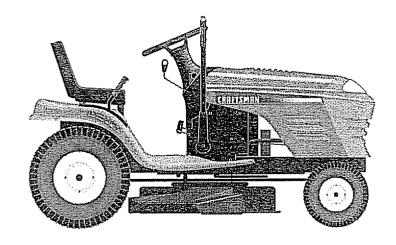
Owner's Manual

CRAFTSMAN®

17.5 HP
ELECTRIC START
42" MOWER
AUTOMATIC
LAWN TRACTOR

Model No. **917.271743**

- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts





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 Visit our Craftsman website:www.sears.com/craftsman

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WARRANDY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT PARTS 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 found to be defective in material or workmanship. Warranty service is available free of charge by returning your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts and oil filters.
- 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 the 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 thirty (30) days of its purchase date.
- Riding equipment used for commercial or rental purposes. A product is "used for commercial purpose" if is used for any purpose other than single family household dwellings or in usage where profit is made.

LIMITED 90 DAY 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. Warranty service is available free of charge by returning your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

TO LOCATE THE NEAREST SEARS SERVICE CENTER OR TO SCHEDULE IN-HOME WARRANTY SERVICE, SIMPLY CONTACT SEARS AT 1-800-4-MY-HOME

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

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

Sarenarules

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.

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 build-

up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

Slopes are a major factor related to loss-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.

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.











- 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.

SATERVARULES

- 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.

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.

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	1.25 GALLONS UNLEADED REGULAR
OILTYPE (API-SF-SJ):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC
GROUND SPEED (MPH):	PEVERSE: 2.4
TIRE PRESSURE	: FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 25 MIN. CCA: 190 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

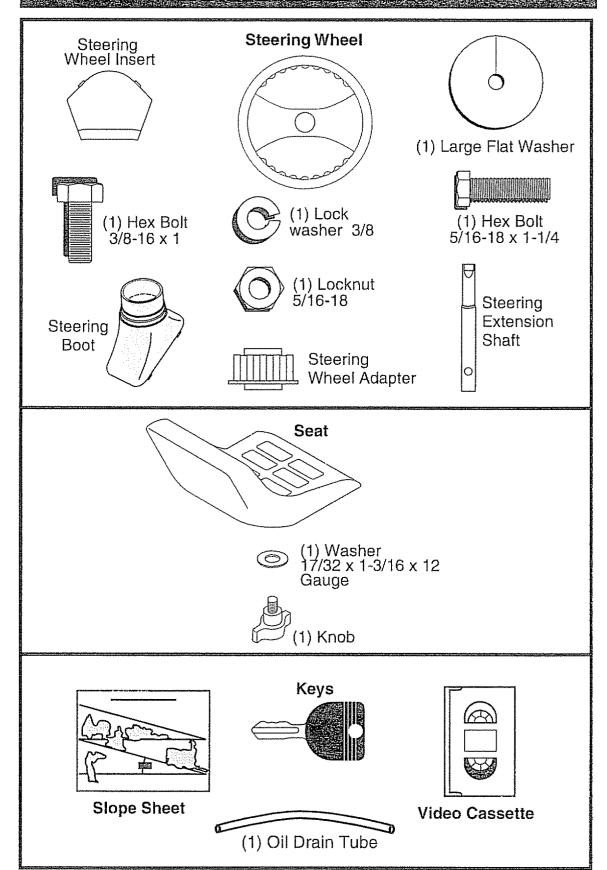
A Repair Agreement is available on this product. Contact your nearest Sears store for details.

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).

UNASSEMBLEDEVARIES



ASSEVERY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench
- (1) Pliers
- (2) 1/2" wrench
- (1) Utility knife
- (1) Tire pressure gauge

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

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

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

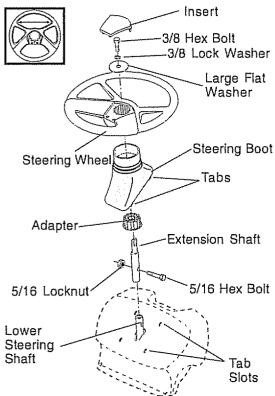
 Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

IMPORTANT: Tighten bolt and nut securely to 18-22 ft. lbs torque.

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

INSTALL STEERING WHEEL

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



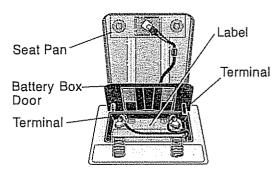
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- 7. Snap steering wheel insert into center of steering wheel.
- 8. Remove protective materials from tractor hood and grill.

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

HOW TO SET UP YOUR TRACTOR CHECK BATTERY

 Lift seat pan to raised position and open battery box door,

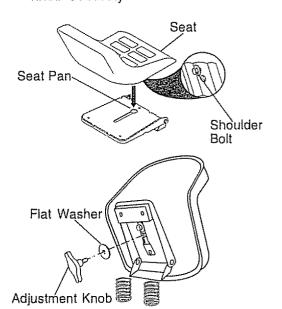
NOTE: If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

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



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

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

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

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

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

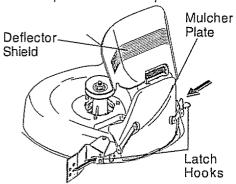
- 1. Be sure all the above assembly steps have been completed.
- 2. Check engine oil level and fill fuel tank with gasoline.
- 3. Place freewheel control in "transmission engaged" position.
- 4. Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever in neutral (N) position.
- 6. Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- Release parking brake.
- Slowly move the motion control lever forward and slowly drive tractor off skid.
- 10. Apply brake to stop tractor, set parking brake and place motion control lever in neutral position.
- 11. Turn ignition key to "OFF" position.
 Continue with the instructions that follow.

INSTALL MULCHER PLATE

(If previously removed)

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

ACAUTION: 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 mulcher 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

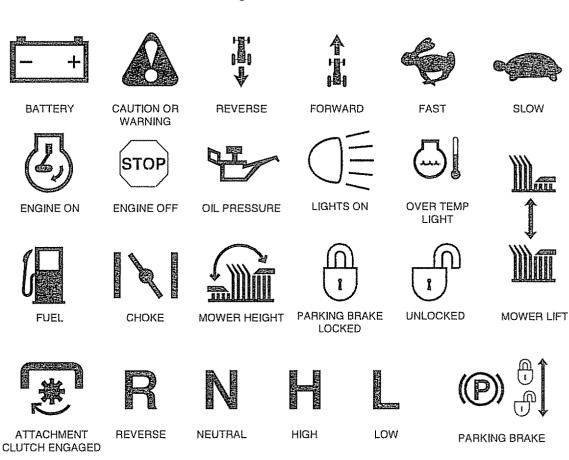
Before you operate and enjoy your new tractor, we wish to assure that you receive the best performance and satisfaction from this Quality Product.

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

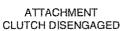
OBERVIERO

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





















EAR SLOPE HAZARDS (SEE SAFETY RULES SECTION)



DANGER, KEEP HANDS AND FEET AWAY



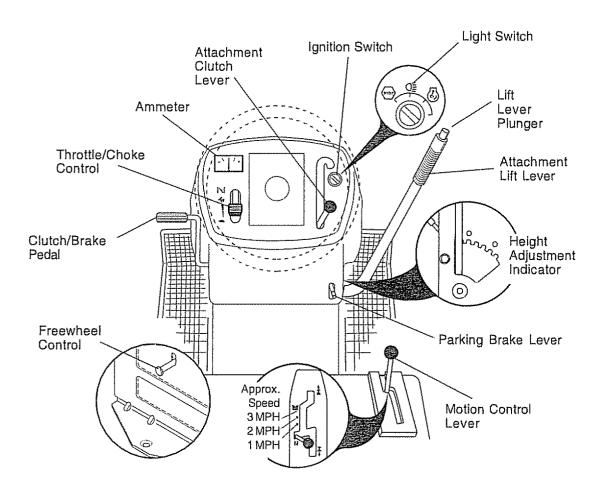


FREE WHEEL (Automatic Models only)

KNOW YOUR TRACTOR

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

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



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

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

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

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

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

IGNITION SWITCH - Used for starting and stopping the engine.

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

LIGHT SWITCH - Turns the headlights on and off.

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

THROTTLE/CHOKE CONTROL - Used for starting and controlling engine speed. FREEWHEEL CONTROL -

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

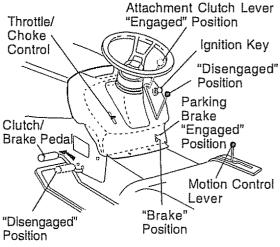


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

- 1. Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "EN-GAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.



STOPPING

MOWER BLADES -

 To stop mower blades, move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- To stop ground drive, depress clutch/ brake pedal into full "BRAKE" position.
- Move motion control lever to neutral (N) position.

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

ENGINE -

 Move throttle control to slow position.
 NOTE: Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" 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 "OFF" will cause the battery to be discharged, (dead).

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

ACAUTION: Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

TO USE THROTTLE CONTROL

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACK-WARD

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

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

TO ADJUST MOWER CUTTING HEIGHT

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

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

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

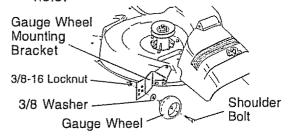
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first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

TO ADJUST GAUGE WHEELS

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

NOTE: Adjust gauge wheels with tractor on a flat level surface.

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



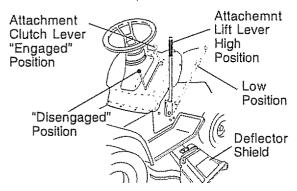
TO OPERATE MOWER

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

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

TO STOP MOWER BLADES - disengage attachment clutch control.

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

ACAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

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

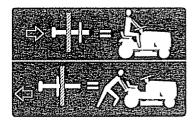
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

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

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

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



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

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

WARNING: Experience indicates that 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.

CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

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.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- 3. Place motion control lever in neutral (N) position.
- 4. Move attachment clutch to "DISEN-GAGED" position.
- 5. Move throttle control to choke position.

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

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

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

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

PURGE TRANSMISSION

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 freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine.
 After the engine is running, move
 throttle control to slow position. With
 motion control lever in neutral (N)
 position, slowly disengage clutch/
 brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

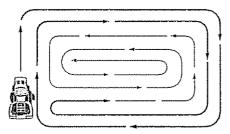
NOTE: During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- 5. Move motion control lever to neutral (N) position. Shut- off engine and set parking brake.
- Engage transmission by placing freewheel control in driving 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. With motion control lever in neutral (N) position, slowly disengage clutch/ brake pedal.
- 8. Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.

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

MOWING TIPS

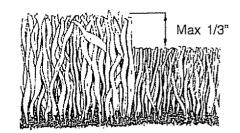
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to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



MAINTENAME

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	E	EFORE	EACHUS WERY 8	L HOURS	SHOUP SHOUP SHOUP	3 HOUP SHOUP VERY	S HOUSE	5 ASON FORE	SER	GE VICE	E DAT	TES
	Check Brake Operation	1	8/					N-SINKS INCOME.	ŀ		STATE ASSESSMENT		
	Check Tire Pressure	W	Com.	,		T		T					
Т	Check Operator Presence and Interlock Systems	V				***************************************							
R	Check for Loose Fasteners	V				B/7		8/					
A	Sharpen/Replace Mower Blades			6/4									
Ιř	Lubrication Chart			6/				0					
Ö	Check Battery Level		<u> </u>	1 5		<u> </u>		<u> </u>					
R	Clean Battery and Terminals			0/		L		0/	<u> </u>				
	Check Transaxle Cooling			8/									
	Adjust Blade Belt(s) Tension					6 5			<u> </u>				
	Adjust Motion Drive Belt(s) Tension					6 /5							
	Check Engine Oil Level	W/	6/						1	T			
	Change Engine Oil			1.2.3				8/					
E	Clean Air Filter			1/2									
Ν	Clean Air Screen			6 /2								***************************************	
Ģ	Inspect Muffler/Spark Arrester				8/								I
N	Replace Oil Filter (If equipped)					6/1.2							
E	Clean Engine Cooling Fins					2							
-	Replace Spark Plug					G.	3/					***************************************	
	Replace Air Filter Paper Cartridge					1/2						1	
	Replace Fuel Filter			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			8/						

- 1 Change more often when operating under a heavy load or in high ambient temperatures
- 2 Service more often when operating in dirty or dusty conditions.
- 3 If equipped with oil filter, change oil every 50 hours 4 - Replace blades more often when moving in sandy soil.
- 5 If equipped with adjustable system
 - 6 Not required if equipped with maintenance-free battery
 - 7 Tighten front axle pivot boll to 35 lt -lbs maximum Do not evertiables

GENERAL RECOMMENDATIONS

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

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

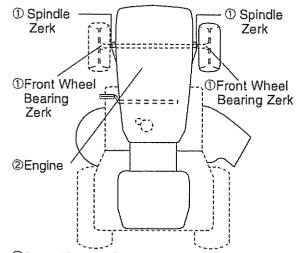
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 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.
- Check for loose fasteners.

LUBRICATION CHART



①General Purpose Grease

@Refer to Maintenance "ENGINE" section

IMPORTANT: Do not oil or grease the pivot points which have special nylon bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If tractor requires more than 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
- 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.

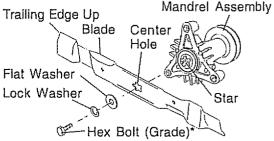
BLADE REMOVAL

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

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

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

IMPORTANT: Blade bolt is grade 8 heat treated.



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

TO SHARPEN BLADE

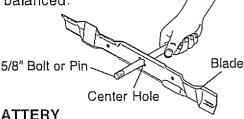
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

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

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

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



BATTERY

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

- Keep battery and terminals clean.
- · Keep battery bolts tight.
- · Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.
 NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers.
 Adding or checking level of electrolyte is not necessary.

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

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

V-BELTS

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

TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

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

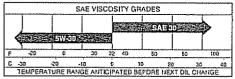
TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

ENGINE

LUBRICATION

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



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

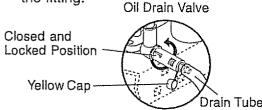
Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL

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

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



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

- 7. Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

CLEAN AIR SCREEN

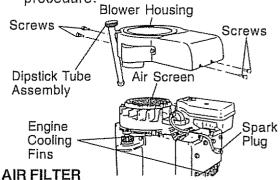
Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

ENGINE COOLING FINS

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating.

- 1. Remove screws from blower housing and lift housing and dipstick tube assembly off engine.
- 2. Cover oil fill opening to prevent entry of dirt.
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.

4. To reassemble, reverse above procedure.



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 knob(s) and cover.

TO SERVICE PRE-CLEANER

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

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

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

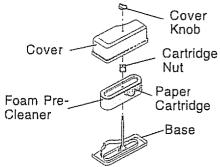
TO SERVICE CARTRIDGE

- 1. Remove cartridge nut.
- Carefully remove cartridge to prevent debris from entering carburetor.
 Clean base carefully to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface.

NOTE: If very dirty or damaged, replace cartridge.

4. Reinstall cartridge, nut, precleaner, cover and secure with knob(s).

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



MUFFLER

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

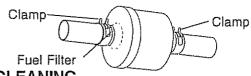
SPARK PLUGS

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

IN-LINE FUEL FILTER

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

A CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER

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

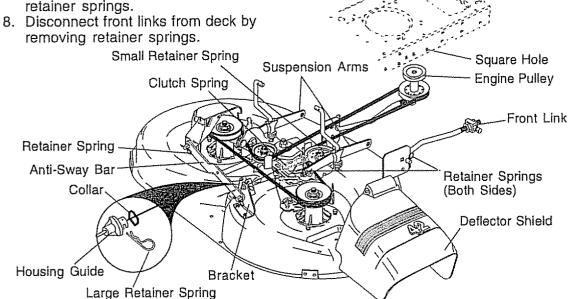
- 1. Place attachment clutch in "DISEN-GAGED" position.
- 2. Move attachment lift lever forward to lower mower to its lowest position.
- 3. Roll belt off engine pulley.
- 4. Remove small retainer spring, and lift clutch spring off pulley bolt.
- 5. Remove large retainer spring, slide collar off and push housing guide out of bracket.
- 6. Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- 7. Disconnect suspension arms from rear deck brackets by removing retainer springs.
- removing retainer springs.

9. Raise lift lever to raise suspension arms. Slide mower out from under tractor.

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

TO INSTALL MOWER

- 1. Raise attachment lift lever to its highest position.
- 2. Slide mower under tractor with deflector shield to right side of tractor.
- 3. Lower lift lever to its lowest position.
- 4. Install mower in reverse order of removal instructions.



TO LEVEL MOWER HOUSING

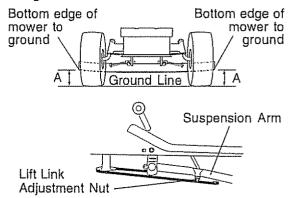
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT

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

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

Recheck measurements after adjusting.

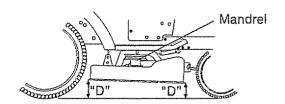


FRONT-TO-BACK ADJUSTMENT IMPORTANT: Deck must be level side-to side. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

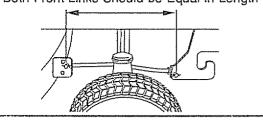
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

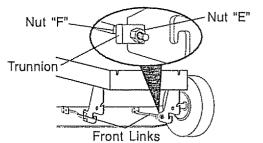
Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

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



Both Front Links Should be Equal in Length





TO REPLACE MOWER BLADE DRIVE BELT

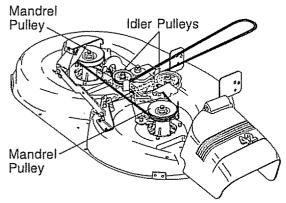
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

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

BELT INSTALLATION -

- Install new belt in reverse order of removal.
- 5. Make sure belt is in all pulley grooves and inside all belt guides.
- 6. Install mower in reverse order of removal instructions.



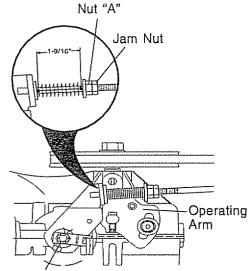
TO ADJUST BRAKE

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

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

- 1. Depress clutch/brake pedal and engage parking brake.
- 2. Measure distance between brake operating arm and nut "A" on brake rod.
- 3. If distance is other than 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".
- 4. 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"

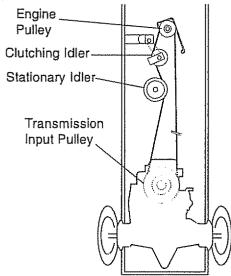


Do Not touch this nut. If further brake adjustment is necessary contact a Sears or other qualified service center.

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.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- 2. Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- 4. Pull belt toward front of tractor and remove downward from around engine pulley.
- 5. Install new belt by reversing above procedure.



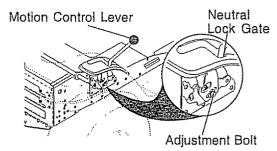
TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT

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

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

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

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



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 ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

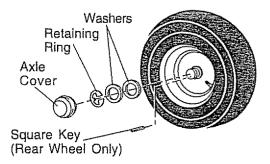
FRONT WHEEL TOE-IN/CAMBER

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

TO REMOVE WHEEL FOR REPAIRS

- 1. Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains 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, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.



