brackets "A" and "B" to the inside of mower mounting brackets as shown. Tighten securely.

NOTE: Be sure bracket tabs are positioned in tab holes in mower brackets.

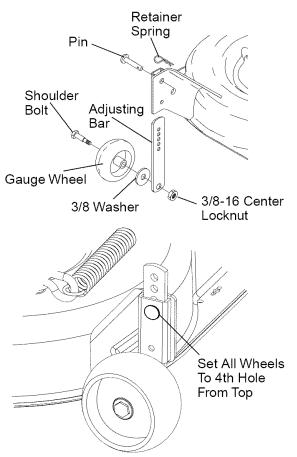
2. Position nose roller between brackets and install rod and retainer spring.



ASSEMBLE GAUGE WHEELS TO MOWER DECK

The gauge wheels are designed to keep the mower deck in proper position when operating mower.

- Slide gauge wheel bar down into bracket channel, Be sure that gauge wheel bar aligning holes are on top. Assemble gauge wheels as shown using shoulder bolts, 3/8 washers and 3/8-16 center locknuts and tighten securely.
- 2. For ease of mower to tractor assembly, set all the gauge wheels in the fourth hole from top. Retain with clevis pins and spring retainers.



INSTALL MOWER AND DRIVE BELT

See MOWER AND DRIVE BELT AS-SEMBLY Supplement Sheet for additional guidance on this assembly.

Be sure tractor is on level surface and mower suspension arms are raised with attachment lift control. Engage parking brake.

1. 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.

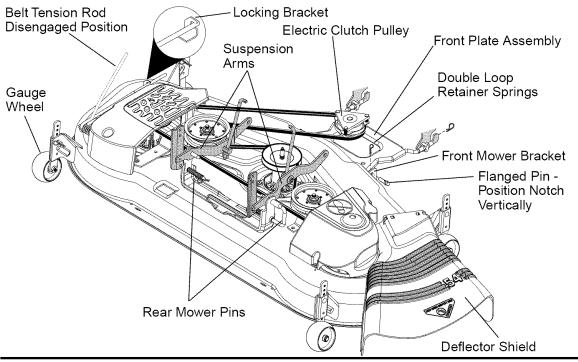
- 2. Remove plastic tie strap from mower belt and check belt for proper routing in all mower pulley grooves.
- 3. Slide mower under tractor until it is centered under tractor. DO NOT connect any pins. When properly centered the front mower brackets should be aligned so when the front suspension plate is lowered it should slide between the mower brackets.
- 4. Lower attachment lift lever to lowest position.
- 5. Cut plastic tie and lower front suspension plate.
- ATTACH FRONT PLATE From left side of mower, position front plate assembly between front mower brackets, align holes, position flanged pin notch vertically and insert the pin all the way. The notch is in line with the hole in pin.
- 7. Secure pin with double loop retainer spring between the plate and mower bracket. If necessary, move mower side-to-side to give space between plate and mower bracket.
- 8. Go to right hand side of mower and insert pin and retainer spring in the same manner.
- CONNECT REAR PINS Connect right hand side first. Pull out and hold the spring loaded pin, align hole in suspension arm and release pin. Be sure pin returns to fully seated position and is attached to the suspension arm.
- 10. Go to left side of mower and connect rear pin in the same manner.
- 11. Disengage belt tension rod.
- 12. From right side of tractor, install belt onto engine clutch pulley.

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

13. Engage belt tension rod on locking bracket.

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

- 14. Raise attachment lift lever to highest position.
- 15. 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 in "PRODUCT SPECIFICATIONS" section of this manual.

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

Before you operate your new tractor, we wish to assure that you receive the best performance and satisfaction from this Quality Product.

Please review the following checklist:

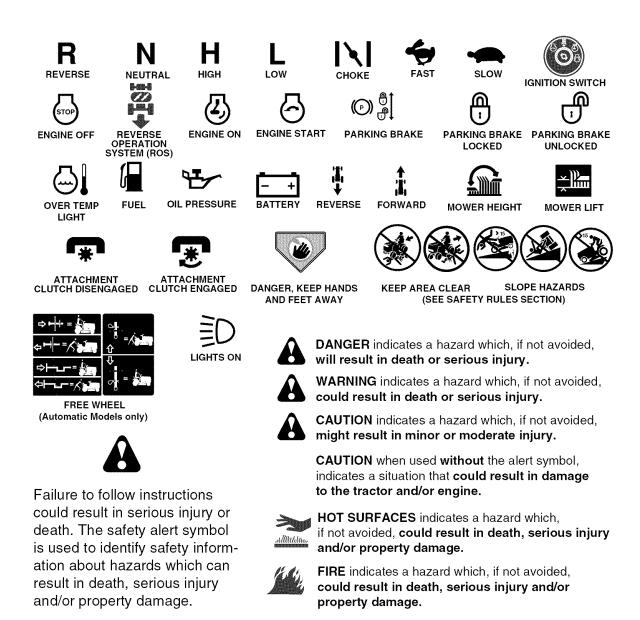
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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

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)
- 1 Maintenance sections in this manual).

OPERATION

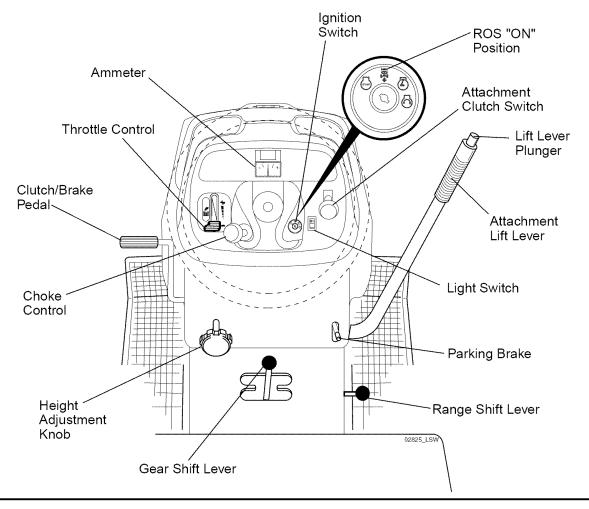
These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



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 safety standards of the American National Standards Institute.

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

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

ATTACHMENT LIFT LÉVER - Used to raise and lower the mower deck or other attachments mounted to your tractor. CHOKE CONTROL - Used when starting

a cold engine. CLUTCH/BRAKE PEDAL - Used for

declutching and braking the tractor and starting the engine.

GEARSHIFT LEVER - Selects the speed and direction of the tractor.

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower cutting height.

IGNITION SWITCH - Used for starting and stopping the engine.

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

LIGHT SWITCH - Turns the headlights on and off.

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

RANGESHIFT LEVER - Allows high (H) and low (L) speed for all forward and reverse gears.

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

THROTTLE CONTROL - Used to control engine speed.

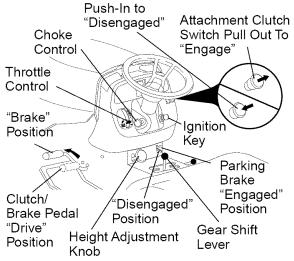


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

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



STOPPING

MOWER BLADES -

• To stop mower blades, push attachment clutch switch in to disengaged position.

GROUND DRIVE -

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

ENGINE -

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

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

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

IMPORTANT: Leaving the ignition switch in any position other than "STOP" will cause the battery to discharge and go dead.

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

CAUTION: Always stop tractor completely, as described above, before leaving the operator's position.

TO USE THROTTLE CONTROL

Always operate engine at full throttle.

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

TO USE CHOKE CONTROL

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

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- 2. Move gearshift and range shift levers to desired position.
- 3. Slowly release clutch/brake pedal to start movement.

IMPORTANT: Bring tractor to a complete stop before shifting or changing gears. Failure to do so will shorten the useful life of your transaxle.

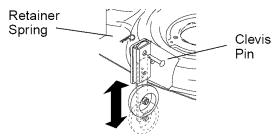
TO ADJUST GAUGE WHEELS

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:** Be sure tractor is on a flat level surface.

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- Lower mower and adjust mower to desired cutting height(See "TO ADJUST MOWER CUTTING HEIGHT" in this section of manual).
- 2. Remove retainer spring and clevis pin which secure each gauge wheel bar.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pin. Gauge wheels should be slightly off the ground.
- 4. Replace retainer spring into clevis pin.
- 5. Be sure all gauge wheels are in the same setting.

IMPORTANT: Be sure to readjust gauge wheels if you change the cutting height of the mower deck.



TO ADJUST MOWER CUTTING HEIGHT

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise (→) to raise cutting height.
- Turn knob counterclockwise () to lower cutting height.

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

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

TO OPERATE MOWER

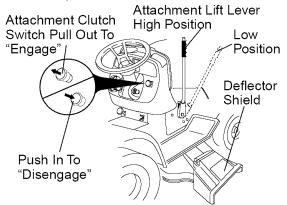
Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting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

- 1. Select desired height of cut.
- 2. Lower mower with attachment lift control.
- 3. Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES -

disengage attachment clutch control.

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



REVERSE OPERATION SYSTEM (ROS)

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

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

- 1. Depress clutch/brake pedal all the way down and hold.
- 2. With engine running, turn ignition key counterclockwise to ROS "ON" position.
- 3. Look down and behind before backing.
- 4. Move gear shift lever to reverse (R) position and slowly release clutch/brake pedal to start movement.
- 5. 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

AWARNING: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope. Use the slope guide at the back of this manual.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear and range shift lever to low (L) position. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

TO TRANSPORT

- Raise attachment lift to highest position with attachment lift control.
- · When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

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

TOWING CARTS AND OTHER ATTACH-MENTS

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.

- 1. Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See the 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 guantities that can be used within 30 days to assure fuel freshness.

ACAUTION: 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 16 tank or permanent damage may occur.

TO START ENGINE

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.

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- 2. Place gear shift lever in neutral (N) position.
- 3. Move attachment clutch to disengaged position.
- 4. 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.

6. 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)

- 7. 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.

