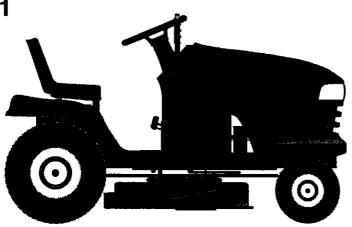
Owner's Manual



LAWN TRACTOR

22.0 HP, 42" Mower **Electric Start Automatic Transmission**

Model No. 917.272281





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!!! BECOME ALERT!!! 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:	4 Gallons Unleaded Regular
Oil Type (API-SF-SJ):	SAE 30 (Above 32°F) SAE 5W-30 (Below 32°F)
Oil Capacity:	4.0 Pints
Spark Plug: (GAP: .040")	Champion RC12YC
Ground Speed (MPH):	Forward: 5.5 Reverse: 2.4
Tire Pressure:	Front: 14 PSI Rear: 10- PSI
Charging System:	16 Amps @ 3600 RPM
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

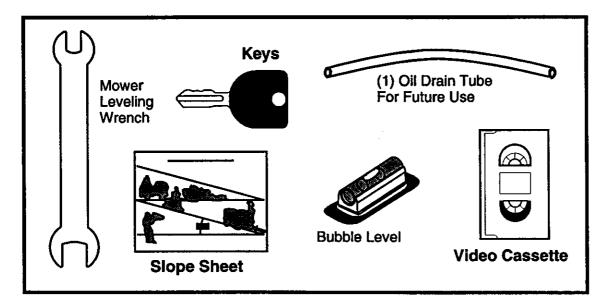
A Repair Agreement is available on this product. Contact your nearest Sears store for details.

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. Review the video cassette before you begin.

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

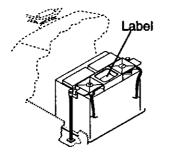
UNPACK CARTON

- 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.

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

CHECK BATTERY

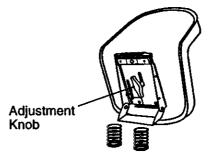
1. Lift hood to raised position. NOTE: If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



ADJUST SEAT

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

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



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

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

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

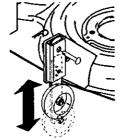
WARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

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

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

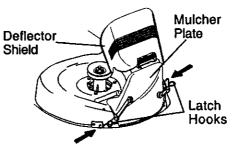
REPOSITION RIGHT REAR GAUGE WHEEL

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



INSTALL MULCHER PLATE (If previously removed)

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



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:

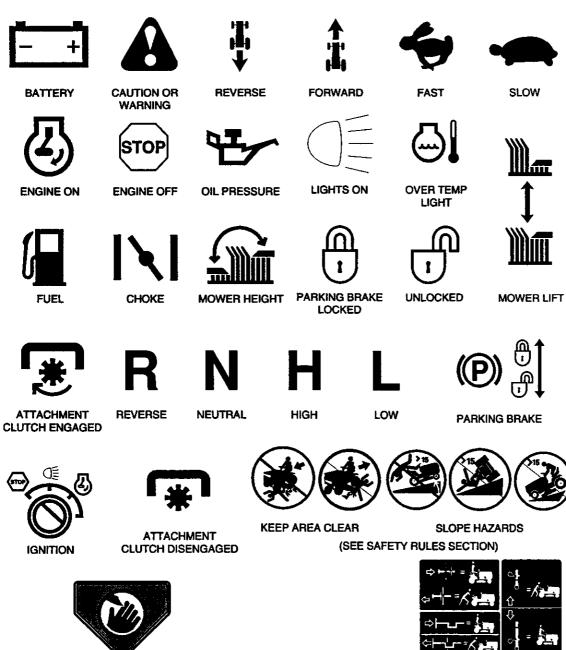
- All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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

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

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

OPERATION

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



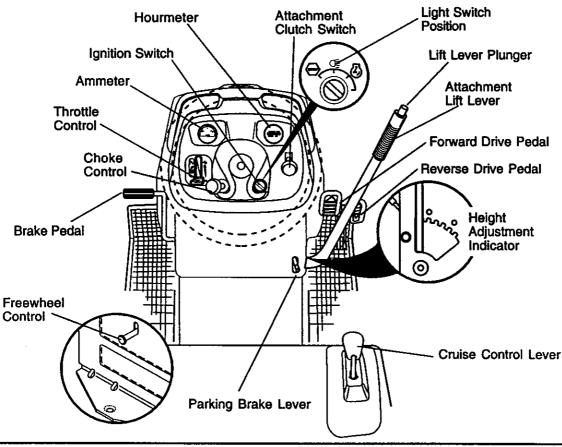
FREE WHEEL (Automatic Models only)

11

DANGER, KEEP HANDS AND FEET AWAY

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

BRAKE PEDAL - Used for braking the tractor and starting the engine. CRUISE CONTROL LEVER - Used to set forward movement of tractor at desired speed without holding the forward drive pedal.

FORWARD DRIVE PEDAL - Used for forward movement of tractor. REVERSE DRIVE PEDAL - Used for reverse movement 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 CONTROL - Used for controlling engine speed.

FREEWHEEL CONTROL -

Disengagages transmission for pushing or slowly towing the tractor with the engine off.

CHOKE CONTROL - Used for starting engine.

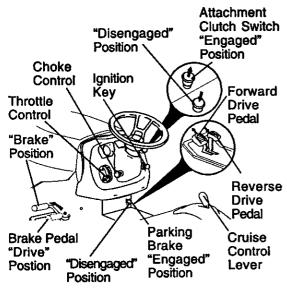
HOURMETER - Indicates hours of operation.

WELE YOUR BAPETY GLASSES FORESIGNT IS HE THER THAN NO SIGHT The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn over spectacles.

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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



STOPPING

MOWER BLADES -

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

GROUND DRIVE -

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

IMPORTANT: Forward and reverse drive pedals return to neutral position when not 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. **CAUTION:** Always stop tractor completely, as described above, before leaving the operator's position.

TO USE THROTTLE CONTROL

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

TO USE CHOKE CONTROL

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

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

TO MOVE FORWARD AND BACKWARD

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

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

TO USE CRUISE CONTROL

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

1. With forward drive pedal depressed to desired speed, move cruise control lever forward to "SET" position and hold while lifting your foot off the pedal, then release the cruise control lever.

To disengage the cruise control, pull the lever backward to "OFF" position, or fully depress the brake pedal.

TO ADJUST MOWER CUTTING HEIGHT

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

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

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

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

TO ADJUST GAUGE WHEELS

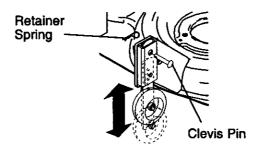
Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

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

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

- 4. Replace retainer spring into clevis pin.
- 5. Be sure all gauge wheels are in the same setting.

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



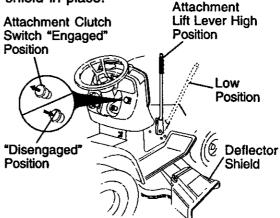
TO OPERATE MOWER

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

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

TO STOP MOWER BLADES disengage attachment clutch control.

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



TO OPERATE ON HILLS

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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If stopping is absolutely necessary, push brake pedal quickly to brake position and engage parking brake.

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

TO TRANSPORT

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

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

Transmission Engaged



Transmission Disengaged

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

TOWING CARTS AND OTHER ATTACH-MENTS

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

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

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

- 1. Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds,

remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.

- For cold weather operation you should change oil for easier starting ((See the oil viscosity chart in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

 Fill fuel tank to bottom of tank filler neck. Do not overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 20 down to pagure fuel fragmage

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 brake pedal and set parking brake.
- 3. Move attachment clutch to disengaged position.
- 4. Move throttle control to fast position
- 5. Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

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.
- Release the parking brake and let the 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).

PURGETRANSMISSION

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.
- 2. Disengage transmission by placing freewheel control in disengaged position (See "TO TRANSPORT" in this section of manual).
- 3. Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. Disengage parking brake.
- 4. Depress forward drive pedal to full forward position and hold for five (5) seconds and release pedal. Depress reverse drive pedal to full reverse position and hold for five (5) seconds and release pedal. Repeat this procedure three (3) times.

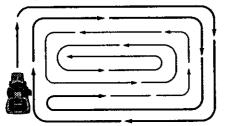
NOTE: During this step there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- 5. Shutoff engine and set parking brake.
- 6. Engage transmission by placing freewheel control in engaged position (See "TO TRANSPORT" in
- this section of manual).
 7. Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. Disengage parking brake.
- 8. Drive tractor forward for approximately five feet then backwards for five feet. Repeat this driving procedure three times.

Your transmission is now purged and now ready for normal operation.

MOWING TIPS

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

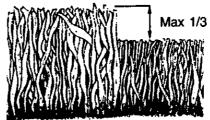


- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.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

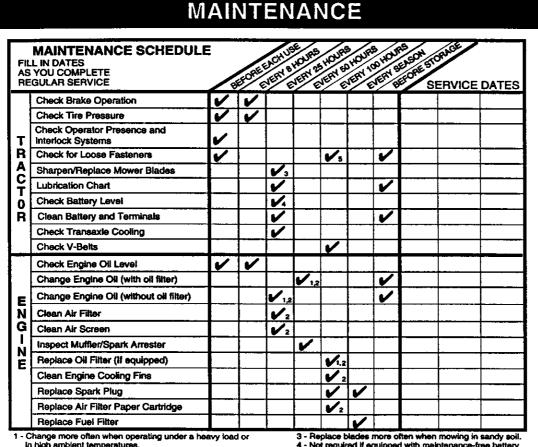
MULCHING MOWING TIPS

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.



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

GENERAL RECOMMENDATIONS

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

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

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

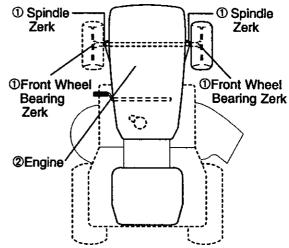
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

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.