TO START ENGINE WITH A WEAK BATTERY

⚠CAUTION: 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:

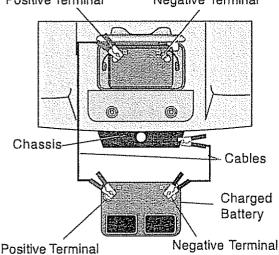
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehical must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable 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.
 Positive Terminal Negative Terminal

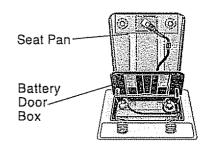


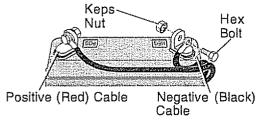
REPLACING BATTERY

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

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

- Lift seat pan to raised position and open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and carefully remove battery from tractor.
- 3. Install new battery with terminals in same position as old battery.
- 4. First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely.
- 5. Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.
- 6. Close battery box door.





TO REPLACE HEADLIGHT BULB

- 1. Raise hood.
- 2. Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- 4. Close hood.

INTERLOCKS AND RELAYS

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

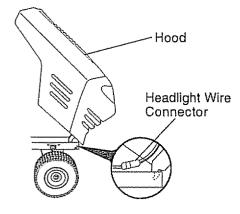
 Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 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. To replace, reverse above procedure.



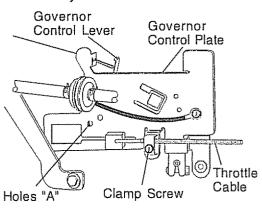
ENGINE

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:

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



TO ADJUST CARBURETOR

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

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

In general, turning idle mixture valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture. IMPORTANT: Damage to the needle valve and the seat in carburetor may result if screw is turned in too tight.

PRELIMINARY SETTING -

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

FINAL SETTING -

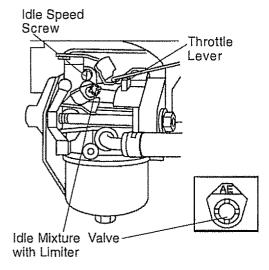
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- Move throttle control lever to slow position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750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

ACCELERATION TEST -

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

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

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact a Sears or other qualified service center, which has proper equipment and experience to make any necessary adjustments.



STOFACE

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.
- 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 deposites from forming in essential fuel system parts such as carburetor, fuel hose, or tank during storage. Also, experiance indicates that 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 and 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)

- 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	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug.
	5. Dirty air filter.6. Dirty fuel filter.7. Water in fuel.	 Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.
	8. Loose or damaged wiring.9. Carburetor out of adjustment.	in Service Adjustments section.
	10.Engine valves out of adjustment.	10.Contact a Sears or other qualified service center.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline.
		Check all wiring. See "To Adjust Carburetor" in Service Adjustments section.
	Engine valves out of adjustment.	Contact a Sears or other qualified service center.
Engine will not turn over	 Clutch/brake pedal not depressed Attachment clutch is engaged. 	 Depress clutch/brake pedal. Disengage attachment clutch.
	 Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. 	 Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or
	Faulty operator presence switch(es).	starter. 9. Contact a Sears or other qualified service center.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. 	Set in "Higher Cut" position/ reduce speed. Adjust throttle control.

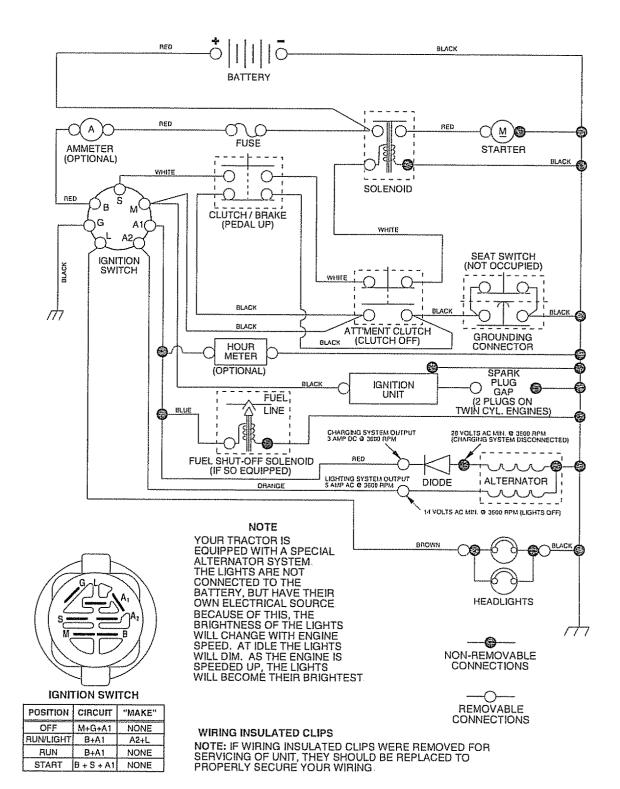
TROUBLESHOOTING CHART

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. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 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 fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact a Sears or other qualified service center.
Excessive vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	1. Replace blade. Tighten blade bolt. 2. Replace blade mandrel. 3. 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. Replace blade mandrel. Clean around mandrels to open vent holes.
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel.

TROUBLESHOOTING CHART

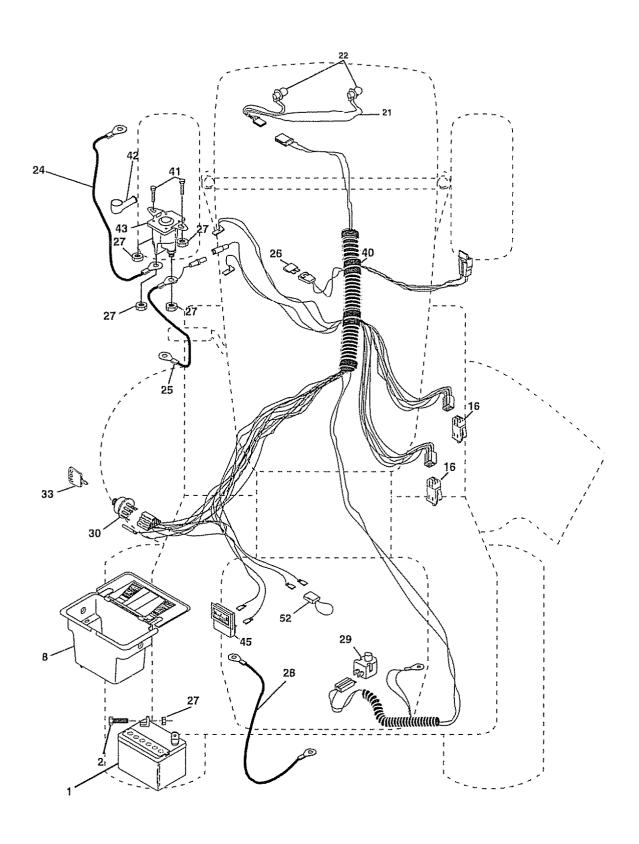
PROBLEM	CAUSE	CORRECTION
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck.
	 Low/uneven tire air pressure Worn, bent or loose blade. 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 	pressure. 6. Replace/sharpen blade. Tighten blade bolt.
	grass, leaves, and trash around mandrels.	opon vone noico.
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.

SCHEMATIC



TRACTOR -- MODEL NUMBER 917.271743

ELECTRICAL



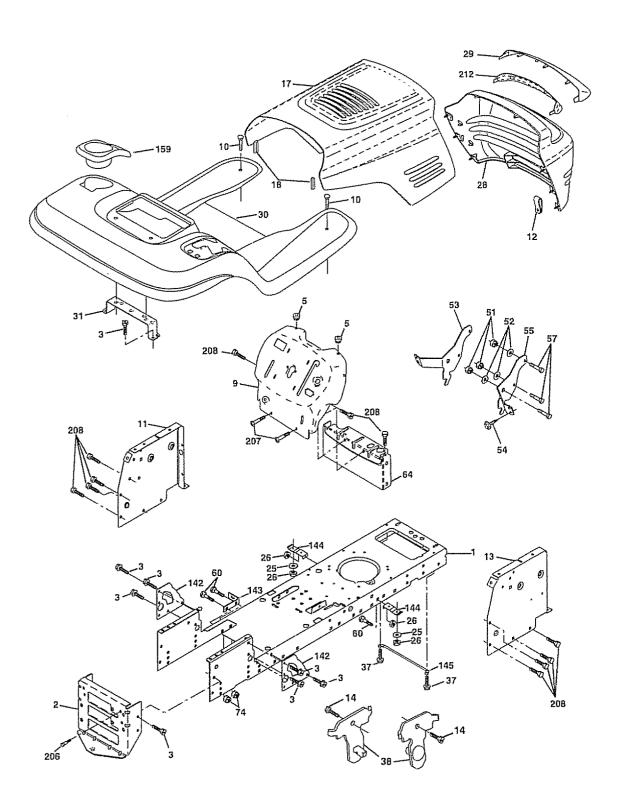
TRACTOR -- MODEL NUMBER 917.271743

ELECTRICAL

KFY	PART	
	NO.	DESCRIPTION
1	144925	Battery
2	74760412	Bolt, Hex Head 1/4-20 unc x 3/4
8	156417	Case, Battery Mech Hinge
16	153664	Switch, Ignition
21	17568B	Harness, Light Socket (Includes 4152J)
22		Bulb, Light
24	4799J	Cable, Battery, 6 Gauge, Red, 11"
25	146147	Cable, Battery, 6 Gauge, Red, W/16 Wire
	175158	Fuse, 20 Amp
	73510400	Nut Keps Hex1/4-20 Unc
28	4207J	Cable, Ground, 6 Gauge, Black, 12"
29	121305X	Switch, Plunger
30	175566	Switch, Ignition
33	140403	Key, Ignition
40	178437	Harness, Ignition
41	71110408	Bolt, Hex Head, Fin. 1/4-20 x 1/2
42	131563	Cover, Terminal, Red
43	178861	Solenoid
45	121433X	Ammeter Rectangular
52	141940	Protection Wire Loop

