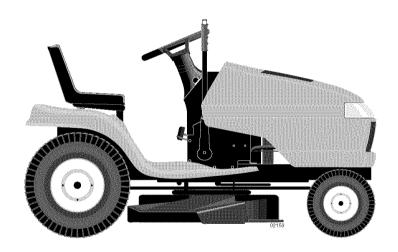
Owner's Manual

CRAFTSMAN®

LAWN TRACTOR

18.5 HP, 42" Mower Electric Start Automatic Transmission

Model No. **917.273646**





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 Line5 am - 5 pm, Mon - Sat

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A Visit our Craftsman website:www.sears.com/craftsman

TABLE OF CONTENTS

Warranty	2	Maintenance Schedule	18
Safety Rules			
Product Specifications			
Assembly Pre-Operation	8	Troubleshooting	30
Operation			
Maintenance		Sears Service	

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.

AWARNING: 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.

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

AWARNING: 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.

AWARNING: 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 in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.

- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60
 years and above, are involved in a large
 percentage of riding mower-related injuries. These operators should evaluate
 their ability to operate the riding mower
 safely enough to protect themselves
 and others from serious injury.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause buildup to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

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

SAFETY RULES

DO:

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

DO NOT:

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

III. CHILDREN

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

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.

- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

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

SAFETY RULES











- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.

- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

PRODUCT SPECIFICATIONS

Gasoline Capacity and Type:	4.0 Gallons Unleaded Regular
Oil Type (API-SG-SL):	SAE 30 (above 32°F) SAE 5W-30(Below 32°F)
Oil Capacity:	W/Filter: 3.5 Pints W/O Filter: 3.0 Pints
Spark Plug: (GAP: .030")	Champion RC12YC
Ground Speed (MPH):	Forward: 5.5 Reverse: 2.4
Tire Pressure:	Front: 14 PSI Rear: 10 PSI
Charging System:	9 Amps @ 3600RPM
Battery:	Amp/Hr: 28 Min. CCA: 230 Case Size: U1R
Blade Bolt Torque:	27–35 Ft. Lbs.

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

Should you experience any problem you cannot easily remedy, please contact 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.

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.

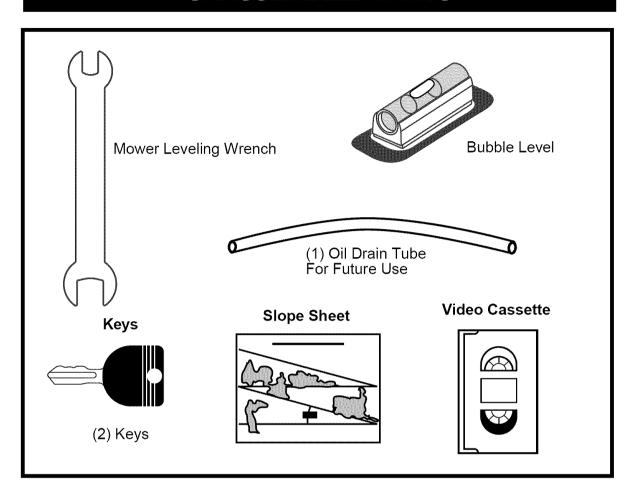
Once you purchase the Agreement, a simple phone call is all that it takes for you to schedule service. You can call anytime day or night, or schedule a service appointment online.

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. Review the video cassette before you begin.

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

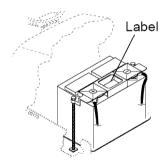
- Cut along dotted lines on all four panels of carton. Remove end panels and lay side panels flat.
- 2. Remove protective materials from tractor hood and grille.

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

HOW TO SET UP YOUR TRACTOR CHECK BATTERY

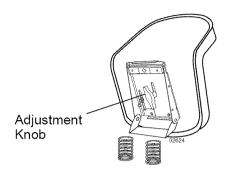
1. Lift hood to raised position.

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).



ADJUST SEAT

- Raise seat and loosen adjustment knob.
- 2. Lower seat into operating position and sit in seat.
- 3. Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- 4. Get off seat without moving its adjusted position.
- 5. 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)

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

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

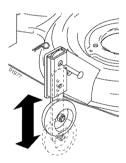
AWARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

- 1. Be sure all the above assembly steps have been completed.
- 2. Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position. (See "TO TRANSPORT" in the Operation section of this manual).

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

REPOSITION RIGHT REAR GAUGE WHEEL

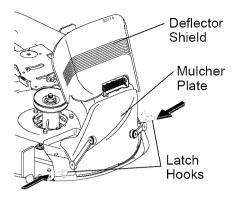
For shipping purposes, the right rear gauge wheel assembly is mounted upside down on the mower. Remove the gauge wheel assembly and reinstall from the bottom as shown. To adjust gauge wheels, see the Operation section in this manual.



INSTALL MULCHER PLATE (If previously removed)

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

ACAUTION: Do not remove deflector shield from mower.



TO CONVERT TO BAGGING OR DISCHARGING

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

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

CHECK TIRE PRESSURE

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

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

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

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

Please review the following checklist:

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

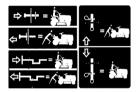
While learning how to use your tractor, pay extra attention to the following important items:

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

OPERATION

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





FREE WHEEL (Automatic Models only)



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



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

IGNITION



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



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

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



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

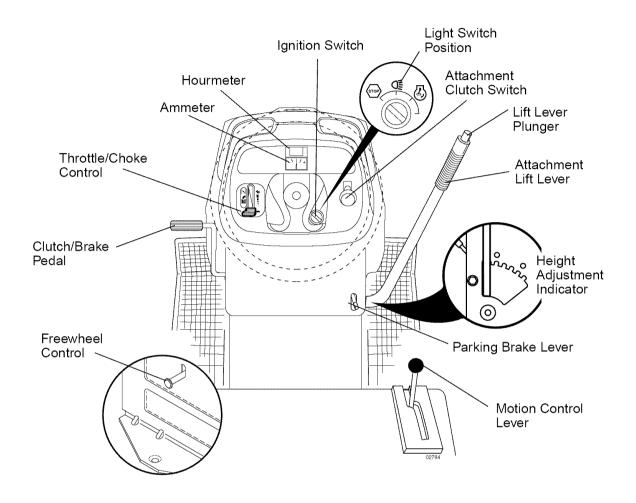


FIRE indicates a hazard which, if not avoided. could result in death, serious injury and/or property damage.

KNOW YOUR TRACTOR

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

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



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

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

discharging (-) of battery.

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

ATTACHMENT LIFT LEVER - Used to raise, lower, and adjust the mower deck or other attachments mounted to your tractor. CLUTCH/BRAKE PEDAL - Used for declutching and braking the tractor and starting the engine.

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

IGNITION SWITCH - Used for starting and stopping the engine.

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

LIGHT SWITCH POSITION - Turns the headlights on and off.

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

THROTTLE/CHOKE CONTROL - Used for starting and controlling engine speed. FREEWHEEL CONTROL - Disengagages transmission for pushing or slowly towing

the tractor with the engine off. **HOURMETER** - Indicates hours of operation.

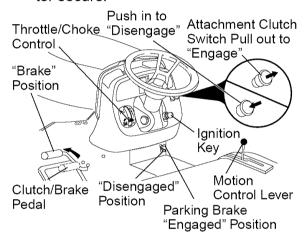


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn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

- 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 motion control lever to neutral (N) position.

IMPORTANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

 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.

ACAUTION: 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 bagging and mower performance.

TO MOVE FORWARD AND BACKWARD

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

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

TO ADJUST MOWER CUTTING HEIGHT

The position of the attachment lift lever determines the cutting height.

- Grasp lift lever.
- Press plunger with thumb and move lever to desired position.

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

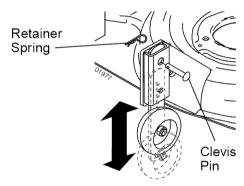
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first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

TO ADJUST GAUGE WHEELS

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.

- 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.
- 3. 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.



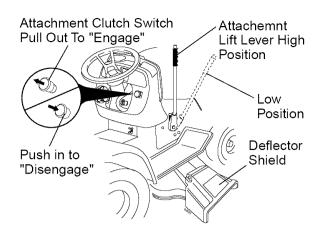
TO OPERATE MOWER

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. Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES - disengage attachment clutch control.

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



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 motion control lever to neutral (N) position.

IMPORTANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

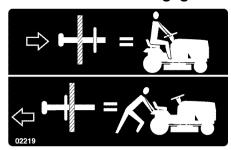
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

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

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

Transmission Engaged



Transmission Disengaged

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

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

IMPORTANT: When operating in temperatures below 32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting.

CAUTION: Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty.

Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

TO START ENGINE

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.

- 1. Be sure freewheel control is in the transmission engaged position.
- 2. Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- 3. Place motion control lever in neutral (N) position.
- 4. Move attachment clutch to disengaged position.
- 5. Move throttle control to choke position. **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, move throttle control to fast position, wait a few minutes and try again. If engine still does not start, move the throttle control back to the choke position and retry.

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

AUTOMATIC TRANSMISSION WARM UP Before driving the unit in cold weather, the transmission should be warmed up as follows:

- 1. Be sure the tractor is on level ground.
- 2. Place the motion control lever in neutral. Release the parking brake and let the clutch/brake slowly return to operating position.
- 3. Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can also be used during the engine warm-up period after the transmission has been warmed up.

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

PURGE TRANSMISSION

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

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

IMPORTANT: Should your transmission require removal for service or replacement, it should be purged after reinstallation before operating the tractor.