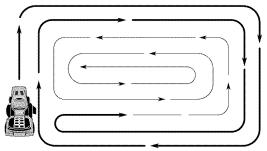
COLD WEATHER STARTING (50° F and below)

- 7. 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.
- The attachments can be used during the engine warm-up period 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.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- 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 already been cut. Have the cut area to the right of the tractor. 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.



- 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

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	E	SEFORE	EACHUS EVERY 8	HOURS	SHOURS SHOURS	HOUP	15 00 HOU	RS SEASON SEFORE S	SERVIC	ËS
	Check Brake Operation	~	V								
	Check Tire Pressure	~	V								
т	Check Operator Presence and ROS Systems	V									
R	Check for Loose Fasteners	V				V 5		~			
A C	Sharpen/Replace Mower Blades			V ₃							
Т	Lubrication Chart			~				1			
o	Check Battery Level			14							
Ř	Clean Battery and Terminals			1				V			
	Check Transaxle Cooling	T		V							
	Check V-Belts					~					
	Check Engine Oil Level	V	V								
	Change Engine Oil (with oil filter)				V _{1,2}			V			
Е	Change Engine Oil (without oil filter)			V 1,2				~			
Ň	Clean Air Filter			1/2							
G	Clean Air Screen			1/2							
I N	Inspect Muffler/Spark Arrester				~						
E	Replace Oil Filter (If equipped)					1,2					
	Clean Engine Cooling Fins					12					
	Replace Spark Plug					1	~				
	Replace Air Filter Paper Cartridge					1/2					
	Replace Fuel Filter						V				

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.

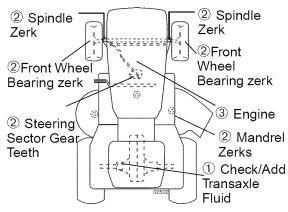
BEFORE EACH USE

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

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

5 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten

LUBRICATION CHART



①SAE 30 or 10w30 Motor Oil

2General Purpose Grease

3 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 shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be checked and adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

TIRES

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

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

OPERATOR PRESENCE SYSTEM AND REVERSE 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.

ROS "ON" Position

Engine "ON" Position (Normal Operating)





 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 kept sharp. Replace bent or damaged blades.

A 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

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

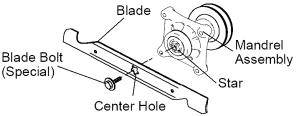
NOTE: Protect your hands with gloves and/or wrap blade with heavy cloth.

- 2. Remove blade bolt by turning counterclockwise.
- 3. Install new or resharpened blade with stamped "THIS SIDE UP" facing deck and mandrel assembly.

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

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

IMPORTANT: Special blade bolt is heat treated.



TO SHARPEN BLADE

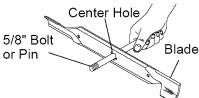
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

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

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

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



BATTERY

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

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.

• Recharge at 6-10 amperes for 1 hour. **NOTE:** The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

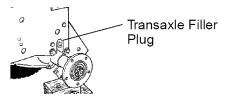
TO CLEAN BATTERY AND TERMINALS Corrosion and dirt on the battery and terminals_can cause the battery to "leak" power.

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

TRANSAXLE COOLING

Keep transaxle free from build-up of dirt and chaff which can restrict cooling. CHECK TRANSAXLE OIL LEVEL

- 1. Block up rear axle securely.
- 2. Remove left rear wheel by removing hub bolts.
- Remove filler plug from transaxle. Oil level must be even with plug threads. If necessary, fill with SAE 30 motor oil, API SG-SL. Replace filler plug.
- 4. Reassemble wheel to hub.



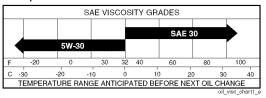
V-BELTS

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.

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.



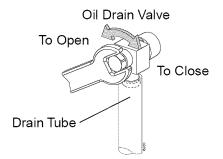
NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, they will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/ dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL

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.
- 1. Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- 2. Install the drain tube onto the fitting.
- Open drain valve by using a 7/16" (11mm) wrench turning counterclockwise.



- After oil has drained completely, close the drain valve turning clockwise. Use the 7/16" (11mm) wrench to apply a small amount of torque to keep it closed. Do not over tighten.
- 5. Remove the drain tube and store in a safe place.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PROD-UCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. For accurate reading, tighten dipstick cap securely onto the tube before removing dipstick. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

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.

AIR FILTER

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

Service air cleaner more often under dusty conditions.

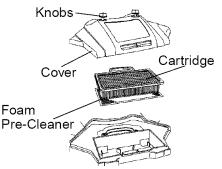
- 1. Remove cover.
- TO SERVICE PRE-CLEANER
- 2. Wash it in liquid detergent and water.
- 3. Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

NOTE: If very dirty or damaged, replace pre-cleaner.

TO SERVICE CARTRIDGE

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

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



CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

NOTE: Öperating 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.

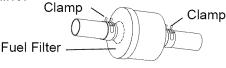
SPARK PLUG(S)

Replace spark plug(s) 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

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

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



CLEANING

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

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

SERVICE AND ADJUSTMENTS

WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SER-VICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER

- 1. Place attachment clutch in "DISEN-GAGED" position.
- 2. Lower attachment lift lever to its lowest position.
- 3. Disengage belt tension rod from lock bracket.

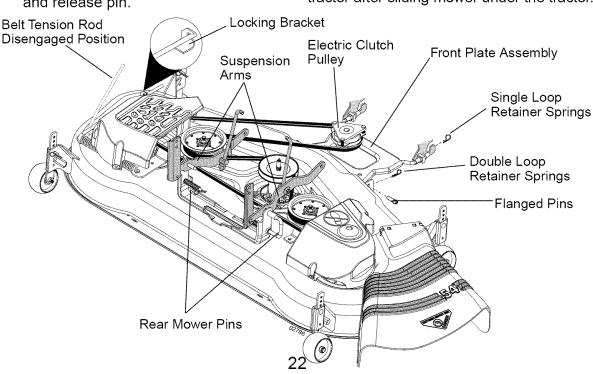
CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and release slowly.

- 4. Remove mower belt from electric clutch pulley.
- DISCONNÉCT REAR MOWER PINS FIRST - Pull out the spring loaded pin, disconnect suspension arm from pin and release pin.

- 6. Go to other side of mower and disconnect rear pin in the same manner.
- Remove the four retainer springs and two flanged pins from front plate assembly and remove plate.
- 8. Raise attachment lift lever to its highest position.
- 9. Turn tractor steering wheel to the left as far as it will go.
- 10. 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. **NOTE:** You will need to reattach front plate assembly to tractor after sliding mower under the tractor.



TO LEVEL MOWER HOUSING

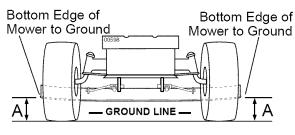
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

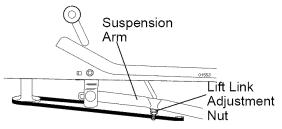
SIDE-TO-SIDE ADJUSTMENT

- Raise mower to its highest position.
- Measure height from bottom edge of mower to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

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

Recheck measurements after adjusting.







IMPORTANT: Deck must be level side-toside. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

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

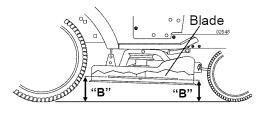
A CAUTION: Blades are sharp. Protect your hands with gloves and/or wrap blade with heavy cloth.

Check adjustment on right side of tractor. Position any blade so the tip is pointing straight forward. Measure distance "B" at front and rear tip of blade

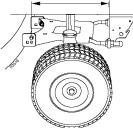
- Before making any necessary adjustments, check that both front plate links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of blade, loosen nut "C" on both front links an equal number of turns.

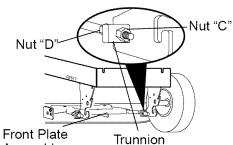
NOTE: Each full turn of nut "C" will change distance "B" by approximately 3/16".

- When distance "B" is 1/8" to 1/2" lower at front than rear, tighten nut "D" against trunnion on both front links.
- To raise front of blade, loosen nut "D" from trunnion on both front links. Tighten nut "C" on both front links an equal number of turns. The two front links must remain equal in length.
- When distance "B" is 1/8" to 1/2" lower at front than rear, tighten nut "D" against trunnion on both front links.
- Recheck side-to-side adjustment.



BOTH FRONT PLATE LINKS MUST BE EQUAL IN LENGTH





TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL

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

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

- 4. Remove screws from R.H. and L.H. mandrel covers and remove covers.
- 5. Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- 6. Remove belt from electric clutch pulley, both mandrel pulleys and all idler pulleys.

L.H.

MOWER DRIVE BELT INSTALLATION

1. Install belt around both mandrel pulleys and around idler pulleys as shown.

2. Install belt onto electric clutch pulley.

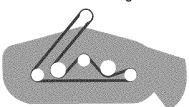
IMPORTANT: Check belt for proper routing in all mower pulley grooves.

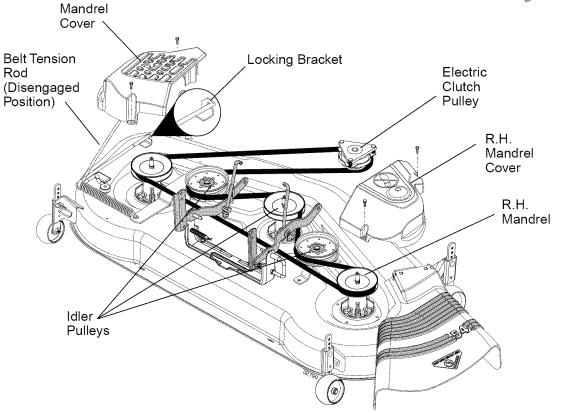
- 3. Reassemble R.H. and L.H. mandrel covers. Securely tighten all screws.
- 4. Engage belt tension rod on locking bracket.

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

Raise attachment lift lever to highest position.

Belt Routing



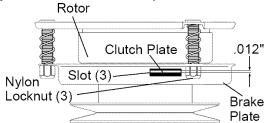


TO ADJUST ATTACHMENT CLUTCH

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear which may cause the mower blades to not engage, or, to not stop as required. Adjustments should be made by a Sears or other qualified service center.