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

TRACTOR - - MODEL NUMBER 917.271743 CHASSIS AND ENCLOSURES

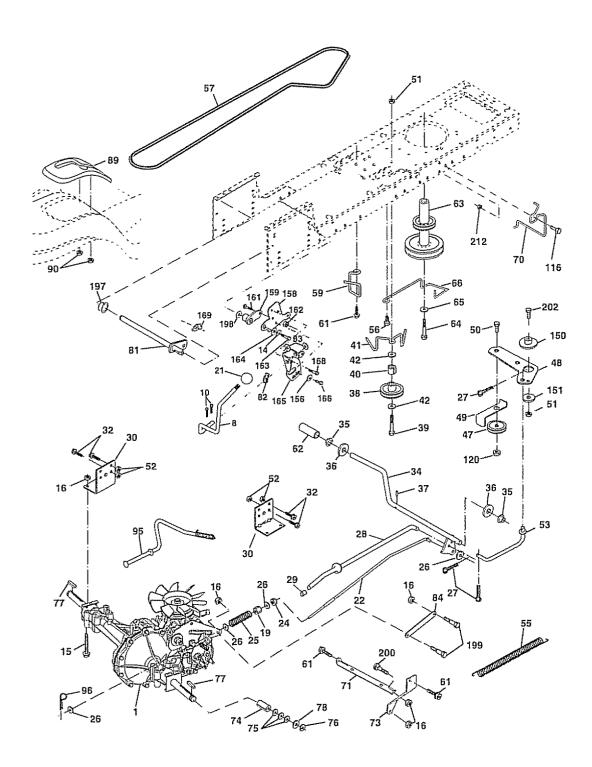


TRACTOR - - MODEL NUMBER 917.271743 CHASSIS AND ENCLOSURES

KEY	PART	
NO.	NO.	DESCRIPTION
1	174619	Chassis Stamping
2	176554	Drawbar
3	17060612	Screw 3/8-16 x 3/4
5	155272	Bumper Hood/Dash
9	168337X013	Dash
10	72140608	Bolt, Carriage 3/8-16 x 1
11	155927	Panel, Dash, L.H.
12	145660	Clip Tinnerman Grille P/L
13	172107X010	Panel, Dash, R.H.
14	174790608	Screw Thdrol 3/8-16 x 1/2
17	144983X558	Hood Assembly
18	126938X	Bumper Hood
25 26	19131312 STD541437	Washer 13/32 x 13/16 x 12 Gauge Nut
28	178987X558	Grille Lens Asm
29	155217X599	Lens, Grille
30	175692X558	Fend/Ftrest Pnt STLT
31	139976	Bracket, Fender Support
37	17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
38	175710	Bracket Asm. Pivot Mower Rear
51	73800400	Nut Lock w/Insert 1/4-20 UNC
52	19091416	Washer 9/32 x 7/8 x 16 Ga.
53	145201	Bracket Grille Pickoff LH
54	161464	Screw Hex Wshd 8-18 x 7/8
55	145202	Bracket Grille Pickoff RH
57	STD522507	Bolt, Fin Hex 1/4-20 UNC x 75
60	72140606	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64	154798	Dash Lower STLT
74	73680600	Nut Crownlock 3/8-16 UNC
142	165867	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	175582	Bracket Pnt Footrest STLT
145	156524	Rod Pivot Chassis/Hood
159	155123X428	Cupholder Bolt Shoulder 5/16 -18 TT
206 207	170165 17670508	Screw Thdrol 5/16-18 x 1/2 TYTT
207	17670608	Screw Thdrol 3/8-16 x 1/2
212	165919	Insert Lens Reflective
	5479J	Plug, Button
	J 17 00	, mg, nation

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

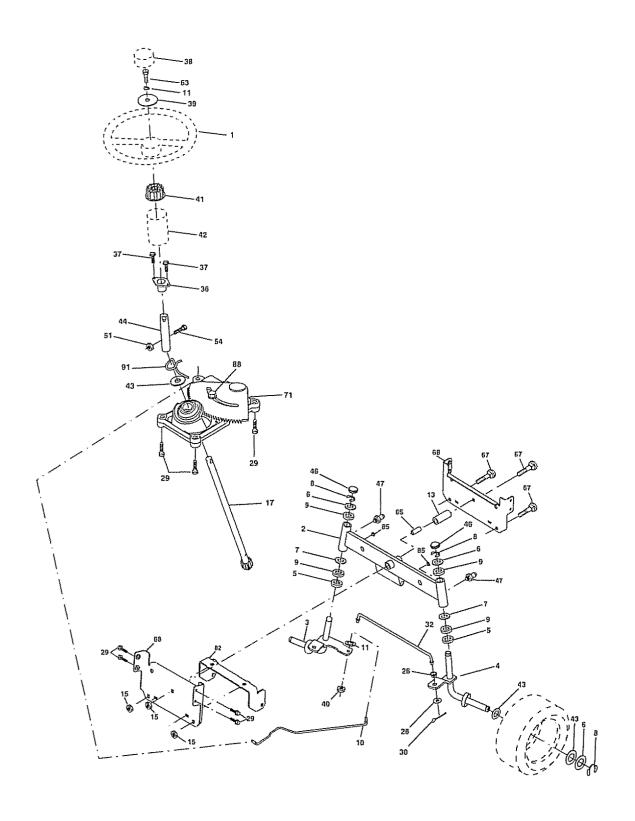
GROUND DRIVE



GROUND DRIVE

	PART			PART	
NO.	NO.	DESCRIPTION	NO.	NO,	DESCRIPTION
KEY NO. 1 8 10 14 15 16 19 21 22 24 25 26 27 28 29 30 32 34 35 36 37 38 39	PART NO. 165866 STD561210 10040400 74490544 STD541437 130564 169498 73350600 106888X STD551037 STD561210 175765 71673 169592 74760512 175578 120183X 19211616 1572H 165936 74760648	DESCRIPTION Transaxle (See Breakdown) Hydro Gr 314-0510 Rod Shift Fender Adjust Pin Cotter 1/8 x 1 CAD Washer Lock Hvy Helical Bolt Hex FlgHd 5/16-18 x Gr. 5 Nut Lock Hex W/Ins. 5/16-18 Unc Nut Lock Hex W/Wsh 3/8-16 Unc Knob, Deluxe 1/2-13 Rod, Brake Hydro Nut, Hex Jam 3/8-16 Unc Spring, Brake Rod Washer Pin Cotter 1/8 x 3/4 CAD. Rod, Parking Brake Cap, Parking Brake Bracket, Transaxle Bolt Hex Hd 5/16-18 Unc x 3/4 Shaft, Foot Pedal Bearing, Nylon Washer Pin, Roll Pulley, Composite, Flat Bolt	KEY NO. 65 66 77 73 74 75 76 77 78 81 82 83 84 89 90 95 96 1150 151 156 158	PART NO. STD551143 154778 134683 169183 169182 137057 121749X STD581075 123583X 121748X 165596 165711 19171216 169594 164890X428 124346X 170201 4497H 72140608 73900600 175456 19133210 166002 1665589	Washer Keeper Belt Engine Hydro Keeper Belt Engine Strap Torque Lh Hydro Strap Torque Rh Hydro Spacer, Split Washer 25/32 x 1-1/4 x 16 Ga. E-Ring Key, Square Washer 25/32 x 1-5/8 x 16 Ga. Shaft Asm Cross Tapered Spring Torsion Washer 17/32 x 3/4 x 16 Ga. Link Transaxle Console, Shift Nut Self-Thd Wsh-hd 1/4 Zinc Control Bypass Hydro 20" Tires Retainer Spring 1" Zinc/Cad Bolt Rdhd Sqneck 3/8-16 x 1 Nut Lock Flg. 3/8-16 Spacer Retainer Washer 13/32 x 2 x 10 Ga. Washer Srrted 5/16ID x 1.125 Bracket Shift Mount
39 40			158 159	165589 165494	Hub Tapered Flange Shift Lt
40 41	175461 175556	Spacer, Split Keeper, Belt Idler	161	72140406	Bolt Right Sqnk 1/4-20 x 3/4 Gr. 5
42	19131312	Washer 13/32 x 13/16 x 12 Ga.	162	73680400	Nut Crownlock 1/4-20 Unc
47	127783	Pulley, Idler, V-Groove	163	74780416	Bolt Hex Fin 1/4-20 Unc x 1 Gr. 5
48	154407	Bellcrank, Clutch	164	19091010	Washer 5/8 x .281 x 10 Ga
49 50	123205X STD523715	Retainer, Belt Bolt	165 166	165623 166880	Bracket Pivot Lever Screw 5/16-18 x 5/8
51	STD541437	Nut Crownlock 3/8-16 UNC	168	165492	Bolt Shoulder 5/16-18 x .561
52	STD541431	Nut, Crownlock 5/16-18 Unc	169	165580	Plate Fastening
53	105710X	Link, Clutch	197	169613	Nyliner Snap-In 5/8"ID
55 56	105709X 17060616	Spring, Return, Clutch Screw 3/8-16 x 1.0	198 199	169593 169612	Washer Nyl 7/8 ID x .105" Hyd Bolt Shoulder 5/16-18UNC
57	140294	V-Belt	200	72140508	Bolt Rdhd Sgnk 5/16-18UNC x 1
59	169691	Keeper, Center Span	202	72110614	Bolt Carr Sh 3/8-16 x 1-3/4 Gr 5
61	17060612	Screw . 3/8-16 x 3/4	212	145212	Nut Hex Flange Lock
62 63 64	8883R 175410 71170764	Cover, Pedal Pulley, Engine Bolt Hex 7/16-20 x 4 Gr. 5	NOT	E: All compone 1 inch = 25.4	ent dimensions given in U.S. inches 4 mm

