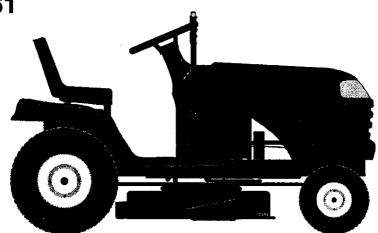
Owner's Manual



LAWN TRACTOR

21.0 HP, 42" Mower Electric Start Automatic Transmission

Model No. 917.271861





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.

CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment. For answers to your questions about this product, Call:

1-800-659-5917

Sears Craftsman Help Line 5 am - 5 pm, Mon - Sat

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

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WARRANTY

LIMITED WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

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

LIMITED WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. During the first 30 days of purchase, there will be no charges to replace the battery at your HOME. After the first 30 days, for your convenience, IN-HOME warranty service will still be available but a trip charge will apply. This charge will be waived if the Craftsman product is dropped of 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.

Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOMEALERT!!! YOUR SAFETY IS INVOLVED.

CAUTION: 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.

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

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

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

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

I. GENERAL OPERATION

- Read, understand, and follow all instructions 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 loss-ofcontrol 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:	3.5 Gallons Unleaded Regular
Oil Type (API-SF-SJ):	SAE 30 (Above 32°F) SAE 5W-30 (Below 32°F)
Oil Capacity:	3.75 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:	3 Amps Battery 5 Amps Headlights
Battery:	Amp/Hr: 28 Min. CCA: 230 Case Size: U1R
Blade Bolt Torque:	27–35 Ft. Lbs.

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

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

REPAIR AGREEMENT

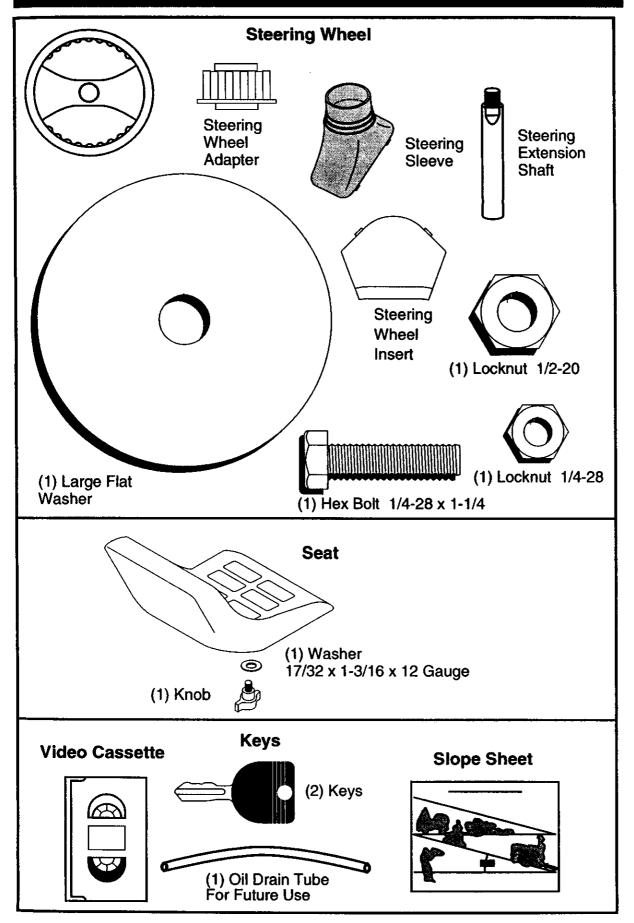
A Repair Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

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

WARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brushcovered 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).

UNASSEMBLED PARTS



ASSEMBLY/PRE-OPERATION

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 3/4" wrench (1) Pliers
- (2) 7/16" wrench (1) Utility knife

(1) Tire pressure gauge

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

- 1. Remove all accessible loose parts and parts boxes from carton.
- 2. Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- 3. Check for any additional loose parts or cartons and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

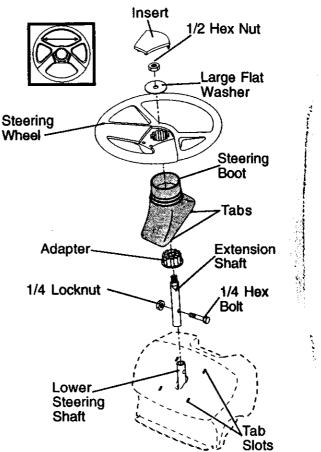
 Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 1/4 hex bolt and locknut. Tighten securely.

IMPORTANT: Tighten bolt and nut securely to 10-12 ft. lbs torque.

2. Place tabs of steering boot over tab slots in dash and push down to secure.

INSTALL STEERING WHEEL

- 3. Position front wheels of the tractor so they are pointing straight forward.
- 4. Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
- 5. Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.

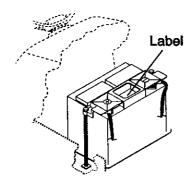


- 6. Assemble large flat washer, 1/2 hex nut and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- 8. Remove protective materials from tractor hood and grill.

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

CHECK BATTERY

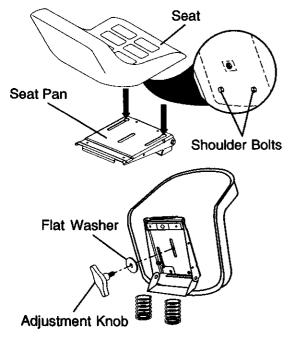
1. Lift seat pan to raised position. **NOTE:** If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

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



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

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

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

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

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

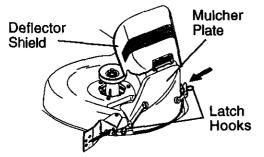
- 1. Be sure all the above assembly steps have been completed.
- 2. Check engine oil level and fill fuel tank with gasoline.
- 3. Place freewheel control in "transmission engaged" position. (See "TO TRANSPORT" in the Operation section of this manual).
- 4. Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- 5. Place motion control lever in neutral (N) position.
- 6. Press lift lever plunger and raise attachment lift lever to its highest position.
- 7. Start the engine. After engine has started, move throttle control to idle position.
- 8. Release parking brake.
- 9. Slowly move the motion control lever forward and slowly drive tractor off skid.
- 10. 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.

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.
- 3. Hook front latch into hole on front of mower deck.
- 4. Hook rear latch into hole on back of mower deck.



CAUTION: Do not remove deflector shield from mower. Raise and hold shield when attaching mulcher plate and allow it to rest on plate while in operation.

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:

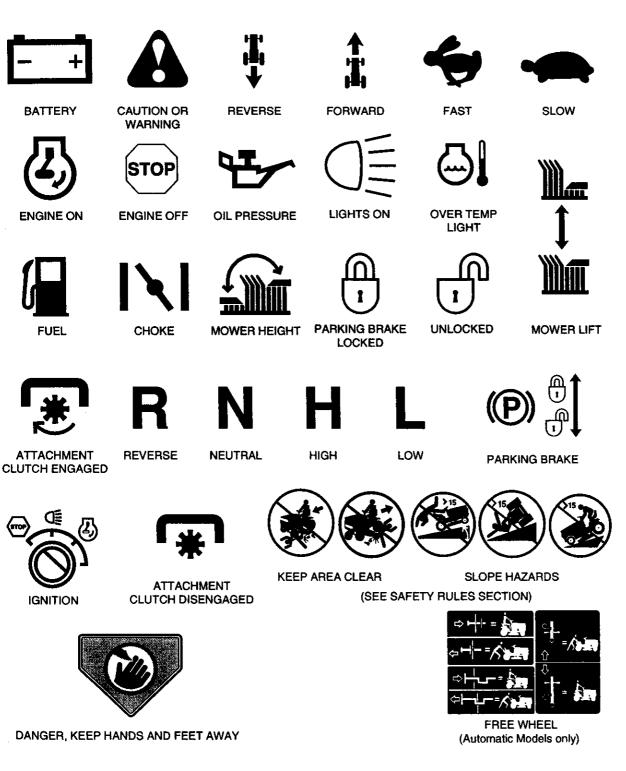
- All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated 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 TRANS-PORT" in the Operation section of this manual).

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

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

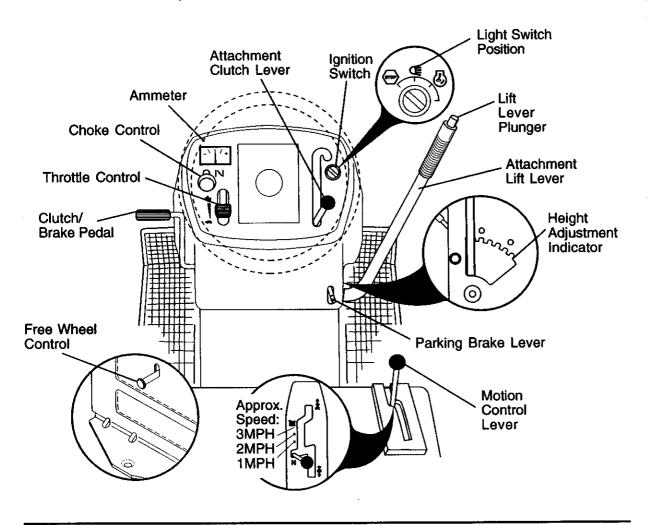
OPERATION

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



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

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



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

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

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

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

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.

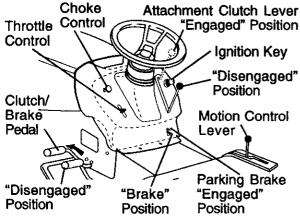


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

- 1. Depress clutch/brake pedal all the way down and hold.
- 2. 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, move attachment clutch lever 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.

ENGINE -

• Move throttle control to slow position. **NOTE:** Failure to move throttle control to slow position to allow engine to idle 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 BACK-WARD

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

- 1. 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.

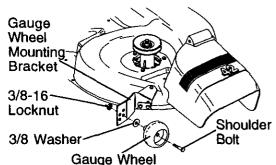
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first 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: Adjust gauge wheels with tractor on a flat level surface.