- 1. Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in "transmission disengaged" position (See "TO TRANS-PORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- 4. Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

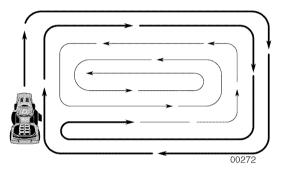
NOTE: During this step there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

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

Your transmission is now purged and ready for normal operation.

MOWING TIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has 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.

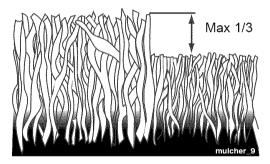


- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet.
 Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before 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.

MULCHING MOWING TIPS

IMPORTANT: For best performance, keep mower housing free of built-up grass and trash. Clean after each use.

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



- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across (perpendicular) to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

MAINTENANCE

AS	MAINTENANCE SCHEDUL LIN DATES YOU COMPLETE GULAR SERVICE	E /	BEFORE	EACH OF	HOURS HOURS	THOUR'S	S HOUS O HOUS VERY	OO HOU	AS ON EASON EFORE	SERVICE SERVICE	CE DATES
	Check Brake Operation	~	1								
	Check Tire Pressure	1	V								
Т	Check Operator Presence and Interlock Systems	V									
R	Check for Loose Fasteners	1				1 5		1			
ΙÀ	Sharpen/Replace Mower Blades			√ 3							
C	Lubrication Chart			1				1			
ö	Check Battery Level			1 /4							
R	Clean Battery and Terminals			'				1			
	Check Transaxle Cooling			/							
	Check V-Belts					1					
	Check Engine Oil Level	1	1								
	Change Engine Oil (with oil filter)				1,2			1			
lΕ	Change Engine Oil (without oil filter)			1 1,2				1			
Ν	Clean Air Filter			✓ 2							
Ģ	Clean Air Screen			1 2							
Ι'n	Inspect Muffler/Spark Arrester				1						
ΙÈ	Replace Oil Filter (If equipped)					1,2					
I -	Clean Engine Cooling Fins					1 2					
	Replace Spark Plug					1	1				
	Replace Air Filter Paper Cartridge					1/2					
	Replace Fuel Filter						1				

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

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your trac-

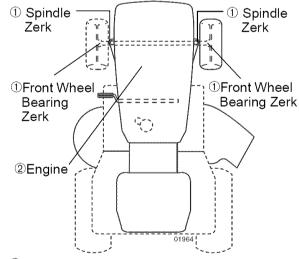
At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

 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 interlock systems for proper operation.
- 5. Check for loose fasteners.

LUBRICATION CHART



- General Purpose Grease
- ② REFER TO Maintenance "ENGINE" SECTION

IMPORTANT: Do not oil or grease the pivot points which have special nylon bearings. Viscous lubricants will attract dust and dirt that will 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

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

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

BLADE CARE

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

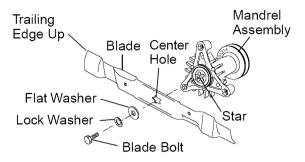
BLADE REMOVAL

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

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

 Reassemble blade bolt, lock washer and flat washer in exact order as shown. 5. Tighten blade bolt securely (27-35 Ft. Lbs. torque).

IMPORTANT: Blade bolt is heat treated. If bolt needs replacing, replace only with approve bolt shown in the Repair Parts.



TO SHARPEN BLADE

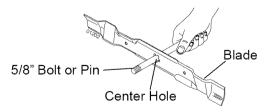
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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.

Remove terminal guard.

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

TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling. Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

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

TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact a Sears or other qualified service center.

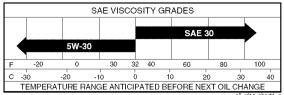
V-RFITS

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.



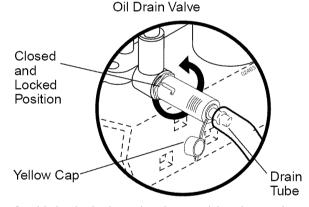
NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, they will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- 2. Remove yellow cap from end of drain valve and install the drain tube onto the fitting.



- 3. Unlock drain valve by pushing inward slightly and turning counterclockwise.
- 4. To open, pull out on the drain valve.
- 5. After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- 6. Remove the drain tube and replace the cap onto the end of the drain valve.
- 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.
- 8. 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. Replace pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

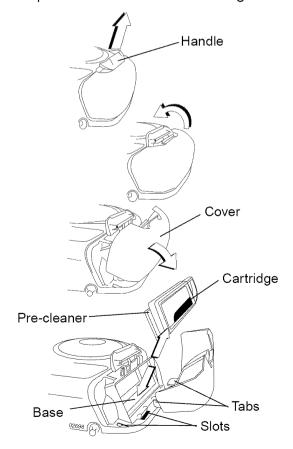
Service air cleaner more often under dusty conditions.

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

NOTE: If very dirty or damaged, replace cartridge.

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

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

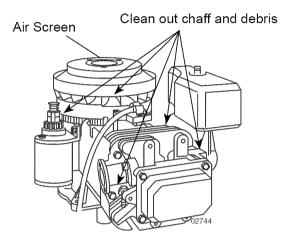


CLEAN AIR SCREEN

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

ENGINE COOLING SYSTEM

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



MUFFLER

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

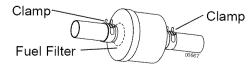
SPARK PLUG(S)

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 SERVICE OR ADJUSTMENTS:

- 1. Depress clutch/brake pedal fully and set parking brake.
- 2. Place motion control 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

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

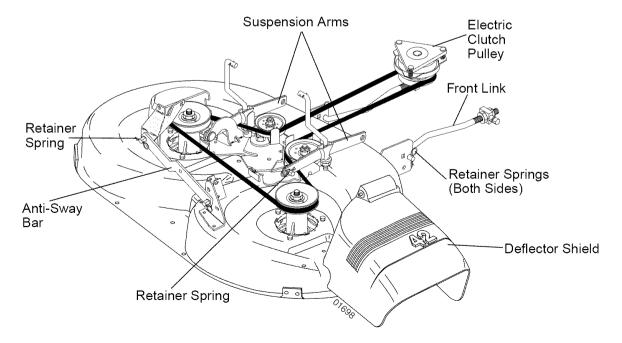
- 1. Place attachment clutch switch in "DIS-ENGAGED" position.
- 2. Move attachment lift lever forward to lower mower to its lowest position.
- 3. Roll belt off electric clutch pulley.
- 4. Disconnect anti-sway bar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.

- 6. Disconnect front links from deck by removing retainer springs.
- 7. Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links.

TO INSTALL MOWER

- 1. Raise attachment lift lever to its highest position.
- Slide mower under tractor with deflector shield to right side of tractor.
- 3. Lower lift lever to its lowest position.
- 4. Connect front links to mower deck and secure with retainer springs.



- Connect suspension arms to rear deck brackets and secure with retainer springs.
- Connect anti-sway bar to chassis bracket and secure with retainer spring.
- 7. Install belt into electric clutch pulley groove.

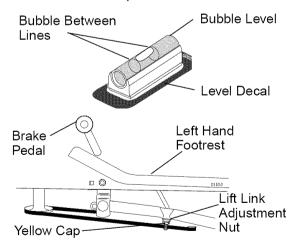
TO LEVEL MOWER HOUSING

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

SIDE-TO-SIDE ADJUSTMENT WITH BUBBLE LEVEL

NOTE: If necessary, check side-to-side surface below tractor for levelness with a long board and the bubble level.

- Using the lift lever, place mower in position where no part of the mower, including gauge wheels, is touching the ground.
- From left side of tractor, find the level decal on top of mower and place bubble level on decal as indicated.
- Mower is level side-to-side when bubble is between the two lines in the bubble level
- If adjustment is necessary, under left hand footrest, turn lift link adjustment nut (above yellow cap) in appropriate direction to bring bubble between the lines in the bubble level.
- Remove bubble level from mower and store in a safe place.



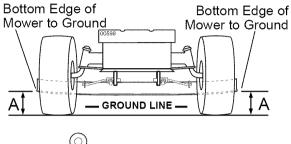
ALTERNATE SIDE-TO-SIDE ADJUSTMENT METHOD

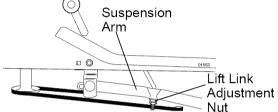
- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.

- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

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

Recheck measurements after adjusting.





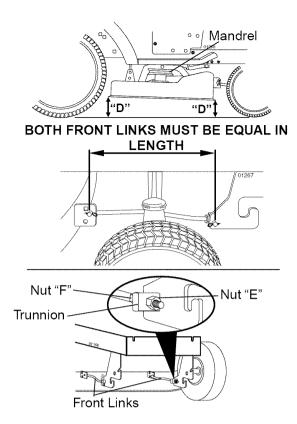
FRONT-TO-BACK ADJUSTMENT

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

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

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



TO REPLACE MOWER BLADE DRIVE BELT

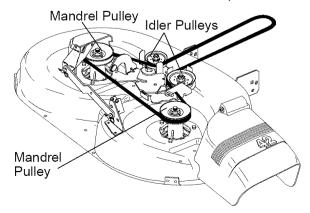
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of manual).
- 2. Work belt off both mandrel pulleys and idler pulleys.
- 3. Pull belt away from mower.

BELT INSTALLATION -

- 1. Work belt around both mandrel pulleys and idler pulleys
- 2. Make sure belt is in all pulley grooves and inside all belt guides.
- 3. Install mower (See "To Install Mower" in this section of this manual).



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

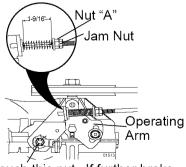
- Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake.
- 2. Disengage transmission by placing freewheel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the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

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, 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.
- If distance is other than 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".
- 4. Engage transmission by placing freewheel control in "transmission engaged" position.
- 5. 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"



Do not touch this nut. If further brake adjustment is necessary contact a Sears or other qualified service center.