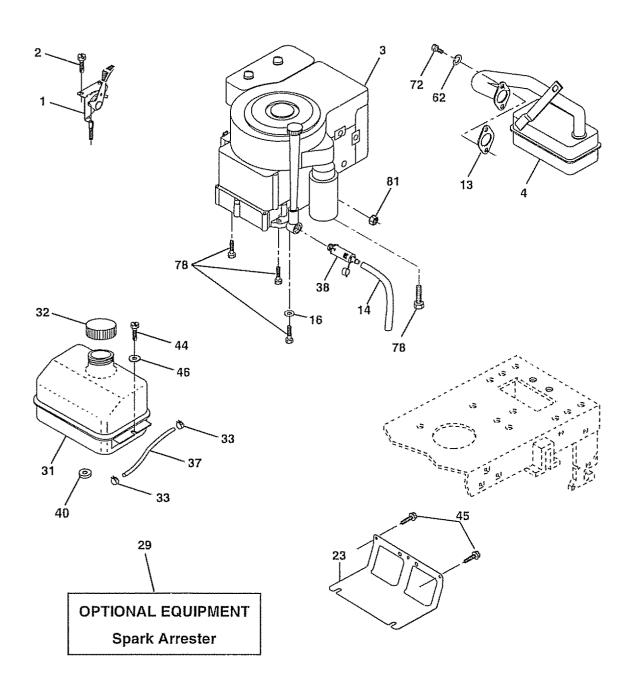
TRACTOR -- MODEL NUMBER 917.271743 STEERING ASSEMBLY



TRACTOR -- MODEL NUMBER 917.271743 STEERING ASSEMBLY

KEY	PART	
NO.	NO.	DESCRIPTION
1	139768	Steering Wheel
2	154427	Axle Assembly STMP Dropped STL
3	169840	Spindle Assembly, L.H.
4	169839	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8	12000029	Ring, Klip
9	3366R	Bearing, Steering Column
10	175121	Draglink
11	STD551137	Washer, Lock
13	136518	Spacer Brg Axle Front
15	145212	Nut, Hexflange Lock
17	177876	Shaft Assembly, Steering
26	126847X	Bushing, Link, Drag
28	19131416	Washer 13/32 x 7/8 x 16 Gauge
29	17060612	Screw 3/8-16 x 3/4
30	STD561210	Pin
32	130465	Rod, Tie
36	155099	Bushing, Steering
37	152927	Screw
38	139769	Cap, Steering Wheel
39	19133812	Washer 13/32 x 2-3/8 x 12 Gauge
40	STD541537	Nut Lock Center 3/8-24 UNF
41	100711L	Adaptor, Steering Wheel
42	145054x428	Boot, Steering Shaft
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
44	153720	Extension Shaft Steering LR.LT
46	121232X	Cap, Spindle
47	6855M	Fitting, Grease
51	STD541431	Nut Lock Hex w/Ins. 5/16-18 UNC
54	74780520	Boll Fin Hex 5/16-18 UNC x 1-1/4
63	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr 5
65	160367	Spacer Brace Axle
67	72140618	Bolt Rdhd Sqnk 3/8-16 Unc x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm.
82	169835	Bracket Susp Chassis Front
85	133835	Fastner Christmas Tree
88	175118	Bolt Shoulder
91	175553	Clip Steering

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

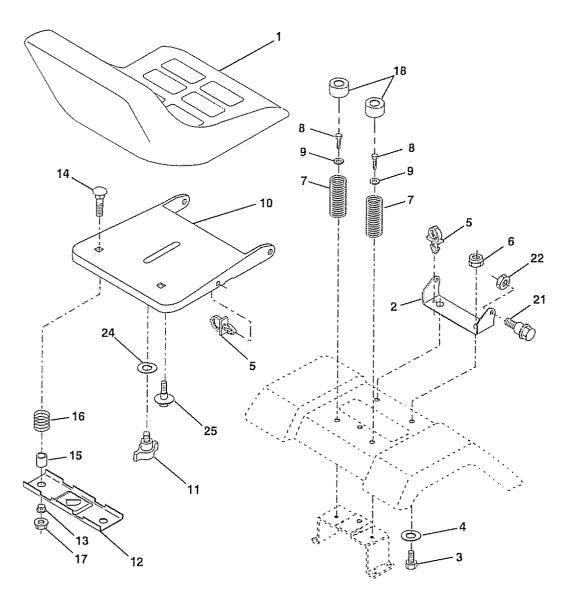


ENGINE

KEY	PART	
NO.	NO.	DESCRIPTION
1	170545	Control, Throttle
2	17720410	Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
3		Engine, (See Breakdown)
		Briggs Model No. 311707-0125-E1
4	137352	Muffler
13	165291	Gasket Kohler
14	148456	Tube Drain Oil Easy
16	STD551237	
23	169837	Shield Brn/Dbr Guard
29	137180	Arrestor, Spark
31	109202X	Tank, Fuel
32	158990	Cap Assembly, Fuel Sears, Vented
33	123487X	Clamp, Hose
37	137040	Line, Fuel
38	148315	Plug, Drain Oil Easy
40	124028X	Bushing, Snap, Fuel Line
44	17670412	Screw, Hex Washer Head, Thd., Roll. 1/4-20 x 3/4
45	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
46	19091416	Washer 9/32 x 7/8 x 16 Gauge
62	10040500	Washer Lock Hvy. Hlcl Spr. 5/16
72		Screw Hex Hd Cap 5/16-18 x 3/4
7B	17060620	Screw 3/8-16 x 1-1/4
81	73510400	Nut Keps Hex 1/4-20 Unc

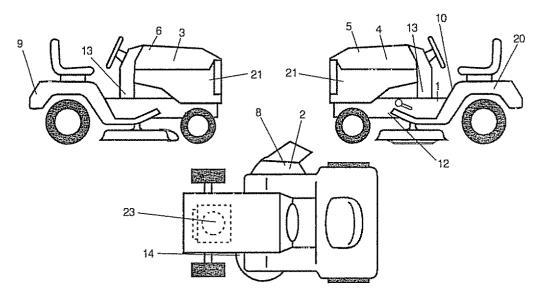
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

SEAT ASSEMBLY



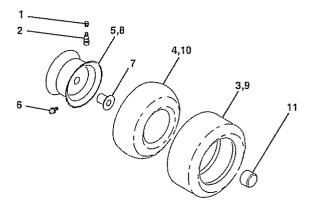
1 140123 Seat 13 121248X Bushing, Snap 2 140551 Bracket, Pivot, Seat 14 72050412 Bolt, Carriage 1/4-20 x 1-1/2 3 71110616 Bolt 15 134300 Spacer, Split .28 x .88 4 19131610 Washer 13/32 x 1 x 10 Gauge 16 121250X Spring 5 145006 Clip, Push-In Hinged 17 123976X Locknut, Flange 1/4 Grade 5 6 STD541437 Nut 21 171852 Bolt, Shoulder 5/16-18 UNC 7 124181X Spring, Seat 22 STD541431 Nut 8 17000616 Screw 3/8-16 x 1-1/2 24 19171912 Washer 17/32 x 1-3/16 x 12 Ga. 9 19131614 Washer 13/32 x 1 x 14 Gauge 25 127018X Bolt, Shoulder 5/16-18 x .62 10 174894 Pan, Seat NOTE: All component dimensions given in U.S. inches 11 166369 Knob Seat Note: All component dimensions given in U.S. inches 12 121246X Bracket, Switch Mounting 1 inch = 25.4 mm	KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
	2 3 4 5 6 7 8 9 10 11	140551 71110616 19131610 145006 STD541437 124181X 17000616 19131614 174894 166369	Bracket, Pivot, Seat Bolt Washer 13/32 x 1 x 10 Gauge Clip, Push-In Hinged Nut Spring, Seat Screw 3/8-16 x 1-1/2 Washer 13/32 x 1 x 14 Gauge Pan, Seat	14 15 16 17 21 22 24 25	72050412 134300 121250X 123976X 171852 STD541431 19171912 127018X E: All compone	Bolt, Carriage 1/4-20 x 1-1/2 Spacer, Split 28 x .88 Spring Locknut, Flange 1/4 Grade 5 Bolt, Shoulder 5/16-18 UNC Nut Washer 17/32 x 1-3/16 x 12 Ga. Bolt, Shoulder 5/16-18 x .62 Int dimensions given in U.S. inches

DECALS



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	156811	Decal, Oper, Instr.	13	177255	Decal, Dash Lower
2	179128	Decal, Deck B 42"	14	160396	Decal, V-Belt Schematic
3	171696	Decal, Hood, R.H.	20	149516	Decal, Battery Dngr/Psn Eng
4	171697	Decal, Hood, L.H.	21	177253	Decal, Hood Side
5	171761	Decal Hood Replacement	23	176680	Decal, Engine
6	133644	Decal, Customer Maintenance		138311	Decal, Lift Handle
8	172331	Decal, Deck Sears		165800X428	Pad Footrest LH STLT
9	163204	Decal, Fender, Craftsman		165799X428	Pad Footrest RH STLT
10	156439	Decal, Fender Danger		169210	Decal By Pass LT Hydro
12	146046	Decal, V-Belt Drive Schematic		178867	Owner's Manual, English
				178868	Owner's Manual, Spanish