- 1. Make sure attachment clutch and ignition switches are in "OFF" position.
- 2. Adjust the three nylon locknuts until space between clutch plate and rotor measures .012" at all three slot locations cut in the side of brake plate.

NOTE: After installing a new electric clutch, run tractor at full throttle and engage and disengage electric clutch 10 cycles to wear in clutch plate.



TO CHECK AND ADJUST BRAKE

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

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

TO CHECK BRAKE

- 1. Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake.
- 2. Place gear shift lever in neutral (N) position.

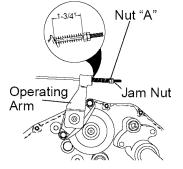
The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced.

TO ADJUST BRAKE

- 1. Depress clutch/brake pedal all the way down and engage parking brake.
- 2. Measure distance between brake operating arm and nut "A" on brake rod.
- 3. If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". Retighten jam nut against nut "A".

Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a Sears or other qualified service center.

With parking brake "Engaged"



TO REPLACE MOTION DRIVE BELT

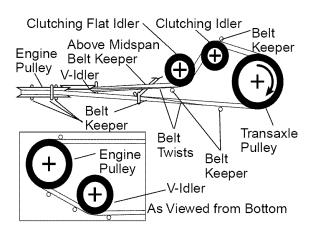
Park the tractor on level surface. Engage parking brake. For ease of service there is a belt installation guide decal on bottom of left footrest. It is not necessary to remove mower.

BELT REMOVAL -

- 1. Engage parking brake (creates slack in belt).
- 2. Remove mower drive belt from electric clutch pulley only (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- 3. Roll motion drive belt off transaxle pullev.
- 4. Roll belt off clutching idler pulleys, then off engine pulley and front V-idler pullev.
- 5. Pull belt out of all belt keepers.

BELT INSTALLATION -

- 1. Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of belt keepers.
- 2. Put belt coming from V-idler above midspan belt keeper, then onto clutching idler pulleys as shown.
- Make sure V part of belt engages Vidler.
- 4. Place belt around transaxle pulley, beginning at top. V part of belt should engage transaxle pulley.
- 5. Place long lower section of belt through loop in midspan belt keeper.
- 6. Check to be sure belt is on proper side of all belt keepers.
- 7. Reinstall mower drive belt onto electric clutch pulley.
- 25 IMPORTANT: Check Brake Adjustment.



TO ADJUST STEERING WHEEL ALIGN-MENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble with crossbars horizontal. Tighten securely.

FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact a Sears or other qualified service center.

TO REMOVE WHEEL FOR REPAIRS

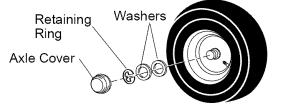
FRONT WHEEL -

- 1. Block up axle securely.
- 2. Remove axle cover, retaining ring and washers to allow wheel removal.
- 3. Repair tire and reassemble.
- 4. Replace washers and snap retaining ring securely in axle groove.
- 5. Replace axle cover.

REAR WHEEL -

- 1. Block rear axle securely.
- 2. Remove five (5) hub bolts to allow wheel removal.
- 3. Repair tire and reassemble. Replace and tighten hub bolts securely.

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.



TO START ENGINE WITH A WEAK BAT-TERY

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 "BAT-TERY" in the MAINTENANCE section of this manual).

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

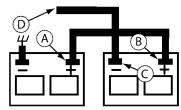
IMPORTANT: Your tractor is equipped with a 12 volt system. The other vehicle must also be a 12 volt system. Do not use your tractor battery to start other vehicles.

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.
- 3. Connect the other end of the BLACK cable (D) to good chassis ground, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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



Weak or Dead Battery

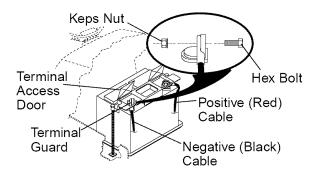
Fully Charged Battery

REPLACING BATTERY

WARNING: 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 ground-ing.

- 1. Lift hood to raised position.
- 2. Remove terminal guard.
- Disconnect BLACK battery cable then RED battery cable and carefully remove battery from tractor.
- 4. Install new battery with terminals in same position as old battery.
- 5. Reinstall terminal guard.
- First connect RED battery cable to positive (+) battery terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps nut. Tighten securely
- 8. Close terminal access doors.
- 9. Close hood.



TO REPLACE HEADLIGHT BULB

- 1. Raise hood.
- 2. 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.
- 4. Close hood.

INTERLOCKS AND RELAYS

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

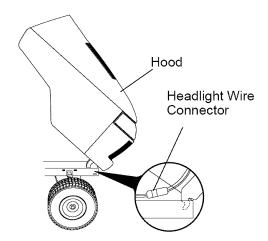
• Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL AS-SEMBLY

- 1. Raise hood.
- 2. Unsnap headlight wire connector.
- 3. Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- 4. When replacing hood, be sure to reconnect the headlight wire connector.



ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE

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

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

TO ADJUST CHOKE CONTROL

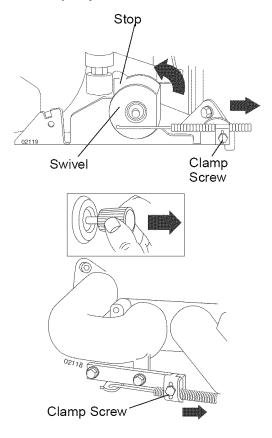
The choke control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

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

TO ADJUST CARBURETOR

Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your tractor to a Sears or other qualified service center for repair and/or adjustment. High speed stop is factory adjusted. Do not adjust - damage may result. **IMPORTANT:** Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed

needs adjusting, contact a Sears or other qualified service center,, which has proper equipment and experience to make any necessary adjustments.



STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more. **WARNING:** Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

TRACTOR

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

- Clean entire tractor (See "CLEANING" in the Maintenance section of this manual).
- 2. Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- 3. Lubricate as shown in the Maintenance section of this manual.
- 4. Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- 5. 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 hose, or tank during storage. Also, alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

- Empty the fuel tank by starting the engine and letting 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)**

- 1. Remove spark plug(s).
- 2. 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.
- 4. 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 CHART:

See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace
	 Loose or damaged wiring. Carburetor out of adjustment. 10. Engine valves out of 	 fuel filter. 8. Check all wiring. 9. See "To Adjust Carburetor" in Service and Adjustments section. 10. Contact a Sears or other
	adjustment.	qualified service center.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery.
	 Dirty fuel filter. Stale or dirty fuel. 	 Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline.
	 Loose or damaged wiring. Carburetor out of adjustment. 	 Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section.
	 Engine valves out of adjustment. 	 Contact a Sears or other qualified service center.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. 	 Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery.
	 Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. 	 Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch.
	8. Faulty solenoid or starter.	 Check/replace solenoid or starter.
	 Faulty operator presence switch(es). 	 Contact a Sears or other qualified service center.
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.

TROUBLESHOOTING CHART: See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION
PROBLEM Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. 	 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 car buretor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/ fins.
	 Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section. Contact a Sears or other qualified service center.
Excessive vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	 Replace blade. Tighten blade bolt. Contact a Sears or other qualified service center. Tighten loose part(s). Replace damaged parts.
Engine dies when tractor is shifted into reverse	 Reverse operation system (ROS) is not "ON" while mower or other attachment is engaged. 	 Turn ignition key to ROS "ON" position. See Operation section.
Engine continues to run when operator leaves seat with attach- ment clutch engaged	 Faulty operator-safety presence control system. 	 Check wiring, switches and connections. If not corrected, contact Sears or other qualified service center.
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. Contact a Sears or other qualified service center. Clean around mandrels to open vent holes.

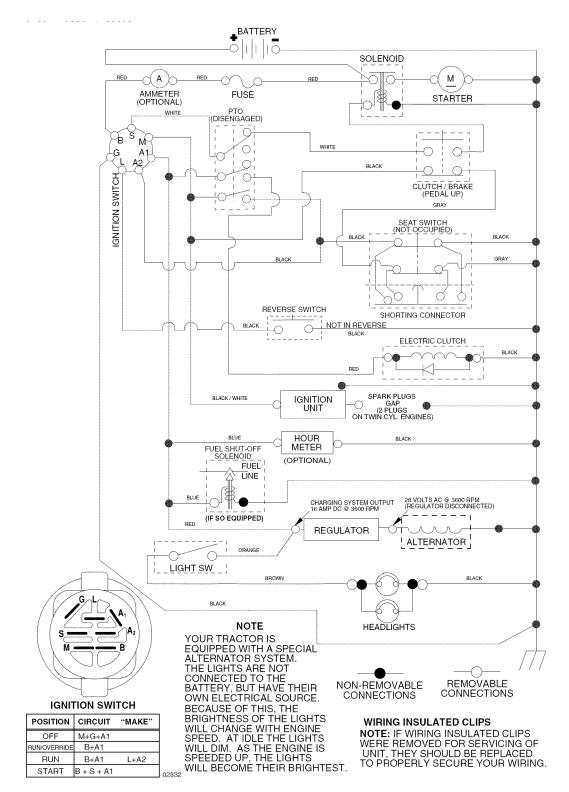
TROUBLESHOOTING CHART:

See appropriate section in manual unless directed to Sears service center	
	See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION
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. Contact a Sears or other qualified service center.
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	 Light switch is "OFF". Bulb(s) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn light switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse.
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator.
Engine "backfires" when turning engine "OFF"	 Engine throttle control not set between half and full speed (fast) position before stopping engine. 	between half and full speed

