Owner's Manual

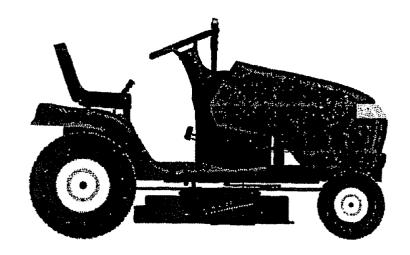
CRAFTSMAN®

25.0 HP ELECTRIC START 46" MOWER AUTOMATIC LAWN TRACTOR

Model No. **917.272201**



- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts





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

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, IL 60179 Visit our Craftsman website: www.sears.com/craftsman

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WARRANTY

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 taking 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.

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 taking 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

SAFETY RULES

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

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.

SLOPE OPERATION

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

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,

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.

SAFETY RULES

- 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.

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.
- 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.

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SAFETY RULES

ALook for this symbol to point out important safety precautions. It means CAUTIONIII BECOME AWAREIII YOUR SAFETY IS INVOLVED.

ACAUTION: 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.

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

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

AWARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	W/FILTER: 4.0 PINTS W/OFILTER: 3.75 PINTS
SPARK PLUG: (GAP: .040")	CHAMPION RC12YC
VALVE CLEARANCE:	INTAKE: .004"006" EXHAUST: .004"006"
GROUND SPEED (MPH):	FORWARD: 0-5.5 REVERSE: 0-2.4
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	16 AMPS @ 3600 RPM
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	27–35 FT. LBS.

CONGRATULATIONS on your purchase of a Craftsman 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 your nearest authorized 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.

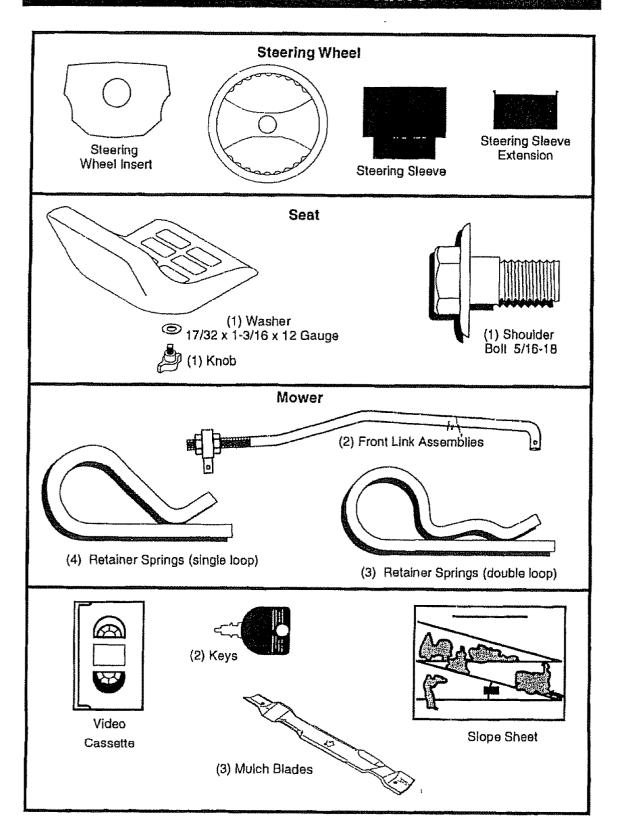
CUSTOMER RESPONSIBILITIES

- · 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.

AWARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

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

UNASSEMBLED PARTS



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ASSEMBLY

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) 3/4" wrench (2) 1/2" wrench
- (1) 3/4" Socket w/ drive rachet
- (1) Utility knife (1) Pliers
- (1) Phillips Screwdriver
- (1) 9/16" wrench
- (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

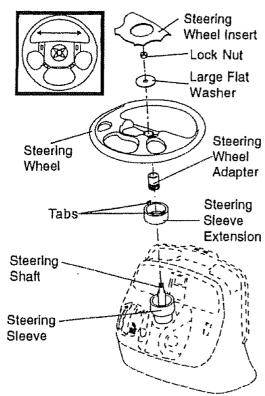
- Remove all accessible loose parts and parts boxes from shipping carton.
- Cut, from top to bottom, along lines on all four corners of shipping carton, and lay panels flat.
 - Remove mower and package materials.
 - Check for any additional loose parts or boxes and remove.