TO REPLACE MOTION DRIVE BELT

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

BELT REMOVAL -

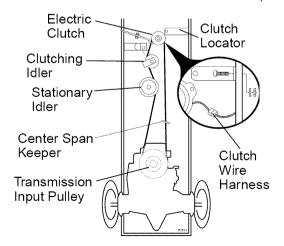
 Remove mower (See "TO REMOVE MOWER" in this section of manual).

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

- Disconnect clutch wire harness.
- 3. Remove clutch locator.
- 4. Remove belt from stationary idler and clutching idler.
- 5. Remove belt downward from engine pulley and around electric clutch.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- 7. Remove belt from center span keeper and pull belt away from tractor.

BELT INSTALLATION -

- Carefully work new belt down around transmission cooling fan and onto the input pulley.
- Slide belt into the center span keeper.
- 3. Pull belt toward front of tractor and roll belt around electric clutch and onto engine pulley.
- 4. Install belt through stationary idler and clutching idler.
- 5. Reinstall clutch locator and tighten nut securely.
- 6. Reconnect clutch harness.
- 7. Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- 8. Install mower (See "TO INSTALL MOWER" in this section of manual).



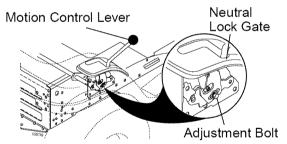
TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT

The motion control lever has been preset at the factory and adjustment should not be necessary.

- 1. Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- 2. Start engine and move motion control lever until tractor does not move forward or backward.
- 3. Hold motion control lever in that position and turn engine off.
- 4. While holding motion control lever in place, loosen the adjustment bolt.
- 5. Move motion control lever to the neutral (N) (lock gate) position.
- 6. Tighten adjustment bolt securely.

 NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

 After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:
- 1. Loosen the adjustment bolt.
- 2. Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- 3. Tighten adjustment bolt securely.
- 4. Start engine and test.
- 5. If tractor still creeps, repeat above steps until satisfied.



TRANSMISSION REMOVAL/ REPLACEMENT

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

TO ADJUST STEERING WHEEL ALIGNMENT

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

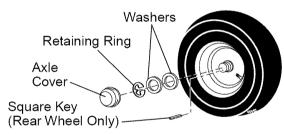
TO REMOVE WHEEL FOR REPAIRS

- 1. Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheels have a square key - Do not lose).
- 3. Repair tire and reassemble.

NOTE: On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.

- 4. Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, purchase and use tire sealant from Sears. Tire sealant also prevents tire dry rot and corrosion.



TO START ENGINE WITH A WEAK BATTERY

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

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

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

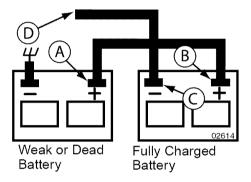
IMPORTANT: Your tractor is equipped with a 12 volt system. The other vehicle must also be a 12 volt system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

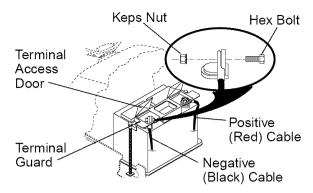


REPLACING BATTERY

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

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

- 1. Lift hood to raised position.
- 2. Remove terminal guard.
- 3. 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.
- 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
- Close terminal access doors.
- Close hood.



TO REPLACE HEADLIGHT BULB

- 1. Raise hood.
- 2. Pull bulb holder out of the hole in the backside of the grill.
- 3. 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.

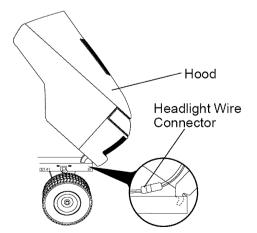
 Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 20 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.
- 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.



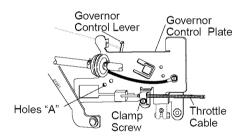
ENGINE

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



TO ADJUST CARBURETOR

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

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

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

IMPORTANT: Damage to the needle valve and the seat in carburetor may result if screw is turned in too tight.

PRELIMINARY SETTING -

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

FINAL SETTING -

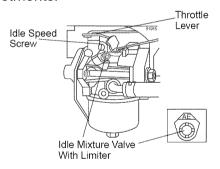
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- 2. Move throttle control lever to slow position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain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

ACCELERATION TEST -

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

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

IMPORTANT: 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.

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

TRACTOR

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

- Clean entire tractor (See "CLEANING" in the Maintenance section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- 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).
- 3. 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 carbure- tor, refill tank with fresh gas- oline and replace fuel filter.
	8. Loose or damaged wiring.9. Carburetor out of adjustment.10. Engine valves out of adjustment.	8. Check all wiring.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of 	Service and Adjustments section. 8. Contact a Sears or other
Engine will not turn over	adjustment. 1. Brake pedal not depressed. 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es).	qualified service center. 1. Depress brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. 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.
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. 	 Raise cutting height/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil.

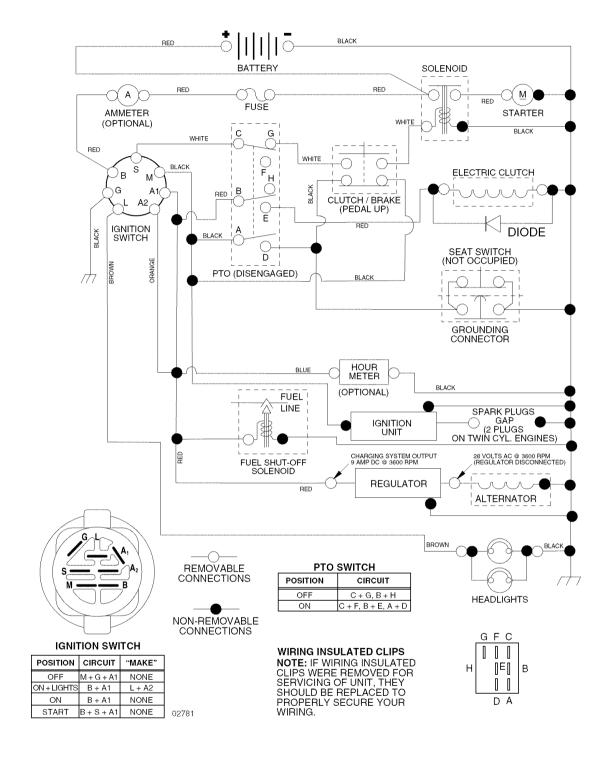
TROUBLESHOOTING CHART: See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION			
Loss of power (continued)	 Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service 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 continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact a 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 from build-up 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. 			
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. 			

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

PROBLEM	CAUSE	CORRECTION
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. 	Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing.
	 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. 	4. Level mower deck.
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse.
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator.
Loss of drive	 Freewheel control in "disengaged" position. Motion drive belt worn, damaged, or broken. Air trapped in transmission during shipment or servicing. 	 Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission.
Engine "backfires" when turning engine "OFF"	Engine throttle control not set between half and full speed (fast) position before stopping engine.	between half and full speed