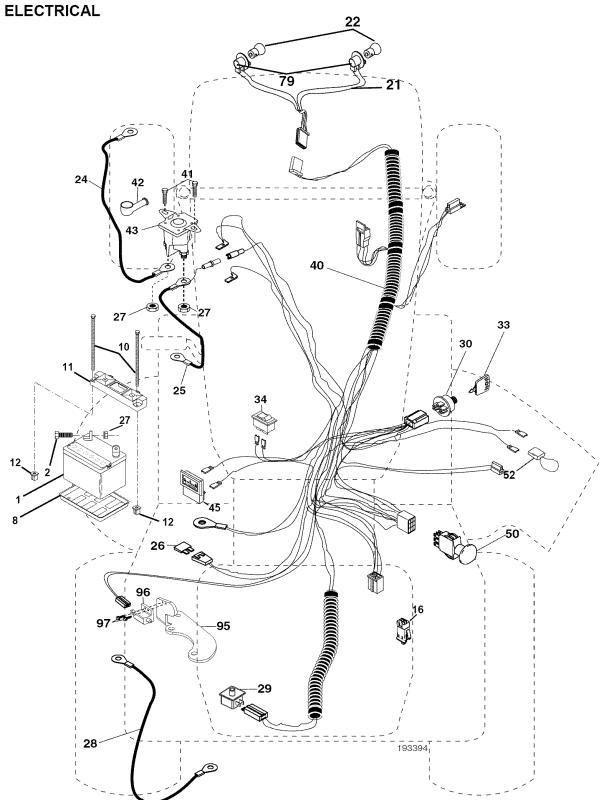
TRACTOR - - MODEL NUMBER 917.276330

SCHEMATIC



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.276330

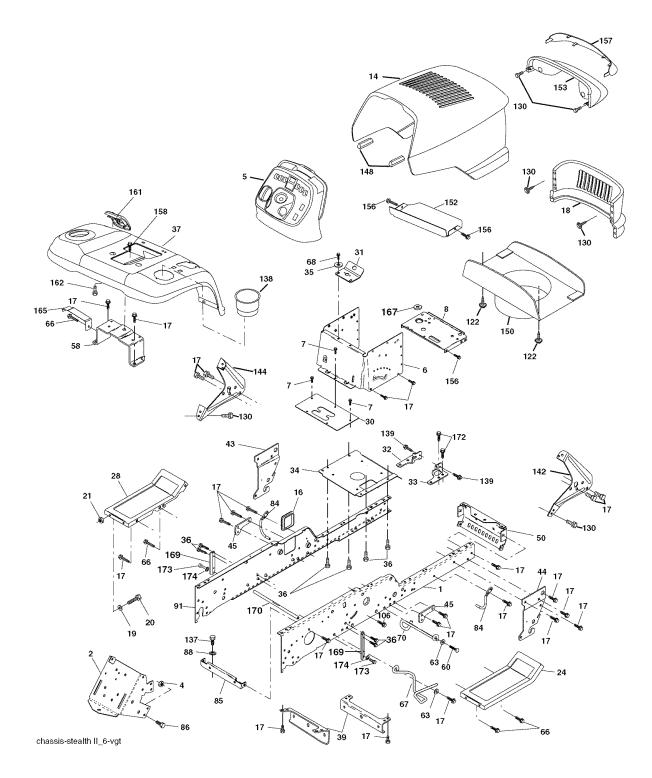


ELECTRICAL

KEY NO.	Part No.	DESCRIPTION
1 2 8 10 11 22 24 25 26 27 28 29 33 34 41 42 43 50 27 9 5 96	144927 74760412 7603J 145211 150109 145769 176138 175688 4152J 185464	Battery Bolt Hex Head 1/4-20 x 3/4 Tray, Battery Bolt 1/4-20 x 7.5 Zinc Hold down Battery Dash Mount Nut Push Nylon 1/4" Switch Interlock Push-In Harness Socket Light W/4152J Bulb Light Cable Battery Cable, Battery Fuse Nut Keps Hex 1/4-20 unc Cable, Ground Switch, Plunger Switch, Ign Key, Ignition Switch Light / Reset Harness Ign. Screw Thd. Cut 1/4-20 x 1/2 Cover, Terminal Solenoid Ammeter Switch, PTO Protection Wire Loop Bulbholder Asm. Incan Descent Bracket ROS Switch Interlock
97	170488	Screw Hex Wsh SLT #10-24 x .50

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

TRACTOR - - MODEL NUMBER 917.276330 CHASSIS AND ENCLOSURES



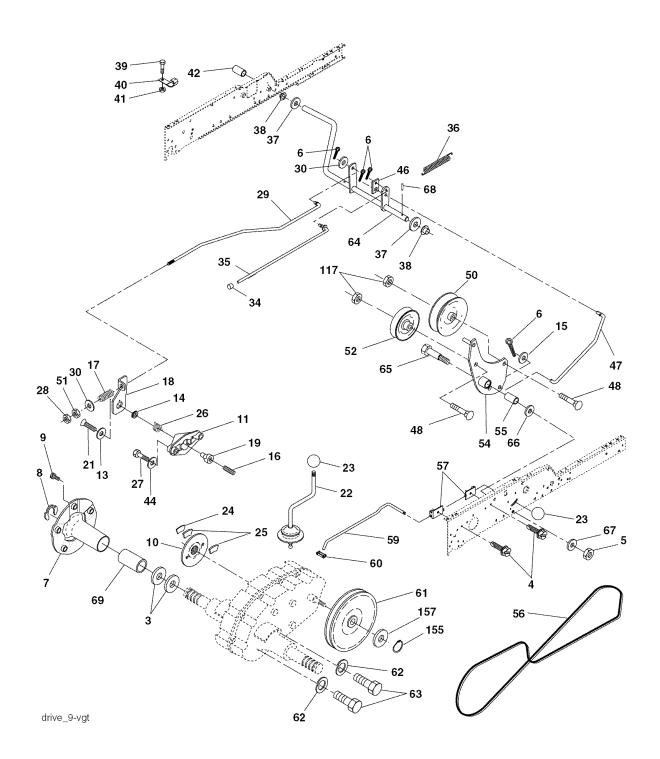
CHASSIS AND ENCLOSURES

KEY	PART	
NO.	NO.	DESCRIPTION
NO. 1 2 4 5 6 7 8 14 16 7 8 14 16 7 8 14 17 18 9 20 21 24 8 30 32 33 45 56 37 9 34 45 56 56 56 56 56 7 8 14 16 17 18 9 20 21 24 8 30 33 34 35 56 37 9 34 45 56 56 56 56 56 56 56 56 56 5	180375 175282 73680700 193636X428 157882 17720408 184668 175260X615 121794X 17000612 174515X615 19131312 74780616 STD541437 179717X615 179716X615	Rail, Frame RH Drawbar, Gt Nut, Crownlock Hex 7/16-14 unc Dash Dash, Lower Vgt One Piece Screw, Thd Cut 1/4-20 x 1/2 Support, Battery Hood Asm Cover, Access Screw 3/8-16 x 3/4 Zc Grille Washer 13/32 x 13/16 x 12 Ga. Bolt Fin Hex 3/8-16 x 1 Gr. 5 Nut Lock 3/8-16 unc Footrest, RH Footrest, LH Saddle, Slkscr Vgt Bracket Support 1-pc Bracket, Pivot Chassis Lh Bracket, Pivot Chassis Rh Plate Asm Engine Chassis Washer 11/32 x11/16 x 16 Ga. Screw 5/16-18 x 3/4
68	17490508	Screw Thdrol. 5/16-18 x 1/2

KEY	PART	
NO.	NO.	DESCRIPTION
70	188578	Guide, Belt
84	188164	Up Stop
85	193923	Bracket, Support Transaxle
86	74780716	Bolt Fin Hex 7/16-14 unc x 1
88	STD551143	Washer, Lock Hvy Hlcl Spr 7/16
91	180374	Rail, Frame Lh
106	17580520	Screw Thdrol 5/16-18 x 1.25
122		Screw Wshd Hex 10-32 x 5/8
130 137		Screw 10 x 3/4 Single Lead-Hex Bolt Fin Hex 7/16-14 x1 Gr. 5
137		
139		Bolt Shoulder 5/16-18 TT
142		Bracket Dash Rh
144	161900	Bracket Dash Lh
148		Extrusion Bumper
150	175352	Duct Heat Hood
152	177956	Shield Browning
153	179761	Light Box Asm w/Lens
156		Screw 5/16-18 x 3/4. Blk
157		Lens Bar
158	17670608	Screw Thdrol. 3/8-16 x 1/2
161		Console Fuel Window
162		Screw Hex Wsh Hi-Lo 1/4-1/2
165 167	183554 184672	Bracket Support Tank Bushing Snap
169	188598	Bracket Chassis Sway
170		Rod Bracket Sway Brace
172		Screw 3/8-16 x .875
173	74780512	Bolt Fin Hex 5/16-18 x 3/4
174	10040500	Washer Lock Hvy HLCL SPR 5/16

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

GROUND DRIVE



Washer Lock Hvy HLCL Spr 5/16

Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5

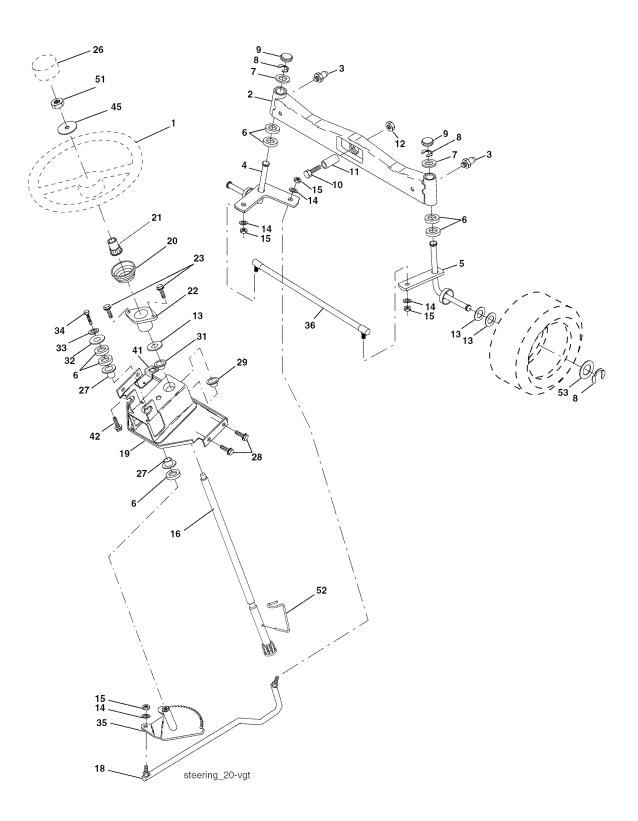
Bolt, Fin Hex 7/16-14 x 1-1/4 Shaft, Clutch/Brake Pedal