BEFORE ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL

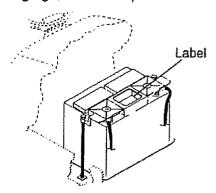
- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide the steering sleeve over the steering shaft.
- Align tabs and press steering steeve extension into bottom of steering wheel.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Secure steering wheel to steering shaft with locknut and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- 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

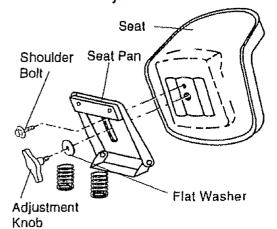
- Lift hood to raised position.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in MAINTE-NANCE section of this manual for charging instructions).



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.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan and assemble shoulder bolt. Tighten shoulder bolt securely.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.



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

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

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
- · Roll tractor forward off skid.

TO DRIVE TRACTOR OFF SKID (See Operation section for location

(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.

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

IMPORTANT: For shipping purposes, the mulcher plate was preattached to your mower. The mulcher plate must only be used with the mulching blades that came packed separately in the carton.

Your mower came factory equipped with high performance blades, which are the best blades for bagging and discharging. To use your mower with the high performance blades the mulcher plate must be removed from the mower.

TO SET UP YOUR MOWER FOR MULCHING

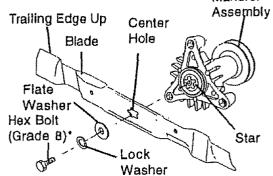
- Turn the mower over to allow access to blades.
- Remove hex bolt, lock washer and flat washer and remove high performance blades. Store in safe place.
- Install mulcher blades with trailing edge up towards deck as shown.

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

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

Install mulcher plate if previously removed.



'A GRADE 8 HEAT, TREATED BOLT CAN BE IDENTIFIED BY SIX LINES ON THE BOLT HEAD.

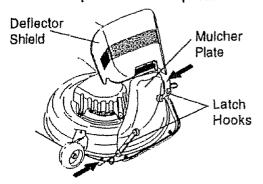
TO INSTALL MULCHER PLATE

NOTE: If you installed the mulching blades you will need to install the mulcher plate.

Paise and hold deflector shield in upright position.

- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

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



TO CONVERT TO BAGGING OR DISCHARGING

NOTE: The mulcher blades will discharge and bag grass, but for best bagging and discharging install the high performance blades.

- Remove mulcher plate and mulcher blades and install high performance blades, (see BLADE REMOVAL in the MAINTENANCE section of this manual).
- Store mulcher blades and mulcher plate in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

INSTALL MOWER AND DRIVE BELT

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

- Cut and remove ties securing antisway bar and belts. Swing anti-sway bar to left side of mower deck.
- Slide mower under tractor with discharge guard to right side of tractor.

IMPORTANT: Check belt for proper routing in all mower pulley grooves. Install belt into electric clutch pulley groove.

- Install one front link in top hole of the R.H. front mower bracket and R.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in L.H. front suspension bracket only and retain with single loop retainer spring as shown.
- Turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Place the L.H. suspension arm on inward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm. Retain with double loop retainer spring with loops down as shown.
- Slide left side of mower back and install the unattached front link in top hole of the L.H. front mower bracket. Retain with single loop retainer spring as shown.
- Place the R.H. suspension arm on inward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm. Retain with double loop retainer spring with loops down as shown.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.

- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise mower to highest position.
- Assemble gauge wheels (See "TO AD-JUST GAUGE WHEELS" in the Operation section of this manual).

CHECK TIRE PRESSURE

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

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

CHECK MOWER LEVELNESS

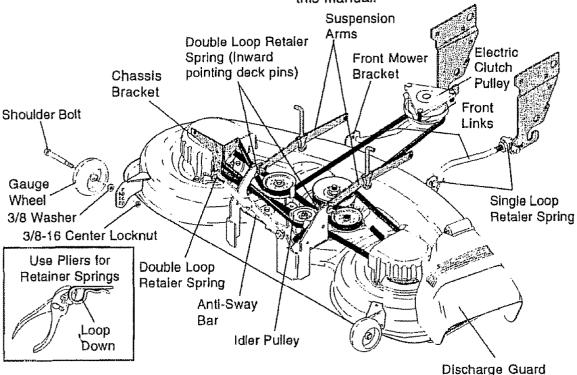
For best cutting results, mower should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion, mower drive, 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.



VCHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFAC-TION 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).

OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP



LIGHT



FUEL.