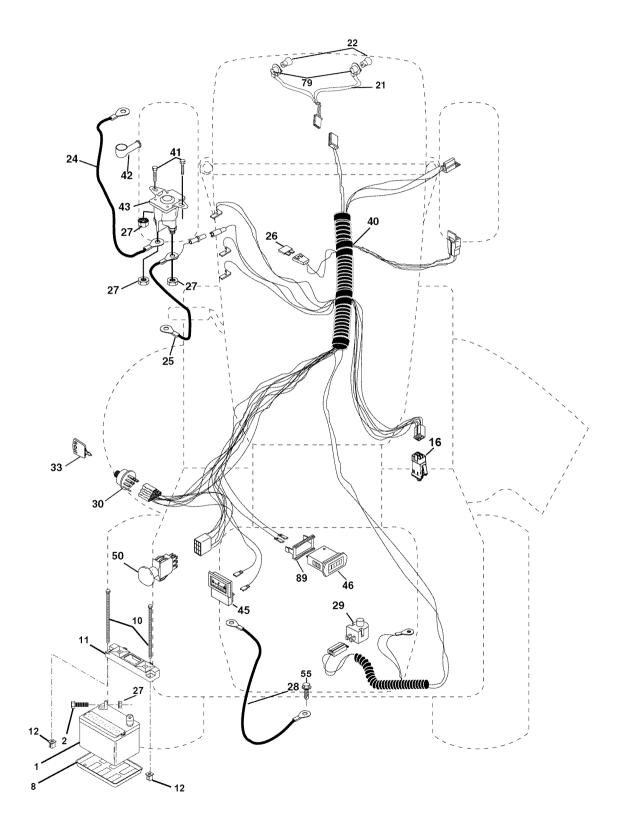
SCHEMATIC



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.273646

ELECTRICAL



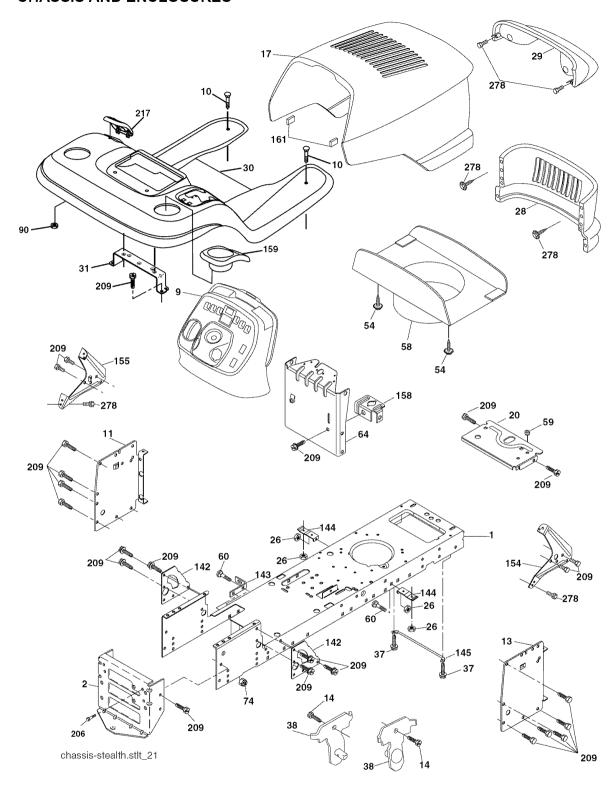
TRACTOR - - MODEL NUMBER 917.273646

ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1 2 8 10 11 12 16 21 22 24 25 26 27 28 29 33 40 41 42 43 45 55 79 89	163465 74760412 7603J 145211 150109 145769 176138 175688 4152J 8860R 146148 175158 73510400 145491 121305X 175566 140403 188031 71110408 131563 178861 122822X 169635 174652 17490508 175242 169639	Battery Bolt, Hex 1/4-20 x 3/4 Tray, Battery Bolt, Btr Front 1/4-20 x 7-1/2 Holddown Battery Front Mount Nut, Push Nylon Battery Front 1/4 Switch Interlock Harness, Light Light Bulb Cable, Starter Cable, Battery Fuse Nut Keps Hex 1/4-20 Unc Cable, Ground Switch, Seat Switch, Ignition Key, Molded Harness, Ignition Bolt Blk Fin Hex 1/4-20 Unc x 1/2 Cover, Terminal Solenoid Ammeter Hourmeter Switch, PTO Screw Thdrol 5/16-18 x 1/2 Socket Asm bulb Twistlock Bracket Snap-In

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

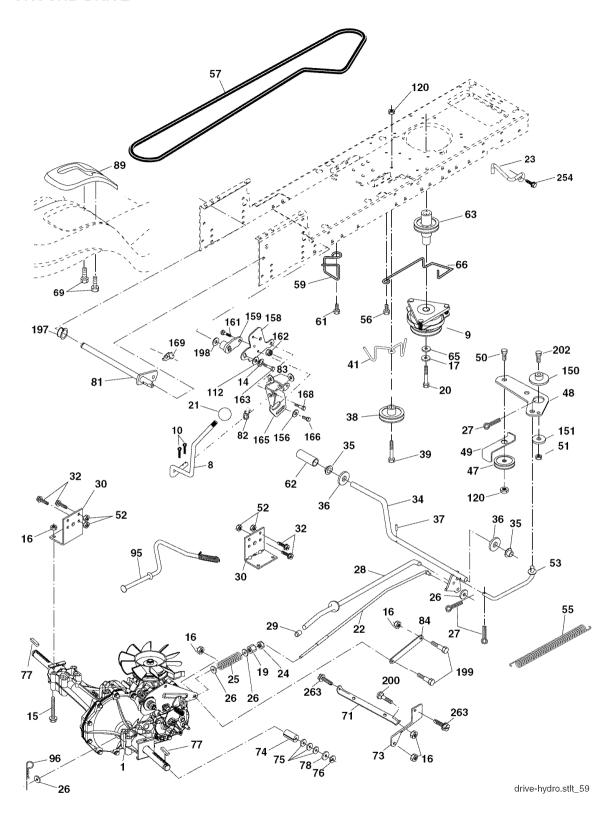
TRACTOR - - MODEL NUMBER 917.273646 CHASSIS AND ENCLOSURES



TRACTOR - - MODEL NUMBER 917.273646 CHASSIS AND ENCLOSURES

	PART	DESCRIPTION
NO.		DESCRIPTION
1	174619	Chassis
2 9	176554	Drawbar
10	161566X428 72140608	Bolt RDHD SQNK 3/8-16 x 1
11	167203	Panel, Dash, LH
13		Panel, Dash, RH
14	17490608	Screw Thdrol 3/8-16 x 1/2
17		Hood Assembly
20	162026	Plate Battery
26	STD541437	· · · · · · · · · · · · · · · · · · ·
28	174515X615	
29	161840	Lens, Bar
30 31		Fender/Footrest
37	139976 17490508	Bracket, Fender/Support Screw, Thdrol. 5/16-18 x 1/2 TYT
38	175710	Bracket Asm Pivot Mower Rear
54	161464	Screw Hex Wshd 8-18 x 7/8
58	175351	Duct Hood
59	187495	Bushing 1.375 OD
60	STD533707	Bolt Rdhd Sqnk 3/8-16 unc x 3/4
64	174997	Dash Lower
74	STD541437	Nut Crownlock 3/8-16 unc
90	124346X	Nut Self Thrd Wshd 1/4 Zinc
142		Plate Reinforcement
143 144		Bracket Swaybar Chassis Bracket Footrest
145		Rod Pivot Chassis/Hood
154		Bracket Dash Rh
155		Bracket Dash Lh
158		Parking Brake Bkrt
159	179950X428	
161	164655	Bumper Extrusion .600 x 3.50
206	170165	Bolt Shoulder 5/16-18
209 217	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
217	1/9132X428	Console Fuel Window
278	191611	Screw 10 x 3/4 Single Lead-Hex

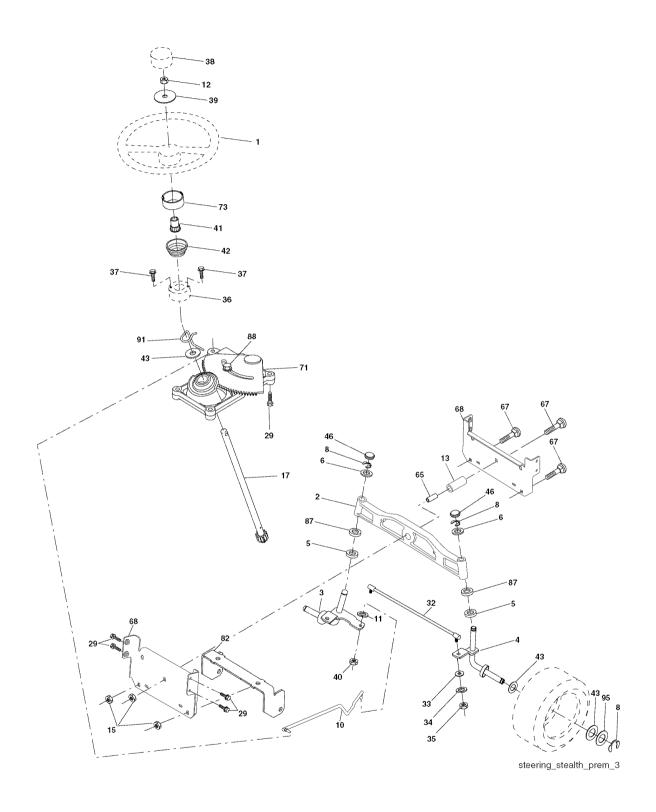
GROUND DRIVE



GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle, HydroGear, Model Number 314-0510 (See Break down)	62 63 65	123533X 174607 10040700	Cover, Pedal Pulley, Engine Washer
8	165866	Rod Śhift Fend.	66	154778	Keeper Belt Engine
9	180505	Clutch Electric	69	142432	Screw Hew Wsh Hi-Lo 1/4-1/2 unc
10	76020416	Pin Cotter 1/8 x 1	71	169183	Strap Torque LH
14 45	10040400	Washer Lock Hvy 1/4	73	169182	Strap Torque RH
15 16	74490544	Bolt Hex Flghd 5/16-18 Gr. 5 Nut Lock Hex W/Ins. 5/16-18 unc	74 75	137057	Spacer, Axle
16 17	73800500			121749X 12000001	Washer 25/32 x 1-1/4 x 16 Ga.
17	126197X	Washer 1-1/2 OD x 15/32 ID x .250	76 77	12000001 123583X	E-Ring
10	73900600		77 78	123563X 121748X	Key, Square
19 20	73800600 173937	Nut Lock Hex W/Wsh 3/8-16 unc Bolt Hex	70 81	165596	Washer 25/32 x 1-5/8 x 16 Ga.
20	173937	7/16-20 x 4 x Gr. 5-1.5 Thr.	82	165711	Shaft Assy. Cross Taper Spring Torsion
21	130564	Knob	83	19171216	Washer 17/32 x 3/4 x 16 Ga.
22	169498	Rod, Brake	84	169594	Link Transaxle
23	190736	Bracket Anti-Rotation	89		Console, Shift
24	73350600	Nut, Hex Jam 3/8-16 unc	95	170201	Rod Bypass
25	106888X	Spring, Brake Rod	96	4497H	Retainer Spring 1" Zinc/Cad
26	19131316	Washer	112	19091210	Washer 9/32 x 3/4 x 10 Ga.
27	76020412	Pin Cotter 1/8 x 3/4 CAD.	120	73900600	Nut Lock Flg 3/8-16 unc
28	175765	Rod, Parking Brake	144	19111016	Washer 11/32 x 5/8 x 16 Ga.
29	124236X	Knob Brake Parking	150	175456	Spacer Retainer
30	169592	Bracket, Transaxle	151	19133210	Washer 13/32 x 2 x 10 Ga.
32	74760512	Bolt Hex Hd 5/16-18 unc x 3/4	156	166002	Washer 5/16 ID x 1.0 x .125
33	72140506	bolt Rdhd Sqnk 5/16-18 unc x 3/4	158	165589	Bracket Shift Mount
34	175578	Shaft, Foot Pedal	159	183900	Hub Shift
35	120183X	Bearing, Nylon	161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
36	19211616	Washer	162	73680400	Nut Crownlock 1/4-20 unc
37	1572H	Pin, Roll	163	74780416	Bolt Hex Fin 1/4-20 unc x 1 Gr. 5
38	179114	Pulley, Composite	165	165623	Bracket Pivot Lever
39	72110622	Bolt Rdhd 3/8-16 unc x 2-3/4 Gr. 5	166 168	17490510	Screw 5/16-18 x 5/8
41 47	175556	Keeper, Belt Idler Flat	169	165492 165580	Bolt Shoulder 5/16-18 x .561 Plate Fastener Cross Shf.
47 48	127783 154407	Pulley, Idler, V-Groove Bellcrank Clutch Grnd Drw Stl	197	169613	Nyliner Snap-in 5/8 ID
49	123205X	Retainer, Belt	198	169593	Washer Nyl 7/8 ID x .105"
50	72110612	Bolt	199	169612	Bolt Shoulder 5/16-18 unc
51	73680600	Nut Crownlock 3/8-16 unc	200	72140508	Bolt Rdhd Sqnk 5/16-18 unc x 1
52	73680500	Nut, Crownlock 5/16-18 unc	202	72110614	Bolt Carr Sh 3/8-16 x 1-3/4 Gr. 5
53	105710X	Link, Clutch	254	17000616	Screw 3/8-16 x 1
55	105709X	Spring, Return, Clutch	263	17000612	Screw 3/8-16 x .75
56	17060620	Screw 3/8-16 x 1-1/4			
57	140294	V-Belt, Ground Drive			
59	169691	Keeper, Center Span	NOT	E: All compone	ent dimensions given in U.S. inches
61	17120614	Screw 3/8-16 x .875	1 incl	n = 25.4 mm	-