- 1. Adjust mower to desired cutting height (See "TO ADJUST MOWER CUTTING HEIGHT" in this section of manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/ 8 washer, and 3/8-16 locknut and tighten securely.
- Repeat for opposite side, installing gauge wheel in same adjustment hole.



TO OPERATE MOWER

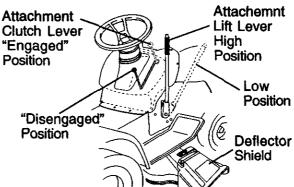
Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine.

- 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

ACAUTION: 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.

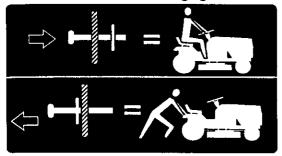
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

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.
- 2. 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. **ACAUTION:** 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 fast position
- 6. Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

7. Insert key into ignition and turn key clockwise to start position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, push choke control in, wait a few minutes and try again. If engine still does not start, pull the choke control out and retry. WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

AUTOMATIC TRANSMISSION WARM UP

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

- 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 be used during the engine warm-up period after the transmission has been warmed up and may require the choke control be pulled out slightly.

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

PURGE TRANSMISSION

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

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

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

- 1. Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in "transmission disengaged" position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/ brake pedal.
- 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.

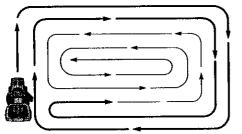
NOTE: During this step there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- 5. Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.
- 6. 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.

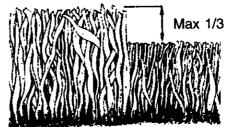


- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- 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 and the newly cut area will not be exposed to the direct sun.
- 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 or 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 EVENY & HOURS EVERY 100 HOUR EVERY EN HOURS EVERY BHOURS EVENYSEASO MAINTENANCE SCHEDULE BEFOREST FILL IN DATES AS YOU COMPLETE **REGULAR SERVICE** SERVICE DATES V **Check Brake Operation** V **Check Tire Pressure** V V Check Operator Presence and Т Interlock Systems Ī R Check for Loose Fasteners **1**5 V A Sharpen/Replace Mower Blades Va С Ż Lubrication Chart V Т 1. **Check Battery Level** 0 V R **Clean Battery and Terminals** V V Check Transaxle Cooling Check V-Belts Check Engine Oil Level V V V1,2 Change Engine Oil (with oil filter) V V Change Engine Oil (without oil filter) **/**12 E N Clean Air Filter G Clean Air Screen **V**2 Inspect Muffler/Spark Arrester V Ν Replace Oil Filter (If equipped) **/**1.2 Ε **Clean Engine Cooling Fins** V, Replace Spark Plug V V Replace Air Filter Paper Cartridge V_2 **Replace Fuel Filter** 1 - Change more often when operating under a heavy load or 3 - Replace blades more often when mowing in sandy soil. in high ambient temperatures. 4 - Not required if equipped with maintenance-free battery.

5

Do not overtighten.

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

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tractor.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

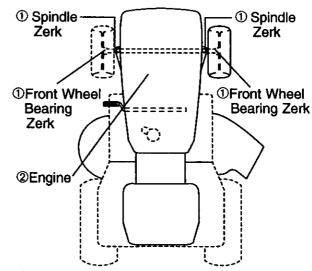
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

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

LUBRICATION CHART

Tighten front axle pivot bolt to 35 ft.-lbs. maximum.



① General Purpose Grease

⁽²⁾ REFERTO 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 six (6) feet stopping distance at high speed in highest gear, then brake must be 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.

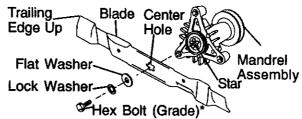
BLADE REMOVAL

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

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

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

IMPORTANT: Blade bolt is grade 8 heat treated.



*A Grade 8 heat treated bolt can be identified by six lines on the bolt head.

TO SHARPEN BLADE

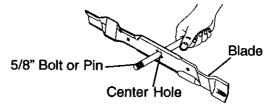
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

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

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

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



BATTERY

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

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

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

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

- 1. Open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- 4. Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- 6. Reinstall battery (See "REPLACING BATTERY" in the Service and Adjustments 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

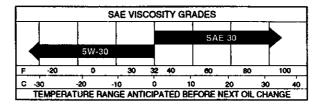
The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact a Sears or other qualified service center.

V-BELTS

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

ENGINE LUBRICATION

Only use high quality detergent oil rated with API service classification SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature.

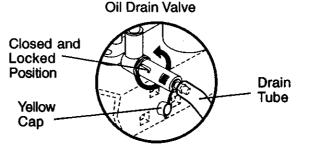


NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year. Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/ dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL

Determine temperature range expected before oil change. All oil must meet API service classification SF-SJ.

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- 1. Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- 2. 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.
- 7. Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT 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.

AIR FILTER

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

Service air cleaner more often under dusty conditions. Failure to clean or service air cleaner will cause engine to run rich and could cause spark plug fouling.

1. Remove knob(s) and cover.

TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- 3. Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- 5. Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

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

- Reinstall pre-cleaner over cartridge.
- 7. Reinstall cover and secure with knob(s).

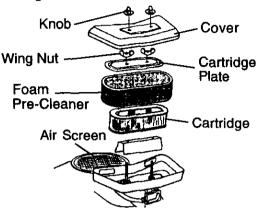
TO SERVICE CARTRIDGE

- 1. Remove wing nuts and cartridge plate.
- 2. Carefully remove cartridge to prevent debris from entering carburetor.
- 3. Clean cartridge by tapping gently on flat surface.

NOTE: If very dirty or damaged, replace cartridge.

4. Reinstall cartridge plate, wing nuts, precleaner, cover and secure with knob(s).

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

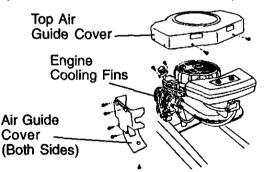


CLEAN AIR SCREEN

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

ENGINE COOLING FINS

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Air guide covers must be removed. Remove side panels and hood (See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments section of this manual).



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"

21 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.

Clamp-		
() Fuel Filter –	Ð	E

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 to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

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 "OFF" 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 in "DISEN-GAGED" position.
- 2. Move attachment lift lever forward to lower mower to its lowest position.
- 3. Roll belt off engine pulley.
- 4. Remove small retainer spring, and lift clutch spring off pulley bolt.
- 5. Remove large retainer spring, slide collar off and push housing guide out of bracket.
- Disconnect anti-sway bar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- 8. Disconnect front links from deck by removing retainer springs.
- 9. Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links and hook the clutch spring Into square hole in frame.

TO INSTALL MOWER

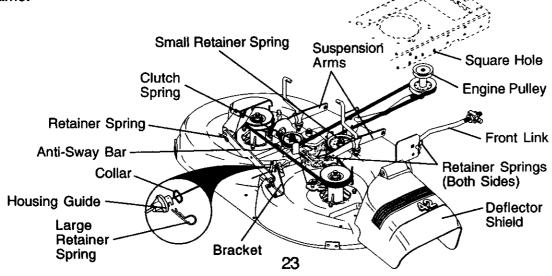
- 1. Raise attachment lift lever to its highest position.
- 2. Slide mower under tractor with deflector shield to right side of tractor.
- 3. Lower lift lever to its lowest position.
- 4. Connect front links to mower deck and secure with retainer springs.
- 5. Connect suspension arms to rear deck brackets and secure with retainer springs.
- Connect anti-sway bar to chassis bracket and secure with retainer spring.
- 7. Push clutch cable housing guide into bracket, slide collar onto guide and secure with large retainer spring.
- 8. Install belt onto engine pulley.

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

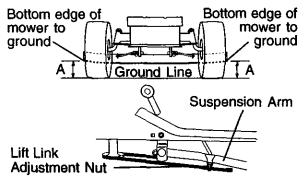
• Raise mower to its highest position.



- 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.



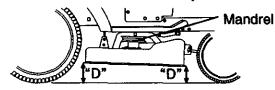
FRONT-TO-BACK ADJUSTMENT IMPORTANT: Deck must be level side-to side. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

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.

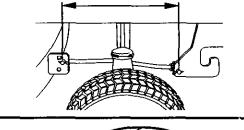
Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

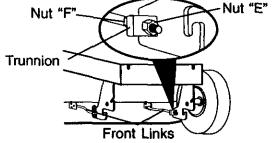
- Before making any necessary adjustments, check that both front links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower 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.



Both Front Links Should be Equal in Length





TO REPLACE MOWER BLADE DRIVE BELT

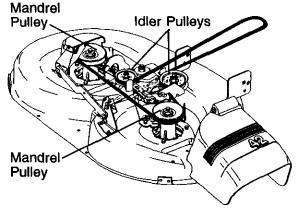
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

- 1. 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).

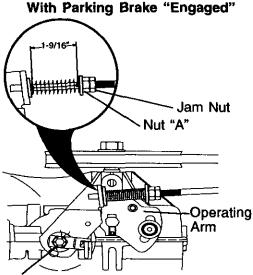


TO ADJUST BRAKE

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

If tractor requires more than six (6) feet stopping distance at high speed in highest gear on a level dry concrete or paved surface, then brake must be adjusted.

- 1. Depress clutch/brake pedal and engage parking brake.
- 2. Measure distance between brake operating arm and nut "A" on brake rod.
- 3. If distance is other than 1-9/16", loosen jam nut and tum nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact a Sears or other qualified service center.



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 -

1. Remove mower (See "TO REMOVE MOWER" in this section of manual). **NOTE:** Observe entire motion drive belt

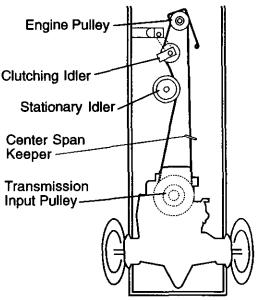
and position of all belt guides and keepers. 2 Remove belt from stationary idler and

2. Remove belt from stationary idler and clutching idler.

- 3. Remove belt downward from around engine pulley.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- 5. Remove belt from center span keeper and pull belt away from tractor.