Washer Thrust 5/8 x 1.10 x 1/32

GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
3	7563R	Washer, Thrust, Axle	40	178575	Actuator, Interlock Switch
4	17490508	Screw Thdrol 5/16-18 x 3/4	41	73931000	Nut, Centerlock #10-24
5	STD541437	Nut, Crownlock 3/8-16	42	8883R	Cover, Pedal
	STD561210	Pin, Cotter	44	10040500	Washer Lock Hvy HLCL Spi
6 7	149176	Wheel, Hub Assembly	46	145170	Retainer, Spring
8	12000034	Klip, Ring	47	138228	Clutch Rod
9	140080	Bolt, Hub	48	72110612	Bolt, Carr. 3/8-16 x 1-1/2 Gr.
10	142509	Disc, Brake	50	131494	Pulley, Idler, Flat
11	136927	Yoke, Brake Disc	51	STD541437	
13	139419	Washer, Special	52	139123	Pulley, Idler, Grooved
14	138901	Bushing	54	161590	Clutch, Arm Assembly
15	STD551037	Washer 13/32x13/16 x 16 Ga.	55	105706X	Bearing, Idler
16	143012	Set, Screw 1/4-28 x 3/4	56	137153	V-Belt
17	126909X	Spring	57	141756	Bracket, Shift Rod, Hi-Lo
18	137104	Lever, Brake	59	122253X	Shift Rod, Hi-Lo
19	136926	Cam, Brake Disc	60	122268X	Spring Clip, Connecting Link
21	23260412	Screw, Flat Head 1/4-28 x 3/4	61	184787	Pulley, Transaxle
22	194121	Gearshift, Lever Assembly	62	STD551143	Washer, Lock 7/16
23	106932X	Knob	63	74780720	Bolt, Fin Hex 7/16-14 x 1-1/
24	136925	Support, Puck Brake	64	154752	Shaft, Clutch/Brake Pedal
25	136923	Puck, Brake Top	65	179613	Bolt, Shoulder
26	137552	Spring, Return	66	140296	Washer, Hardened
27	74880528	Bolt Hx Gr. 8 5/16-18 UNC x 1-3/4	67	19131312	Washer, Flat
28	73350600	Nut, Hex Jam 3/8-16	68	5142H	Pin, Roll
29	137213	Brake, Rod	69	136327	Hub, Cover
30	19131616	Washer 13/32 x 1 x 16 Ga.	117	73900600	Nut, Lock Flg. 3/8-16 unc
34	71673	Cap, Plunger	155	12000028	Ring Retainer
35	137648	Rod, Parking Brake	157	1370H	Washer Thrust 5/8 x 1.10 x
36	149412	Spring, Drive Ground			
37	121749X	Washer 25/32 x 1-1/4 x 16 Ga.	NOT		nt dimonsions given in U.S.
38	150035	Nyliner		•	ent dimensions given in U.S.
39	74321016	Screw, Fin. #10-24 x 1	inche	s 1 inch = 25.4	4 mm

TRACTOR - - MODEL NUMBER 917.276330 STEERING ASSEMBLY

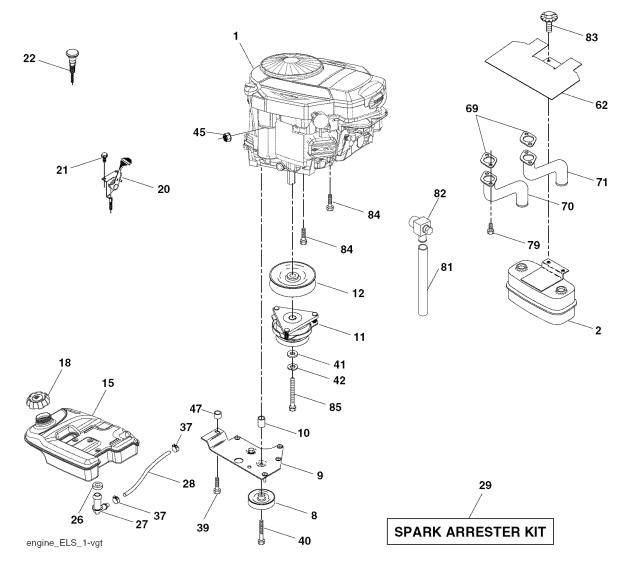


STEERING ASSEMBLY

	PART	
NO.	NO.	DESCRIPTION
$\begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 8 \\ 9 \\ 0 \\ 12 \\ 22 \\ 3 \\ 22 \\ 22 \\ 22 \\ 22 \\ 3 \\ 3 \\$	186094X428 178557 183226 161849 161848 6266H 121748X 12000029 184946X505 74781044 136518 73901000 121749X STD551137 73540600 186814 187799 156011 163887X428 186737 155105 152927	Wheel, Steering Axle Asm., Front Fitting, Grease Spindle Asm., LH Spindle Asm., RH Bearing, Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring, Klip #T5304-75
53	188967	Washer Hardened .793 x 1.637 x .060

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

ENGINE

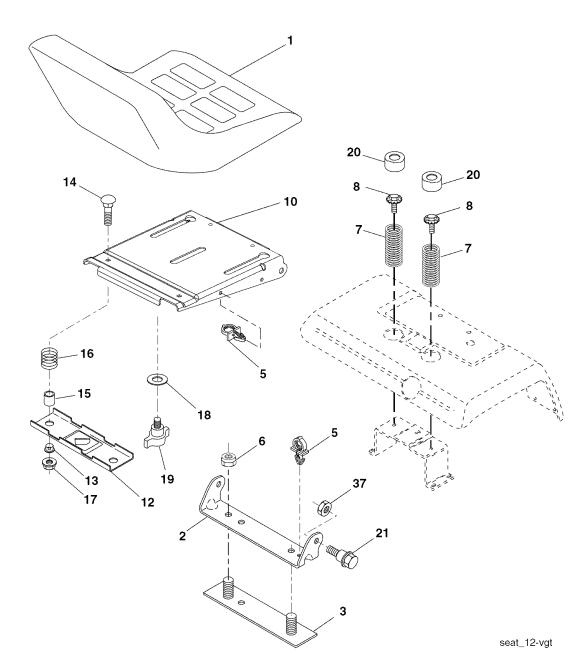


KEY NO.	PART NO.	DESCRIPTION	KEY NO.
1		Engine Briggs Model No.	40
		446977-0471-E1 (See Breakdown)	41
2	149723	Muffler	42
8	121361X	Pulley V-Idler	45
9	177748	Keeper Asm. Belt Engine	47
10	175287	Bushing	62
11	179335	Clutch Electric	69
12	143996	Pulley Engine VGT Elect Clutch	70
15	179115	Tank Fuel Rear 5.0 Yt/Gt	71
18	179124X428	Cap Asm	79
20	175437X428	Control Throttle	81
21	191611	Screw 10 x 3/4 Single Lead-Hex	82
22	187767X428		83
26	3645J	Bushing	84
27	139277	Stem Tank Fuel	85
28	188669	Fuel Line	
29	137180	Spark Arrester Kit	
37	123487X	Clamp Hose	NOTE
39	17490636	Screw TT 3/8-16 x 2-1/4 unc	NOTE

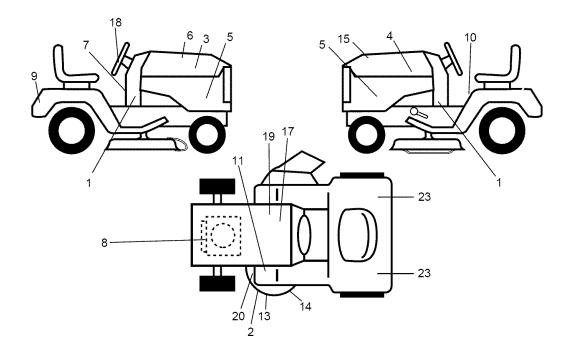
KEY NO.	′ PART NO.	DESCRIPTION
40	17490664	Screw TT 3/8-16 x 4 unc
41	126197X	Washer 1-1/2 OD x 15/32 ID x .250
42	STD551143	Washer Lock 7/16
45	73510400	Nut Keps Hex 1/4-20 unc
47	175288	Bushing
62	146629	Shield Heat Muffler
69	165391	Gasket
70	176069	Tube Exhaust LH
71	176070	Tube Exhaust RH
79	183906	Screw Socket Head
81	188800	Tube Drain Oil Easy
82	188799	Valve Oil Drain
83	171877	Bolt 5/16-18 unc x 3/4 W/ Sems
84	17060624	Screw 3/8-16 x 1-1/2
85	179953	Bolt Hex 7/16-20 x 3.75 Gr. 5

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

SEAT ASSEMBLY

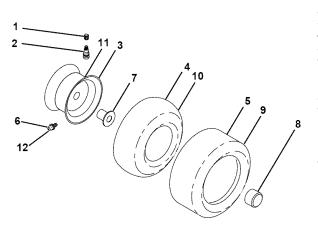


	PART			PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	180598	Seat	15	121249X	Spacer, Split
2	180166	Bracket, Pivot Seat	16	123740X	Spring, Cprsn
3	140675	Strap, Asm Fender	17	123976X	Nut, Lock 1/4 Lge Flg Gr. 5
5	145006	Clip, Push In, Hinged	18	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
6	STD541437	Nut, Crownlock 3/8-16 unc	19	166369	Knob, Seat
7	124181X	Spring, Seat Cprsn	20	124238X	Cap, Spring Seat
8	171877	Bolt 5/16-18 uncx 3/4 w/Sems	21	171852	Bolt, Shoulder 5/16-18
10	180186	Pan, Seat	37	STD541431	Nut, Lock W/Ins 5/16-18 unc
12	174648	Bracket, Mounting Switch			
13	121248X	Bushing, Snap	NOT		ant dimensione situation II C inches
14	72050412	Bolt, Carriage 1/4-20 x 1-1/2	NOT	1 inch = 25	nent dimensions given in U.S. inches .4 mm