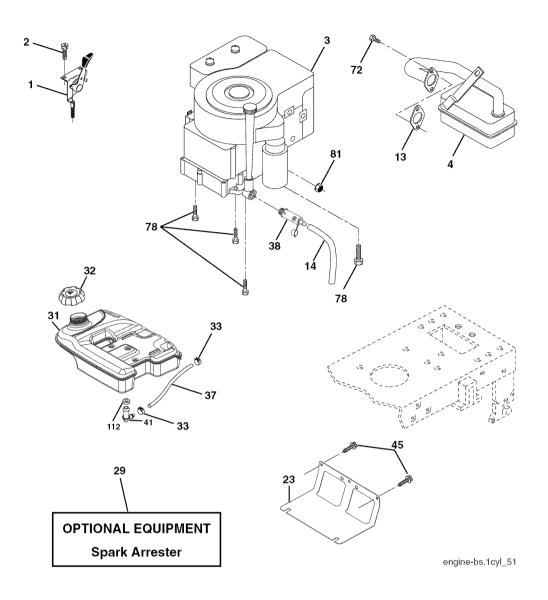
TRACTOR - - MODEL NUMBER 917.273646 STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 917.273646 STEERING ASSEMBLY

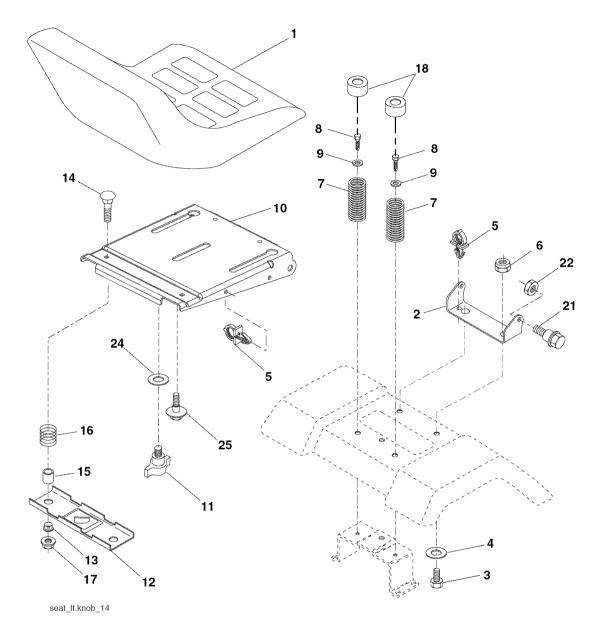
KEY NO.	PART NO.	DESCRIPTION
1 2 3	184706	Wheel Steering Axle Asm
4	169840 169839	Spindle Asm LH Spindle Asm RH
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8	12000029	Ring Klip #t5304-75
10	175121	Link Drag
11 12	STD551137 73940800	Washer Lock Hvy Hlcl Spr 3/8 Nut Hex Jam Toplock 1/2-20 unf
13	136518	Spacer Bearing Axle Front
15	145212	Nut Hex Flange Lock
17	177883	Shaft Asm. Steering
29 32	17000612 171888	Screw 3/8-16 x 3/4 Rod Tie
33	19111216	Washer 11/32 x 3/4 x 16 Ga.
34	10040500	Washer Lock HIcl Spr 5/16
35	73540500	Crownlock Nut 5/16-24 unf
36	155105	Bushing Strg
37 38	152927 186095X428	Screw Insert Cap Strg Wh
39	19183812	Washer 9/16 x 2-3/8 12 Ga.
40	73540600	Nut Crownlock 3/8-24
41	186737	Adaptor Wheel Strg
42 43	163888X428 121749X	Boot Steering
43 46		Washer 25/32 1 1/4 x 16 Ga. Cap Spindle
65	160367	Spacer Brace Axle
67	72110618	Bolt, Rdhd Sq 3/8-16 unc x 2-1/4
68	169827	Axle, Brace
71 73	175146 160135¥428	Steering Asm. Extension Steering Stealth
82	169835	Bracket Susp. Chassis Front
87	173966	Washer Flat .781 x 1-1/2 x .15
88	175118	Bolt Shoulder 7/16-20 unc
91 95	175553	Clip Steering Washer Harden .793 x 1.637 x .060
90	188967	vvasner narden ./35 x 1.65/ x .060

ENGINE



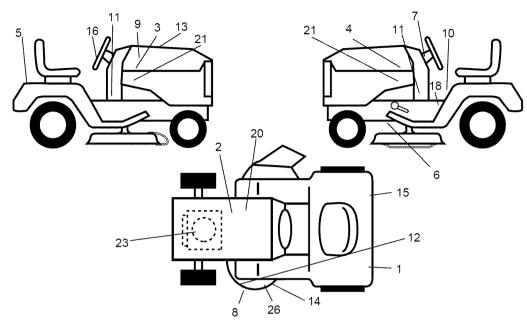
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	176636X505	Control Throttle/Choke	38	181654	Plug Drain Oil Easy
2	171875	Screw Hwhd Hi-Lo #13-16 x 3/4	41	139277	Stem Tank Fuel
3		Engine, Briggs Model 31P777-	45	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
		0348-E1 (See Breakdown)	72	183906	Screw 5/16-18 x 1
4	137352	Muffler Asm Twin Lo-Tone	78	17060620	Screw 3/8-16 x 1-1/4
13	165291	Muffler Gasket	81	73510400	Nut Keps Hex 1/4-20 unc
14	148456	Tube Drain oil	112	3645J	Bushing
23	169837	Shield Heat			G
29	137180	Kit Spark Arrestor (Flat Scrn)			
31	179022	Tank Fuel 4.0 Rear	NOTE	. All common	ant dimensions siven in U.C.
32	179124X428	Cap Asm Fuel	NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm		
33	123487X	Clamp Hose Black	inches	5 INCH = 25.4	+ [[][[]]
37	8543R	Line Fuel			

SEAT ASSEMBLY



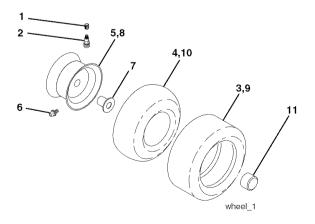
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	180598	Seat	13	121248X	Bushing Snap Blk Nyl 50 ld
2	180166	Bracket Pivot Seat	14	72050412	Bolt Rdhd Sank 1/4-20 x 1-1/2
3	STD523710	Bolt Fin Hex 3/8-16 unc x 1	15	121249X	Spacer Split 28x .88 Zinc
4	19131610	Washer 13/32 x 1 x 10 Ga	16	123740X	Spring Cprsn Plate 1.310 Ga
5	145006	Clip Push-In	17	123976X	Nut Lock 1/4 Lge Flg Gr. 5 Zinc
6	STD541437	Nut Hex w/lns. 3/8-16 unc	18	124238X	Cap Spring Seat
7	124181X	Spring Seat Cprsn	21	171852	Bolt Shoulder 5/16-18 unc
8	17000616	Screw 3/8-16 x 1-1/2	22	STD541431	Nut Hex Lock W/Ins 5/16-18
9	19131614	Washer 13/32 x 1 x 14 Ga.	24	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
10	180186	Pan Seat	25	127018X	Bolt Shoulder 5/16-18 x 62
11 12	166369 121246X	Knob Seat Adj. Wingnut Bracket Mounting Switch	NOTE	: All compone 1 inch = 25.4	ent dimensions given in U.S. inches mm