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



ATTACHMENT CLUTCH ENGAGED



REVERSE



NEUTRAL



HIGH



LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED









KEEP AREA CLEAR

SLOPE HAZARDS (SEE SAFETY RULES SECTION)









FREE WHEEL (Automatic Models only)

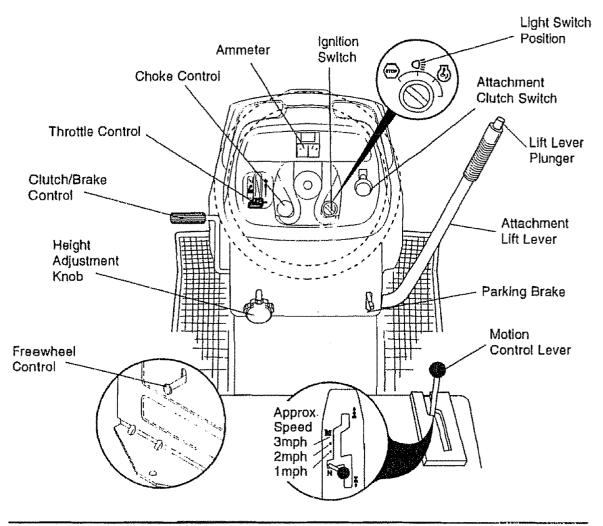


DANGER, KEEP HANDS AND FEET AWAY

KNOW YOUR TRACTOR

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

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



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

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

LIGHT SWITCH: Turns the headlights on and off.

THROTTLE CONTROL - Used to control engine speed.

CHOKE CONTROL - Used when starting a cold engine.

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

FREEWHEEL CONTROL: Disengages transmission for pushing or slowly towing the tractor with the engine off.

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

MÓTION CONTROL LEVER: Selects the speed and direction of the tractor.

ATTACHMENT LIFT LEVER: Used to raise and lower the mower deck or other attachments mounted to your tractor.

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

IGNITION SWITCH: Used for starting and stopping the engine.

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

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

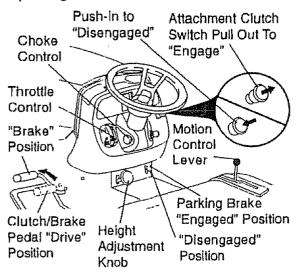


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

- 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 switch 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.

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

THROTTLE CONTROL

Always operate engine at full throttle.

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

TO USE CHOKE CONTROL

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

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

TO MOVE FORWARD AND BACKWARD The direction and speed of movement is controlled by the motion control lever.

- Start tractor with motion control lever in neutral (N) position.
- Release parking brake and clutch/ brake pedal.
- Slowly move motion control lever to desired position.

NOTE: The effort to move the motion control lever will reduce after the first few hours of use. This is normal.

TO ADJUST MOWER CUTTING HEIGHT The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob counterclockwise () to lower cutting height.

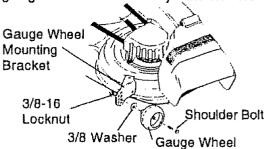
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- 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.

- 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).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer, and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.



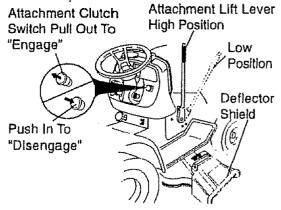
TO OPERATE MOWER

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

- Select desired height of cut.
- Lower mower with attachment lift control.

- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.

A 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

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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If 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.

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control out and down into the slot and release so it is held in the disengaged position.

- Do not push or tow tractor at more than two (2) MPH.
- To 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.
- Check engine oil with tractor on level ground.
- Unthread and remove oil fill cap/dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. 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.

A 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.

A 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.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISEN-GAGED" position.
- Move throttle control to fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

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

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

COLD WEATHER STARTING (50° F and below)

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

AUTOMATIC TRANSMISSION WARM UP

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
 - · Be sure the tractor is on level ground.
 - Place the motion control lever in neutral. Release the parking brake and let the clutch/brake slowly return to operating position.
 - Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can be used during the engine warm-up period after the transmission has been warmed up and may require the choke control be pulled out slightly.

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

PURGE TRANSMISSION

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

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

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

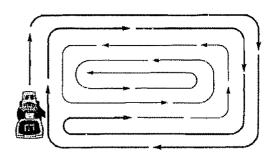
- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine.
 After the engine is running, move
 throttle control 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.