A - Not required if equipped with maintenance-free batter 5 - Tighten front axle pivot boit to 35 ft.-lbs. maximum. Do not overtighten.

LUBRICATION CHART



① General Purpose Grease

© 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.

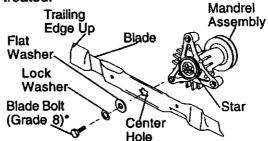
BLADE REMOVAL

- 1. Raise mower to highest position to allow access to blades.
- 2. Remove blade 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.

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

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

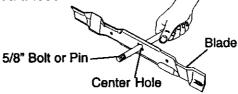
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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. Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- 3. Rinse the battery with plain water and dry.
- 4. Clean terminals and battery cable ends with wire brush until bright.
- 5. Coat terminals with grease or petroleum jelly.
- 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.

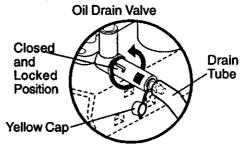


NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/ dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- 2. Remove yellow cap from end of drain valve and install the drain tube onto the fitting.



- 3. Unlock drain valve by pushing inward slightly and turning counterclockwise.
- 4. To open, pull out on the drain valve.
- After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- 6. Remove the drain tube and replace the cap onto the end of the drain valve.

- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. For accurate reading, tighten dipstick cap securely onto the tube before removing dipstick. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

ENGINE OIL FILTER

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

AIR FILTER

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

Service air cleaner more often under dusty conditions.

1. Remove knobs and cover.

TO SERVICE PRE-CLEANER

- 2. Wash it in liquid detergent and water.
- 3. Squeeze it dry in a clean cloth.
- 4. Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

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

TO SERVICE CARTRIDGE

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

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



CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled. **NOTE:** Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating.

MUFFLER

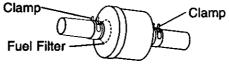
Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage. SPARK PLUG(S)

Replace spark plug(s) at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" section of this manual.

IN-LINE FUEL FILTER

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

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



CLEANING

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

We do not recommend using a garden hose 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 AVIOD SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER

- 1. Place attachment clutch in "DISEN-GAGED" position.
- 2. If equipped, turn height adjustment knob to lowest setting.
- 3. Lower mower to its lowest position.
- Remove retainer spring holding antisway bar to chassis bracket and disengage anti-sway bar from bracket.
- 5. Remove four retainer springs from front plate assembly and remove plate.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- 7. Raise attachment lift to its highest position.
- 8. Slide mower forward and remove belt from electric clutch pulley.
- 9. Slide mower out from under right side of tractor.

TO INSTALL MOWER

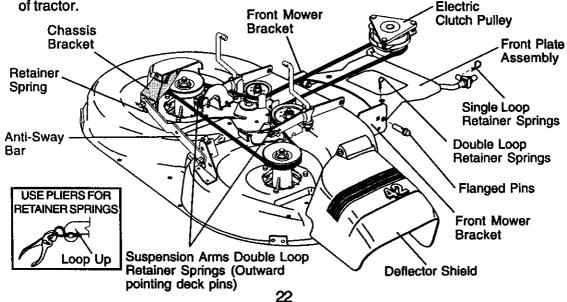
Be sure tractor is on level surface and mower suspension arms are raised with attachment lift control. Engage parking brake.

- 1. Swing anti-sway bar to left side of mower deck.
- 2. Slide mower under tractor with

deflector shield to right side of tractor. IMPORTANT: Check belt for proper

routing in all mower pulley grooves.

- 3. If equipped, turn height adjustment knob counterclockwise until it stops.
- 4. Lower mower linkage with attachment lift control.
- 5. Install belt into electric clutch pulley groove.
- Place the suspension arms on outward pointing deck pins. Retain with double loop retainer spring with loops up as shown.



- Install front plate assembly to tractor suspension brackets and retain with single loop retainer springs as shown.
- Position front plate assembly between front mower brackets. Raise deck and plate assembly to align holes and insert flanged pins. Secure pins with double loop retainer springs between the plate and mower brackets.

NOTE: To assist in locating hole in flanged pin, the hole in pin is inline with notch on head of pin. If necessary, move mower side-to-side to give space between plate and mower brackets. **IMPORTANT:** Check belt for proper routing in all mower pulley grooves.

- 9. Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- 10. If equipped, turn height adjustment knob clockwise to remove slack from mower suspension.
- 11. Raise deck to highest position.

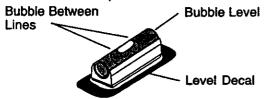
TO LEVEL MOWER HOUSING

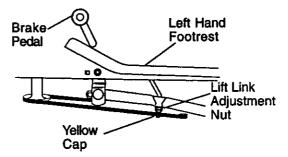
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT WITH BUBBLE LEVEL

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

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



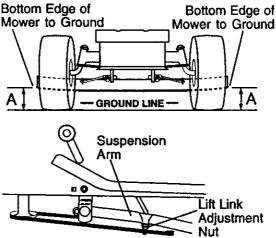


ALTERNATE SIDE-TO-SIDE ADJUSTMENT METHOD

- · Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

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

 Recheck measurements after adjusting.



FRONT-TO-BACK ADJUSTMENT

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

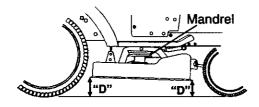
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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

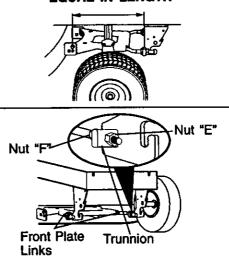
- Before making any necessary adjustments, check that both front plate links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" 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. Measure distance "D" directly in front of and behind the mandrel at bottom edge of mower housing as shown.

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



BOTH FRONT PLATE LINKS MUST 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.

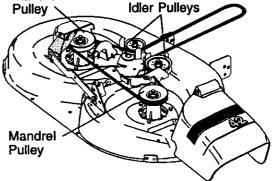
BELT REMOVAL -

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

Mandrel



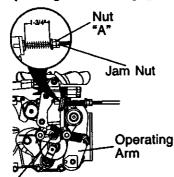
TO ADJUST BRAKE

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.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact a Sears or other qualified service center.

With parking brake "Engaged"



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

TO REPLACE MOTION DRIVE BELT

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

BELT REMOVAL -

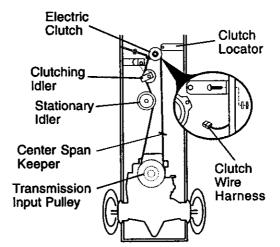
1. Remove mower (See "TO REMOVE MOWER" in this section of manual).

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

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

BELT INSTALLATION -

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



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 toein or camber, contact a Sears or other qualified service center.

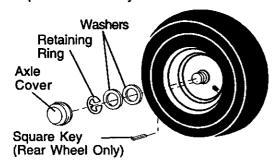
TO REMOVE WHEEL FOR REPAIRS

- 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.

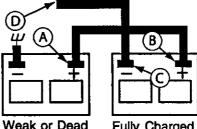
If your battery is too weak to start the engine, it should be recharged. (See "BATTERY" in the MAINTENANCE section of this manual). If "jumper cables" are used for emergency starting, follow this procedure: **IMPORTANT**: Your tractor is equipped with a 12 volt system. The other vehicle must also be 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

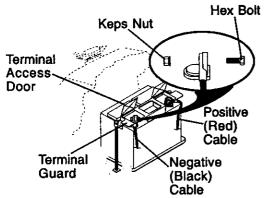
REPLACING BATTERY

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 LAMP

CAUTION: When lit, the halogen lamps get extremely hot. Hold lamp assembly by the holder and do not touch the bulb.

- 1. Raise hood.
- 2. Disconnect harness from lamp assembly.
- 3. Rotate counterclockwise and pull lamp assembly out of the hole in the backside of the grill.
- 4. Insert new lamp assembly and rotate clockwise to lock.
- 5. Reconnect harness to lamp assembly.
- 6. Close hood.

INTERLOCKS AND RELAYS

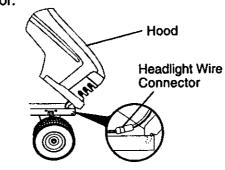
Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

 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.
- 2. Check that swivel is against stop. If it is not, loosen cable clamp screw and pull cable back until swivel is against stop. Tighten cable clamp screw securely.

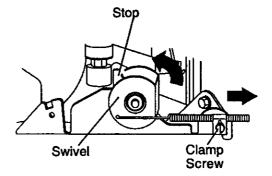
TO ADJUST CHOKE CONTROL

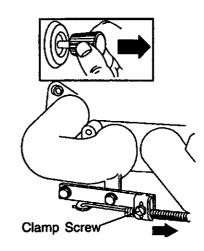
The choke control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

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

TO ADJUST CARBURETOR

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





STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.

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.

- 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 fueis (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:

...

PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel.	1. Fill fuel tank.
	Engine not "CHOKED"	2. See "TO START ENGINE"
	properly.	in Operation section.
	3. Engine flooded.	3. Wait several minutes before
		attempting to start.
	Bad spark plug.	4. Replace spark plug.
	5. Dirty air filter.	5. Clean/replace air filter.
	6. Dirty fuel filter.	6. Replace fuel filter.
	7. Water in fuel.	7. Drain fuel tank and carbure
		tor, refill tank with fresh
		gasoline and replace fuel
		filter.
	8. Loose or damaged wiring.	8. Check all wiring.
	9. Carburetor out of adjustment.	
		in Service and Adjustments
	10 Engine vehice out of	section.
	10. Engine valves out of	10. Contact a Sears or other
	adjustment.	qualified service center.
Hard to start	1. Dirty air filter.	1. Clean/replace air filter.
	2. Bad spark plug.	2. Replace spark plug.
	3. Weak or dead battery.	3. Recharge or replace battery.
	4. Dirty fuel filter.	4. Replace fuel filter.
	5. Stale or dirty fuel.	5. Drain fuel tank and refill with
	······	fresh gasoline.
	6. Loose or damaged wiring.	6. Check all wiring.
		7. See "To Adjust Carburetor" in
		Service and Adjustments
		section.
	8. Engine valves out of	8. Contact a Sears or other
	adjustment.	qualified service center.
Engine will not	1. Brake pedal not	1. Depress brake pedal.
turn over	depressed	1. Depiess blake pedal.
	2. Attachment clutch is	2. Disengage attachment
	engaged.	clutch.
	3. Weak or dead battery.	3. Recharge or replace battery.
	4. Blown fuse.	4. Replace fuse.
	5. Corroded battery terminals.	5. Clean battery terminals.
	6. Loose or damaged wiring.	6. Check all wiring.
	7. Faulty ignition switch.	7. Check/replace ignition
	, ,	switch.
	8. Faulty solenoid or starter.	8. Check/replace solenoid or
		starter.
	-	
	 Faulty operator presence switch(es). 	starter.
	9. Faulty operator presence switch(es).	starter. 9. Contact a Sears or other qualified service center.
Engine clicks but	 Faulty operator presence switch(es). Weak or dead battery. 	starter.9. Contact a Sears or other qualified service center.1. Recharge or replace battery.
Engine clicks but will not start	 Faulty operator presence switch(es). Weak or dead battery. Corroded battery terminals. 	 starter. 9. Contact a Sears or other qualified service center. 1. Recharge or replace battery. 2. Clean battery terminals.
	 Faulty operator presence switch(es). Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. 	 starter. 9. Contact a Sears or other qualified service center. 1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring.
	 Faulty operator presence switch(es). Weak or dead battery. Corroded battery terminals. 	 starter. 9. Contact a Sears or other qualified service center. 1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or
will not start	 Faulty operator presence switch(es). Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 starter. 9. Contact a Sears or other qualified service center. 1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.
	 Faulty operator presence switch(es). Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. 	 starter. 9. Contact a Sears or other qualified service center. 1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or

See appropriate section in manual unless directed to Sears service center

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. Dirty fuel filter. Stale or dirty fuel. Water in fuel. 	 Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace
	 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. 	 fuel filter. 10. Connect and tighten spark plug wire. 11. Clean engine air screen/ fins. 12. Clean/replace muffler. 13. Check all wiring. 14. See "To Adjust Carburetor" in Service and Adjustments section. 15. Contact a Sears or other qualified service center.
Excessive vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	 Replace blade. Tighten blade bolt. Contact a Sears or other qualified service center. Tighten loose part(s). Replace damaged parts.
Engine continues to run when operator leaves seat with attachment clutch engaged	 Faulty operator-safety presence control system. 	 Check wiring, switches and connections. If not corrected, contact a Sears or other qualified service center.
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent from build-up of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Contact a Sears or other qualified service center. Clean around mandrels to open vent holes.
Mower blades will not rotate	 Obstruction in clutch mechanism. 	1. Remove obstruction.

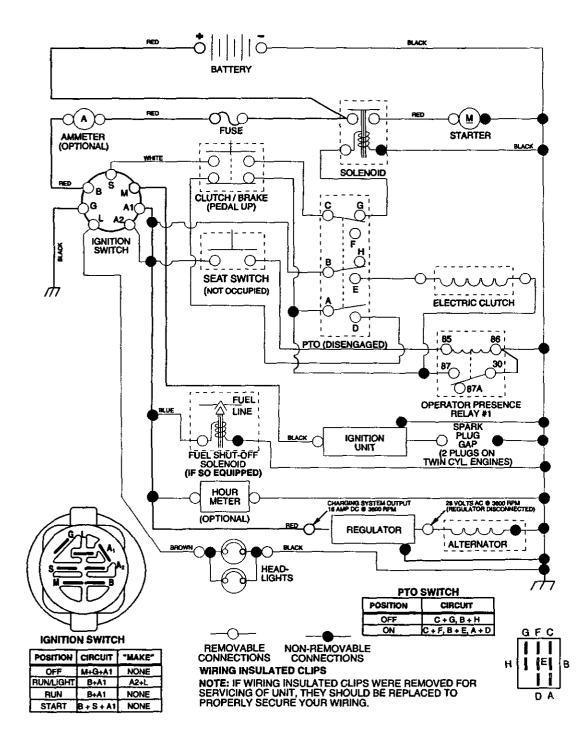
TROUBLESHOOTING CHART:

See appropriate section in manual unless directed to Sears service center

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. 	pressure. 6. Replace/sharpen blade. Tighten blade bolt.
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.

TRACTOR -- MODEL NUMBER 917.272281

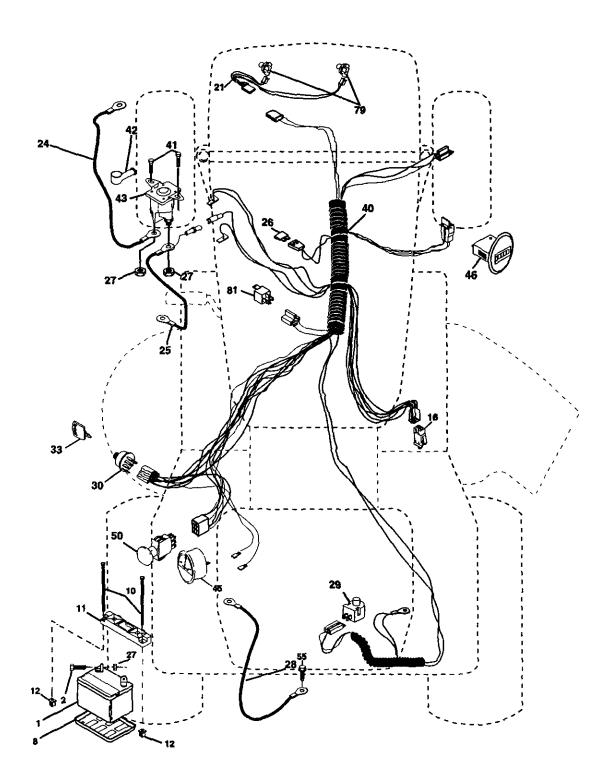
SCHEMATIC



REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.272281

ELECTRICAL

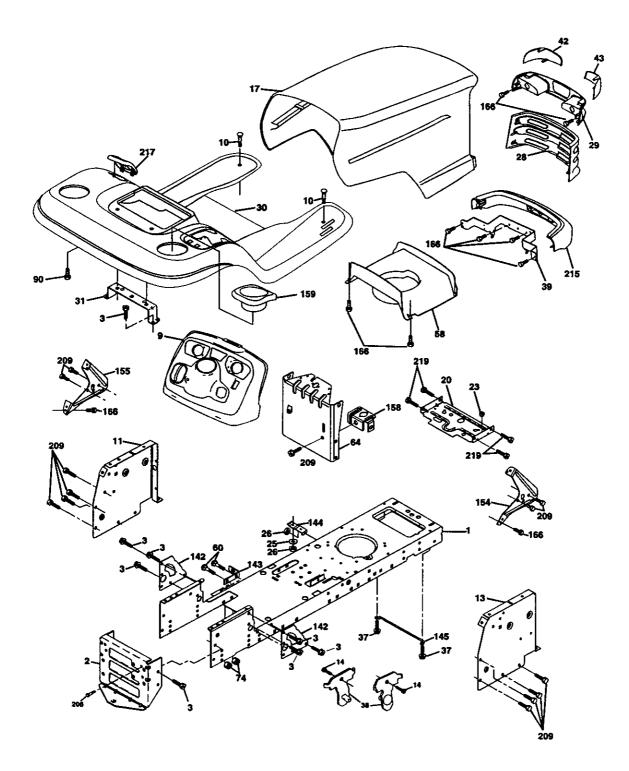


ELECTRICAL

	PART 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		Nut, Push Nylon Battery Front 1/4
16	176138	Switch Interlock
	175449	Hamess, Light
	4799J	Cable, Battery
25	146148	Cable, Battery
26	175158	
	73510400	Nut Keps Hex 1/4-20 UNC
28	145491	Cable, Ground
29	160784	Switch, Seat
30	175442	Switch, Ignition
	175447	Key
40	179737	Harness, Ignition
41	71110408	Bolt Fin Hex 1/4-20 Unc x 1/2
42	131563	Cover, Terminal
43	178861	Solenoid
45	175500	Ammeter
46	177501	Hourmeter
50		Switch Pto
55		Screw Thdrol 5/16-18 x 1/2
79	175448	Lamp and Holder Asm
81	109748X	Relay Asm

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

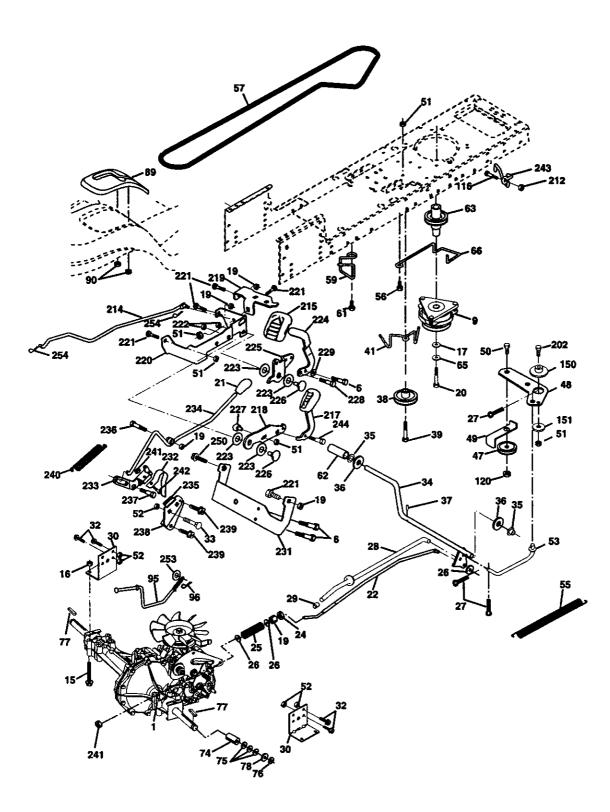
TRACTOR - - MODEL NUMBER 917.272281 CHASSIS AND ENCLOSURES