BELT INSTALLATION -

- 1. Carefully work new belt down around transmission cooling fan and onto the input pulley.
- 2. Slide belt into the center span keeper.
- Pull belt toward front of tractor and roll around the top groove of engine pulley.
- 4. Install belt through stationary idler and clutching idler.
- 5. Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- Install mower (See "TO INSTALL MOWER" in this section of manual).



TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT

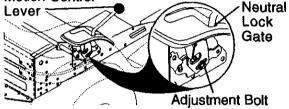
The motion control lever has been preset at the factory and adjustment should not be necessary.

- 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.
- 25⁶. 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.

Motion Control



TRANSMISSION REMOVAL/REPLACE-MENT

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 ALIGN-MENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble with crossbars horizontal. Tighten securely. FRONT WHEEL TOE-IN/CAMBER

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

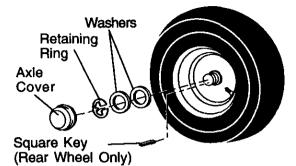
TO REMOVE WHEEL FOR REPAIRS

- 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.
- 5. 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

EXARNING: 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:

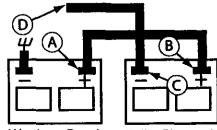
IMPORTANT: Your tractor is equipped with a 12 volt system. The other vehicle must also be a 12 volt system. Do not use your tractor battery to start other vehicles.

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

TO REMOVE CABLES, REVERSE ORDER -

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



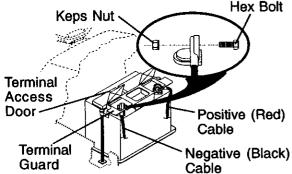
Weak or Dead Battery Fully Charged Battery

REPLACING BATTERY

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

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

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



TO REPLACE HEADLIGHT BULB

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

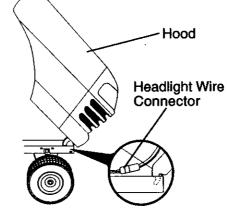
Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

 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:

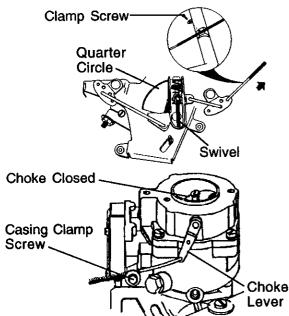
- 1. With engine not running, move throttle control lever to fast position.
- Check that swivel is against side of quarter circle. If it is not, loosen cable clamp screw and pull cable back until swivel is against quarter circle. Tighten cable clamp screw securely.

TO ADJUST CHOKE CONTROL

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

1. With engine not running, move choke control (located on dash panel) to full choke position.

- 2. Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (see "AIR FILTER" in the Maintenance section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- 4 Reassemble air cleaner.



TO ADJUST CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows: In general, turning the mixture screw **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the mixture screw **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/ air mixture.

IMPORTANT: Damage to the needles and the seats in carburetor may result if screw is turned in too tight.

PRELIMINARY SETTING -

- 1. Be sure you have a clean air filter, and the throttle control cable and choke are adjusted properly (see above).
- With engine off turn idle mixture screw in (clockwise) closing it finger tight and then turn out (counterclockwise) 1-1/4 to 1-1/2 turns.

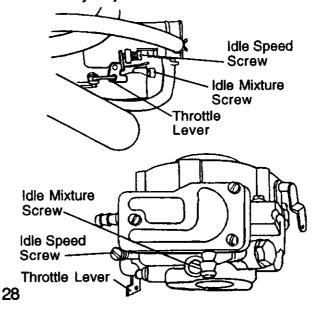
FINAL SETTING -

- 1. 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. With throttle control lever in slow position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture screw in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- 4. Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM. Release throttle lever.

ACCELERATION TEST -

 Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle mixture screw 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 or 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.

CAUTION: 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.

- 1. 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 TERMI-NALS" 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.

- 1. Drain the fuel tank.
- 2. Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain 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. Drain fuel tank and carbure- tor, refill tank with fresh gasoline and replace fuel filter. Check off wiring
	 Loose or damaged wiring. Carburetor out of adjustment. 10. Engine valves out of adjustment. 	 Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section. Contact a Sears or other qualified service center.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section. Contact a Sears or other qualified service center.
Engine will not turn over	 Brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	 Depress brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact 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 	 Set in "Higher Cut" position/ reduce speed. Adjust throttle control.

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

PROBLEM	CAUSE	CORRECTION
Loss of power (continued)	 Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. 	 Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug.
	 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 	 Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.
	 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment. 	 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	1. Obstruction in clutch mechanism.	1. Remove obstruction.

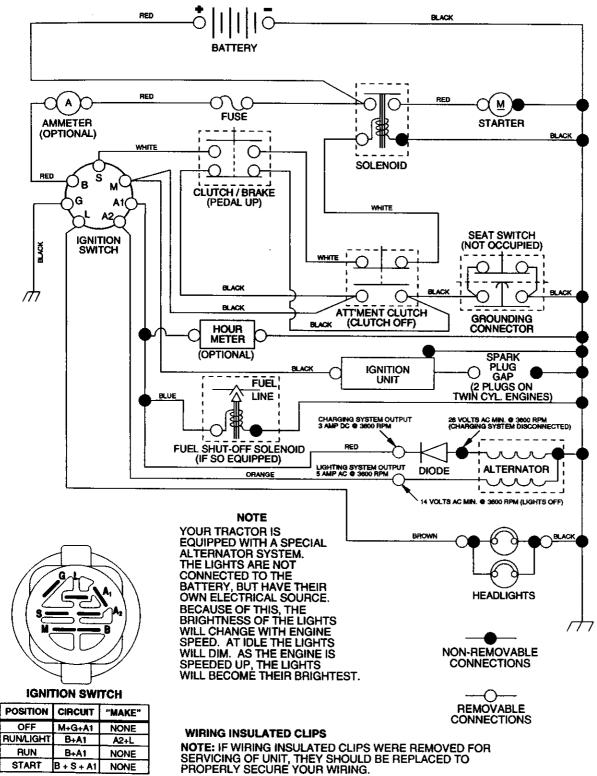
TROUBLESHOOTING CHART:

PROBLEM	CAUSE	CORRECTION
Mower blades will not rotate (con't)	 Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Replace mower drive belt. Replace idler pulley. Contact aSears or other qualified service center.
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	 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 at "SLOW" position for 30 seconds before stopping engine. 	 Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

See appropriate section in manual unless directed to Sears service center

TRACTOR - - MODEL NUMBER 917.271861

SCHEMATIC

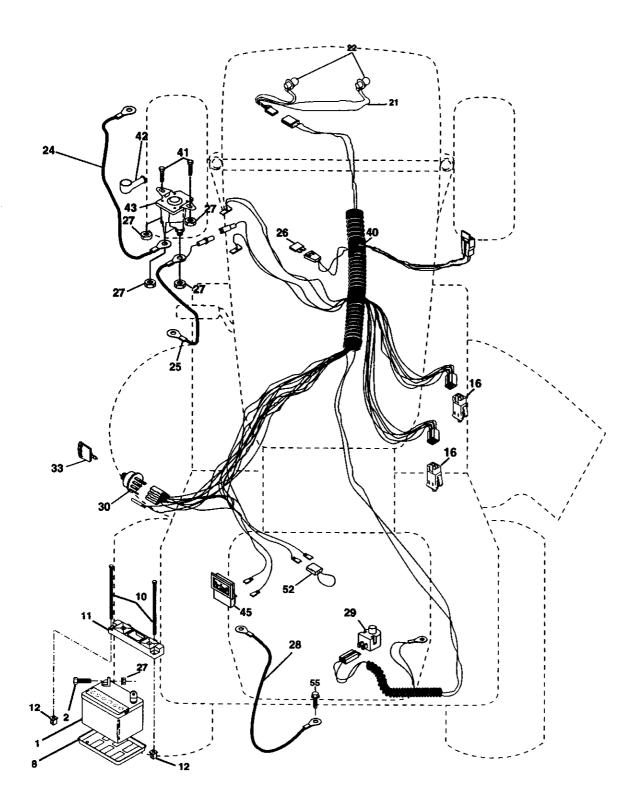




REPAIR PARTS

.TRACTOR -- MODEL NUMBER 917.271861

ELECTRICAL

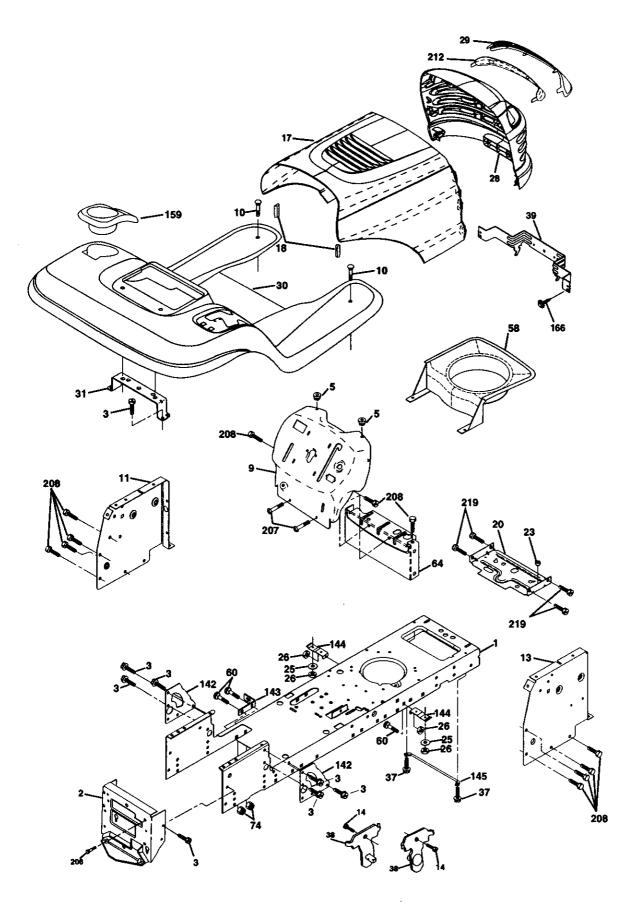


KEY	PART	
NO.	NO.	DESCRIPTION
1	163465	Battery
2	74760412	Bolt, Hex 1/4-20 x 3/4
8	7603J	Tray, Battery
10	145211	Bolt, Btr Front 1/4-20 x 7-1/2
11	150109	Holddown Battery Front Mount
12	145769	Nut, Push Nylon Battery Front 1/4
16	176138	Switch Interlock
21	175688	Harness, Light Socket (w/4152J)
22	4152J	Light Bulb
24	4799J	Cable, Battery
25	146148	Cable, Battery
26	175158	Fuse
27	73510400	Nut Keps Hex 1/4-20 Unc
28	145491	Cable, Ground
29	121305X	Switch, Seat
30	175566	Switch, Ignition
33	140403	Key, Molded
40	179720	Hamess, Ignition
41	71110408	Bolt Blk Fin Hex 1/4-20 UNC x 1/2
42	131563	Cover, Terminal
43	178861	Solenoid
45	121433X	Ammeter Rectangular 6 Amp
52	141940	Protection Wire Loop (Hour Meter)
55	17490508	Screw Thdrol 5/16-18 x 1/2