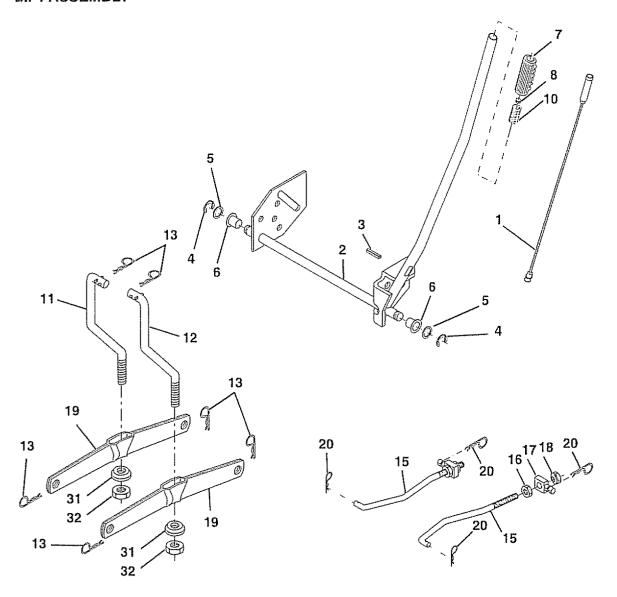
WHEELS & TIRES



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

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

LIFT ASSEMBLY

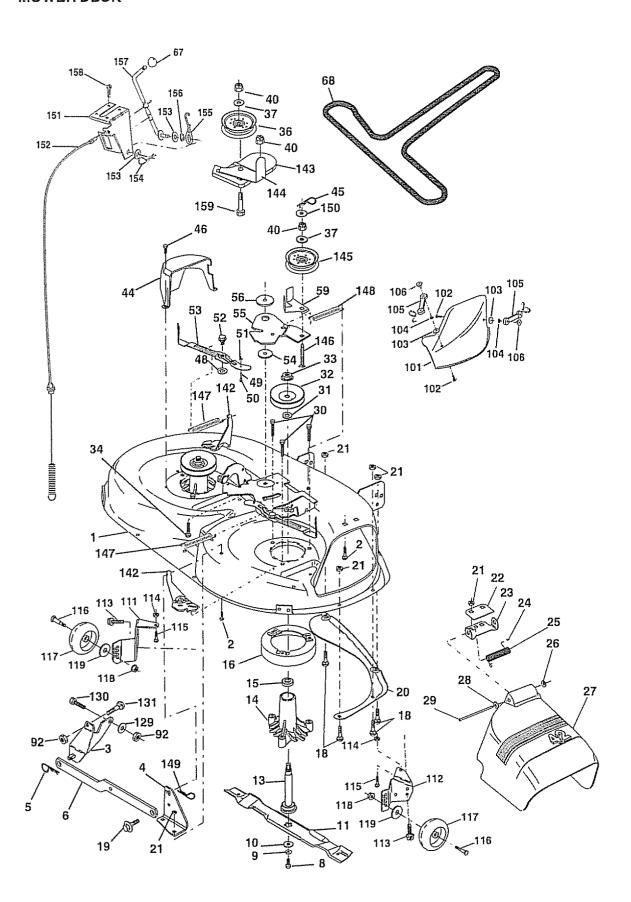


LIFTASSEMBLY

KEY	PART	
NO.	NO.	DESCRIPTION
1	159460	Lift Lever Inner Wire Assembly
2	159471	Shaft Assembly, Lift
3	105767X	Pin, Groove
4	12000002	E-Ring
3 4 5	19211621	Washer 21/32 x 1 x 21 Gauge
6	120183X	Bearing, Nylon
7	125631X	Grip, Handle, Fluted
8	122365X	Button, Plunger, Red
11	139865	Link, Lift, L.H.
12	139866	Link, Lift, R.H.
13	STD624008	Retainer Spring
15	173288	Link, Front
16	73350800	Nut, Hex, Jam 1/2-13 UNC
17	175689	Trunnion
18	73800800	Locknut, Hex, with Washer Insert 1/2-13 UNC
19	139868	Arm, Suspension, Rear
20	163552	Retainer Spring
31	169865	Bearing, Pvt, Lift
32	73540600	Nut, Crownlock 3/8-24

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

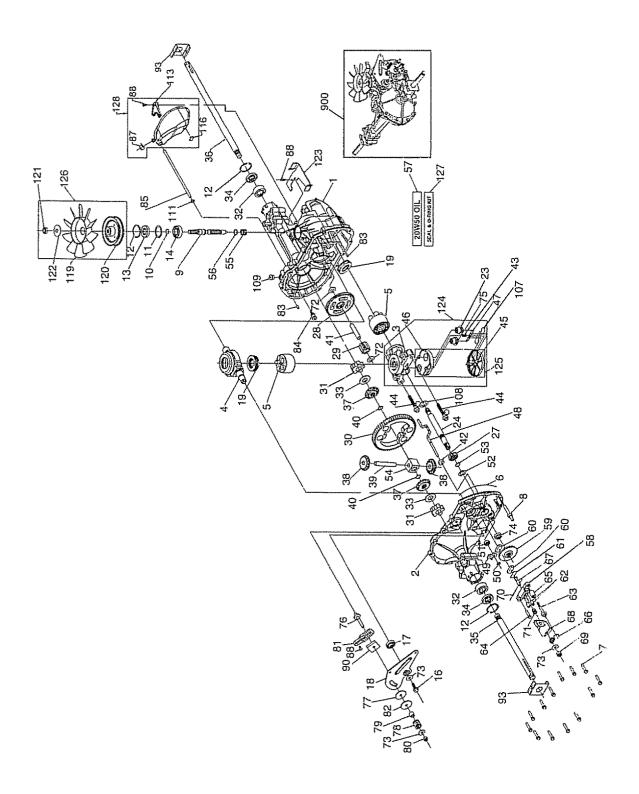
MOWER DECK



MOWER DECK

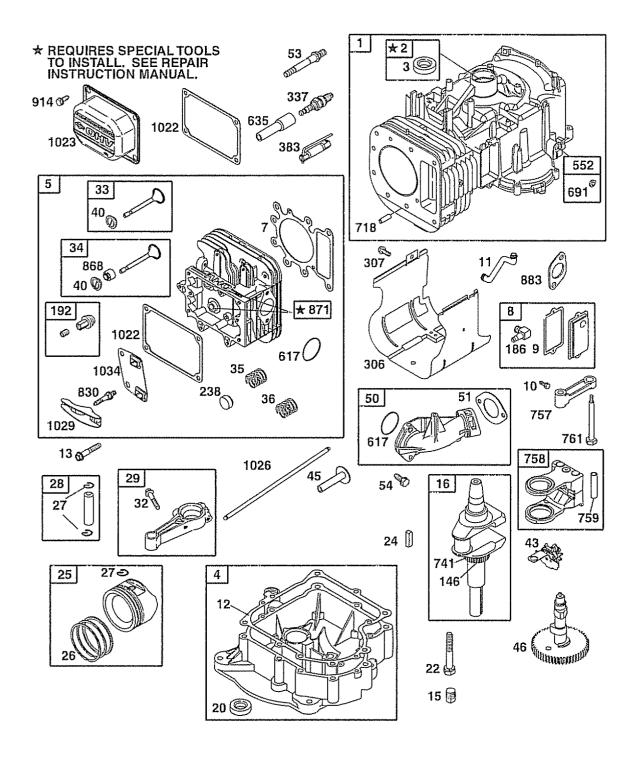
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3	165892 STD533107 138017	Mower Deck Assembly, 42" Bolt Bracket Assembly,Sway Bar, Front	59 67 68 92	141043 149846 144959 STD541437	Guard, TUV Idler Knob Custom Oval V-Belt Nut
4 5 6 8 9 10 11 13 14 15	165460 STD624008 130832 850857 STD551137 140296 134149 137645 128774 110485X	Bracket Sway Bar 38/42" Deck Retainer Spring Arm, Suspension, Rear Bolt, Hex 3/8-24 x 1.25 Gr. 8 Washer, Lock Washer, Hardened Blade, Mulching Shaft Assembly, Mandrel, Vented Housing, Mandrel, Vented Bearing, Ball. Mandrel	101 102 103 104 105 106 111 112 113 114 115	136420 71081010 19061216 STD551110 160793 2029J 174925 174926 17060512 STD541431 72110504	Mulcher Cover Screw Pan Hd Phil 10-24 x 5/8 Washer #10 Washer, Lock Latch Assembly, Bagger Nut, Weld Bracket, Gauge, Wheel L.H. Bracket, Gauge, Wheel R.H. Screw 5/16-18 Nut, Hex, Keps 5/16-18 UNC Bolt, Carriage 5/16 UNC x 1/2
16 18 19 20 21 22	174493 72140505 132827 159770 STD541431 134753	Stripper, Mower Deck Bolt, Carriage 5/16-18 x 5/8 Bolt, Shoulder Baffle, Vortex Nut Crownlock 5/16-18 UNC Stiffener Bracket	116 117 118 119 129	4898H 165746 73930600 STD551037 19131312	Bolt, Shoulder Wheel, Gauge Nut, Centerlock 3/8-16 Washer 3/8 x 7/8 x 14 Gauge Washer 13/32 x 13/16 x 12 Ga
23 24 25 26 27	131267 105304X 123713X 110452X 130968X428		130 131 142 143 144	STD523710 STD533710 165890 157109 158634	Bolt, Fin Hex 3/8-16 UNC x 1 Gr. 5 Bolt, Rdhd Sqnk 3/8-16UNC x 1 Arm Spring Brake Mower Bracket Arm Idler 42" Keeper Belt 42" Clutch Cable
28 29 30 31 32	19111016 131491 157722 129963 153535	Washer 11/32 x 5/8 x 16 Ga. Rod, Hinge Screw Thdrol Washer Head Washer, Spacer Pulley, Mandrel	145 146 147 148 149	165888 171977 131335 169022 165898	Pulley Idler Flat Bolt Carriage Idler Spring Extension Spring Return Idler Retainer Spring Yellow Zinc
33 34 36 37 40 44	178342 STD533717 131494 STD551037 STD541437 140088	Nut, Toplock, Flanged Bolt Pulley, Idler, Flat Washer 13/32 x 13/16 x 16 Gauge Nut Crownlock 3/8-16 UNC Guard, Mandrel, L.H.	150 151 152 153 154 155	19091216 169670 169676 169674 169675 169671	Washer 9/32 x 3/4 x 16 Ga. Bracket Clutch Cable Clutch 42 In Washer Flat 3/8" Type B Spring Retainer Spring Retention Lever
45 46 48 49 50 51	STD624003 137729 133944 174284 131340 STD541410	Retainer Screw, Thd. Roll 1/4-20 x 5/8 Washer, Hardened Roller Assembly, Cam Follower Bolt, Shoulder #10-24 Grade 5 Locknut	156 157 158 159	169672 169669 17720410 72140614 130794	Spacer Rod Clutch Screw Hex Thd Cut 1/4-20 x 5/8 Bolt Rdhd Sqn 3/8-16 UNC x 1-3/4 Mandrel Assembly (Includes housing, shaft and shaft hardware
52 53 54 55 56	139888 131845 133943 155046 165723	Bolt, Shoulder 5/16-18 UNC Arm Assembly, Pad, Brake Washer, Hardened Arm, Idler Spacer, Retainer	NOT	169583 E: All compor 1 inch = 25	only-pulley not included) Replacement Mower , Complete lent dimensions given in U.S.inches