KEY NO.	PART NO.	DESCRIPTION
1	174619	Chassis
2	176554	Drawbar
3	17060612	Screw, 3/8-16 x 3/4
9	172542X418	
11	174996	Panel, Dash, LH
10	72140608	Bolt 3/8-16 x 1
13		Panel, Dash, RH
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	172540X615	
20	180679	Plate Battery
23	124028X	Bushing Snap
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Locknut, Hex, with Insert 3/8-16 UNC
28	174945X418	
29		Lightbox Dual Fender/Footrest
30 31	179131X615 139976	Bracket, Fender/Support
37	17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38	175710	Bracket Asm Pivot Mower Rear
39	174988	Bracket Pivot Hood
42	172545X599	
43	172544X599	
58	174993	Duct Hood
60	STD533707	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64	174997	Dash Lower
74	STD541437	Nut Crownlock 3/8-16 UNC
90	124346X	Nut Self Thd Wsh Hd 1/4
142	175702	Plate Reinforcement
143	154966	Bracket Swaybar Chassis
144	175582	Bracket Footrest
145	156524	Rod Pivot Chassis/Hood
154		Bracket Dash Rh
155	174680	Bracket Dash Lh
158	162037	Parking Brake Bkrt
159	179950X418	
166		HWHDH:-Lo. #13-16 x 3/4
206		Bolt Shoulder 5/16-18
209	17000612 172543X615	Screw Hexwsh Thdr 3/8-16 x 3/4
215 217	172543X615 179132X418	
217	17000512	Screw 5/16-18 x 3/4

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

GROUND DRIVE



TRACTOR -- MODEL NUMBER 917.272281

KEY PART

GROUND DRIVE

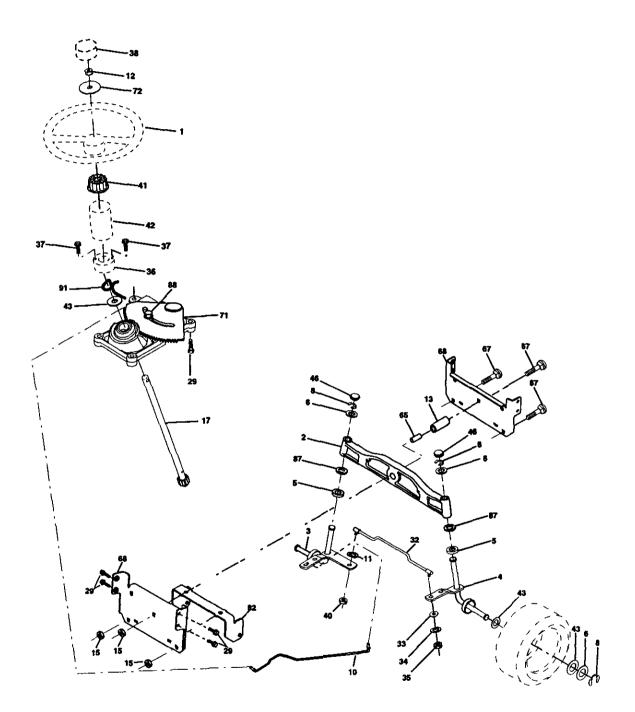
KEY PART

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NO.		DESCRIPTION	NO.	NO.	DESCRIPTION
1		Transaxle (See Breakdown)	77	123583X	Key, Square
			78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
6	17060512	Screw 5/16-18 x 3/4	89	174901X418	
9	137140	Clutch Elec		124346X	Nut Self-Thd Wsh-hd 1/4 Zinc
15	74490544	Bolt Hex Fighd 5/16-18 Gr. 5	95	180825	Rod Bypass
16	73800500	Nut Lock Hex W/Ins. 5/16-18 Unc	96	4497H	Retainer Spring 1" Zinc/Cad
17	126197X	Washer 1-1/2 OD x 15/32 ID x	116	72140608	Bolt RDHD SQNK 3/8-16 Unc x 1
		.250	120	73900600	Nut Lock Fig 3/8-16 Unc
19	73800600	Nut Lock Hex W/Wsh 3/8-16 Unc	150	175456	Spacer Retainer
20	150280	Bolt Hex 7/16-20 x 4 x 1/4	151	19133210	Washer 13/32 x 2 x 10 Ga.
21					Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5
	175896			145212	Nut HexFlange Lock
24	73350600	Nut, Hex Jam 3/8-16 Unc		174735	Link Transaxle
25	106888X	Spring, Brake Rod		175646	Cover Pedal Forward
26	19131316	Washer		179433	Pedal Reverse Asm. w/Pad
27	76020412			174713	Arm Control Pedal Reverse
28		Rod, Parking Brake		174839	Bracket Frest Pdl Ctrl. Hyd
29		Knob Brake Parking			Bracket Mtg. Pedal Control
30		Bracket, Transaxle			Bolt Rdhd Sqnk 3/8-16 Unc x 3/4
32					Nut Crownlock 7/16-14 Unc
33		Bolt Rdhd Sqnk 5/16-18 Unc x 3/4			Washer Nylon 11/16 ID x .060
34		Shaft, Foot Pedal			Pedal Forward
35	120183X				Arm Control Pedal Forward
	19211616				Bolt Pivot Spacer
	1572H				Cam Reverse Pedal LT
38					Bolt Shoulder 5/16-18
					Washer Serrated 5/16 x .75
					Strap Torque
					Actuator Cruise Disengage
					Pawl Control Cruise
49					Lever Control Cruise
50					Sector Control Cruise
51					Bolt Shoulder 3/8-16 Unc 1/44
52					Bolt Shoulder 5/16-18
53					Arm Mtg. Cruise Sector
55					Screw Thdrol 5/16 x 1/2
					Spring Return Cruise Control
5/					Nut Centerlock 1/4-20 Unc
					Bolt Fin Hex 1/4-20 Unc x 3/4
61					Bracket Anti-Rotation CVX
					Screw 5/16-18 x 5/8 Yellow
53					Screw 3/8-16 x 3/4
65	-				Washer .3125 x .615 x 16 Ga.
			254	178062	Clip Retainer
/6	12000001	E-Hing	NOT	E: All compone	ent dimensions given in U.S. inches
	NO. 1 6 9 15 16 17 19	1 6 17060512 9 137140 15 74490544 16 73800500 17 126197X 19 73800600 20 150280 21 175036X505 22 175896 24 73350600 25 106888X 26 19131316 27 76020412 28 179607 29 179608X505 30 169592 32 74760512 33 72140506 34 175578 35 120183X 36 19211616 37 1572H 38 179114 39 74760648 41 175556 47 127783 48 154407 49 123205X 50 74760624 51 73680500 53 105709X	NO. DESCRIPTION 1	NO. DESCRIPTION NO. 1	NO. DESCRIPTION NO. NO. 1

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

TRACTOR -- MODEL NUMBER 917.272281 STEERING ASSEMBLY



TRACTOR -- MODEL NUMBER 917.272281 STEERING ASSEMBLY

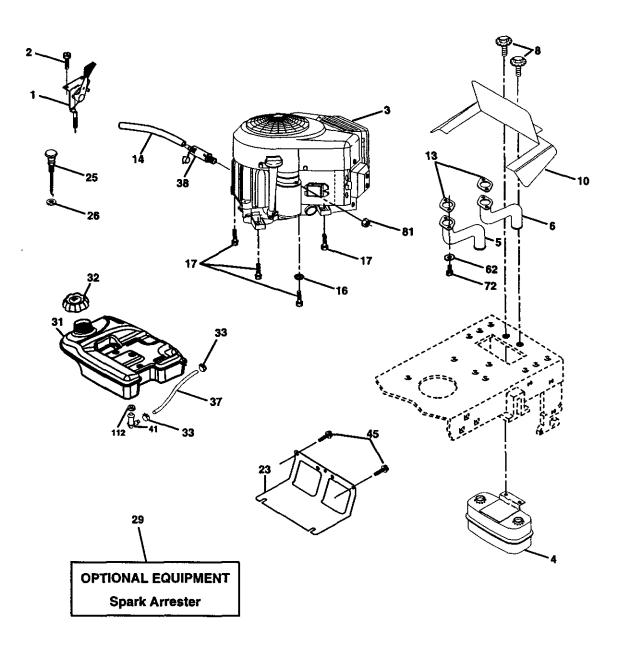
المحاد فيعلموا المحالة المحال الرائي

		PART NO.	DECODIDITION
4	NO.	NU.	DESCRIPTION
	1	175139X418	Steering Wheel
2	2	172393	Axle Assembly
1	3 4	169840	Spindle Assembly, L.H.
4	4	169839	Spindle Assembly, R.H.
	5	6266H	Bearing, Race, Thrust, Hardened
	5	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
	3	12000029	Ring, Klip
	10	175121	Draglink
	11	STD551137	Washer, Lock
	12	73940800	Nut Hex Jam Toplock 1/2-20 Unf
	13	136518	Spacer Brg Axle Front
	15	145212	Nut Hexflange Lock
	17	177883	Shaft Assembly, Steering
	29	17060612	Screw, 3/8-16 x 3/4
	32	170162	Rod, Tie
	33	19111216	Washer 11/32 x 3/4 x 16 Ga.
	34	STD551131	Washer Lock Hvy Spr. 5/16
	35	73540500	Crownlock Nut 5/16-24 Unf
	36	155105	Bushing, Steering
	37	152927	Screw
	38	175140X418	Insert, Steering Wheel
	40 41	STD541537	Nut Lock Center 3/8-24 Unf
	42	159945 174530X418	Adaptor, Steering Wheel
	42 43	121749X	Boot, Steering Shaft
	46	121/49X	Washer 25/32 x 1-1/4 x 16 Gauge
	40 65	160367	Cap, Spindle
	60 67	72140618	Spacer Brace Axie Bolt Rdhd Sq 3/8-16 UNC x 2-1/4
	68	169827	Axie, Brace
	71	175146	Steering Asm
	72	19182411	Washer 9/16 ld x 1-1/2 Od 11 G Zin
	82	169835	Bracket Susp Chassis Front
	87	173966	Washer Flat .781 x 1-1/2 x .14
	57 88	175118	Bolt Shoulder 7/16-20 Unc
	91	175553	Clip Steering
•		110000	onporconnig