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

TRACTOR -- MODEL NUMBER 917.271861 CHASSIS AND ENCLOSURES

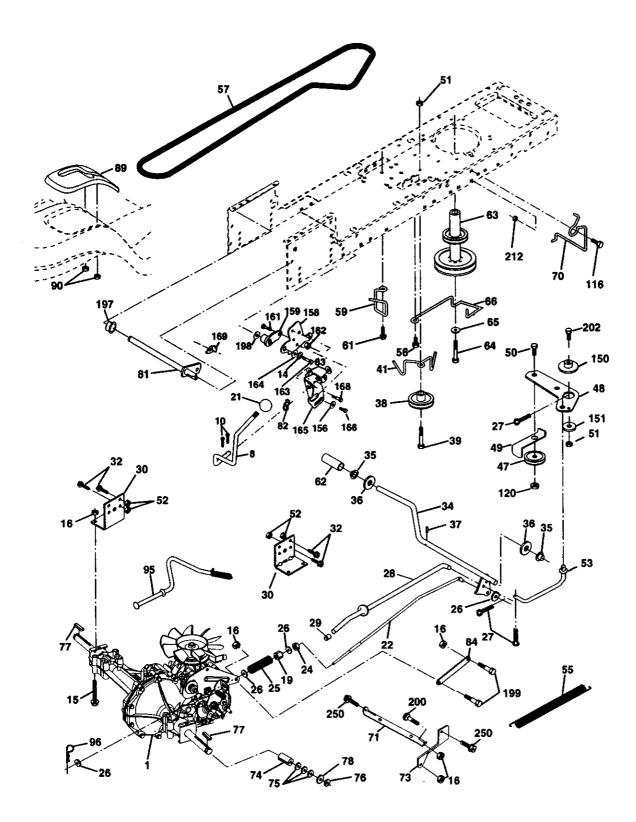


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	PART	DEGODIDEION
NO.		DESCRIPTION
1	174619	Chassis
2	176554	Drawbar
3	17060612	Screw 3/8-16 x 3/4
5	155272	Bumper Hood/Dash
9	168337X013	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 1
11	174996	Panel, Dash, LH
13	172105X010	
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	174330X558	Hood Assembly
18	126938X	Bumber Hood
20	180679	Plate Mtg Battery Fuel Tank
23	124028X	Bushing, Snap, Nylon, Fuel Line
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Locknut, Hex, with Insert 3/8-16 UNC
28	175049	Grille/Lens Asm.
29	174332X599	
30	175692X558	
31	139976	Bracket, Fender/Support
37	17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38	175710	Bracket Asm Pivot Mower Rear
39	174714	Bracket Pivot Laser Lt
58	174930	Air Duct
60	72140606	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64	154798	Dash Lower STLT
74	STD541437	NutCrownlock 3/8-16 UNC
142	175702	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	175582	Bracket Footrest STLT
145 159	156524	Rod Pivot Chassis/Hood
166	155123X428 164863	
206	170165	Screw HwHd Hi-Lo #13-16 x 3/4 Bolt Shoulder 5/16-18TT
200	17670508	
207	17670608	Screw Thdrol 5/16-18 x 1/2 Screw Thdrol 3/8-16 x 1/2
200	175143	Insert, Lens
212	17000512	Screw 5/16-18 x 3/4
~13	5479J	
	J-1 JJ	Plug Button

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

GROUND DRIVE

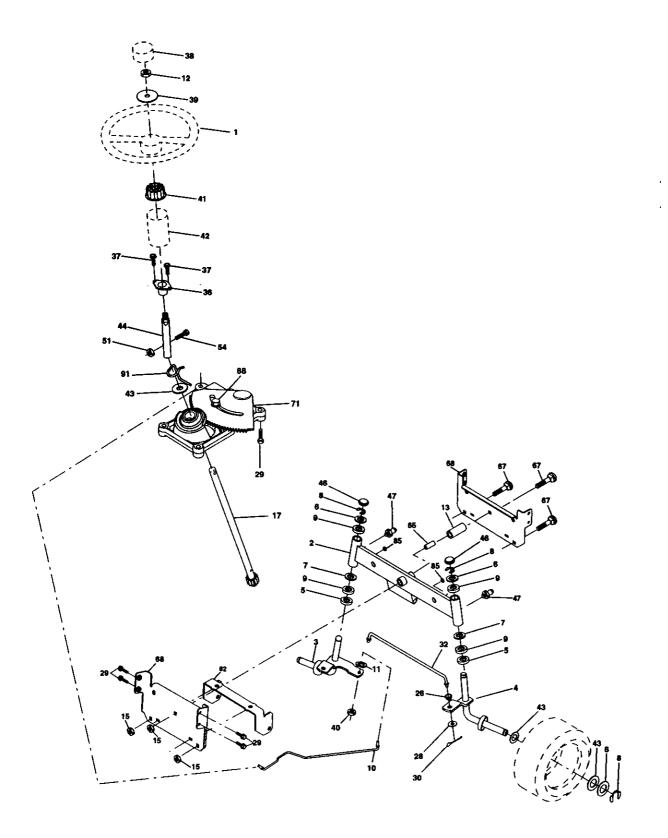


TRACTOR -- MODEL NUMBER 917.271861

GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
		Transaxle (See Breakdown)			
1		Hydro Gr 314-0510	70 71	134683 169183	Guide Belt RH Engine
~	405000	Rod Shift Fender Adjust	73	169183	Strap Torque Lh
8	165866 CTD561010	Pin Cotter 1/8 x 1 CAD	73		Strap Torque Rh
10	STD561210 10040400	Washer Lock Hvy Helical	74	137057 121749X	Spacer, Split Washer 25/32 x 1-1/4 x 16 Ga.
14 15	74490544	Bolt Hex FLGHD 5/16-18 GR.5	76	STD581075	E-Ring
16	STD541431	Nut Lock Hex W/Ins. 5/16-18 Unc	77	123583X	Key, Square
19	STD541437	Nut Lock Hex W/Wsh 3/8-16 Unc	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
21	130564	Knob, Deluxe 1/2-13	81	165596	Shaft Asm Cross
22	169498	Rod, Brake Hydro	82	165711	
24	73350600	Nut, Hex Jam 3/8-16 Unc	83	19171216	Spring Torsion Washer 17/32 x 3/4 x 16 Ga.
24 25	106888X	Spring, Brake Rod	84	169594	Link Transaxle
25 26	STD551037	Washer	89	164890X428	
20 27					Console, Shift
27	STD561210 175765	Pin Cotter 1/8 x 3/4 CAD.	90 95	124346X 170201	Nut Self-Thd Wsh-hd 1/4 Zinc
20 29	71673	Rod, Parking Brake	90 96	4497H	Control Bypass
29 30	169592	Cap, Parking Brake Bracket, Transaxle	90 116	72140608	Retainer Spring 1" Zinc/Cad Bolt RDHD SQNK 3/8-16 x 1
32	74760512	Bolt Hex Hd 5/16-18 Unc x 3/4	120	73900600	
34	175578	Shaft, Foot Pedal	150	175456	Nut Lock Fig 3/8-16 Unc
34 35	120183X		150	19133210	Spacer Retainer Washer 13/32 x 2 x 10 Ga.
36	19211616	Bearing, Nylon Washer	156	166002	Washer Srrted 5/16ID x 1.125
30		Pin, Roll	156	165589	
38	1572H				Bracket Shift Mount
39	179114	Pulley, Idler, Composite	159	165494	Hub Tappered Flange Shift Lt
39 41	74760648 175556	Bolt Fin Hex 3/8-16 x 3	161	72140406	Bolt Rohd Sqnk 1/4-20 x 3/4 Gr. 5
41	127783	Keeper, Belt Idler	162 163	73680400 74780416	Nut Crownlock 1/4-20 Unc
47 48	154407	Pulley, Idler, V-Groove		19091010	Bolt Hex Fin 1/4-20 Unc x 1 Gr. 5
49	123205X	Bellcrank Clutch Grnd Drv STL	164 165	165623	Washer 5/8 x .281 x 10 Ga
49 50	STD523715	Retainer, Belt			Bracket Pivot Lever
50 51	STD523715	Bolt Hex Hd 3/8-16unc x 1-1/2	166 168	166880	Screw 5/16-18 x 5/8
52	• · - • · · · - ·	Nut Crownlock 3/8-16 UNC		165492	Bolt Shoulder 5/16-18 x .561
52 53	STD541431	Nut, Crownlock 5/16-18 Unc	169	165580	Plate Fastening Lt
	105710X	Link, Clutch	197	169613	Nyliner Snap-In
55	105709X	Spring, Return, Clutch	198	169593	Washer Nyliner
56	17060620	Screw 3/8-16 x .75	199	169612	Bolt Shoulder 5/16-18UNC
57	140294	V-Belt, Ground Drive	200	72140508	Bolt RDHD SQNK 5/16-18UNC x 1
59	169691	Keeper, Center Span	202	72110614	Bolt RDHD SH 3/8-16 x 1-3/4 Gr.5
61	17120614	Screw 3/8-16 x 3/4	212	145212	Nut Hex Fig Lock
62	8883R	Cover, Pedal	250	17060612	Screw 3/8-16 x 3/4
63	175410	Pulley, Engine			
64 05	71170764	Bolt Hex 7/16-20 x 4 Gr. 5			
65 66	STD551143	Washer			ent dimensions given in U.S. inches
66	154778	Keeper Belt Engine Hydro	1 inc	h = 25.4 mm	