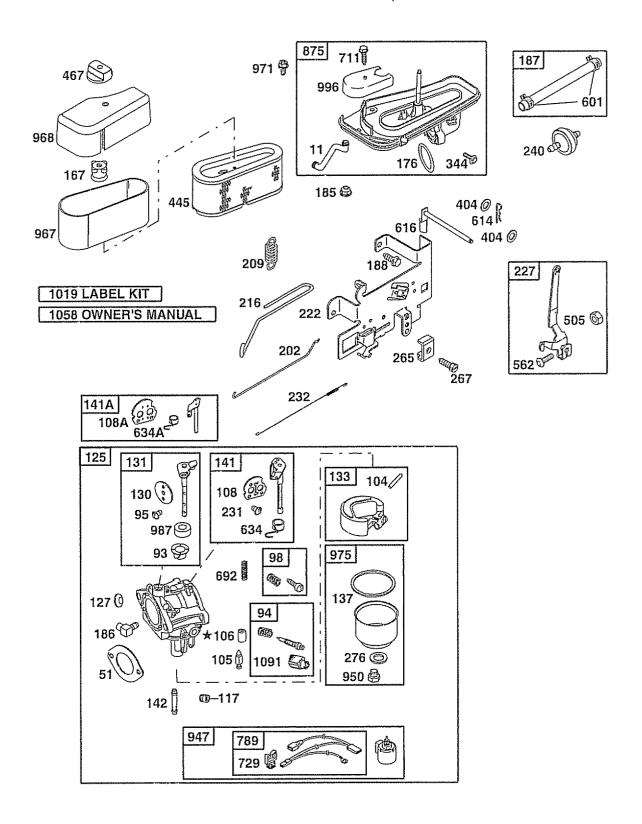
TRACTOR -- MODEL NUMBER 917.271743 HYDRO GEAR TRANSAXLE -- MODEL NUMBER 314-0510

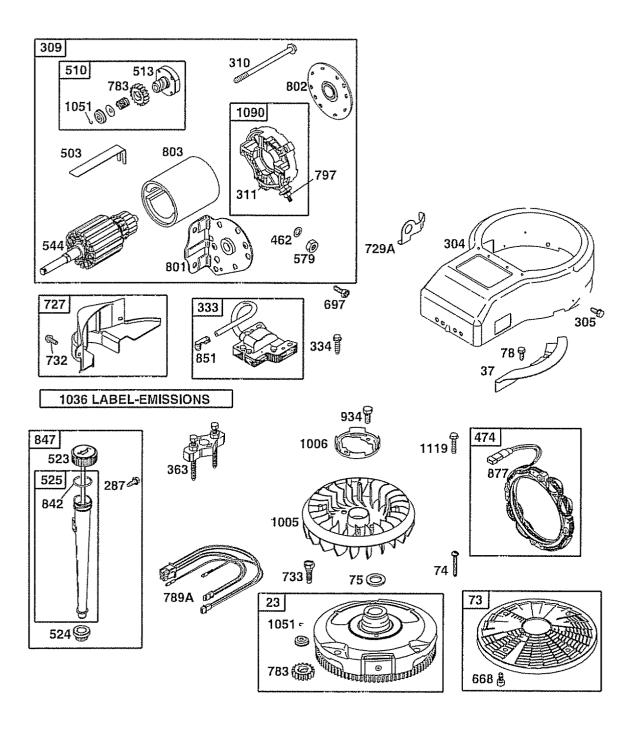


TRACTOR -- MODEL NUMBER 917.271743 HYDRO GEAR TRANSAXLE -- MODEL NUMBER 314-0510

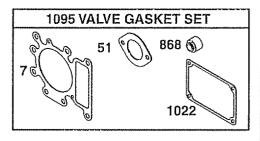
		II MANOAXEE WINDELL N		LIL 017-0	310
KEY	PART			PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	170351	Main Housing, Assembly	59	170408	Rotor, Brake
, ,			60	142883	Brake Puck
2 3	170352	Side Housing, Assembly	61	142882	Puck Plate
3	170353	Center Section, Assembly	62	142887	
4	170354	Swashplate, Trunion Machined			Brake Actuating Pin
5	169898	Block - Assembly	63	170410	Hfhcs 1/4-20x2 W/
6	170355	Sealant 10.5 Oz			Patch,SpecialFlange
7	170356	Hex Flange Screw 1/4-20 X 1.25	64	142892	Bolt, 1/4-20 X 1 W/Patch
8	170357	Stud, 5/16-24 Hex Double End	65	170411	Spacer
0			66	170412	Spring, Brake Arm Bias
9	170358	Shaft, Input	67	170413	Sq. Hd. Bolt 5/16-24-Ribbed
10	170359	Ring - Retaining	68	170414	
11	170360	Spacer			Arm, Brake
12	169870	Ring - Retaining	69	170415	Slotted Hex Nut 5/16-24
13	170361	Seal, Lip .67 X 1.58 X .276	70	170416	Cotter Pin 3/32 X 3/4
14	169869	Ball Brg 17mm ld X 40mm Od X	71	170417	Compression Spring Brake
• •	100000	12mm			Anti-Drag
16	170362		72	170418	Washer, Ht. 5 I.D. X 1 O.D. X
10	170302	Hex Flange Head Screw 5/16-			.032
		24X0.75	73	142884	Flat - Washer 11/32 LD. X 7/8
17	170363	Lip Seal 18 X 32 X 7	10	142004	O.D
18	170364	Arm, Control		4000440	
19	150771	Bearing, 30x52x13 Thrust	74	170419	Oil Seal .625 X 1.0 X .25
23	170365	Check Plug Assembly, Washer	75	170420	Check Plug Assembly, .027,
24	170366	Shaft, Motor			Washer
27	170367		76	170421	Stud, 5/16-24 Friction Pack
		Gear - Pinion, 13t	77	170422	Puck, .330 X 1.50 X .0975
28	170368	10t/48t Gear	78	142969	Spring, Helical Comp
29	170369	Gear, 10t Jackshaft	79	142980	
30	170370	60t Bull Gear			Spacer
31	170371	Sleeve Bearing .75 X 1.575 X	80	150778	Hex Lock Nut 5/16-
		.625			24Unjf(Nylon Insert)
32	170389	SleeveBearing(Outboard)	81	170423	Wedge, Friction Pack
01		.75x1.750x.625	82	170424	Clip, Washer .316x1.50x.1046
22	140001				(Plated)
33	142991	Washer, 3/4 ld X 1-1/2 Od X	83	161168	Pin, Standard Headless
		.13 Thk	84	170425	Fitting, 5/16 Sae 5/32 Tube
34	170390	Lip Seal Axle Seal	85		
35	170391	Shaft, Axle 75 X 11 39 (Key,		170426	Hose, Expansion Tank
		R.H.)	87	142917	Cap - Poppet Valve
36	170392	Shaft, Axle .75 X 16.99 (Key,	88	170429	Bolt, Self Tapping 10-32 X 1/2
		L.H.)	90	170430	Puck, Inner Wedge
37	150792	Miter Gear (Splined)	93	170431	Spring Clip - Housing Thrust
38	150793	Miter Coor 15t (0 5 M)	107	170432	Deflector
		Miter Gear 15t (0.5 ld)	108	170433	Washer, Motor Shaft
39	150809	Shaft		110.00	.71idx1.15odx.030thk
40	170393	Ring, Spiral Retaining	109	170434	
41	170394	Pin, Jackshaft			Plug, Sae #6
42	170395	Magnet, Ring	111	170435	O-Ring .07 X .301 LD.
43	170396	Spring, Bypass	113	170437	Bracket, Support Expansion
44	150797	Hydro Mtg Screw 3/8-24 X 2.5			Tank
' '	100101	Long	116	170438	Silicon Sponge
45	170207	Filter	119	170439	Fan, 7 In.
	170397		120	170440	Pulley
46	170398	Base, Filler	121	170441	Hex Lock Nut 1/2-20 (Nylon
47	170399	Actuator, Bypass	161	110441	
48	170400	Rod, Bypass Actuator	400	4777447	Insert)
49	170401	Arm, Bypass	122	170442	Washer, Belleville
50	170402	Retaining Ring .250 External	123	170443	Belt Keeper
51	170403	Seal, Lip 741 X 250 X 250 Tc	124	170444	Center Section-Filter-Bypass
52	170404	Flat Washer, 5/8 ld X 1.0 Od X			Assembly
JE	110404		125	170445	Filter Assembly
	170 *07	.05 Thk	126	170446	Fan - Pulley Service Assembly
53	170405	Retaining Ring	127	170447	Seal - O-Ring Kit
54	170406	Bearing, Center Block			3
55	142977	Spring - Helical Compression	128	173165	Kit. Expansion Tank
56	142978	Washer	900	166768	Transaxle Complete
57	150798	20w-50 Oil			
58	170407	Brake Yoke	NOT	E: All compo	nent dimensions given in U.S. inches
~-		many area of the 1 Springer		1 inch = 25	4 mm