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

TRACTOR -- MODEL NUMBER 917.272281

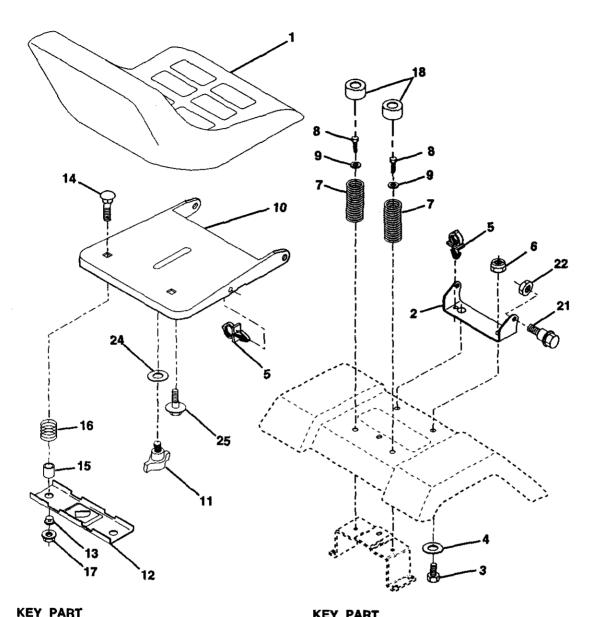
ENGINE



KEY NO.	PART NO.	DESCRIPTION
1	175437X505	Control, Throttle
2	164863	Screw Hwhd HLo #13016 x 3/4
3	•••••	Engine, (See Breakdown) B&S Model Number 446777-0165-E1
4	149723	Muffler
5	159955	Pipe Exhaust Lh
6	160589	Pipe Exhaust Rh
8	171877	Bolt 5/16-18 Unc x 3/4
10	162797	Shield Heat
13	165391	Gasket
		(See Engine Breakdown)
- 14	148456	Tube Drain Oil Easy
16	11050600	Washer, Lock, External Tooth 3/8
17	17060624	Screw 3/8-16 x 1-1/2
23	169837	Shield, Browning / Debris Guard
25	175440X505	Choke Control
26	73920600	Nut, Keps 3/8-24 Unf
29	137180	Kit, Spark Arrestor
31	179022	Tank Fuel
32	179124X418	Cap Asm Fuel
33	123487X	Clamp, Hose
37	8543R	Line, Fuel
38	148315	Plug Drain Oil Easy
41	139277	Stem Fuel Tank
45	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
62	10040500	Washer Lock 5/16
72	71070512	Screw Hex Cap 5/16-18 x 3/4
81	73510400	Nut Keps Hex 1/4-20 UNC
112	3645J	Bushing

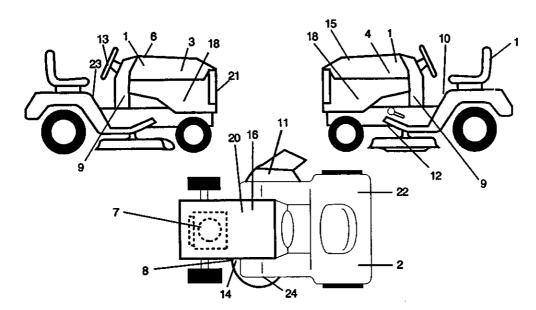
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm TRACTOR -- MODEL NUMBER 917.272281

SEAT ASSEMBLY



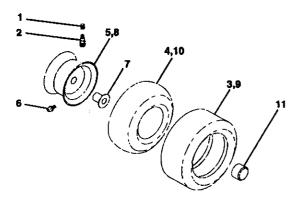
PART NO.	DESCRIPTION	KEY NO.	PART NO,	DESCRIPTION
175134	Seat	14	72050412	Bolt, Carriage 1/4-20 x 1-1/2
140551	Bracket, Pivot, Seat	15	121249X	Spacer, Split
71110616	Bolt	16	123740X	Spring
19131610	Washer 13/32 x 1 x 10 Gauge	17		Locknut, Flange 1/4 Grade 5
145006	Clip, Push-In Hinged	18		Cap Spring Seat
STD541437	Nut	21		Bolt, Shoulder 5/16-18 UNC
124181X	Spring, Seat	22		Nut
17000616	Screw 3/8-16 x 1-1/2	24		Washer 17/32 x 1-3/16 x 12
19131614	Washer 13/32 x 1 x 14 Gauge			Gauge
182493	Pan, Seat	25	127018X	Bolt, Shoulder 5/16-18 x .62
177957	Knob Seat			
121246X	Bracket, Switch Mounting			
121248X	Bushing, Snap	NOTE 1 inch	= 25.4 mm	ent dimensions given in U.S. inches
	NO. 175134 140551 71110616 19131610 145006 STD541437 124181X 17000616 19131614 182493 177957 121246X	NO. DESCRIPTION 175134 Seat 140551 Bracket, Pivot, Seat 71110616 Bolt 19131610 Washer 13/32 x 1 x 10 Gauge 145006 Clip, Push-In Hinged STD541437 Nut 124181X Spring, Seat 17000616 Screw 3/8-16 x 1-1/2 19131614 Washer 13/32 x 1 x 14 Gauge 182493 Pan, Seat 177957 Knob Seat 121246X Bracket, Switch Mounting	NO. DESCRIPTION NO. 175134 Seat 14 140551 Bracket, Pivot, Seat 15 71110616 Bolt 16 19131610 Washer 13/32 x 1 x 10 Gauge 17 145006 Clip, Push-In Hinged 18 STD541437 Nut 21 124181X Spring, Seat 22 17000616 Screw 3/8-16 x 1-1/2 24 19131614 Washer 13/32 x 1 x 14 Gauge 25 177957 Knob Seat 25 177957 Knob Seat 25 121246X Bushing, Snap NOTE	NO. DESCRIPTION NO. NO. 175134 Seat 14 72050412 140551 Bracket, Pivot, Seat 15 121249X 71110616 Bolt 16 123740X 19131610 Washer 13/32 x 1 x 10 Gauge 17 123976X 145006 Clip, Push-In Hinged 18 124238X STD541437 Nut 21 171852 124181X Spring, Seat 22 STD541431 17000616 Screw 3/8-16 x 1-1/2 24 19171912 19131614 Washer 13/32 x 1 x 14 Gauge 25 127018X 177957 Knob Seat 25 127018X

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	180978 174969	Decal, Hood/Seat Reflector L.H.	15 16	181427 138047	Decal Replc Decal, Battery Diehard
3	177909	Decal, Hood, R.H.	18	177913 149516	Decal, Panel Side Decal, Battery Dngr/Psn Eng
4 6	177910 133644	Decal, Hood, L.H. Decal, Customer Maintenance	20 21	177889	Decal, Grille
7	181604	Decal, Engine Decal, Deck B 42	22 23	174970 177955	Reflector RH Decal, Fender Oper Cruise
8 9	179128 182168	Decal, Deck B 42 Decal, Dash Lwr	24	172331	Decal, Deck
10 11	156439 181470	Decal, Fender Danger Decal, Deck Leveling		138311 174998X418	Decal, Lift Handle Pad Footrest LH
12	146046	Decal, V-Belt Drive Schematic		175542X418	Pad Footrest RH
13 14	177890 160396	Decal Strg Wheel Decal, V-Belt Schematic		169210 183252	Decal, By Pass Lt Hydro Owner's Manual, English
14	100050	Beca, v ben continue		183253	Owner's Manual, Spanish

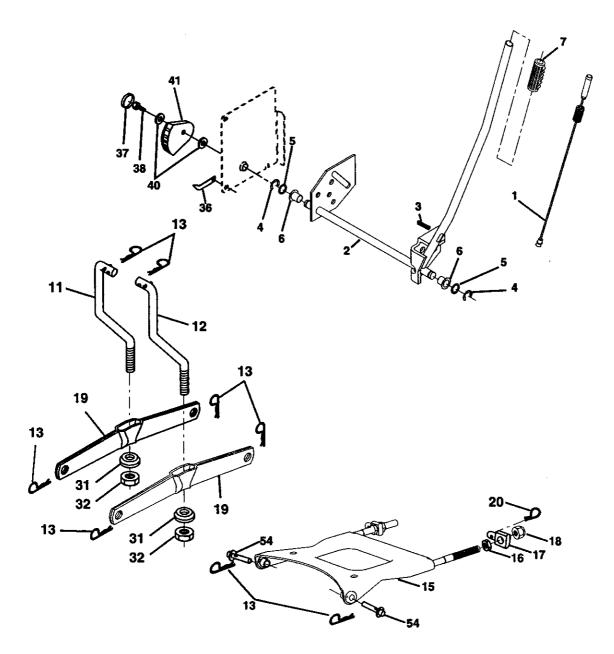
WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION
1	59192	Valve Cap, Tire
2	65139	Stem, Valve
3	177750	Tire, Front
4	59904	Tube, Front Tire
		(Not Provided, Service Item Only)
5	106732X417	
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel
		Only)
8	106108X417	Rim, Rear
9	177751	Tire, Rear
10	7152J	Tube, Rear Tire
		(Not Provided, Service Item Only)
11	104757X417	Cap, Axle
- •	144334	Sealant, Tire 10 oz.
NOT		ant dimonsions given in LLS inches