TRACTOR -- MODEL NUMBER 917.271861 STEERING ASSEMBLY

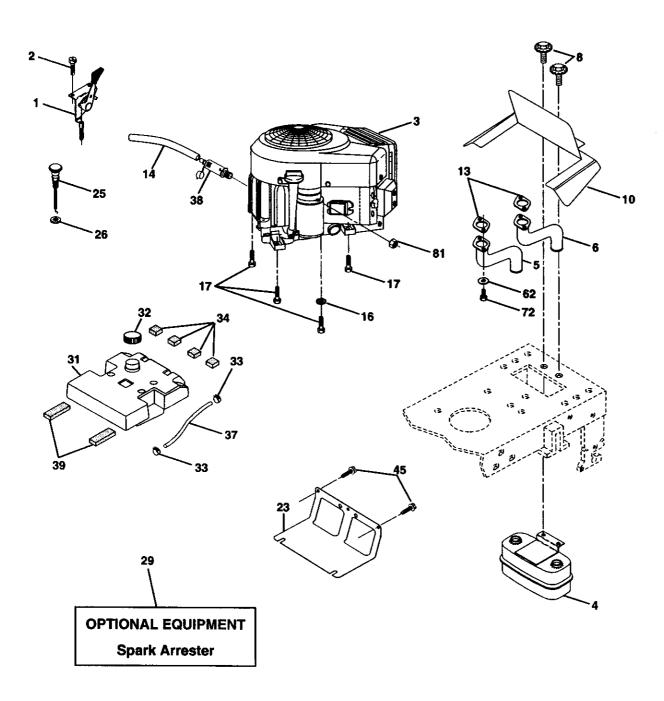


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KEY NO.	PART NO.	DESCRIPTION
1	139768	Steering Wheel
2	175131	Front Axle Assembly
3	169840	
		Spindle Assembly, L.H.
4	169839	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8	12000029	Ring, Klip
9	3366R	Bearing, Steering Column
10	175121	Link, Drag
11	STD551137	Washer, Lock
12	73940800	Nut Hex Jam Toplock 1/2-20 Unf
13	136518	Spacer, Bearing, Front Axle
15	145212	Nut, Hexflange Lock
17	180641	Shaft Assembly, Steering
26	126847X	Bushing Link Drag
28	19131416	Washer 13/32 x 7/8 x 16 Gauge
29	17060612	Screw 3/8-16 x 3/4
30	STD561210	Pin
32	130465	Rod, Tie
36	155099	Bushing, Steering
37	152927	Screw TT #10-32 x 5 x 3/8 Flange
38	139769	Insert, Steering Wheel
3 9	19183812	Washer 9/16 ID x 2-3/8 OD 12 Ga.
40	STD541537	Lock Nut Center 3/8-24 UNF
41	100711L	Adaptor, Steering Wheel
42	145054X428	
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
44	180640	Extension Steering
46	121232X	Cap, Spindle
47	6855M	Fitting, Grease
51	73540400	Nut Crownlock 1/4-28
54	71130420	Bolt Hex 1/4-28 Unf x 1-1/4 Gr. 8
65	160367	Spacer Brace Axle
67	72140618	Bolt Rhnd Sq 3/8-16 x 2-1/4
68	169827	Brace Axle
71	175146	Steering Asm
82	169835	Bracket Susp Chassis Front
85	133835	Fastener Christmas Tree
88	175118	Bolt Shoulder 7/16-20
91	175553	Clip Steering

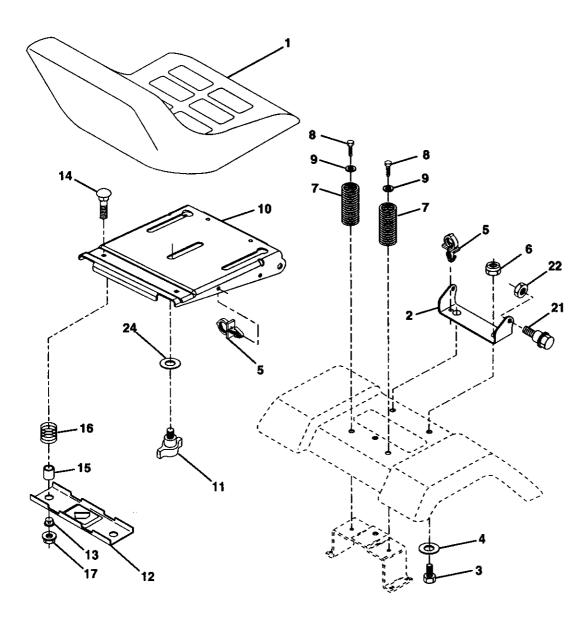
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

ENGINE

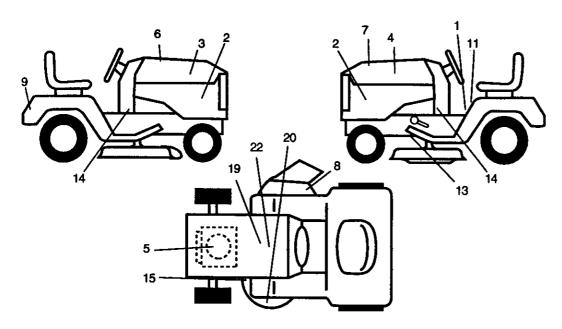


KEY NO.	PART NO.	DESCRIPTION
1	170547	Control Throt Paddle
2	17720408	Screw Hex Thd Cut 1/4-20x5/8 T
3		Engine (See Breakdown)
	4 40700	Briggs Model No. 407777-0167-E1
4	149723	Muffler Exhaust
5	159955	Exhaust Asm. Left
6	160589	Exhaust Asm. Right Bolt 5/16 - 18 UNC X 3/4 W/Sems
8 10	171877 162797	Heat Shield Lt
11	10040500	
12	71070512	Washer Lock Hvy. Helical 5/16 Screw Hex Hd Cap 5/16-18 x 3/4
13	165391	Gasket Muffler
14	148456	Tube, Drain Oil Easy
16	STD551237	
17	17060624	Screw 3/8-16x1-1/2 Tytt
23	169837	Shield Browning/Debris Guard
25	145996	Control Choke
26	73920600	Nut Keps 3/8-24 Unf
29	137180	Arrestor Spark
31	157103	Tank Fuel 3 50 Rear
32	161696	Cap Fuel Guage STLT
33	123487X	Clamp Hose Blk
34	106082X	Spacer Pad
37	8543R	Line Fuel
38	148315	Plug, Drain Oil Easy
39	109227X	Pad Idler 1.75 x .75 x .06
45	17000612	Screw Hex Wsh Thdrol 3/8-16 x 3/4
81	73510400	Nut, Keps 1/4-20 Starter Nut

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

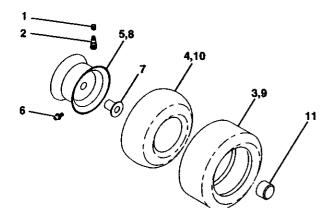


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	180597	Seat	13	121248X	Bushing Snap Blk Nyl 50 ld
2	180166	Bracket Pnt Pivot Seat (blk)	14	72050412	Bolt Rdhd Sht Nk 1/4-20x1-1/2
3	71110616	Bolt Fin Hex 3/8-16unc X 1	15	134300	Spacer Split 28 X 96 Zinc
4	19131610	Washer 13/32 X 3/4 X 10 Ga	16	121250X	Spring Cprsn 1 27 Blk Pnt
5	145006	Clip Push In Hinged	17	123976X	Nut Lock 1/4 Lge Fig Gr 5 Zinc
6	STD541437	Nut Hex Lock w/Ins 3/8-16 Unc	21	171852	Bolt Shoulder 5/16-18 Unc-2A
7	124181X	Spring Seat Cprsn 2 250 Blk Zi	22	STD541431	Nut Hex Lock w/Ins 5/16-18
8	17000616	Screw 3/8-16 x 1.5 SMGML	24	19171912	Washer 17/32 X 1-3/16 X 12 Ga.
9	19131614	Washer 13/32 X 1 X 14 Ga			
10	180186	Pan Pnt Seat (blk)	NOT		ent dimensions given in U.S. inches
11	166369	Knob Seat	NOT	1 inch = 25.	
12	121246X	Bracket Pnt Mounting Switch		1 1100 = 20.	** 381611