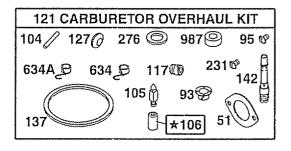


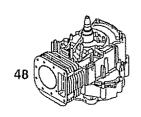


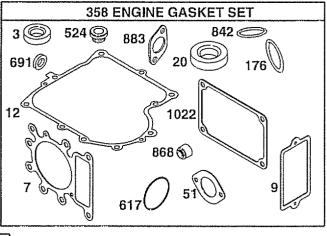




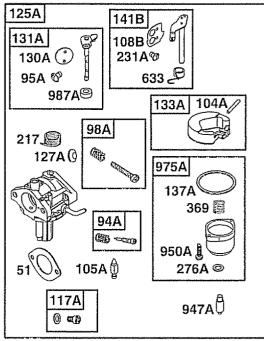


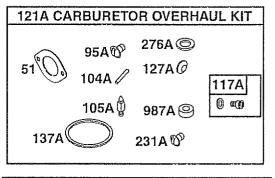


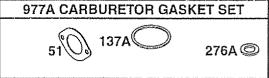




NIKKI

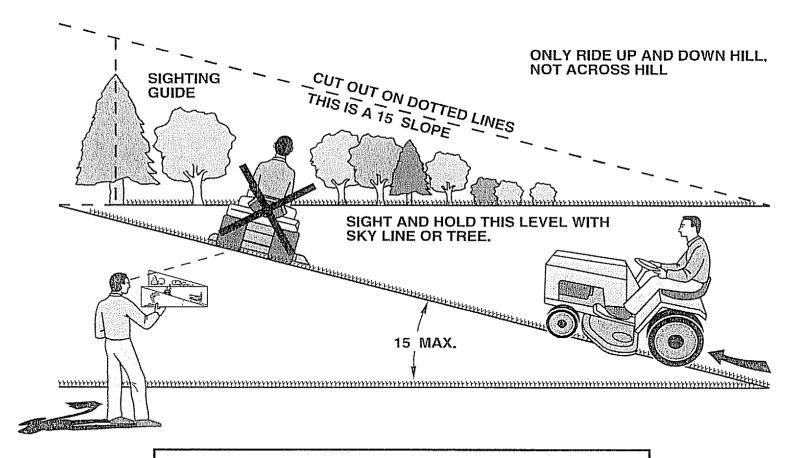






NO. DESCRIPTION NO. NO. DESCRIPTION 1 690156 Cylinder Assembly 106 690577 Ø Seat-Inlet 2 399265 Kit-Bushing/Seal 108 690464 Valve-Choke (Manual Chok 3 391086 • Seal-Oil (Magneto Side) 108A 692344 Valve-Choke (Choke-A-Matic 4 494238 Sump-Engine 108B 695419 Valve-Choke(Nikki Carburete 5 690188 Head-Cylinder 117 692408 Ø Jet-Main (Standard) 692410 •+ Gasket-Cylinder Head 692411 Jet-Main (High Altitude) 8 696126 Breather Assembly 117A 695415 Ø Jet-Main (Standard) 9 27803 • Gasket-Breather 695416 Ø Jet-Main (High Altitude)	၁) ၂
2 399265 Kít-Bushing/Seal 108 690464 Valve-Choke (Manual Chok 3 391086 • Seal-Oil (Magneto Side) 108A 692344 Valve-Choke(Choke-A-Matic 4 494238 Sump-Engine 108B 695419 Valve-Choke(Nikki Carburete 5 690188 Head-Cylinder 117 692408 Ø Jet-Main (Standard) 7 692410 •+ Gasket-Cylinder Head 692411 Jet-Main (High Altitude) 8 696126 Breather Assembly 117A 695415 Ø Jet-Main (Standard)	၁) ်
4 494238 Sump-Engine 108B 695419 Valve-Choke(Nikki Carburete 5 690188 Head-Cylinder 117 692408 Ø Jet-Main (Standard) 692410 •+ Gasket-Cylinder Head 692411 Jet-Main (High Altitude) 8 696126 Breather Assembly 117A 695415 Ø Jet-Main (Standard)	
5 690188 Head-Cylinder 117 692408 Ø Jet-Main (Ståndard) 7 692410 •+ Gasket-Cylinder Head 692411 Jet-Main (High Altitude) 8 696126 Breather Assembly 117A 695415 Ø Jet-Main (Standard)	or)
8 696126 Breather Assembly 117A 695415 Ø Jet-Main (Standard)	
8 696126 Breather Assembly 117A 695415 Ø Jet-Main (Standard)	
9 27803 • Gasket-Breather 695416 Ø Jet-Main (High Alfitude)	
10 691666 Screw (Breather Assembly) 121 690191 Kit-Carburetor Overhaul	
11 691328 Tube-Breather 121A 695427 Kit-Carburetor Overhaul	
12 692226 • Gasket-Crankcase (.015 125 690194 Carburetor	
Thick, Std) 125A Carburetor (Nikki) (Service	
692406 • Gasket-Crankcase (.005 with Walbro Carburetor) Thick) 127 695005 Ø Plug-Welch	
692405 • Gasket-Crankcase (.009 127A 690727 Ø Plug-Welch	
Thick) 130 691750 Valve-Throttle	
13 690360 Screw (Cylinder Head) 130A 695418 Valve-Throttle 15 690946 Plug-Oil Drain 131 494379 Kit-Throttle Shaft	
16 690136 Crankshaft 131A 695421 Kit-Throttle Shaft	
20 291675 • Seal-Oil 133 494381 Float-Carburetor	
22 692125 Screw (Crankcase Cover) 133A 694914 Float-Carburetor 23 693557 Flywheel 137 281165 ؇ Gasket-Float Bowl	
24 222698 Key-Flywheel 137A 695426 ؇ Gasket-Float Bowl	
25 692271 Piston Assembly (Standard) 141 495097 Kit-Choke Shaft (Manual	
692272 Piston Assembly (.010 O.S.) Choke) 692273 Piston Assembly (.020 O.S.) 141A 495931 Kit-Choke Shaft (Choke-A-	
692274 Piston Assembly (.030 O.S.) Matic)	
26 690162 Ring Set-Piston (Standard) 141B 695420 Kit-Choke Shaft (Nikki)	
692164 Ring Set-Piston (010 O.S.) 142 692412 Ø Nozzle-Carburetor 692166 Ring Set-Piston (020 O.S.) 146 691639 Key-Timing	
692166 Ring Set-Piston (.020 O.S.) 146 691639 Key-Timing 692168 Ring Set-Piston (.030 O.S.) 167 692297 Air Cleaner Stud Seal	
27 691299 Lock-Piston Pin 176 691917 • O-Ring Seal (Air Cleaner)	
28 498319 Pin-Piston (Standard) 185 690958 Nut (Air Cleaner Base)	
498320 Pin-Piston (.020 O.S.) 186 692317 Connector-Hose 29 692419 Rod-Connecting (Standard) 187 691050 Line-Fuel (Cut to Required	
692420 Rod-Connecting (.020 U.S.) Length)	
32 692852 Screw (Connecting Rod) 188 691693 Screw (Control Bracket)	
33 495856 Valve-Exhaust 192 691986 Adjuster-Rocker Arm 34 495857 Valve-Intake 202 691841 Link-Mechanical Governor	
35 691279 Spring-Valve (Intake) 209 692208 Spring-Governor	
36 691279 Spring-Valve (Exhaust) 216 691840 Link-Čhoke 37 690456 Guard-Flywheel 217 695409 Spring-Choke Return	
37 690456 Guard-Flywheel 217 695409 Spring-Choke Return 40 691752 Retainer-Valve 222 694042 Bracket-Control	
43 691968 Slinger-Governor/Oil 227 691374 Control Lever-Governor	
45 690564 Tappet-Valve 231 691636 Ø Screw (Choke Valve)	
46 692421 Camshaft 231A 690718 Ø Screw (Choke Valve) 48 692706 Short Block (311707-0028- 232 691842 Spring-Governor Link	
E1 Replacement Engine) 238 691843 Cap-Valve	
50 690193 Manifold-Intake 240 394358 Filter-Fuel	
51 692137• ؇+ Gasket-Intake 265 691024 Clamp-Casing 53 690227 Stud (Carburetor) 267 695134 Screw (Casing Clamp)	
54 691148 Screw (Intake Manifold) 276 692255 ؇ Sealing Washer	
73 494439 Screen-Rotating 276A 695410 ؇ Sealing Washer	
74 691057 Screw (Rotating Screen) 287 691002 Screw (Dipstick Tube) 75 690582 Washer (Flywheel) 304 691399 Housing-Blower	
78 690661 Screw (Flywheel Guard) RPM Settings: Low Speed: 1900-2100	
93 690602 Ø Bushing-Throttle Shaft High Speed: 3000-3200	
94 498030 Kit-Idle Mixture • Included in Engine Gasket Set, Key. No. 94A 695425 Kit-Idle Mixture 358	
95 691636 Ø Screw (Throttle Valve) Ø Included in Carburetor Overhaul Kit, Key	<i>i</i> .
95A 690718 Ø Screw (Throttle Valve) No. 121and121A	
98 495800 Kit-Idle Speed ‡ Included in Carburetor Gasket Set, Key. 98A 695408 Kit-Idle Speed No. 977 and 977A	
104 690525 Ø Pin-Float Hinge + Included in Valve Gasket Set, Key. No.	
104A 69491B Ø Pin-Float Hinge 1095 105 231855 Ø Valve-Float Needle NOTE: All component dimensions given in U.S	
105 231855 Ø Valve-Float Needle NOTE: All component dimensions given in U.S 105A 694922 Ø Valve-Float Needle inches 1 inche 25.4 mm	Fs.

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





Operate your Tractor up and down the face of slopes (not greater than 15), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

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