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

LIFT ASSEMBLY



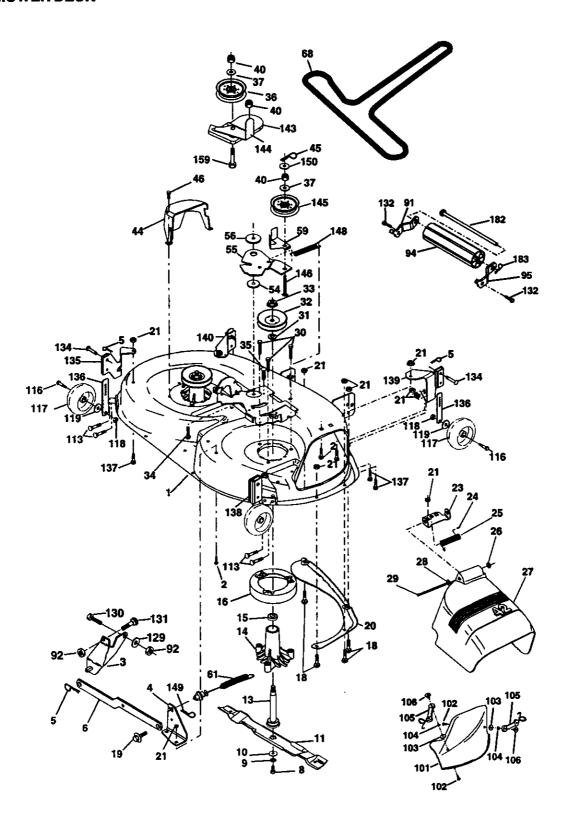
LIFT ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1 2	179504 159476	Plunger Assembly
3	178981	Shaft Assembly, Lift Pin, Groove
4	12000002	E-Ring
5	19211621	Washer 21/32 x 1 x 21 Gauge
6	120183X	Bearing, Nylon
7	175830	Grip, Handle, Fluted
11	139865	Link, Lift, L.H.
12	139866	Link, Lift, R.H.
13	4939M	Retainer Spring
15	175562	Plate Asm Suspension Front
16		Nut Jam Hex 1/2-13 Unc
17	175689	Trunnion Front Susp.
18	73800800	Nut Lock w/Wsh 1/2-13 Unc
19	139868	Arm Asm. Suspension Mower
20	163552	Retainer Spring
31	169865	Trunion Sups. Ann. Bearing Pivot
32	73540600	Nut Crownlock 3/8-24
36	155097	Pointer Height Indicator
37	123935X	Plug Hole
38 40	17060516	Screw 5/16-18 x 1
40 41	19112410	Washer 11/32 x 1-1/2 x 10 Ga
41 54	155098 175560	Indicator Height Stlt
U4	17000	Pin Flange

.

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

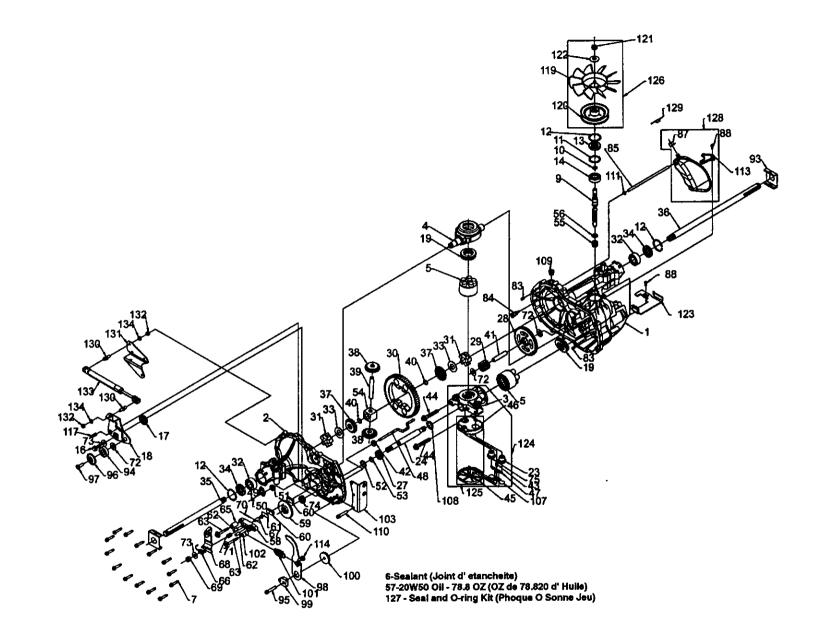
MOWER DECK



TRACTOR -- MODEL NUMBER 917.272281

MOWER DECK

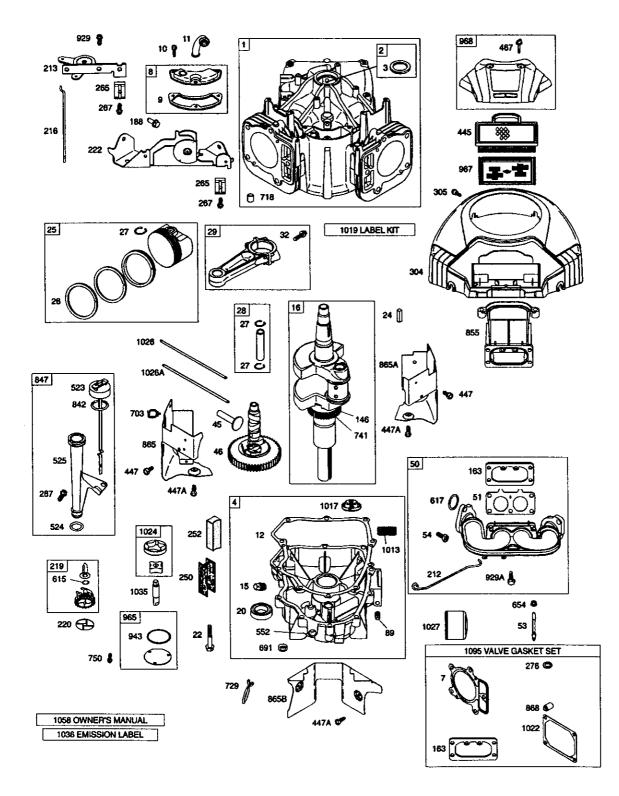
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	182032	Mower Deck Assembly, 42"	68	174883	V-Belt
2	STD533107	Bolt	91	180532	Bracket Roller Nose LH
3	138017	Bracket Assembly, Sway Bar,	92	STD541437	Nut
		Front	94	132264	Roller Nowe 38-50
4	165460	Bracket Sway Bar 38/42" Deck	95	180533	Bracket Roller Nose RH
5	STD624008	Retainer Spring	101	136420	MulcherCover
6	178024	Bar Sway Deck	102	71081010	Screw
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	103	19061216	Washer #10
9	STD551137	Washer, Lock	104	STD551110	Washer, Lock
10	140296	Washer, Hardened	105	160793	Latch Assembly, Bagger
11	139775	Blade, Mulching Premium	106	2029J	Nut, Weld
13	137645	Shaft Assembly, Mandrel, Vented	116	4898H	Bolt shoulder
14	128774	Housing, Mandrel, Vented	117	165746	Wheel Gauge Rally
15	110485X	Bearing, Ball, Mandrel	118	73930600	Nut Centerlock 3/8-16
16	174493	Stripper, Vented Mower Deck	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
17	72110614	Bolt Rdhd 3/8-16 x 1-3/4 x Gr. 5	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
18	72140505	Bolt, Carriage 5/16-18 x 5/8	130	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr.5
19	132827	Bolt, Shoulder	131	STD533710	Bolt, Rdhd Sgnk 3/8-16UNC x 1
20	159770	Baffle, Vortex	132	17060612	Screw 3/8-16 x 3/4
21	STD541431	NutCrownlock 5/16-18 UNC	134	156941	Pin Head Rivet
23	177563	Bracket, Deflector	135	155989	Bracket Whi. Gauge Rear LH
24	105304X	Cap, Sleeve	136	155986	Channel Adj. Whi Gauge
25	123713X	Spring, Torsion, Deflector	137	72110505	Bolt Carr Short 5/16-18 x 5/8
26	110452X	Nut, Push	138	155992	Bracket Whi, Gauge Rear RH
27	130968X428		139	159644	Bracket Whi Gauge Front RH
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	140	159643	Bracket WhI Gauge Front LH
29	131491	Rod, Hinge	143	157109	Bracket Arm Idler 42"
30	173984	Screw Thd Roll Dod Pt. Hex	144	158634	Keeper Belt 42" Clutch Cable
31	129963	Washer, Spacer	145	165888	Pulley Idler Flat
32	153535	Pulley, Mandrei	146	171977	Bolt Carriage Idler
33	178342	Nut, Toplock, Flanged	148	169022	Spring Return Idler
36	131494	Pulley, Idler, Flat	149	165898	Retainer Spring Yellow Zinc
37	STD551037	Washer 13/32 x 13/16 x 16 Ga.	150	19091216	Washer 9/32 x 3/4 x 16 Ga.
40	STD541437	Nut Crownlock 3/8-16 UNC	159	72140614	Bolt Tdhd Sgn 3/8-16UNC x 1-3/4
44	140088	Guard, Mandrel, L.H.	182	179126	Rod Roller Nose
45	STD624003	Retainer	183	163552	Retainer Spring Zinc
46	137729	Screw, Thd. Roll 1/4-20 x 5/8		130794	Mandrel Assembly (Includes
54	133943	Washer, Hardened			Housing, Shaft and Shaft
55	155046	Arm, Idler			Hardware Only - Pulley Not
56	165723	Spacer, Retainer			Included)
59	141043	Guard, TUV Idler		181542	Replacement Mower, Complete
61	174882	Spring Ext. Elect Clutch	NOT	E: All compor	nent dimensions given in U.S. inches
				1 inch = 25	5.4 mm