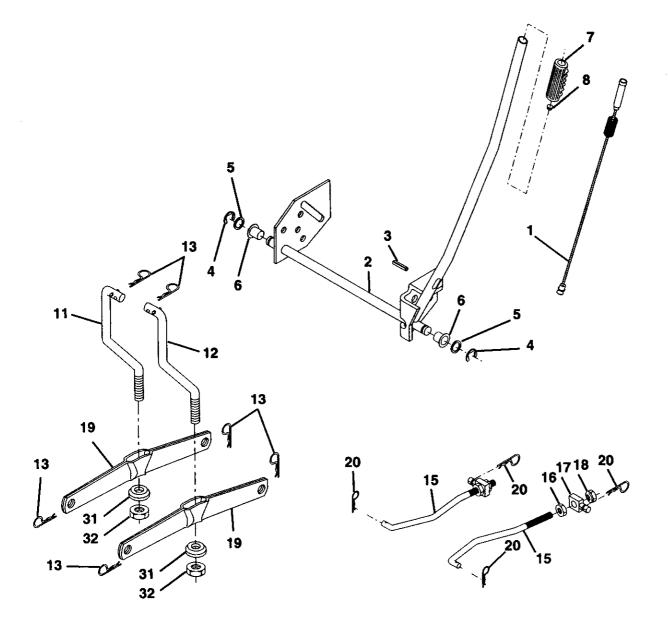
KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	156439	Decal Fender Danger Sears	14	182094	Decal Dash Panel
2	177253	Decal Hood Side	15	160396	Decal Mower Drive Schematic
3	177278	Decal Hood Rh	19	138047	Decal, Battery Diehard Sears
4	177279	Decal Hood Lh	20	172331	Decal Deck Mower EZ3
5	181568	Decal Engine H/P	22	149516	Decal Battery
6	133644	Decal Maint Customer Sears Dom		169210	Decal By Pass Lt Hydro
7	181418	Decal Replacement Srs		138311	Decal Lift Handle
8	179128	Decal Deck		165800X428	Pad Footrest Lh STLT
9	163204	Decal Fender Craftsman Gold			Pad Footrest Rh STLT
11	156811	Decal Fender STLTH Oper Inst E/S		183220	Manual, Owner's (English)
13	146046	Decal V-belt Dr Sch Tractor E		183221	Manual, Owner's (Spanish)

WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION			
1	59192	Valve Cap, Tire			
2	65139	Stem, Valve			
3	106222X	Tire, Front			
4	59904	Tube, Front Tire			
		(Not Provided, Service Item Only)			
5	106732X427	Rim, Front			
6	278H	Fitting, Grease (Front Wheel Only)			
7	9040H	Bearing, Flange (Front Wheel Only)			
8	106108X427	Rim, Rear			
9	122082X	Tire, Rear			
10	7152J	Tube, Rear Tire			
		(Not Provided, Service Item Only)			
11	104757X428	Cap, Axle			
	144334	Sealant, Tire (10 oz. Tube)			
NOTE: All component dimensions given in U.S. inches					

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

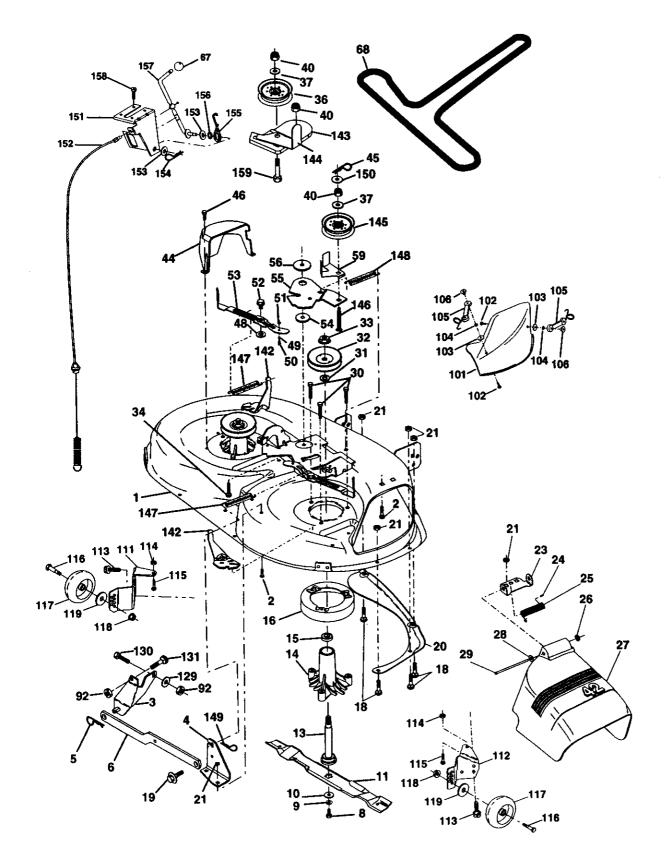


KEY NO.	PART NO.	DESCRIPTION
1 2	159460 159471	Lift Lever Inner Wire Asm. Shaft Asm. Lift
2 3	105767X	Pin Groove
4	12000002	ERing
5	19211621	Washer 21/32 x 1 x 21 Ga.
6	120183X	Bearing Nylong
7	125631X	Grip Handle Fluted
8	122365X	Button Plunger Read
11	139865	Link Asm Lift L.H.
12	139866	Link Asm Lift R.H.
13	STD624008	Retainer Spring
15	173288	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	175689	Trunnion
18	73800800	Nut Lock w/Wsh 1/2-13 Unc
19	139868	Arm Suspension Mower
20	163552	Retainer Spring
31	169865	Bearing, Pvt. Lift. Tapered
32	73540600	Nut Crownlock 3/8-24

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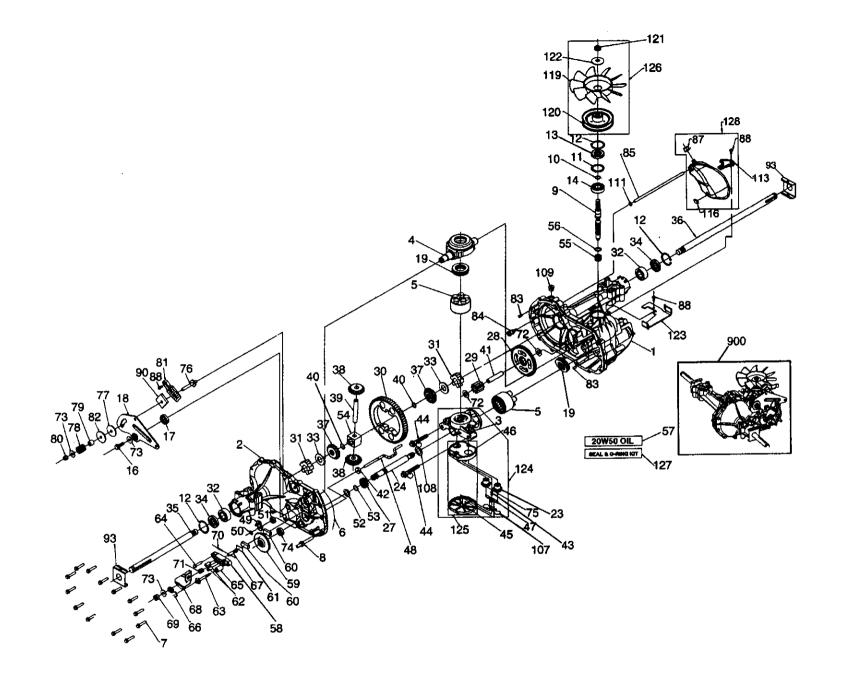
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm **MOWER DECK**



TRACTOR -- MODEL NUMBER 917.271861

MOWER DECK

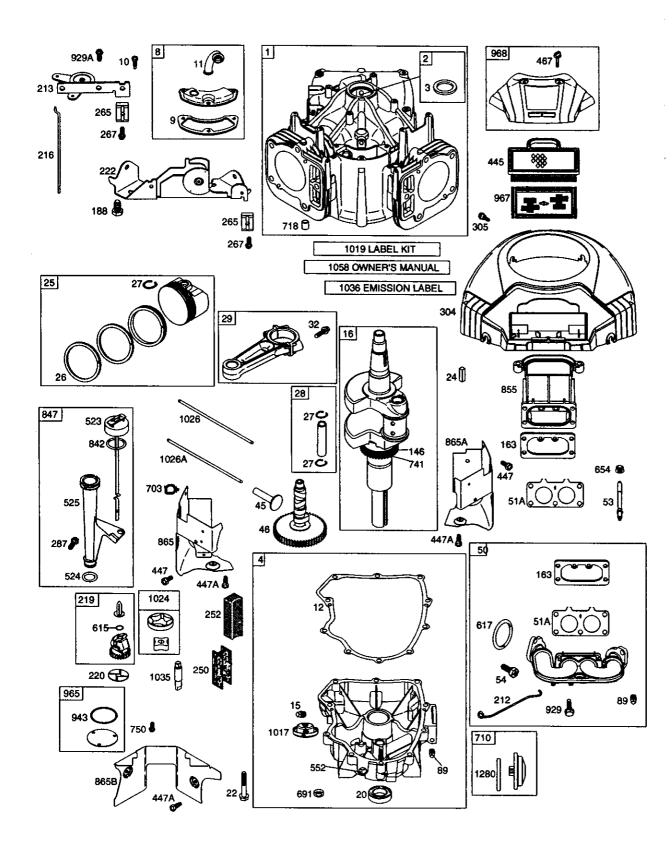
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165892	MowerHousing	59	141043	Guard, Tuv idler (94)
2	STD533107	Bolt	67	149846	Knob Custom Oval
3	138017	Bracket Assembly, Sway Bar,	68	144959	V-Belt
		Front	92	STD541437	Locknut, Hex W/Wsh 3/8-16 UNC
4	165460	Bracket Sway Bar 38/42"	101	136420	Cover Mulching 42" Black
5	STD624008	Retainer Spring	102	71081010	Screw Truss Hd Phil10-24 x5/8
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	NutWeld
11	134149	Blade, Mulching	111	179292	Bracket Gauge, Wheel LH
13	137645	Shaft Assembly, Mandrel, Vented	112	179293	Bracket, Gauge, Wheel RH
		(Incl. Key Number 6)	113	17060510	Screw 5/16-18
14	128774	Housing, Mandrel, Vented	114	73510500	Nut, Hex Keps 5/16-18 UNC
15	110485X	Bearing, Ball, Mandrel	115	72110505	Bolt, Carriage 5/16 UNC x 5/8
16	174493	Stripper, Mower Deck	116	4898H	Bolt, Shoulder
18	72140505	Bolt, Carriage 5/16-18 x 5/8	117	165746	Wheel, Gauge
19	132827	Bolt, Shoulder	118	73930600	Nut, Crownlock 3/8-1
20	159770	Baffle, Vortex	119	19121414	Washer 13/32 x 7/8 x 14 Ga.
21	STD541431	Nut, Crownlock 5/16-18 UNC	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
22	134753	Stiffener Bracket	130	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr 5
23	131267	Bracket, Deflector	131	STD533710	Bolt Rdhd Sqnk 3/8-16 UNC x 1
24	105304X	Cap, Sleeve	142	165890	Arm Spring Brake Mower
25	123713X	Spring, Torsion, Deflector	143	157109	Bracket Arm Idler 42*
26	110452X	Nut, Push	144	158634	Keeper Beit 42" Clutch Cable
27		Shield, Deflector	145	165888	Pulley Idler Flat
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	146	171977	Bolt Carraige Idler
29	131491	Rod, Hinge Screw Thdrol Rolling Wsh Hd	147 148	179748 169022	Spring Extension Spring Return Idler
30 31	173984		140	165898	
32	129963 153535	Washer, Spacer Pulley, Mandrel	149	19091216	Retainer Spring Yellow Zinc Washer 9/32 x 3/4 x 16 Ga.
33	178342	Nut, Toplock, Flanged	150	169670	Bracket Clutch
34	STD533717	Bolt	152	169676	Cable Clutch 42"
36	131494	Pulley, Idler, Flat	152	169674	Washer flat 3/8" Type B
37	19131316	Washer 13/32 x 13/16 x 16 Ga.	155	169675	Spring Retainer
40	STD541437	Nut, Crownlock 3/8-16 UNC	155	169671	Spring Retention Lever
44	140088	Guard, Mandrel, L.H.	156	169672	Spacer
45	STD624003	Retainer	157	169669	Rod Clutch
46	137729	Screw, Thd. Roll 1/4-20 x 5/8	158	17720408	Screw Hex Thd Cut 1/4-20 x 5/8
48	133944	Washer, Hardened	159	STD533717	Bolt Rdhd Sqn 3/8-16 Unc x 1-3/4
49	174284	Roller Assembly, Cam Follower		130794	Mandrel Assembly (Includes
50	131340	Bolt, Shoulder #10-24 Grade 5		100101	housing, shaft and shaft hardware
51	STD541410	Locknut			only-pulley not included)
52	139888	Bolt, Shoulder 5/16-18 UNC		169583	Replacement Mower, Complete
53	131845	Arm Assembly, Pad, Brake		100000	
54	133943	Washer, Hardened			
55	155046	Arm. Idler	NOT	E: Ali compon	ent dimensions given in U.S.inches
56	165723	Spacer, Retainer		1 inch = 25.	