- 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).
- 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.
- 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 ready for normal operation.

MOWING TIPS

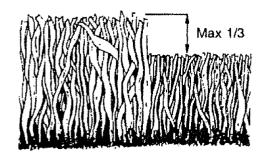
- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has 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 the best 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 seconditime to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



MAINTENANCE

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GUILAR SERVICE	.E	EFORE	MERY 8	AERY HOVE	D WOUT D WOUT	S POUT	EVERY &	is Usor Efor	SER SER	SE VICE	DATE	S
	Check Brake Operation	V	1										
•	Check Tire Pressure	V	V										
Т	Check Operator Presence and Interlock Systems	V											
R	Check for Loose Festeners	V				V		1					
A	Sharpen/Replace Mower Blades			V.									
7	Lubrication Chart			V				1					
ó	Check Battery Level			V.						T			
R	Clean Battery and Terminals			V				1					
1	Check Transaxle Cooling			V									
	Adjust Blade Belt(s) Tension					1/5							
	Adjust Motion Drive Bell(s) Tension					1/5							
	Check Engine Oil Level	V	V										
	Change Engine Oil			V1,2,3				6					1
lε	Clean Air Filter			1/2									
N	Clean Air Screen			V 2									
Ģ	Inspect Mullier/Spark Arrester				V								
N	Replace Oil Filter (If equipped)					V1.2				7			
E	Clean Engine Cooling Fins					V 2			·				
_	Replace Spark Flug	1		***************************************		4	1						
	Replace Air Filter Paper Cartridge					1/2			.				
	Replace Fuel Filler						V						

- 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
- 4 Replace bledes more often when mowing in sandy sail
- 3 If equipped with all filter, change all every 50 hours

- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free bettery
- 7 Tighten front exia pivot bolf to 35 ft.-lbs. maximum Do not overtighten

GENERAL RECOMMENDATIONS

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

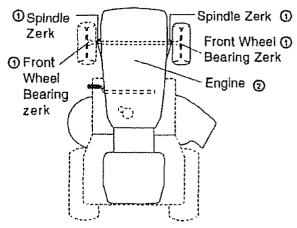
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

- · Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- · Check for loose fasteners.

LUBRICATION CHART



- ① General Purpose Grease
- @Refer to Maintenance "ENGINE" Section

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

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

TIRES

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

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

OPERATOR PRESENCE SYSTEM

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

- The engine should not start unless the clutch/brake pedal is fully depressed and attachment 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.

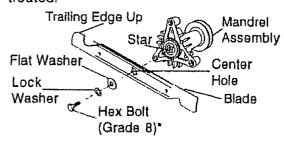
BLADE REMOVAL

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

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

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

IMPORTANT: Blade bolt is Grade 8 heat treated.



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

TO SHARPEN BLADE

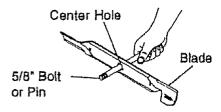
NOTE: We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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 it is 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 onto 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.

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

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

- 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.

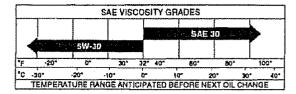
TRANSAXLE PUMP FLUID

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.

ENGINE

LUBRICATION

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



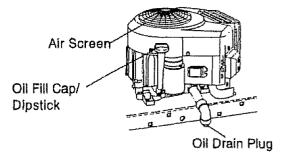
NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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

TO CHANGE ENGINE OIL

Determine temperature range expected before oil change. All oil must meet API service classification SF, SG or SH.

- Be sure tractor is on level surface.
- · Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill.
 For approximate capacity see "PROD-UCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. 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.

CLEAN AIR INTAKE/COOLING AREAS

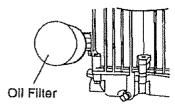
To insure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

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

ENGINE OIL FILTER

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

- Unscrew old filter by turning counterclockwise. Use a suitable container to catch oil.
- Apply a thin coating of new engine oil to rubber gasket on replacement oil filter.
- Install replacement oil filter by turning clockwise until rubber gasket contacts mounting surface, then tighten filter an additional 1/2 to 3/4 turn.
- Fill crankcase with new oil (See "TO CHANGE ENGINE OIL" in this section of this manual). For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
- Start engine and check for oil leaks.
 Correct any leaks before placing engine into full operation.



AIR FILTER

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

Service air cleaner more often under dusty conditions.

Remove knobs and cover.