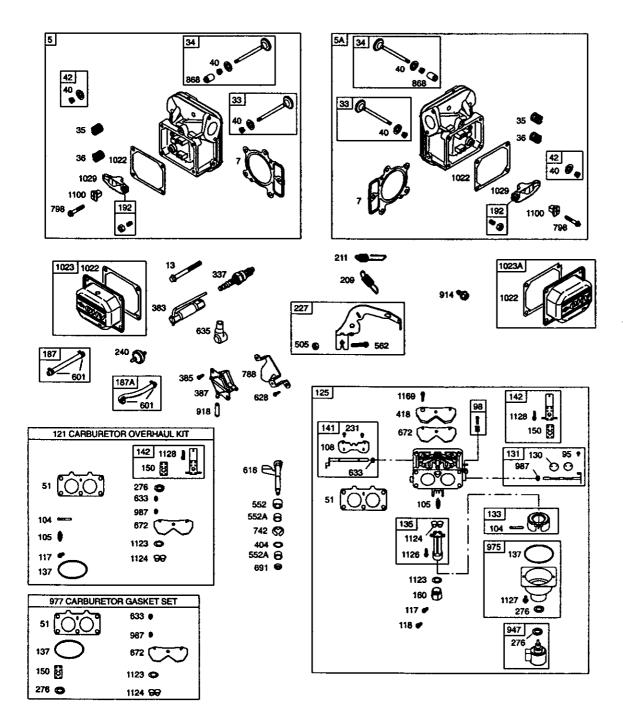




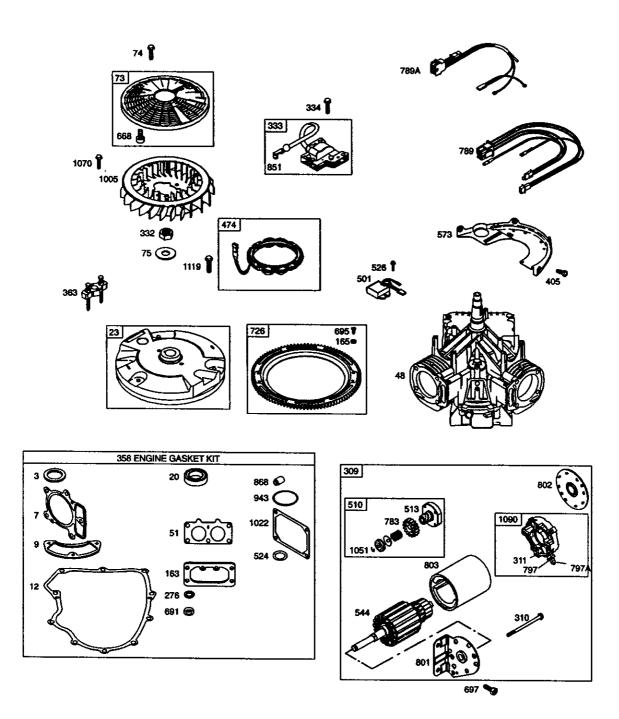
TRACTOR -- MODEL NUMBER 917.272281 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 323-0510

	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	170351	Main Housing, Assembly	67	170413	Sq. Hd. Bolt 5/16-24-Ribbed
2	170352	Side Housing, Assembly	68	178782	Arm, Brake
2 3 4	170353	Center Section, Assembly	69	170415	Slotted Hex Nut 5/16-24
	170354	Swashplate, Trunion Machined	70	170416	Cotter Pin 3/32 X 3/4
5	169898	Block - Assembly	71	170417	Compression Spring Brake Anti-
6	170355	Sealant 10.5 Oz			Drag
7	170356	Hex Flange Screw 1/4-20 X 1.25	72	170418	Washer, Ht .5 I.D. X 1 O.D. X
8	170357	Stud, 5/16-24 Hex Double End		440004	.032
9	170358	Shaft, Input	73 74	142884	Flat - Washer 11/32 I.D. X 7/8 Od
10 11	170359 170360	Ring - Retaining	74	170419 170420	Oil Seal .625 X 1.0 X .25
12	169870	Spacer Ring - Retaining	75	170420	Check Plug Assembly, .027, Washer
13	170361	Seal, Lip .67 X 1.58 X .276	76	170421	Stud, 5/16-24 Friction Pack
14	169869	Ball Brg 17mm Id X 40mm Od X	77	170422	Puck, .330 X 1.50 X .0975
	100000	12mm	78	142969	Spring, Helical Comp
16	170362	Hex Flange Head Screw 5/16-	79	142980	Spacer
•-		24X0.75	80	150778	Hex Lock Nut 5/16-24Unjf(Nylon
17	170363	Lip Seal 18 X 32 X 7			Insert)
18	178781	Arm, Control	81	170423	Wedge, Friction Pack
19	150771	Bearing, 30x52x13 Thrust	82	170424	Clip, Washer .316x1.50x.1046
23	170365	Check Plug Assembly, Washer			(Plated)
24	170366	Shaft, Motor	83	161168	Pin, Standard Headless
27	170367	Gear - Pinion, 13t	84	170425	Fitting, 5/16 Sae 5/32 Tube
28	170368	10t/48t Gear	85	170426	Hose, Expansion Tank
29	170369	Gear, 10t Jackshaft	87	142917	Cap - Poppet Valve
30	170370	60t Bull Gear	88	170429	Bolt, Self Tapping 10-32 X 1/2
31	170371	Sleeve Bearing .75 X 1.575 X	90	170430	Puck, Inner Wedge
~~	170000	.625	93	170431	Spring Clip - Housing Thrust
32	170389	SleeveBearing(Outboard)	94 95	178783 178784	Bearing, Ball
33	142991	.75x1.750x.625	30	1/0/04	Screw, Socket Head Cap 5/16- 24X1-1/2
33	142991	Washer, 3/4 ld X 1-1/2 Od X .13 Thk	96	178786	
34	170390	Lip Seal Axle Seal	97	178787	Spacer, Locating Screw, SFHCS 5/16-18 X1
35	170391	Shaft, Axle .75 X 11.39(Key,R.H.)	98	178789	Arm Return
36	170392	Shaft, Axle .75 X 16.99 (Key,L.H.)	99	178792	Puck, Adjusting
37	150792	Miter Gear (Splined)	100	178793	Washer, .24 ID X 1.60 OD X .239
38	150793	Miter Gear 15t (0.5 ld)	101	178794	Spring, Extension
39	150809	Shaft	102	178795	Spacer .260 ID X .560 OD X .870
40	170393	Ring, Spiral Retaining	103	178796	Bracket, Torque
41	170394	Pin, Jackshaft	107	170432	Deflector
42	170395	Magnet, Ring	108	170433	Washer, Motor Shaft
43	170396	Spring, Bypass			.71idx1.15odx.030thk
44	150797	Hydro Mtg Screw 3/8-24 X 2.5 Lg	109	170434	Plug, Sae #6
45	170397	Filter	111	170435	O-Ring .07 X .301 I.D.
46	170398	Base, Filter	113	170437	Bracket, Support Expansion Tank
47	170399	Actuator, Bypass	114	178797	Spring
48	170400	Rod, Bypass Actuator	116	170438	Silicon Sponge
49	170401	Arm, Bypass	117	178799	Pin, Spring
50	170402	Retaining Ring .250 External	119	170439	Fan, 7 In.
51	170403	Seal, Lip .741 X .250 X .250 Tc	120	170440	Pulley
52	170404	Flat Washer, 5/8ld x 1.0 Od x .05	121	170441	Hex Lock Nut 1/2-20 (Nylon Ins.)
50	170405	Thk Detaining Diag	122 123	170442 178800	Washer, Belleville
53 54	170405 170406	Retaining Ring	123	170444	Beit Keeper Contor Section Filter Bunger Acm
54 55	142977	Bearing, Center Block	125	170445	Center Section-Filter-Bypass Asm. Filter Assembly
56	142978	Spring - Helical Compression Washer	126	170446	Fan - Pulley Service Assembly
57	150798	20w-50 Oil	127	170447	Seal - O-Ring Kit
58	170407	Brake Yoke	128	173165	Kit, Expansion Tank
59	170408	Rotor, Brake	130	178802	Stud Ball
60	142883	Brake Puck	131	178803	Bracket, Cruise Damper
61	142882	Puck Plate	132	178804	Hex Nut 5/16-18 NC
62	142887	Brake Actuating Pin	133	178806	Damper
63	170410	Hihcs 1/4-20x2 W/	134	178808	Washer, Helical Spring Lock 5/16
	-	Patch, Special Flange	900	173839	Transaxie Complete
64	142892	Bolt, 1/4-20 X 1 W/Patch			•
65	170411	Spacer	NOTE		nent dimensions given in U.S. inches
66	170412	Spring, Brake Arm Bias		1 inch = 25.	4 mm