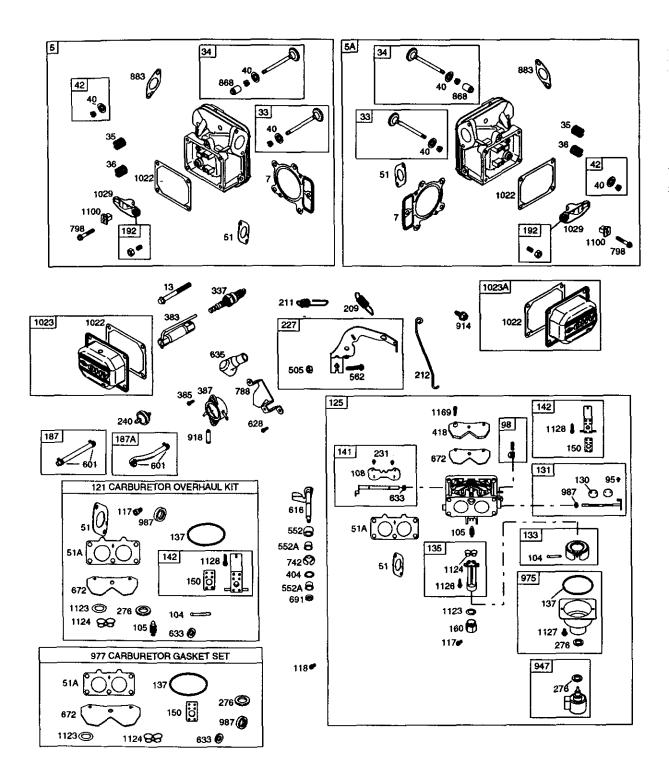


TRACTOR -- MODEL NUMBER 917.271861 HYDRO GEAR TRANSAXLE -- MODEL NUMBER 314-0510

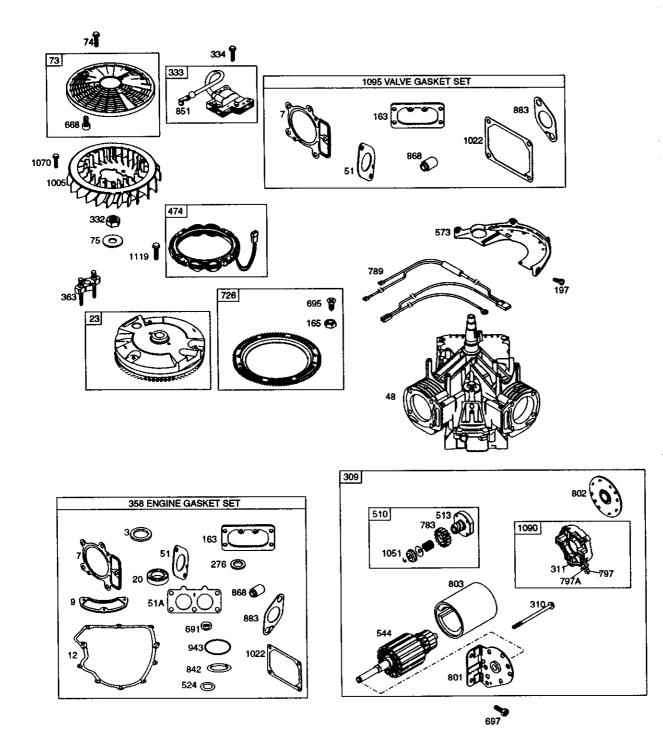
TRACTOR - - MODEL NUMBER 917.271861 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 314-0510

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170351	Main Housing, Assembly	59	170408	Rotor, Brake
2	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
6 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	170412	Spring, Brake Arm Bias
10	170359	Ring - Retaining	67	170413	Sq. Hd. Bolt 5/16-24-Ribbed
11	170360	Spacer	68	170414	Arm, Brake
12	169870	Ring - Retaining	69	170415	Slotted Hex Nut 5/16-24
13	170361	Seal, Lip .67 X 1.58 X .276	70	170416	Cotter Pin 3/32 X 3/4
14	169869	Ball Brg 17mm Id X 40mm Od X 12mm	71	170417	Compression Spring Brake Anti- 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, .027, Washer
19	150771	Bearing, 30x52x13 Thrust	76	170421	Stud, 5/16-24 Friction Pack
23	170365	Check Plug Assembly, Washer	77	170422	Puck, .330 X 1.50 X .0975
24	170366	Shaft, Motor	78	142969	Spring, Helical Comp
27	170367	Gear - Pinion, 13t	79	142980	Spacer
28	170368	10t/48t Gear	80	150778	Hex Lock Nut 5/16-24Unjf(Nylon
29	170369	Gear, 10t Jackshaft			Insert)
30	170370	60t Bull Gear	81	170423	Wedge, Friction Pack
31	170371	Sleeve Bearing .75 X 1.575 X .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, R.H.)	87	170424	Cap - Poppet Valve
36	170392	Shaft, Axle .75 X 16.99 (Key, L.H.)	88	170429	Bolt, Self Tapping 10-32 X 1/2
37	150792	Miter Gear (Splined)	90	170430	Puck, Inner Wedge
38	150793	Miter Gear 15t (0.5 Id)	93	170431	Spring Clip - Housing Thrust
39	150809	Shaft	107	170432	Deflector
40	170393	Ring, Spiral Retaining	108	170433	Washer, Motor Shaft
41	170394	Pin, Jackshaft			.71idx1.15odx.030thk
42	170395	Magnet, Ring	109	170434	Plug, Sae #6
43	170396	Spring, Bypass	111	170435	O-Ring .07 X .301 I.D.
44	150797	Hydro Mtg Screw 3/8-24 X 2.5	112	170436	Shield, Vent
		Long	113	170437	Bracket, Support Expansion Tank
45	170397	Filter	116	170438	Silicon Sponge
46	170398	Base, Filter	119	170439	Fan, 7 In.
47	170999	Actuator, Bypass	120	170440	Pulley
48	170400	Rod, Bypass Actuator	121	170441	Hex Lock Nut 1/2-20 (Nylon Insert)
49	170401	Arm, Bypass	122	170442	Washer, Belleville
50	170202	Retaining Ring .250 External	123	170443	Belt Keeper
51	170403	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			Assembly
50	170405	Thk	125	170445	Filter Assembly
53	170405	Retaining Ring	126	170446	Fan - Pulley Service Assembly
54 55	170406	Bearing, Center Block	127	170447	Seal - O-Ring Kit
55 56	142977	Spring - Helical Compression	900	166768	Transaxle Complete
56 57	142978	Washer			
57 58	150798 170407	20w-50 Oil Daalaa Malaa	NOT		ent dimensions given in U.S. inches
00	170407	Brake Yoke		1 inch = 25.	4 MM