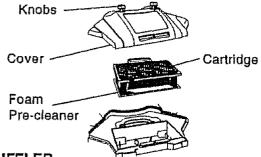
TO SERVICE PRE-CLEANER

- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace precleaner.

TO SERVICE CARTRIDGE

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

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



MUFFLER

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

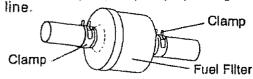
SPARK PLUGS

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.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- 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:

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

TRACTOR

TO REMOVE MOWER

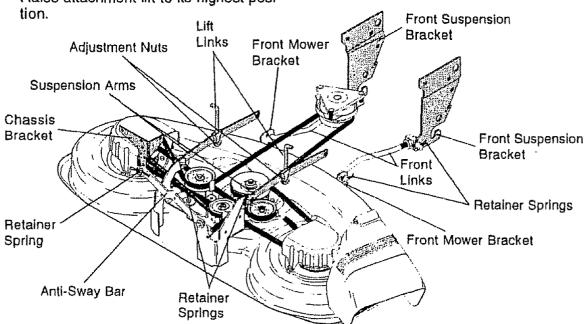
- · Place attachment clutch in "DISEN-GAGED" position.
- · Turn height adjustment knob to lowest settina.
- Lower mower to its lowest position.
- · Remove retainer spring holding antiswavbar to chassis bracket and disengage anti-swaybar from bracket.
- · Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.

- Remove two retainer springs from each front link and remove links.
- Slide mower forward and remove belt from electric clutch pulley.
- Slide mower out from under right side of tractor.

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

TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.



TO LEVEL MOWER HOUSING

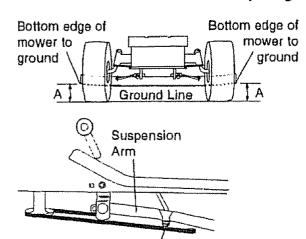
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS"). If tires are over or underinflated, you will not properly adjust your mower.

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

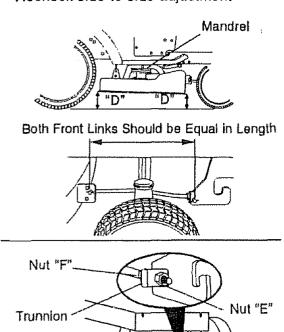
IMPORTANT: Deck must be level side-toside. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

Lift Link Adjustment Nut

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. Both links should be approximately 10-3/8".
- 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.



Front Links

TO REPLACE MOWER DRIVE BELT

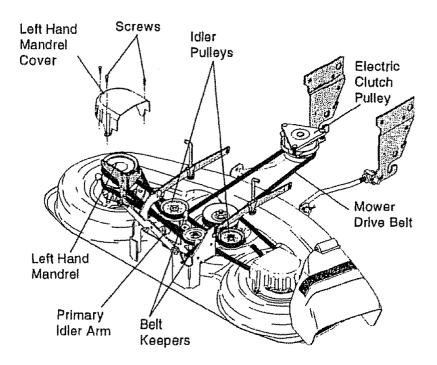
MOWER DRIVE BELT REMOVAL

- Park tractor on a level surface. Engage parking brake.
- Remove screws from left hand mandrel cover and remove cover.
- Roll belt over the top of left hand mandrel pulley.
- Remove belt from electric clutch pulley.
- · Remove belt from idler pulleys.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Check primary idler arm and two idlers to see that they rotate freely.

 Be sure spring is securely hooked to primary idler arm and bolt in mower housing.

MOWER DRIVE BELT INSTALLATION

- Install belt in both idlers. Make sure belt is in both belt keepers at the idlers as shown.
- Install new belt onto electric clutch pulley.
- Roll belt into upper groove of left hand mandrel pulley.
- Carefully check belt routing making sure belt is in the grooves correctly and inside belt keepers.
- · Reassemble left hand mandrel cover.

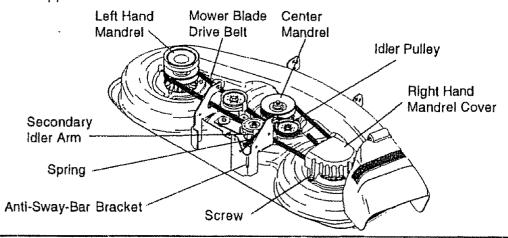


TO REPLACE MOWER BLADE DRIVE BELT

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO RE-PLACE MOWER DRIVE BELT" in this section of this manual).
- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove four screws from right hand mandrel cover and remove cover. Unhook spring from bolt on mower housing.
- Carefully roll belt off right hand mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and left hand mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.