DECALS



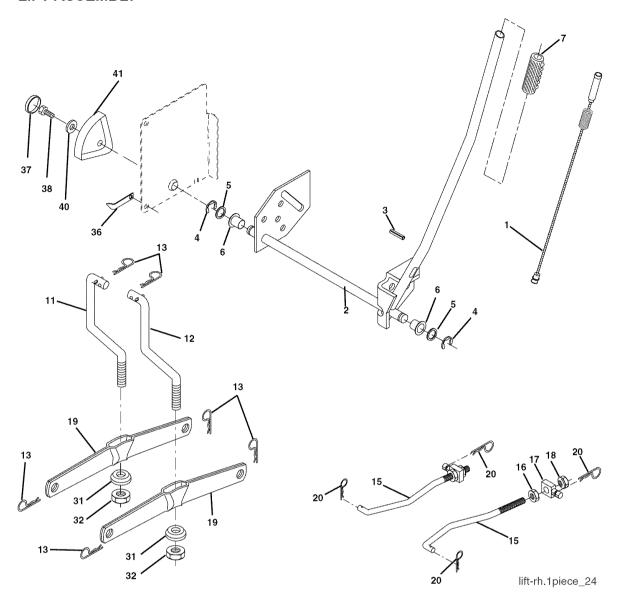
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	187407	Reflector, LH	14	160396	Decal, V-Belt, Schematic
2	138047	Decal, Battery, Diehard, Sears	15	187408	Decal, Reflector, RH
3	186242	Decal, Hood RH	16	164065	Decal, Steering Wheel
4	186243	Decal, Hood LH	18	156811	Decal, Fender Opr.
5	186572	Decal, Fender Craftsman	20	149516	Decal, Battery
6	146046	Decal, V-Belt, Drive Schematic	21	186331	Decal, Hood, Side Panel
7	164096	Decal, Dash	23	189020	Decal, Engine
8	179128	Decal, Deck, Caution	26	181470	Decal, Deck level
9	192830	Decal, Replacement Hood		184310X428	Pad, Footrest, ST/LT, LH
10	156439	Decal, Fender, Danger		184311X428	Pad, Footrest, ST/LT, RH
11	189088	Decal, Panel, Dash		166960	Decal By-Pass
12	172331	Decal, Mower, Heavy-Duty		192853	Manual, Owner's, English
13	133644	Decal, Replacement Parts		192854	Manual, Owner's, Spanish

WHEELS & TIRES



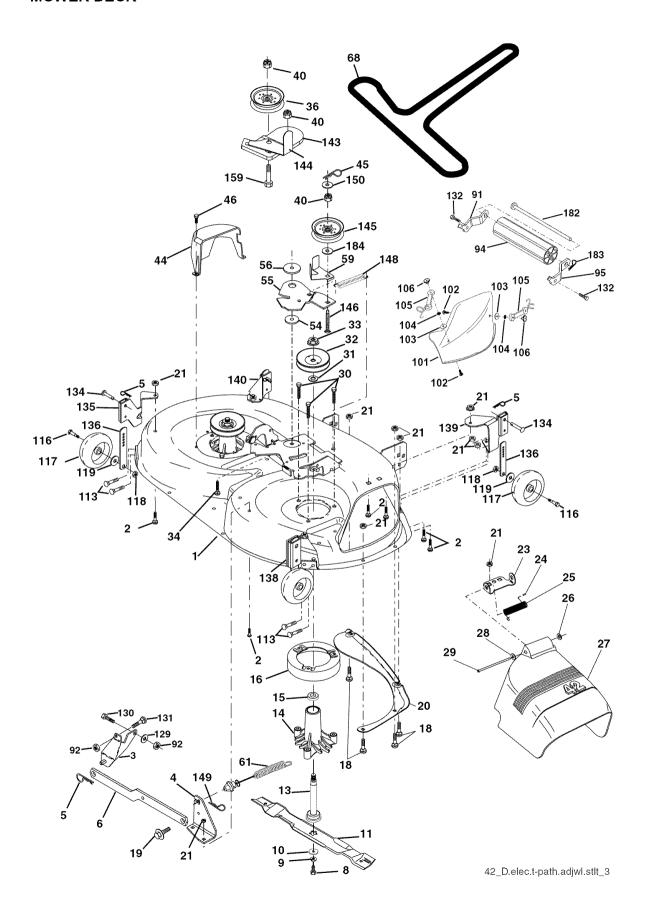
KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F Ts 15 x 6 0 - 6 Service
4	59904	Tube Front (Service Item Only)
5	106732X624	Rim Asm 6"front Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel Only)
8	106108X624	Rim Asm 8"rear Service
9	122082X	Tire R Ts 20 x 10-8 C Service
10	7152J	Tube Rear (Service Item Only)
11	104757X428	Cap Axle Blk 1 50 x 1 00
	144334	Sealant, Tire (10 oz. Tube)

LIFT ASSEMBLY



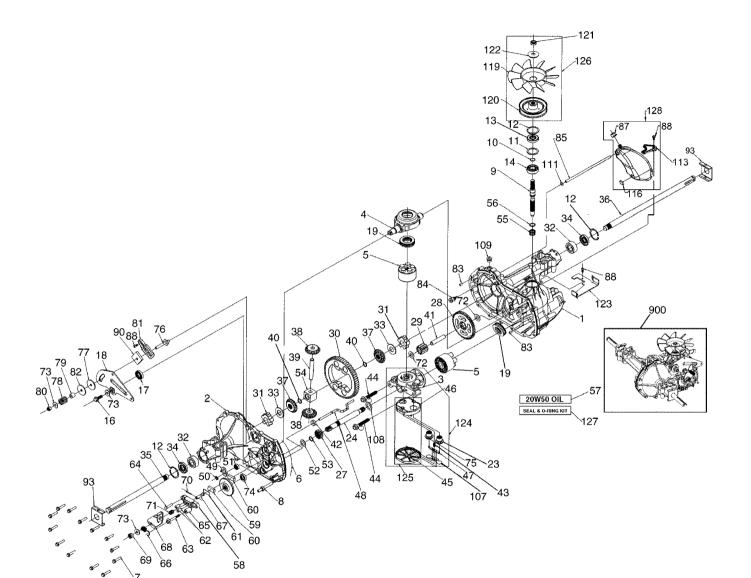
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7	179504 159476 188822 12000002 19211621 120183X 175830 139865	Plunger Assembly Shaft Assembly, Lift Pin, Groove E-Ring Washer 21/32 x 1 x 21 Ga. Bearing, Nylon Grip, Handle, Fluted Link, Lift, L.H.	18 19 20 31 32 36 37 38	73800800 139868 163552 169865 73540600 155097 123935X 17060516	Nut Lock w/Wsh 1/2-13 unc Arm Asm. Suspension Mower Retainer Spring Bearing Pivot Lift Nut Crownlock 3/8-24 Pointer Height Indicator Plug Hole Screw 5/16-18 x 1
12 13 15 16 17	139866 4939M 173288 73350800 175689	Link, Lift, R.H. Retainer Spring Link Front Sus. Nut Hex Jam 1/2-13 unc Trunnion Front Susp.	40 41 NOTE	19112410 155098 E: All compon 1 inch = 25.	Washer 11/32 x 1-1/2 x 10 Ga. Indicator Height Stlt lent dimensions given in U.S. inches 4 mm

MOWER DECK



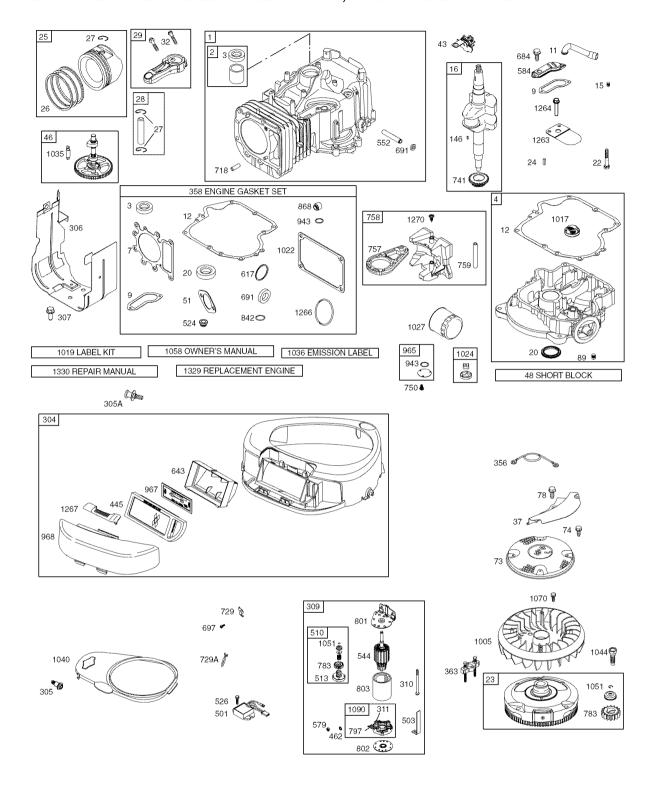
MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	182032	Mower Housing	92	STD541437	Locknut, Hex W/Wsh 3/8-16 unc
2	STD533107		94	132264	Roller Nose
3	138017	Bracket Assembly, Sway Bar, Front	95	180533	Bracket Roller Nose RH
4	165460	Bracket Sway Bar 38/42"	101	136420	Cover Mulching 42" Black
5		Retainer Spring	102	71081010	Screw Truss Hd Phil10-24 x 5/8
6	178024	Bar Sway Deck	103	19061216	Washer #10
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	104	STD551110	Washer Lock
9	STD551137	Washer, Lock	105	160793	Latch Asm Bagger
10	140296	Washer, Hardened	106	2029J	Nut Weld
		(The following blades are available)	113	17060512	Screw 5/16-18
11	134149	Blade, 42" Mulching STD	116	4898H	Bolt, Shoulder
		(For mulching mowers only)	117	165746	Wheel, Gauge
	139775	Blade, 42" Mulching Premium	118	73930600	Nut, Crownlock 3/8-1
	400074	(For better wear when mulching)	119	19121414	Washer 13/32 x 7/8 x 14 Ga.
	138971	Blade, 42" Hi-Lift	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
13	137645	(For bagging or discharge) Shaft Assembly, Mandrel, Vented	130 131		Bolt, Fin Hex 3/8-16 unc x 1Gr. 5 Bolt Rdhd Sqnk 3/8-16 unc x 1
13	13/043	(Incl. Key Number 6)	132	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
14	128774	Housing, Mandrel, Vented	134	156941	Pin Head Rivet
15	110485X	Bearing, Ball, Mandrel	135	159765	Bracket Asm. Wheel Gauge
16	174493	Stripper, Mower Deck	,		Rear LH
18	72140505	Bolt, Carriage 5/16-18 x 5/8	136	155986	Bar Adj. Gauge Wheel
19	132827	Bolt, Shoulder	138	159763	Bracket Asm. Wheel Gauge
20	159770	Baffle, Vortex			Rear RH
21	STD541431	*	139	159767	Bracket Asm. Wheel Gauge
23	177563	Bracket, Deflector			Front RH
24	105304X	Cap, Sleeve	140	159768	Bracket Asm. Wheel Gauge
25	123713X	Spring, Torsion, Deflector	112	157100	Front LH
26 27	110452X	Nut, Push Shield, Deflector	143 144	157109 158634	Bracket Arm Idler 42" Keeper Belt 42" Clutch Cable
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	145	165888	Pulley Idler Flat
29	131491	Rod, Hinge	146	171977	Bolt Carraige Idler
30	173984	Screw Thdrol Rolling Wsh Hd	148	169022	Spring Return Idler
31	187690	Washer, Spacer	149	165898	Retainer Spring Yellow Zinc
32	153535	Pulley, Mandrel	150	19091210	Washer 9/32 x 3/4 x 10 Ga.
33	178342	Nut, Toplock, Flanged	159	STD533717	Bolt Rdhd Sqn 3/8-16 unc x 1-3/4
34	STD533717	Bolt	182	179126	Rod Roller
36	131494	Pulley, Idler, Flat	183	163552	Retainer Spring
37	19131316	Washer 13/32 x 13/16 x 16 Ga.	184	19131410	Washer 3/8
40	73900600	Nut, Lock 3/8-16 unc		130794	Mandrel Assembly (Includes
44	140088	Guard, Mandrel, L.H.			housing, shaft and shaft hardware
45	STD624003			404540	only-pulley not included)
46 54	137729	Screw, Thd. Roll 1/4-20 x 5/8		181542	Replacement Mower, Complete
54 55	178515 155046	Washer, Hardened Arm, Idler			(Std. Deck-Order separately
56	165723	Spacer, Retainer			mulch cover, gauge wheels and nose roller components key nos.
59	172442	Guard, Tuv Idler			101 - 106, 5, 116 - 119, 134, 136
61	174882	Spring Ext Elect Clutch			and 91, 94, 95, 132, 182, 183).
68	174883	V-Belt			
91	180532	Bracket Roller Nose LH	NOTE	E: All compone	ent dimensions given in U.S.inches