KEY	PART	
NO.	NO.	DESCRIPTION
1	195890	Decal, Dash Panel, Lower
2	178455	Decal, Deck Caution
3	186242	Decal, Hood, RH
4	186243	Decal, Hood, LH
5	186725	Decal, Hood Side Panel
6	133644	Decal, Maintenance
7	193609	Decal Dsh
8	195885	Decal, Engine
9	186572	Decal, Fender
10	156439	Decal, Fender Danger
11	181249	Decal, Clutch/Brake
12	146047	Decal, V-Belt Drive Schematic

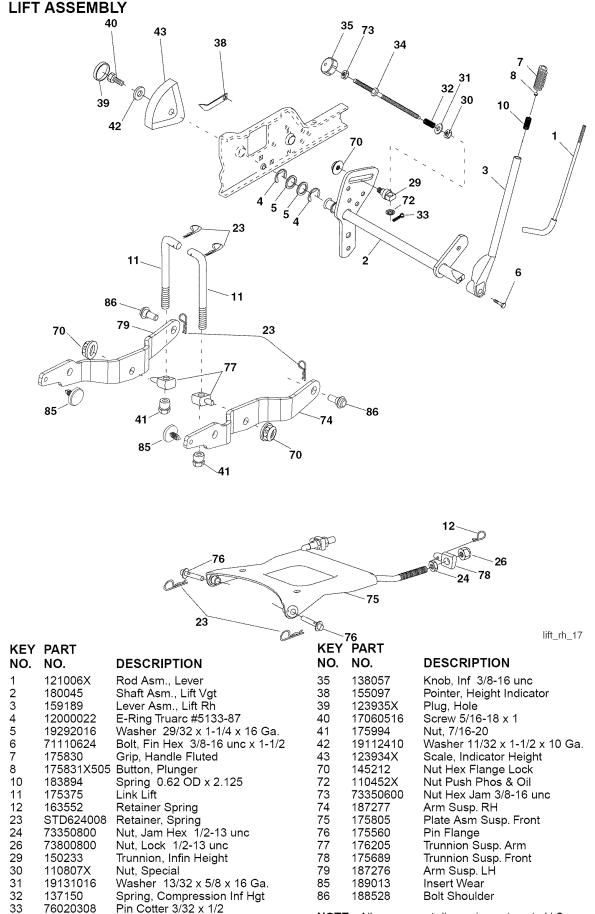
WHEELS & TIRES



KEY NO.	Part No.	DESCRIPTION
13	178482	Decal, Deck HVYDTY
14	188298	Decal, V-Belt Schematic
15	193596	Decal, Repl Parts
17	149516	Decal, Battery Dnge/Poi
18	164065	Decal, Insert Strg
19	138047	Decal, Battery
20	193114	Decal Mower Upstop
23	106202X	Reflector, Taillight
	179768X428	Pad, Footrest, LH
	179769X428	Pad, Footrest, RH
	195639	Manual, Owner's (Eng)
	195640	Manual, Owner's (Span)

KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106228X624	Rim Assembly, Front
4	8134H	Tube, Front (Service Item Only)
5	106230X	Tire, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	104757X428	Cap, Axle (Front Wheel Only)
9	105588X	Tire, Rear
10	7154J	Tube, Rear (Service Item Only)
11	106277X624	Rim Assembly, Rear
12	6856M	Fitting, Grease
	144334	Sealant, Tire (10 oz. Tube)

NOTE: All component dimensions given in U.S. inches1 inch = 25.4 mm



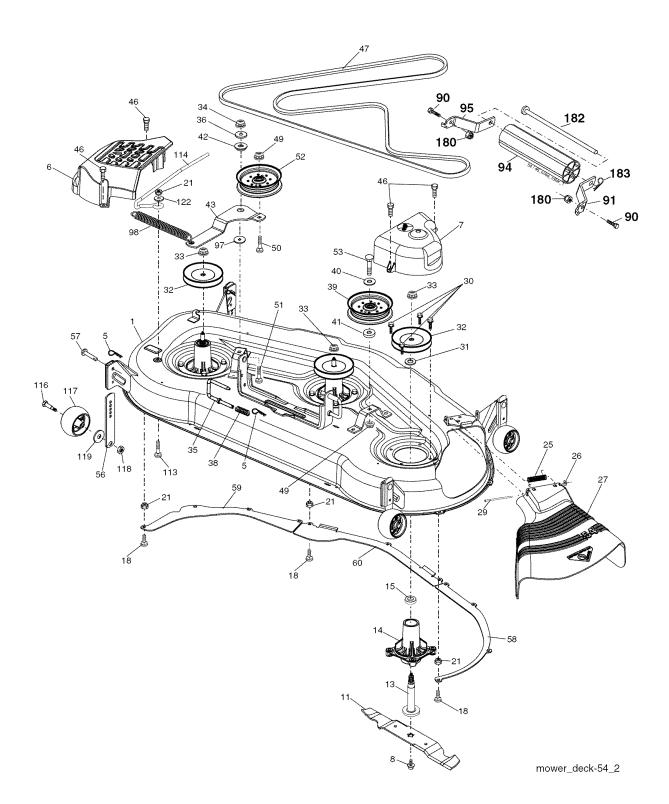
34

137167

Rod, Adj Lift

NOTE: All component dimensions given in U.S. **45** inches 1 inch = 25.4 mm

MOWER DECK



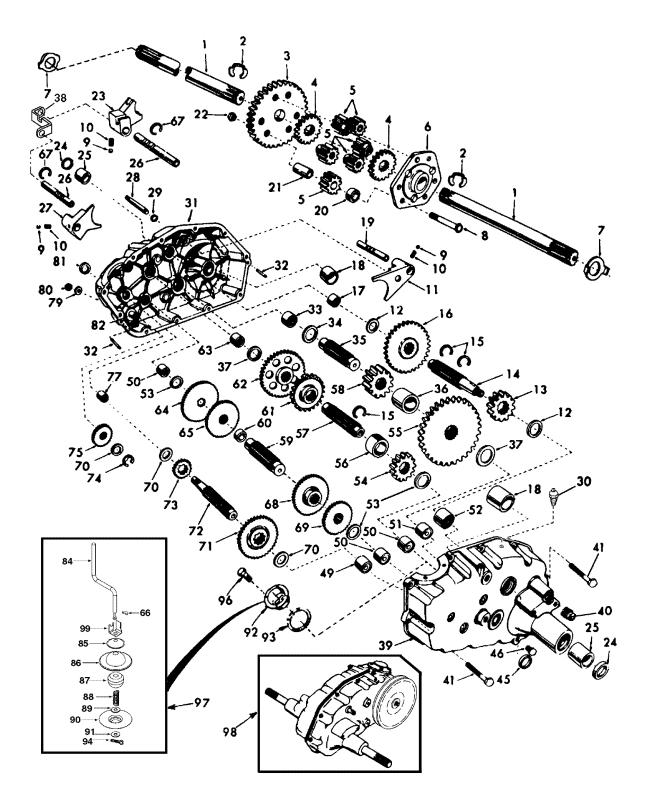
MOWER DECK

KEY NO.	PART NO.	DESCRIPTION
1	194846	Deck Weldment Mower
5	STD624008	Retainer Spring
6	187297	Cover Mandrel LH
7	188187	Cover Mandrel RH
8	174365	Bolt 7/16 Asm. Blade
11	187254	Blade, Standard (For mulching
13	187291	mowers only) Shaft Asm. w/Lower Bearing
14	187281	Housing, Mandrel
15	110485X	Bearing, Ball, Mandrel
18	72140505	Bolt, Carriage 5/16-18 x 5/8
21	73680500	Nut. Crownlock 5/16-18 unc
25	178102	Spring, Torsion
26	110452X	Nut, Push
27	187257X428	Deflector Shield
29	131491	Rod, Hinge
30	173984	Screw, Thdroll Washer Head
31	187690	Washer, Spacer Mower Vented
32	153535	Pulley, Mandrel
33	178342	Nut, Flg. Top Lock Cntr. 9/16
34	73680600	Nut
35	188635	Pin Suspension Rear
36 38	19131316	Washer 13/32 x 13/16 x 16 Ga.
30 39	188657 187284	Spring Compression Pulley, Idler, Stationary
40	19131312	Washer $13/32 \times 13/16 \times 12$ Ga.
40	19132203	Washer 13/32 x 13/10 x 12 Ga.
42	165723	Spacer, Retainer
43	196216	Arm, Idler
46	137729	Screw, Thdroll. 1/4-20 x 5/8
47	191273	V-Belt, Mower
49	73900600	Nut, Lock Flg. 3/8-16 unc

KEY NO.	PART NO.	DESCRIPTION
50 51 52 53 56 57 58 59 60 90 94 97 98 113 116 117 118 122 182 182 182 	73930600 19121414 187557 73800500 179127	Bolt, Carr. 3/8-16 x 2 Bolt Pulley Idler Clutching Bolt Fin Hex 3/8-16 UNC x 2-1/4 Bar Pnt Adj. Pin Head Rivet Baffle Right Baffle Center Bolt hex HD 5/16-18 UNC x 1 Bracket Noseroller RH Roller Nose Bracket Noseroller LH Washer 13/32 x 2 x 10 Ga. Spring Clutch Drive Bolt Rdhd Sqnk 5/16-18 x 3/4 Rod Tension Relief Bolt, Shoulder Gauge Wheel Nut, Centerlock 3/8-16 unc Washer 3/8 x 7/8 x 14 Ga. Bushing Tension Relief Nut Lock Hx W/Ins 5/16-18 UNC Rod Roller Nose Retainer Spring Mandrel Asm. Service (Includes Key Nos. 13-15 and 33) Replacement Mower, Complete