- Check secondary idler arm and idler to see that they rotate freely.
- Be sure spring is hooked in secondary idler arm and sway-bar bracket.
- Install new belt in lower groove of left hand mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Roll belt over right hand mandrel pulley.
 Make sure belt is in all grooves properly.
- Reconnect spring to bolt in mower housing and reinstall right hand mandrel cover.
- Reinstall mower to tractor (See "IN-STALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).



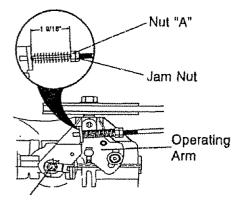
TO ADJUST BRAKE

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

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

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

With Parking Brake "Engaged"

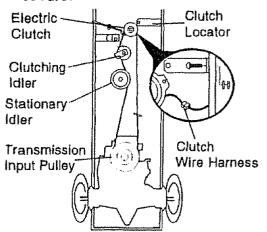


Do Not touch this nut. If further brake adjustment is necessary contact your nearest authorized service center/department

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.)
- Disconnect clutch wire harness.
- · Remove clutch locator.
- 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.
- Pull belt toward front of tractor and remove downwards from around electric clutch.
- 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.

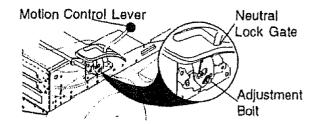
- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment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

- Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- · Tighten adjustment bolt securely.
- Start engine and test.
- 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 ALIGN-MENT

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.

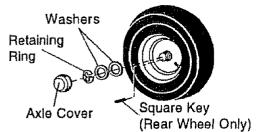
FRONT WHEEL TOE-IN/CAMBER

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 your nearest authorized service center.

TO REMOVE WHEEL FOR REPAIRS

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

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



TO START ENGINE THAT HAS 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).

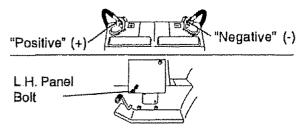
If "jumper cables" are used for emergency starting, follow this procedure:

IMPORTANT: Your tractor is equiped 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 OR-DER -

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

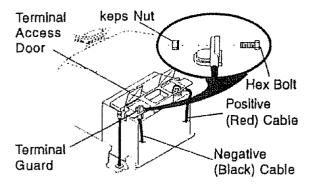


REPLACING BATTERY

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



TO REPLACE HEADLIGHT BULB

- Raise hood.
- 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.
- · Close hood.

INTERLOCKS AND RELAYS

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

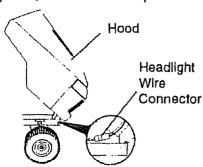
Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 15 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY

- · Raise hood.
- · Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- · 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 to fast position. Check that swivel is against stop. If it is not, loosen cable clamp screw and pull cable back until swivel is against stop. Tighten cable clamp screw securely.

TO ADJUST CHOKE CONTROL

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

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

TO ADJUST CARBURETOR

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

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

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

PRELIMINARY SETTING -

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

FINAL SETTING -

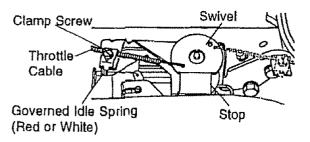
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/ motion control lever in neutral (N) position.
- With throttle control lever in slow position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1300 to 1500 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture screw In (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 RPM, if the governed idle spring is red, or 900 RPM, if the governed idle spring is white. Release throttle lever.

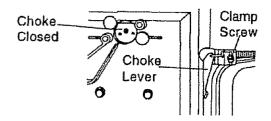
ACCELERATION TEST -

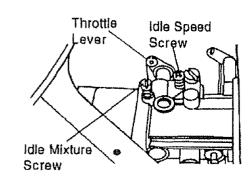
 Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle mixture screw out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust - 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 your nearest authorized service center/department, which has proper equipment and experience to make any necessary adjustments.







STORAGE

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

A 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. This will allow you to 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).
- 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.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMI-NALS" in the Maintenance section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel filter, fuel hose, or tank during storage. Also, 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.

- Drain the fuel tank.
- 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).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if it 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 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. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Walt several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section. Contact an authorized service center.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section. Contact an authorized service center.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	 Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty alr filter. Low oll level/dirty oil. 	 Set in "Higher Cut" position/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil.