53



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	694001	Cylinder Assembly Kit-Bushing/Seat (Magneto	117 118	690232 Ø 690989	Jet-Main (Standard) Jet-Main (High Altitude)
2	499585	Kit-Bushing/Seal (Magneto Side)	121	499811	Kit-Carburetor Overhaul
3	391086	Seal-Oil (Magneto Side)	125	499804	Carburetor
3 4	690069	Sump-Engine	130	690993	Valve-Throttle
5 5A	697580	Head-Cylinder (Cylinder 1)	131	499805	Kit-Throttle Shaft
5A	697581	Head-Cylinder (Cylinder 2)	133	499806	Float-Carburetor
7		+ Gasket-Cylinder Head	135	499803	Tube-Fuel Transfer
8	499601	Breather Assembly	137		Gasket-Float Bowl
9		Gasket-Breather Second Accomptail	141	499807	Kit-Choke Shaft
10 11	690960 690942	Screw (Breather Assembly) Tube-Breather	142 146	499808 Ø 690979	Nozzle-Carburetor Key-Timing
12		Gasket-Crankcase	150		Gasket-Nozzle
13	690360	Screw (Cylinder Head)	160	690996	Retainer-Solenoid
15	690946	Plug-Oil Drain	163		Gasket-Air Cleaner
16	691046	Crankshaft	165	693148	Nut (Ring Gear)
20		Seal-Oil (PTO Side)	187	691050	Line-Fuel (Cut to Required
22	694966	Screw (Engine Sump)			Length)
23	691053	Flywheel		691049	Line-Fuel (Molded)
24	222698	Kéy-Flywheel Biston Assembly (Standard)	188	690960	Screw (Control Bracket)
25 25	697679 697680	Piston Assembly (Standard) Piston Assembly (.010"	192 209	690083 697674	Adjuster-Rocker Arm Spring-Governor
25	097000	Oversize)	211	691019	Spring-Governed Idle
25	697681	Piston Assembly (.020"	212	695238	Link-Throttle
		Oversize)	213	691021	Bracket-Choke Control
25	697682	Piston Assembly (.030"	216	691022	Link-Choke
		Oversize)	219	696376	Gear-Governor
26	697683	Ring Set-Piston (Standard)	220	690412	Washer (Governor Lever)
26	697684	Ring Set-Piston (.010*	222	691023	Bracket-Control
00	007005	Oversize)	227	691048	Lever-Governor Control
26	697685	Ring Set-Piston (.020"	231 240	690718 695666	Screw (Choke Valve) Filter-Fuel
26	697686	Oversize) Ring Set-Piston (.030"	250	690957	Retainer-Breather
20	037000	Oversize)	252	690956	Collector-Oil
27	690975	Lock-Piston Pin	265	691024	Clamp-Casing
28	690229	Pin-Piston	267	695134	Screw (Casing Clamp)
29	499583	Rod-Connecting	276	690997•Ø+	Washer-Sealing
32	690976	Screw (Connecting Rod)	287	690960	Screw (Dipstick Tube)
33	697576	Valve-Exhaust	304	695277	Housing-Blower
34	499597	Valve-Intake Spring Valve (Inteke)	305 309	691005	Screw (Blower Housing)
35 36	690963	Spring-Valve (Intake) Spring-Valve (Exhaust)	310	691262 691263	Motor-Starter Bolt-Starter Motor
40	690963 690964	Retainer-Valve	311	497608	Brush Set
42	499586	Keeper-Valve	332	691059	Nut (Flywheel)
45	690977	Tappet-Valve	333	691060	Armature-Magneto
46	690978	Camshaft	334	691061	Screw (Magneto Armature)
48	692714	Short Block (446777-0027-E2	337	491055	Spark Plug
		Replacement Engine)	358	694012	Set-Engine Gasket
50	695241	Manifold-Intake	0014	0	
51		؇ Gasket-Intake	нрм	Settings:	Low Speed: 1900-2100
53	690951 695240	Stud (Carburetor) Screw (Intake Manifold)			High Speed: 3000-3200
54 73	695240 691055	Screen-Rotating	• In	cluded in End	gine Gasket Set, Key. No. 358
74	691057	Screw (Rotating Screen)			buretor Overhaul Kit, Key. No.
75	691056	Washer (Flywheel)		21	
89	690283	Plug-Oil			buretor Gasket Set, Key. No.
95	690718	Screw (Throttle Valve)	91	77	•
98	499802	Kit-Idle Speed	+ In	cluded in Val	ve Gasket Set, Key. No. 1095
104		Ø Pin-Float Hinge	NA-	E. All +	nant dimensions store in 110
105 108	690985 690986	Ø Valve-Float Needle Valve-Choke	incha	E: All compo is 1 inch = 25	nent dimensions given in U.S.
100	555500	¥41¥0-010K0		5 1 11011 = 23	

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
363	691062	Flywheel Puller	842	691031 •	Seal-Dipstick/Tube
383	690966	Wrench-Spark Plug	847	499602	Dipstick/Tube Assembly
385	690960	Screw (Fuel Pump)	851	493880	Terminal-Sparkplug
387	808656	Pump-Fuel	855	691011	Adapter-Air
404	690442	Washer (Governor Crank)	865		Cover-Air Guide
405	690960	Screw (Back Plate)		691014	Cover-Air Guide
418	690999	Plate-Carburetor	868	691015 690968 •+	Cover-Air Guide
445 447	695667 691003	Filter-Air Cleaner Cartridge Screw (Air Guide Cover)	914		Screw (Rocker Cover)
	690960	Screw (Air Guide Cover)	918	694000	Hose-Vacuum
467	691008	Knob-Air Cleaner	929	695239	Screw (Choke Control
474	696458	Alternator			Bracket)
501	691185	Regulator	929A	691003	Screw (Choke Control
505	691029	Nut (Governor Control Lever)			Bracket)
510	497606	Drive-Starter	943	690589 •	Seal-O Ring (Oil Pump
513	692024	Clutch-Drive	- -	100000	Cover)
523	691036	Dipstick	947	499809	Solenoid-Fuel
524		Seal-Dipstick Tube	965	499613	Cover-Oil Pump Filter-Pre Cleaner
525 526	691037 690960	Tube-Dipstick Screw (Regulator)	967 968	272638 499788	Cover-Air Cleaner
520	090900	Armature-Starter	975	499810	Bowl-Float
544		(Service with 691262	977	499812	Gasket Set-Carburetor
		Starter Motor)	987	691000 ر	Seal-Throttle Shaft
552	690552	Bushing-Governor Crank		499603	Fan-Flywheel
552A	690553	Bushing-Governor Crank		690954	Nipple-Oil Filter
562	690311	Bolt (Governor Control Lever)		690770	Screen-Oil Pump
573	691009	Plate-Back		690103	Kit-Label
601	691038	Clamp-Hose			Gasket-Rocker Cover
615	690317	Retainer-Governor Shaft		499599	Cover-Rocker (Cylinder 1)
616 617	691045 691917	Crank-Governor Seal-O Bing (Intake Manifold)		A499600 499054	Cover-Rocker (Cylinder 2) Pump-Oil
628	690960	Seal-O Ring (Intake Manifold) Screw (Fuel Pump Bracket)		690981	Rod-Push (Steel)
633		Seal-Choke/Throttle Shaft		A690982	Rod-Push (Aluminum)
635	66538	Boot-Sparkplug		696854	Filter-Oil
654	690958	Nut (Carburetor)		690972	Arm-Rocker
668	691215	Spacer	1035	691042	Shaft-Pump
672	690234 ؇	Gasket-Carburetor Plate	1036	695704	Label-Emission
691		Seal-Governor Shaft		691265	Ring-Retaining
695	693149	Screw (Ring Gear)		274794	Owner's Manual
697	690372	Screw (Drive Cap)		691058	Screw (Flywheel Fan)
703	691010	Clip Dia Logating		691293	Retainer-Brush
718 726	690959 499612	Pin-Locating		694013 690973	Gasket Set-Valve Pivot-Rocker Arm
729	694123	Gear-Ring Clip-Wire		691183	Screw (Alternator)
741	690980	Gear-Timing		690987Ø ±	
742	690328	Retainer-E Ring			Retainer)
750	696999	Screw (Oil Pump Cover)	1124	690988Ø ‡	Seal-O Ring (Fuel Transfer
783	693058	Gear-Pinion			Tube)
788	691039	Bracket-Fuel Pump		690991	Screw (Fuel Transfer Tube)
789	695050	Harness-Wiring		690992	Screw (Float Bowl)
	696576	Hamess-Wiring			Screw (Carburetor Nozzle)
797	691029	Nut (Brush Retainer)	1165	693140	Screw (Carburetor Cover
797	A 693167 690967	Nut (Brush Retainer)	DDM	Settingention	Plate) v Speed: 1900-2100
801	691283	Screw (Rocker Arm) Cap-Drive	T UF IV	Journys.com	High Speed: 3000-3200
802	691286	Cap-End			
803		Housing-Starter	• Ine	cluded in Ena	ine Gasket Set, Key. No. 358
		(Service with 691262 Starter Motor)		cluded in Car	buretor Overhaul Kit, Key. No.
			‡ In		buretor Gasket Set, Key. No.

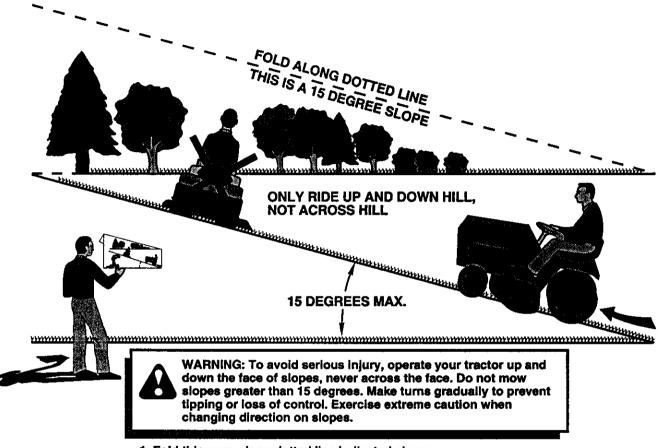
977 + Included in Valve Gasket Set, Key. No. 1095

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

SERVICE NOTES

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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