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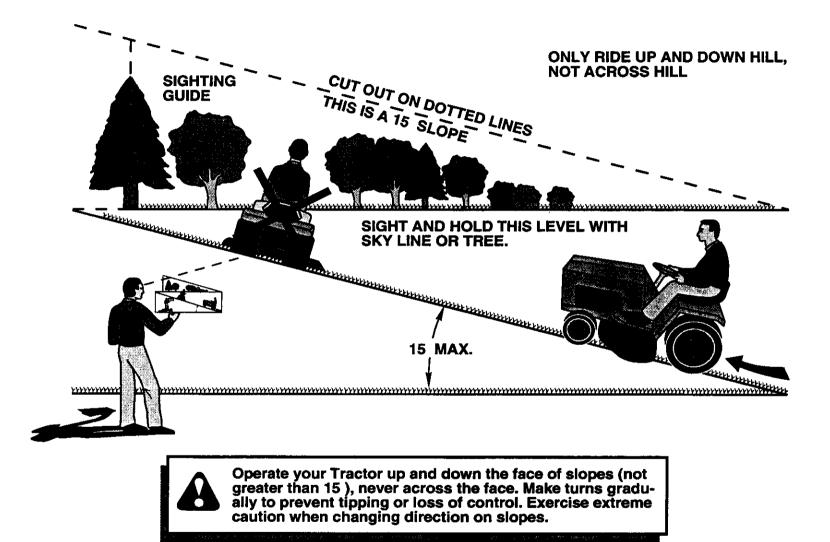
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	690231	Cylinder Assembly	133		Float-Carburetor
2	499585	Kit-Bushing/Seal (Magneto	135 137		Tube-Fuel Transfer
3	391086 •	Side) Seal-Oil (Magneto Side)	137		Gasket-Float Bowl Kit-Choke Shaft
4	697473	Sump-Engine	142		Nozzle-Carburetor
5	693998	Head-Cylinder (Cylinder 1)	146	690979	Key-Timing
5A	693999	Head-Cylinder (Cylinder 2)	150	690995 ؇	Gasket-Nozzle
7 8	499601	Gasket-Cylinder Head Breather Assembly	160	690996 691001 •+	Retainer-Solenoid Gasket-Air Cleaner
9		Gasket-Breather	165		Nut (Ring Gear)
10	690960	Screw (Breather Assembly)	187	691050	Line-Fuel (Cut to Required
11	690942	Tube-Breather Gasket-Crankcase	1074	691049	Length)
12 13	690945 • 690360	Gasket-Crankcase Screw (Cylinder Head) Blue-Oil Drain		690960	Line-Fuel (Molded) Screw (Control Bracket)
15	690946	Fiug-Oli Dialit	192	690083	Adjuster-Rocker Arm
16	691046	Crankshaft	197		Screw (Back Plate)
20 22	690947 • 694966	Seal-Oil (PTO Side)	209	691018	Spring-Governor
23	691054	Screw (Engine Sump) Flywheel	212	691019 695238	Spring-Governed Idle
24	222698	Key-Flywheel	213	691021	Bracket-Choke Control
25	499588	Piston Assembly (Standard) Piston Assembly (.010"	216	691022	Link-Choke
25	499589		219 220		Gear-Governor
25	499590	Oversize) Piston Assembly (.020"	222		Washer (Governor Lever) Bracket-Control
-•		Oversize)	227	691048	Lever-Governor Control
25	499591	Piston Assembly (.030"	231	690718	Screw (Choke Valve)
26	499604	Oversize) Bing Set Biston (Standard)	240		Filter-Fuel
26	499605	Ring Set-Piston (Standard) Ring Set-Piston (.010"	250 252		Retainer-Breather Collector-Oil
		Oversize)	265		Clamp-Casing
26	499606	Ring Set-Piston (.020" Oversize)	267	695134	Screw (Casing Clamp)
26	499607		276 287		Washer-Sealing
20	499007	Ring Set-Piston (.030" Oversize)	304	690960 695277	Screw (Dipstick Tube) Housing-Blower
27	690975	Lock-Piston Pin	305	691005	Screw (Blower Housing)
28	690229	Pin-Piston	309		Motor-Starter
29 32	499583 690976	Rod-Connecting	310	691263	Bolt-Starter Motor
33	499596	Screw (Connecting Rod) Valve-Exhaust	332	497608 691059	Brush Set Nut (Flywheel)
34	499597	Valve-Intake	333 334 337	691060	Armature-Magneto
35	690963	Spring-Valve (Intake)	334	691061	Screw (Magneto Armature)
36 40	690963 690964	Oping-valvo (Exhausi)	337 358	091043	Sparkplug Set-Engine Gasket
42	499586	Keeper-Valve	363	691062	Flywheel Puller
45	690977	Tappet-Valve	383	690966	Wrench-Spark Plug
46 48	690978	Camshaft Short Block	385	690960	Screw (Fuel Pump)
40	692714	Short Block (445777-0112-E2 Replace-	387 404	808656 690442	Pump-Fuel Washer (Governor Crank)
		ment Engine)	418	690999	Plate-Carburetor
50	695241	Manifold-Intake	445	499486	Filter-Air Cleaner Cartridge
51 51A	690949•Ø+	- Gasket-Intake	447	691003	Screw (Air Guide Cover)
53	690951	<pre>‡ Gasket-Intake Stud (Carburetor)</pre>	4477 467	\ 690960 691008	Screw (Air Guide Cover) Knob-Air Cleaner
54	695240	Screw (Intake Manifold)	474	696459	Alternator
73	691055	Screen-Rotating	505	691029	Nut (Governor Control Lever)
74 75	691057 691056	Screw (Rotating Screen)	510	497606	Drive-Starter
89	690283	Washer (Flywheel) Plug-Oil	RPM	Settings:	Low Speed: 1900-2100
95	690718	Screw (Throttle Valve)		•	High Speed: 3000-3200
98 104	499802	Kit-Idle Speed			jine Gasket Set, Key. No. 358
104	690984 Ø 690985 Ø	Pin-Float Hinge Valve-Float Needle		icluded in Car 21	buretor Overhaul Kit, Key. No.
108	690986	Valve-Choke			buretor Gasket Set, Key. No.
117	690232 Ø	Jet-Main (Standard)	9	77	-
118 121	690989 499811	Jet-Main (High Altitude)	+ In	icluded in Valv	ve Overhaul Kit, Key. No. 1095
125	499804	Kit-Carburetor Overhaul Carburetor	NOT	E: All compo	nent dimensions given in U.S.
130	690993	Valve-Throttle		s 1 inch = 25	
131	499805	Kit-Throttle Shaft	55		
			-		

KEY PART NO. NO.	DESCRIPTION	KEY PART No. No. Description
513 692024 523 691036	Clutch-Drive Dipstick	929A 691003 Screw (Choke Control Bracket)
523 691032 525 691037	 Seal-Dipstick Tube Tube-Dipstick 	943 690589 • Seal-O Ring (Oil Pump Cover)
544 691262	Armature-Starter	947 499809 Solenoid-Fuel
	(Service with 691262	965 499613 Cover-Oil Pump
550 600550	Starter Motor) Buching Governor Crank	967 272638 Filter-Pre Cleaner 968 499788 Cover-Air Cleaner
552 690552 552A 690553	Bushing-Governor Crank Bushing-Governor Crank	975 499810 Bowl-Float
562 690311	Bolt (Governor Control Lever)	
573 691009	Plate-Back	987 691000 ؇ Seal-Throttle Shaft
601 95162	Clamp-Hose	1005 691243 Fan-Flywheel
615 690317	Retainer-Governor Shaft	1017 690770 Screen-Oil Pump
616 691045	Crank-Governor	1019 690103 Kit-Label
617 691917 628 690960	Seal-O Ring (Intake Manifold) Screw (Fuel Pump Bracket)	1022 690971 •+ Gasket-Rocker Cover 1023 499599 Cover-Rocker (Cylinder 1)
	؇ Seal-Choke/Throttle Shaft	1023A499600 Cover-Rocker (Cylinder 2)
635 66538	Boot-Sparkplug	1024 499054 Pump-Oil
654 690958	Nut (Carburetor)	1026 690981 Rod-Push (Steel)
668 691215	Spacer	1026A690982 Rod-Push (Alumínum)
	؇ Gasket-Carburetor Plate	1029 690972 Arm-Rocker 1035 691042 Shaft-Pump
691 690657 695 693149	 Seal-Governor Shaft Screw (Ring Gear) 	1036 695704 Label-Emission
697 690372	Screw (Drive Cap)	1051 691265 Ring-Retaining
703 691010	Clip	1058 274794 Owner's Manual
710 697474	Cover-Oil Filter	1070 691058 Screw (Flywheel Fan)
718 690959	Pin-Locating	1090 691293 Retainer-Brush
726 499612 741 690980	Gear-Ring Gear-Timing	1095 694013 Kit-Valve Overhaul 1100 690973 Pivot-Rocker Arm
742 690328	Retainer-E Ring	1119 691183 Screw (Alternator)
750 691033	Screw (Oil Pump Cover)	1123 690987Ø ‡ Seal-O Ring (Solenoid
783 693058	Gear-Pinion	Retainer)
788 691039	Bracket-Fuel Pump	1124 690988Ø ‡ Seal-O Ring (Fuel Transfer
789 695050	Harness-Wiring	Tube) 1126 690991 Screw (Fuel Transfer Tube)
797 691029 797A 693167	Nut (Brush Retainer) Nut (Brush Retainer)	1126 690991 Screw (Fuel Transfer Tube) 1127 690992 Screw (Float Bowl)
798 690967	Screw (Rocker Arm)	1128 690990 Ø Screw (Carburetor Nozzle)
801 691283	Cap-Drive	1169 693140 Screw (Carburetor Cover
802 691286	Cap-End	Plate)
803 691262	Housing-Starter	1280 697475 Seal-O Ring (Oil Filter Cover)
	(Service with 691262 Starter Motor)	RPM Settings: Low Speed: 1900-2100
842 691031	 Seal-Dipstick/Tube 	High Speed: 3000-3200
847 499602	Dipstick/Tube Assembly	· ···g··· ····························
851 493880	Terminal-Sparkplug	 Included in Engine Gasket Set, Key. No. 358
855 691011	Adapter-Air	Ø Included in Carburetor Overhaul Kit, Key. No.
865 691012	Cover-Air Guide	121 ‡ Included in Carburetor Gasket Set, Key. No.
865A 691014 865B 691015	Cover-Air Guide Cover-Air Guide	‡ Included in Carburetor Gasket Set, Key. No. 977
868 690968	•+ Seal-Valve	+ Included in Valve Overhaul Kit, Key. No. 1095
883 690970	•+ Gasket-Exhaust	
914 691127	Screw (Rocker Cover)	NOTE: All component dimensions given in U.S.
918 694000 929 695239	Hose-Vacuum Screw (Choke Control	inches 1 inch = 25.4 mm
929 695239	Screw (Choke Control Bracket)	

SERVICE NOTES

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