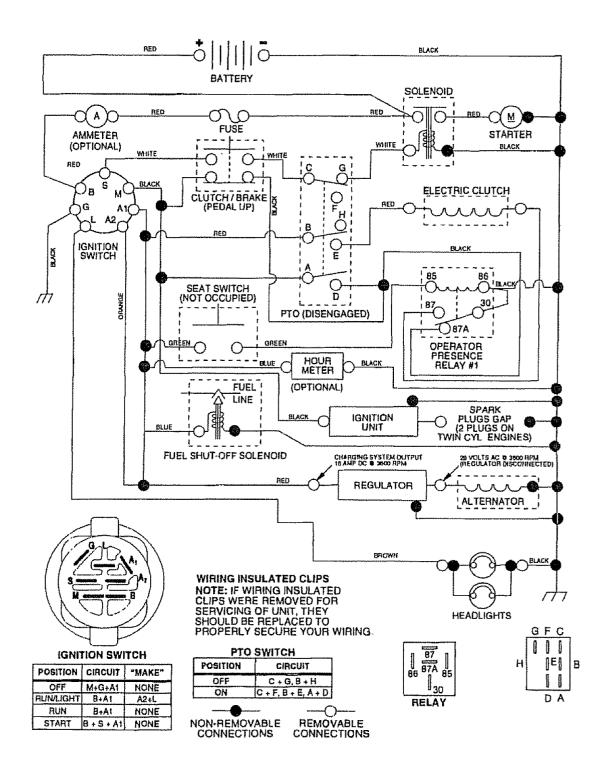
TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Loss of power (cont'd)	 Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 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 and Adjustments section. Contact an authorized service center.
Excessive vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.
Engine continues to run when operator leaves seat with at tachment clutch engaged	Faulty operator-safety presence control system	Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. 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 mandret.
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper air pressure.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Poor grass discharge (cont'd)	 Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes.
Headlight(s) not work ing (if so equipped)	 Switch is "OFF". Bulb(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(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 sec- onds before slopping engine.	Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