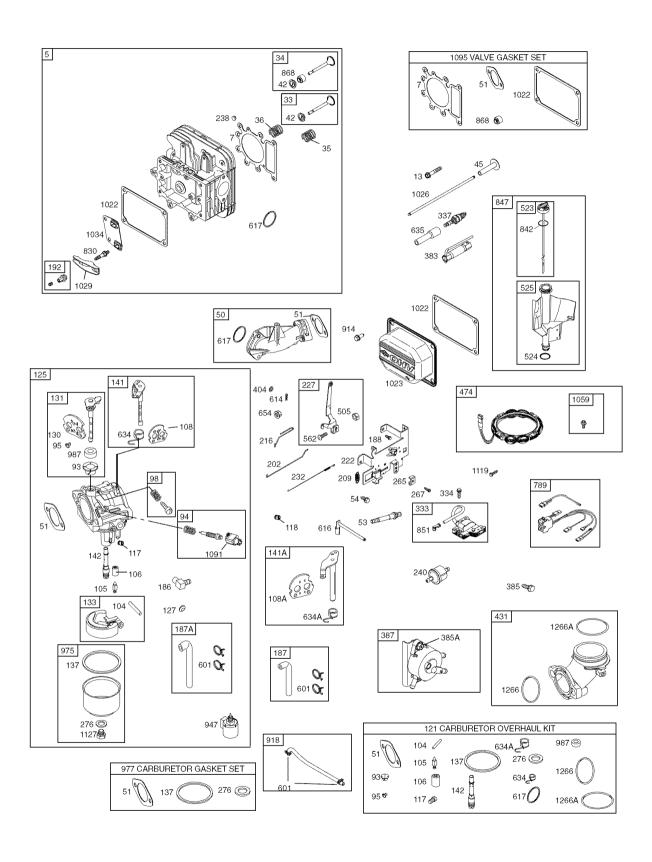


TRACTOR - - MODEL NUMBER 917.273646 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 314-0510

KE NC	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170351	Main Housing, Assembly	59	170408	Rotor, Brake
2 3	170352	Side Housing, Assembly	60	142883	Brake Puck
3	170353	Center Section, Assembly	61	142881	Puck Plate
4	170354	Swashplate, Trunion Machined	62	142887	Brake Actuating Pin
5	169898	Block - Assembly	63	170410	Hfhcs 1/4-20x2 W/Patch,
6	170355	Sealant 10.5 Oz			SpecialFlange
7	170356	Hex Flange Screw 1/4-20 X 1.25	64	142892	Bolt, 1/4-20 X 1 W/Patch
8	170357	Stud, 5/16-24 Hex Double End	65	170411	Spacer
9	170358	Shaft, Input	66	189386	Spring, Brake Arm Bias
10	170359	Ring - Retaining	67	170413	Sq. Hd. Bolt 5/16-24-Ribbed
11	170360	Spacer Bing Botaining	68	170414	Arm, Brake
12 13	169870 170361	Ring - Retaining Seal, Lip .67 X 1.58 X .276	69 70	170415 170416	Slotted Hex Nut 5/16-24 Cotter Pin 3/32 X 3/4
14	169869	Ball Brg 17mm Id X 40mm Od X	71	170417	Compression Spring Brake Anti-
, –	100000	12mm	7 1	170717	Drag
16	170362	Hex Flange Head Screw 5/16-	72	170418	Washer, Ht .5 I.D. X 1 O.D. X .032
		24X0.75	73	142884	Flat - Washer 11/32 I.D. X 7/8 O.D
17	170363	Lip Seal 18 X 32 X 7	74	170419	Oil Seal .625 X 1.0 X .25
18	170364	Arm, Control	75	170420	Check Plug Assembly,
19	150771	Bearing, 30x52x13 Thrust			.027,Washer
23	170365	Check Plug Assembly, Washer	76	170421	Stud, 5/16-24 Friction Pack
24	170366	Shaft, Motor	77	170422	Puck, .330 X 1.50 X .0975
27	170367	Gear - Pinion, 13t	78	142969	Spring, Helical Comp
28	170368	10t/48t Gear	79	142980	Spacer Standard Stand
29	170369	Gear, 10t Jackshaft	80	150778	Hex Lock Nut 5/16-24Unjf(Nylon
30 31	170370 170371	60t Bull Gear Sleeve Bearing .75 X 1.575 X	81	170423	Insert) Wedge, Friction Pack
31	170371	.625	82	170424	Clip, Washer .316x1.50x.1046
32	170389	SleeveBearing(Outboard)	-	.,	(Plated)
		.75x1.750x.625	83	161162	Pin, Standard Headless
33	142991	Washer, 3/4 ld X 1-1/2 Od X .13	84	170425	Fitting, 5/16 Sae 5/32 Tube
		Thk	85	170426	Hose, Expansion Tank
34	170390	Lip Seal Axle Seal	86	170427	Expansion Tank
35	170391	Shaft, Axle .75 X 11.39 (Key,	87	170424	Cap - Poppet Valve
20	170000	R.H.)	88	170429	Bolt, Self Tapping 10-32 X 1/2
36	170392	Shaft, Axle .75 X 16.99 (Key, L.H.)	90 93	170430	Puck, Inner Wedge
37 38	150792 150793	Miter Gear (Splined) Miter Gear 15t (0.5 ld)	107	170431 170432	Spring Clip - Housing Thrust Deflector
39	150809	Shaft	107	170432	Washer,Motor Shaft
40	170393	Ring, Spiral Retaining	100	170400	.71idx1.15odx.030thk
41	170394	Pin, Jackshaft	109	170434	Plug, Sae #6
42	170395	Magnet, Ring	111	170435	O-Ring .07 X .301 I.D.
43	170396	Spring, Bypass	112	170436	Shield, Vent
44	150797	Hydro Mtg Screw 3/8-24 X 2.5	113	170437	Bracket, Support Expansion Tank
		Long	116	170438	Silicon Sponge
45	170397	Filter	119	170439	Fan, 7 In.
46	170398	Base, Filter	120	170440	Pulley
47	170999	Actuator, Bypass	121	170441	Hex Lock Nut 1/2-20 (Nylon
48	170400	Rod, Bypass Actuator			Insert)
49	170401	Arm, Bypass	122	170442	Washer, Belleville
50	170202	Retaining Ring .250 External	123	170443	Belt Keeper
51 52	170403 170404	Seal, Lip .741 X .250 X .250 Tc	124	170444	Center Section-Filter-Bypass
52	170404	Flat Washer, 5/8 ld X 1.0 Od X .05 Thk	125	170445	Assembly Filter Assembly
53	170405	Retaining Ring	126	170446	Fan - Pulley Service Assembly
54	170405	Bearing Center Block	127	170447	Seal - O-Ring Kit
55	142977	Spring - Helical Compression	900	166768	Transaxle Complete
56	142978	Washer			
57	150798	20w-50 Oil			ent dimensions given in U.S. inches
58	170407	Brake Yoke	1 inch	n = 25.4 mm	