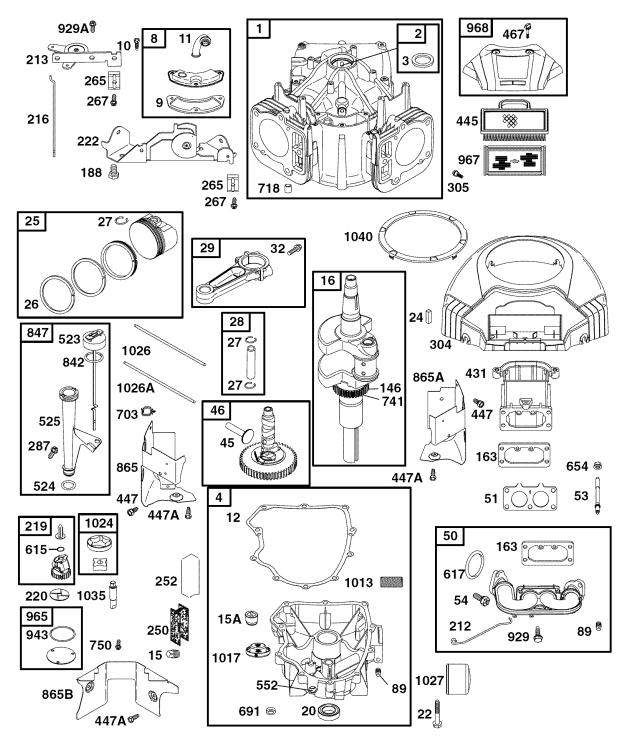
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

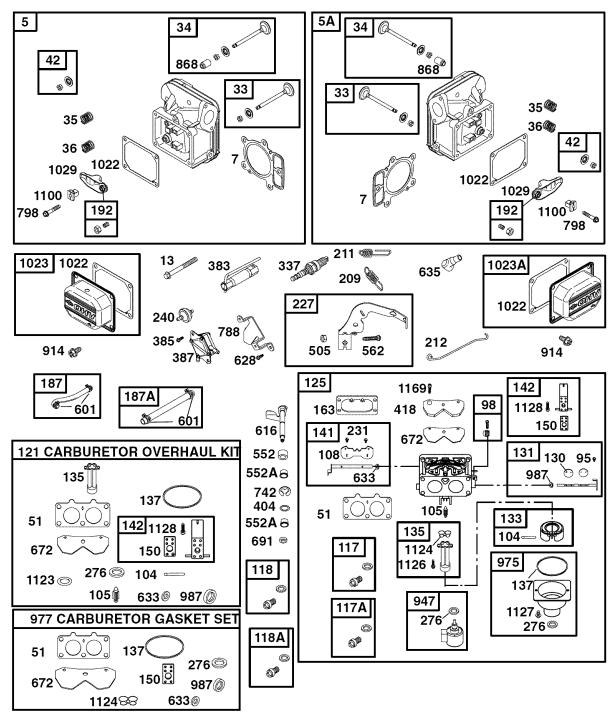
TRANSAXLE

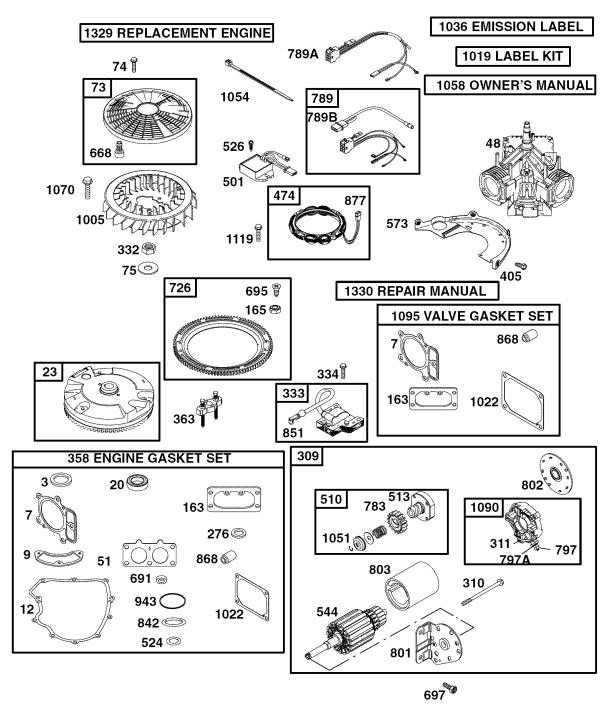


TRANSAXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axle Shaft	52	8119M	Needle Bearing
2	12000034	Retaining Ring	53	4220R	Thrust Bearing Race
3	4199R	Final Drive Gear	54	4209R	3rd Reduction Pinion, Low
4	4216R	Differential Gear	55	4213R	4th Reduction Gear
5	4215R	Differential Pinion	56	4442R	3rd Reduction Pinion Spacer
6	4217R	Differential Carrier	57	4195R	2nd Reduction Gear Shaft
7	174728	Axle Thrust Washer	58	4214R	Final Drive Pinion
8	74020652	Bolt, Hex Head 3/8-24 x 3-1/4	59	4194R	1st Reduction Gear Shaft
		(1" Thread Length)	60	7528R	1st Reduction Shaft Spacer
9	7392M	Steel Ball	61	4208R	3rd Reduction Plnion High
10	137261	Spring Shift Fork Detent	62	4207R	2nd Reduction Gear
11	4985R	Shift Fork, High-Low Range	63	7398H	Needle Bearing
12	6266H	Thrust Bearing Race	64	4203R	Low Speed Gear and 2nd
13	4212R	4th Reduction Pinion	65	4204R	Reduction Pinion Cluster Reverse Gear
14	137125	Shaft, Brake	66	2898J	Key, Hi-Pro 1/8 x 17/32
15	6276H	Snap Ring, Crescent Type	67	12000033	Klip Ring
16	633A63	High-Low Range Gears	68	4205R	Intermediate Speed Gear
17 18	8118M	Needle Bearing	69	4206R	High Speed Gear
10	8740H1 122238X	Sintered Iron Bearing Shift Fork Shaft, High-Low Range	70	1370H	Thrust Bearing Race
20	4218R	Differential Pinion Spacer	71	633A69	Intermediate and High Speed
21	6252H1	Differential Pinion Bushing			Cluster Pinions
22	7810H	Gripco Centerlock Nut 3/8-24	72	139120	Input Shaft
23	6262H	Shift Fork, R.H.	73	4201R	Low Speed Pinion
24	7393R	Oil Seal	74	12000008	E-Ring
25	992R1	Sintered Iron Bearing	75	1153R	Reverse Idler Gear
26	139111	Shift Fork Shaft	77	6803J	Needle Bearing
27	4986R	Shift Fork, L.H.	79	1167R	Sealing Washer
28	122254X	Shift Shaft, High-Low Range	80	73360700	Nut, Hex, Jam 7/16-20
29	6269H	Oil Seal	81	6270H	Oil Seal
30	5855H	Pressure Relief Valve	82	136984	Reverse Idler Shaft
31	174731	Gearcase, Reverse Idler Shaft	84	5384J	Gearshift Lever, Bent
		and Bearings, R.H. (Includes	85 86	2978J 633A85	Gearshift Cap Gearshift Ball Cover and Pin
		Key No.'s 17,18, 25, 33, 50, 63,	87	8739H1	Shift Lever Guide Ball, Keyed
22	607711	77 and 82)	88	4924H	Spring
32 33	6277H 4225R	Dowel Pin Needle Regring	89	19151516	Washer 15/32 x 15/16 x 16 Ga.
33 34	4223R 7396H	Needle Bearing	90	110542X	Shift Mechanism Seal
35	4198R	Thrust Bearing Race 4th Reduction Gear Shaft	91	19181511	Washer 9/16 x 15/16 x 12 Ga.
36	4200R	4th Reduction Gear Spacer	92	75J	Gearshift Gate and
37	7395H	Thrust Bearing Race			Reinforcement
38	160789	Gate, Lower, Shift	93	6274H	Shift Ball Cover Gasket
39	174729	Gearcase and Bearings, L.H.	94	76020412	Cotter Pin 1/8 x 3/4
		(Includes Key umbers 18, 25, 49,	96	194036	Bolt Hex 5/16-18 x 1 Epoxy
		50 (2), 51 and 52)	97	194121	Lever Assembly ROS Gearshift
40	13320400	Pipe Plug 1/2-14 N.P.T.	98	184956	Transaxle, 6 Speed, Complete
41	17580520	Bolt, Hex 5/16-18 UNC x 1-1/4	00	400000	Assembly
45	6271H	Oil Seal	99	193833	Actuator, Shift Lever
46	13060200	Pipe Plug 1/4-18 N.P.T.	NOT		ent dimensions given in U.S. inches
49 50	4895H	Needle Bearing		= 25.4 mm	ent amenaiona given in 0.0. inches
50 51	4222R 1529R	Needle Bearing Needle Bearing	1 110	. 20. 1 (101)	
51	102011	Needle Dealing			







KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
	000750		NO.	NO.	DESCIMPTION
1	699753	Cylinder Assembly	125	791230	Carburetor
2	499585	Kit-Bushing/Seal (Magneto Side)	130	690993	Valve-Throttle
3	391086 •	Seal-Oil (Magneto Side)			
4	699747	Sump-Engine	131	499805	Kit-Throttle Shaft
5	697580	Head-Cylinder (Cylinder 1)	133	699724	Float-Carburetor
5A	697581	Head-Cylinder (Cylinder 2)	135	699729	Tube-Fuel Transfer
7	693997 •+	Gasket-Cylinder Head	137	690994؇	Gasket-Float Bowl
8	499601	Breather Assembly	141	499807	Kit-Choke Shaft
9	690937 •	Gasket-Breather	142	699726Ø	Nozzle-Carburetor
10	691108	Screw (Breather Assembly)	146	690979	Key-Timing
11	690942	Tube-Breather	150	690995 ؇	
12	697227 •	Gasket-Crankcase	163	691001 •+	Gasket-Air Cleaner
13	690360	Screw (Cylinder Head)	165	693148	Nut (Ring Gear)
15	690946	Plug-Oil Drain	187	697712	Line-Fuel
15A	691680	Plug-Oil Drain		698742	Line-Fuel (Cut to Required Length)
16	790132	Crankshaft	188	691108	Screw (Control Bracket)
20	690947 •	Seal-Oil (PTO Side)	192	690083	Adjuster-Rocker Arm
22	694966	Screw (Crankcase Cover)	209	697674	Spring-Governor
23	691053	Flywheel	211	691019	Spring-Governed Idle
24	222698	Key-Flywheel	212	695238	Link-Governor
25	697679	Piston Assembly (Standard)	213	691021	Bracket-Choke Control
	697681	Piston Assembly (.020" Oversize)	216	691022	Link-Choke
26	697683	Ring Set (Standard)	219	698231	Gear-Governor
	697685	Ring Set (.020" Oversize)	220	690412	Washer (Governor Gear)
27	690975	Lock-Piston Pin	222	698761	Bracket-Control
28	690229	Pin-Piston (Standard)	227	691048	Lever-Governor Control
29	699699	Rod-Connecting (Standard)	231	690718	Screw (Choke Valve)
32	690976	Screw (Connecting Rod)	240	695666	Filter-Fuel
33	499596	Valve-Exhaust	250	690957	Retainer-Breather
34	499597	Valve-Intake	252	690956	Collector-Oil
35	690963	Spring-Valve (Intake)	265	691024	Clamp-Casing
36	690963	Spring-Valve (Exhaust)	267	695134	Screw (Casing Clamp)
42	499586	Keeper-Valve	276		Washer-Sealing
45	690977	Tappet-Valve	287	691108	Screw (Dipstick/Tube Assembly)
46	791235	Camshaft	304	791243	Housing-Blower
48	698173	Short Block	305	790690	Screw (Blower Housing)
50	695241	Manifold-Intake	309	691262	Motor-Starter
51	690950 •؇	Gasket-Intake	310	691263	Screw (Starter Motor)
53	690951	Stud (Carburetor)	311	497608	Brush Set
54	494439	Screw (Intake Manifold)	332	691059	Nut (Flywheel)
73	691055	Screen-Rotating	333	691060	Armature-Magneto
74	698425	Screw (Rotating Screen)	334	691061	Screw (Magneto Armature)
75	691056	Washer (Flywheel)	337	491055	Spark Plug
89	690283	Plug-Oil	358	694012	Gasket Set-Engine
95	690718	Screw (Throttle Valve)	363	691062	Puller-Flywheel
98	699721	Kit-Idle Speed	383	690966	Wrench-Spark Plug
104	694918 Ø	Pin-Float Hinge			
105	698537 Ø	Valve-Float Needle	•		Engine Gasket Set, Key. No. 358
108	699723	Valve-Choke	Ø		Carburetor Overhaul Kit, Key. No.
117	699436	Jet-Main (Left, Standard)		121	
117A		Jet-Main (Right, Standard)	‡		Carburetor Gasket Set, Key. No. 977
118	699458	Jet-Main (Right, High Altitude)	+	Included in \	/alve Overhaul Kit, Key. No. 1095
118A	790890	Jet-Main (Left, High Altitude)			
121	699734	Kit-Carburetor Overhaul		: All compon = 25.4 mm	ent dimensions given in U.S. inches

1 inch = 25.4 mm

474 696458 Alternator 923A 691003 Screw (Choke Control Bracket) 505 691029 Nut (Governor Control Lever) 947 841546 Solenoid-Fuel 510 497604 Dirke-Starter 965 499613 Cover-Oil Fump Cover) 523 691036 Dipstick 967 273638 Filter-Pre Cleaner 524 691037 Tube-Dipstick 967 791232 Bowl-Float 526 691037 Tube-Dipstick 977 499812 Gasket Set-Carburetor 526 691038 Screw (Regulator) 987 691004 Seal-Throtite Shaft 526 691535 Bushing-Governor Crank 1017 690054 Nipple-Oil Filter 526 690553 Bushing-Governor Crank 1017 690395 Kit-Label 621 Governor Control Lever) 1022 690395 Kit-Label Gasket-Rocker Cover 526 691038 Clamp-Hose 1023 499599 Cover-Rocker Arm (Cylinder 1 621 691038 Clamp-Hose 1023 499599 Cover-Rocker Arm (Cylinder 1	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
	NO. 385 3404 447 447 447 447 4505 510 522 55 55 55 55 55 56 616 628 354 66 62 66 69 70 38 66 70 38 742 75 788 989 803 803	NO. 691108 808656 690442 697820 690999 790816 698754 691003 691008 69458 691008 69458 691029 497606 692024 691032 691032 691032 691032 691037 691009 691038 698290 691045 69057 693149 690372 691010 690328 690328 696999 693058 691039 693058 691039 693058 691039 693058 691039 693058 691039 693058 691039 693058 691039 693058 691039 693058 691039 693058 691039 693167 697890 691283 691283 691283 691283	Screw (Fuel Pump) Pump-Fuel Washer (Governor Crank) Screw (Back Plate) Plate-Carburetor Elbow-Intake Filter-Air Cleaner Cartridge Screw (Air Guide Cover) Screw (Air Guide Cover) Screw (Air Guide Cover) Knob-Air Cleaner Alternator Regulator Nut (Governor Control Lever) Drive-Starter Clutch-Drive Dipstick Seal-O Ring (Dipstick Tube) Tube-Dipstick Screw (Regulator) Armature-Starter (Serviced by 691262 Starter Motor Only) Bushing-Governor Crank Bushing-Governor Crank Bushing-Governor Crank Bushing-Governor Crank Bushing-Governor Crank Bushing-Governor Shaft Crank-Governor Seal-O Ring (Intake Manifold) Screw (Fuel Pump Bracket) Seal-Choke/Throttle Shaft Boot-Sparkplug Nut (Carburetor) Spacer Gasket-Carburetor Plate Seal-Governor Shaft Screw (Ring Gear) Screw (Drive Cap) Clip Pin-Locating Gear-Ring Gear-Ring Gear-Timing Retainer-E Ring Screw (Oil Pump Cover) Gear-Pinion Bracket-Fuel Pump Harness-Wiring Harness-Wiring Nut (Brush Retainer) Nut (Brush Retainer) Nut (Brush Retainer) Nut (Brush Retainer) Screw (Roie Cerviced by 691262 Starter Motor Only)	NO. 847 851 865 865A 865B 865A 865B 867 914 929A 943 947 965 977 967 977 1013 1022 1023 1024 1026 1025 1036 1040 1051 1054 1056	NO. 499602 493880 691011 691012 691014 691015 690968 ++ 399916 691127 695239 691003 690589 • 841546 499613 273638 791242 791232 499812 691000 ؇ 791236 690954 690954 690954 690971 ++ 499599 499600 499054 690981 690982 696854 690981 690982 696854 690972 691265 280275 275475 691265 280275 275475 691265 280275 275475 691293 694013 690987 ؇ 690987 ؇ 690987 ؇ 690987 ؇ 690987 ؇ 690987 ؇ 690987 ؇ 690987 ؇ 690987 ؇ 690987 ؇ 690981 690987 ؇ 690987 ؇ 690987 ؇ 690981	Assembly-Dipstick/Tube Terminal-Sparkplug Adapter-Air Cleaner Cover-Air Guide (Cylinder 1) Cover-Air Guide Seal-Valve Wire/Connector-Alternator Screw (Rocker Arm Cover) Screw (Choke Control Bracket) Screw (Choke Control Bracket) Screw (Choke Control Bracket) Seal-O Ring (Oil Pump Cover) Solenoid-Fuel Cover-Oil Pump Filter-Pre Cleaner Cover-Air Cleaner Bowl-Float Gasket Set-Carburetor Seal-Throttle Shaft Fan-Flywheel Nipple-Oil Filter Screen-Oil Pump Kit-Label Gasket-Rocker Cover Cover-Rocker Arm (Cylinder 1) Cover-Rocker Arm (Cylinder 2) Pump-Oil Rod-Push (Steel) Rod-Push (Steel) Rod-Push (Steel) Rod-Push (Aluminum) Filter-Oil Arm-Rocker Shaft-Pump Label-Emission Plate-Trim Ring-Retaining Cable-Tie Owner's Manual Screw (Flywheel Fan) Retainer-Brush Set-Valve Gasket Pivot-Rocker Arm Screw (Alternator) Seal-O Ring (Solenoid Retainer) Seal-O Ring (Fuel Transfer Tube) Screw (Float Bowl) Screw (Float Bowl) Screw (Float Bowl) Screw (Float Bowl) Screw (Float Bowl) Screw (Float Bowl) Screm (Float Bowl) Screw (Float Bowl) Screm (Flo
1330 273521 Repair Manual	842	691031 •	Seal-O King (Dipstick)	1330	273521	engine.)

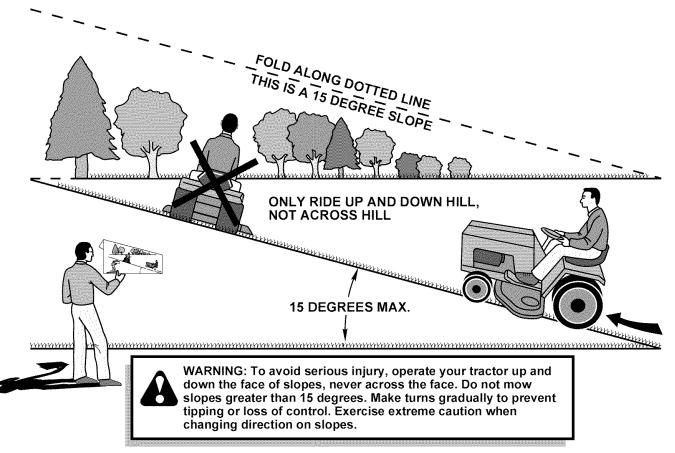
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Included in Engine Gasket Set, Key. No. 358 Included in Carburetor Overhaul Kit, Key. No. Ø 121

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

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

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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