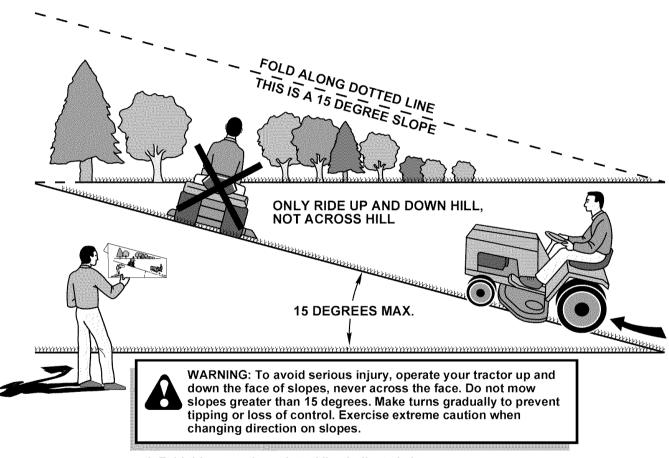
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	697174	Cylinder Assembly	108 108A	690464 692344	Valve-Choke (Manual Choke)
2 3	399265 391086 •	Kit-Bushing/Seal (MagnetoSide) Seal-Oil (Magneto Side)	100A 117	692344 694352 Ø	Valve-Choke (Choke A Matic) Jet-Main (Standard)
4	697188	Sump-Engine	118	697228	Jet-Main (High Altitude)
5	698147	Head-Cylinder	121	697241	Kit-Carburetor Overhaul
7	699168 •+	Gasket-Cylinder Head	125	698445	Carburetor
9	697109 •	Gasket-Breather	127	695005	Plug-Welch
11	697113	Tube-Breather	130	691750	Valve-Throttle
12	697110 •	Gasket-Crankcase	131	494379	Kit-Throttle Shaft
13	690360	Screw (Cylinder Head)	133	494381	Float-Carburetor
15	690946	Plug-Oil Drain	137	281165 ؇	Gasket-Float Bowl
16	697127	Crankshaft	141	495097	Kit-Choke Shaft (Manual
20	690947 •	Seal-Oil (PTO Side)			Choke)
22	692125	Screw (Crankcase CoverSump)	141A	495931	Kit-Choke Shaft (Choke A
23	693556	Flywheel			Matic)
24	222698	Key-Flywheel	142	697140 Ø	Nozzle-Carburetor
25	699052	Piston Assembly (Standard)	146	691639	Key-Timing
	699054	Piston Assembly (.020"	186	698174	Connector-Hose
00	000054	Oversize)	187	697098	Line-Fuel
26	699051	Ring Set (Standard)	187A	698417	Line-Fuel
27	697559 698469	Ring Set (.020" Oversize) Lock-Piston Pin	188 192	691693 691986	Screw (Control Bracket)
28	697099	Pin-Piston	202	691841	Adjuster-Rocker Arm Link-Mechanical Governor
29	697126	Rod-Connecting (Standard)	202	692208	Spring-Governor
20	697263	Rod-Connecting (.020"	216	691840	Link-Choke
	00,200	Undersize)	222	694042	Bracket-Control
32	692852	Screw (Connecting Rod)	227	691374	Lever-Governor Control
33	695760	Valve-Exhaust	232	691842	Spring-Governor
34	695761	Valve-Intake	238	691843	Cap-Valve
35	691279	Spring-Valve (Intake)	240	691035	Filter-Fuel
36	691279	Spring-Valve (Exhaust)	265	691024	Clamp-Casing
37	697352	Guard-Flywheel	267	695134	Screw (Casing Clamp)
42	691752	Keeper-Valve	276	692255 ؇	Washer-Sealing
43	691968	Slinger-Governor/Oil	304	699829	Housing-Blower
45	690564	Tappet-Valve	305	697102	Screw (Blower Housing)
46	698492	Camshaft	305A	697103	Screw (Blower Housing)
48 50	697762	Short Block	306	697107	Shield-Cylinder
50 51	690193	Manifold-Intake	307 309	691003	Screw (Cylinder Shield)
53	690227	⊦ Gasket-Intake Stud (Carburetor)	310	693551 690323	Motor-Starter Bolt (Starter Motor)
54	691148	Screw (Intake Manifold)	311	497608	Brush Set
73	697133	Screen-Rotating	333	492341	Armature-Magneto
74	697897	Screw (Rotating Screen)	334	691061	Screw (Magneto Armature)
78	691003	Screw (Flywheel Guard)	337	691043	Plug-Spark
89	690283	Plug-Oil	356	697089	Wire-Stop
93	690602 Ø	Bushing-Throttle Shaft	358	697191	Gasket Set-Engine
94	498030	Kit-Idle Mixture	363	19203	Flywheel Puller
95	691636	Screw (Throttle Valve)			•
98	495800	Kit-Idle Speed	•	Included in E	Engine Gasket Set, Key. No. 358
104	690525 Ø	Pin-Float Hinge	Ø		Carburetor Overhaul Kit, Key. No.
105	231855 Ø	Valve-Float Needle		121	
106	691780 Ø	Seat-Inlet	‡		Carburetor Gasket Set, Key. No.
				977	(also Osales) Osl (4 N. 1005
			+	included in V	/alve Gasket Set, Key. No. 1095



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
383	89838	Wrench-Spark Plug	868	690968 •+	Seal-Valve
385	694476	Screw (Fuel Pump)	914	690960	Screw (Rocker Cover)
385A	690297	Screw (Fuel Pump)	918	697091	Line-Vacuum
387	697090	Pump-Fuel	943	690589 •	Seal-O Ring (Oil Pump Cover)
404	691691	Washer (Governor Crank)	947	694393	Solenoid-Fuel
431	697122	Elbow-Intake	965	499613	Cover-Oil Pump
445	697153	Filter-Air Cleaner Cartridge	967	697015	Filter-Pre Cleaner
462	691261	Washer (Starter Cable)	968	699848	Cover-Air Cleaner
474	696459	Alternator	975	495933	Bowl-Float
501	691188	Regulator	977	690192	Gasket Set-Carburetor
503	691532	Strap-Starter	987	691326 Ø	Seal-Throttle Shaft
505	691251	Nut (Governor Control Lever)	1005	699043	Fan-Flywheel
510	693699	Drive-Starter	1017	690770	Screen-Oil Pump
513	692024	Clutch-Drive	1019	697143	Kit-Label
523	697086	Dipstick	1022	272475 •+	Gasket-Rocker Cover
524	691032 •	Seal-Dipstick Tube	1023	692492	Cover-Rocker Arm
525	697085	Tube-Dipstick	1024	499054	Pump-Oil
526	697088	Screw (Regulator)	1026	692003	Rod-Push (Intake)
544	692034	Starter-Armature		692011	Rod-Push (Exhaust)
552	697144	Bushing-Governor Crank	1027	696854	Filter-Oil
562	691119	Bolt (Governor Control Lever)	1029	691751	Arm-Rocker
579	691029	Nut (Starter Cable)	1034	690822	Guide-Push Rod
584 604	697112	Cover-Breather Passage	1035	693784	Shaft-Pump
601	95162	Clamp-Hose	1036	695700	Label-Emission
614	691620	Pin-Cotter	1040	699852	Plate-Trim
616 617	692012	Crank-Governor	1044	698139	Screw (Flywheel)
617 634	692138 Ø • 690801 Ø	Seal-O Ring (Intake Manifold)	1051 1058	691265 275038	Ring-Retaining Owner's Manual
034	0900010	Spring/Seal Assembly (Manual	1059	698516	Kit-Screw/Washer
634A	690802 Ø	Choke) Spring/Seal Assembly (Choke A	1039	690372	
034A	090002 10	Matic)	1090	691293	Screw (Flywheel Fan) Retainer-Brush
635	691909	Boot-Spark Plug	1090	691333	Cap-Limiter
643	698401	Retainer-Air Filter	1095	690190	Gasket Set-Valve
654	690958	Nut (Carburetor)	1119	691183	Screw (Alternator)
684	697157	Screw (Breather Passage	1127	691657	Screw (Float Bowl)
00 1	00, 10,	Cover)	1263	697124	Reed-Breather
691	692407 •	Seal-Governor Shaft	1264	697104	Screw (Breather Reed)
697	690372	Screw (Drive Cap)	1266	691917 •Ø	Seal-O Ring (Intake Elbow)
718	690959	Pin-Locating	1266A		Seal-O Ring (Intake Elbow)
729	691224	Clip-Wire	1267	697424	Latch-Blower Housing
729A	694123	Clip-Wire	1270	697156	Plug-AVS Counterweight
741	697128	Gear-Timing	1329		6 Replacement Engine
750	691033	Screw (Oil Pump Cover)	1330	272147	Repair Manual
757	697607	Link-Counterweight			•
758	697134	Counterweight	•	Included in E	Engine Gasket Set, Key. No. 358
759	697392	Pin-Counterweight	Ø		Carburetor Overhaul Kit, Key. No.
783	693713	Gear-Pinion		121	•
789	698329	Harness-Wiring	‡	Included in C	Carburetor Gasket Set, Key. No.
797	693167	Nut (Brush Retainer)		977	
801	691283	Cap-Drive	+	Included in V	/alve Gasket Set, Key. No. 1095
802	691286	Cap-End			
803	693757	Housing-Starter	NOTE:	All compone	nt dimensions given in U.S. inches
830	691095	Stud (Rocker Arm)	1 inch	= 25.4 mm	
842	691031 •	Seal-O Ring (Dipstick Tube)			
847	697087	Dipstick/Tube Assembly			
851	692424	Terminal-Spark Plug			

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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