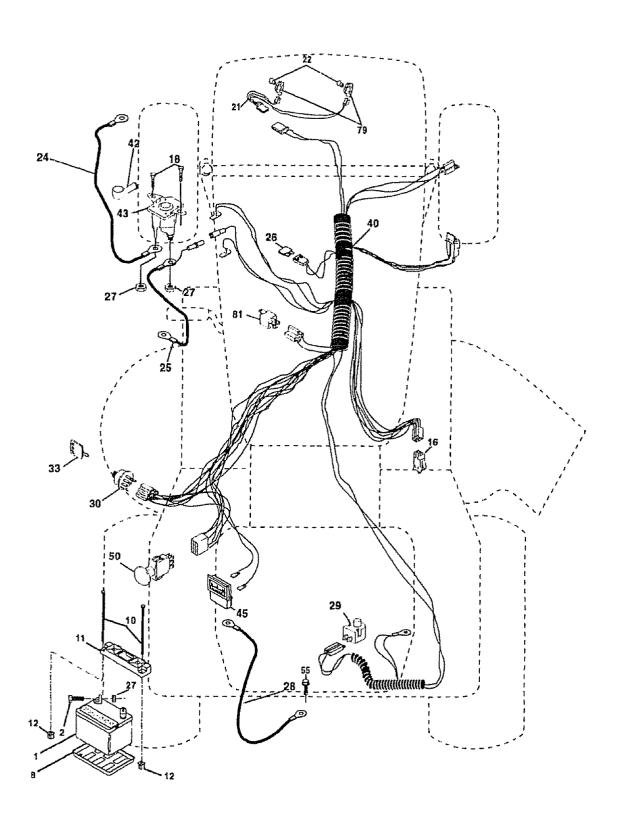
SCHEMATIC



REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.272201

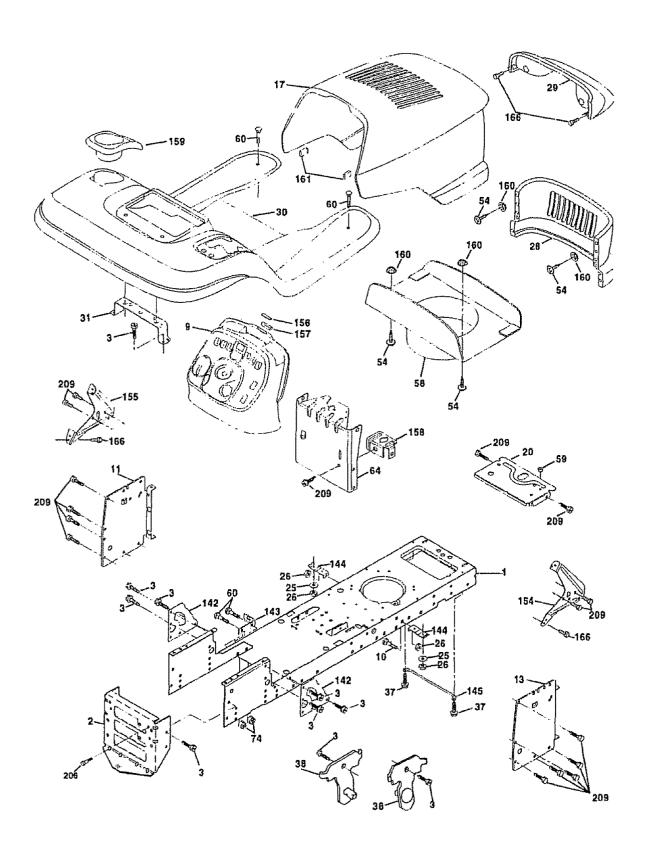
ELECTRICAL



ELECTRICAL

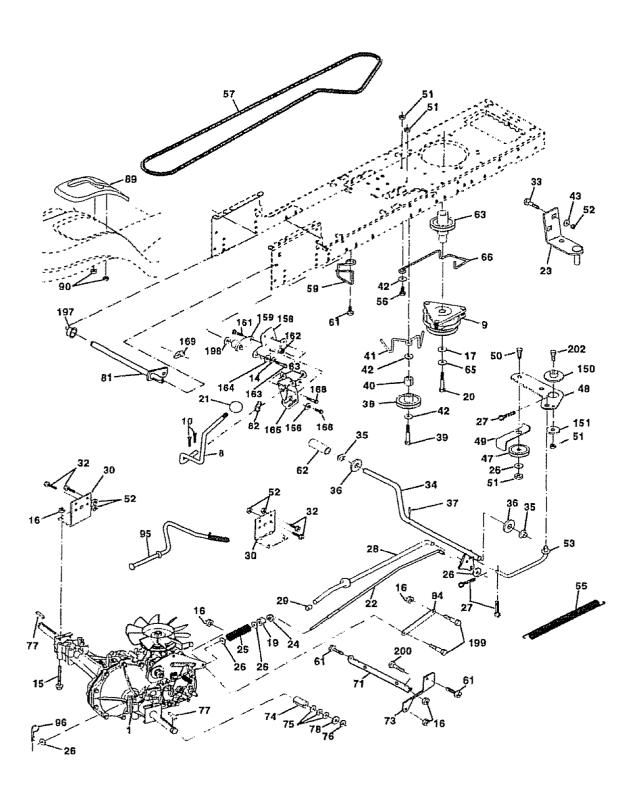
KEY	PART	
NO.	NO.	DESCRIPTION
1	163465	Battery
2	74760412	Bolt, Hex 1/4-20 x 3/4
8	7603J	Tray, Ballery
10	145211	Bolt, Btr Front 1/4-20 x 7-1/2
11	150109	Holddown Battery Front Mount
12	145769	Nut, Push Nylon Battery Front 1/4
16	153664	Switch Interlock Push-In
18	17720408	Bolt Bik Fin Hex 1/4-20 UNC x 1/2
21	166184	Hamess, Light
22	4152J	Light Bulb
24	8860R	Cable, Battery
	146148	Cable, Battery
26	166180	Fuse
27	73510400	Nut Keps Hex 1/4-20 UNC
28	145491	Cable, Ground
29	160784	Switch, Seat
30	163968	Switch, Ignition
33	140403	Key, Molded, Craftsman
40	170233	Harness, Ignition
42	131563	Cover, Terminal
43	145673	Solenold
45	122822X	Ammeter Rectangular 15 Amp
50	169416	Switch Pto 3 Pdt Red Delta
55	17490508	Screw Thdrol 5/16-18 x 1/2
79	163996	Socket, Light Bulb
81	109748X	Relay Asm

TRACTOR -- MODEL NUMBER 917.272201 CHASSIS AND ENCLOSURES



TRACTOR -- MODEL NUMBER 917.272201 CHASSIS AND ENCLOSURES

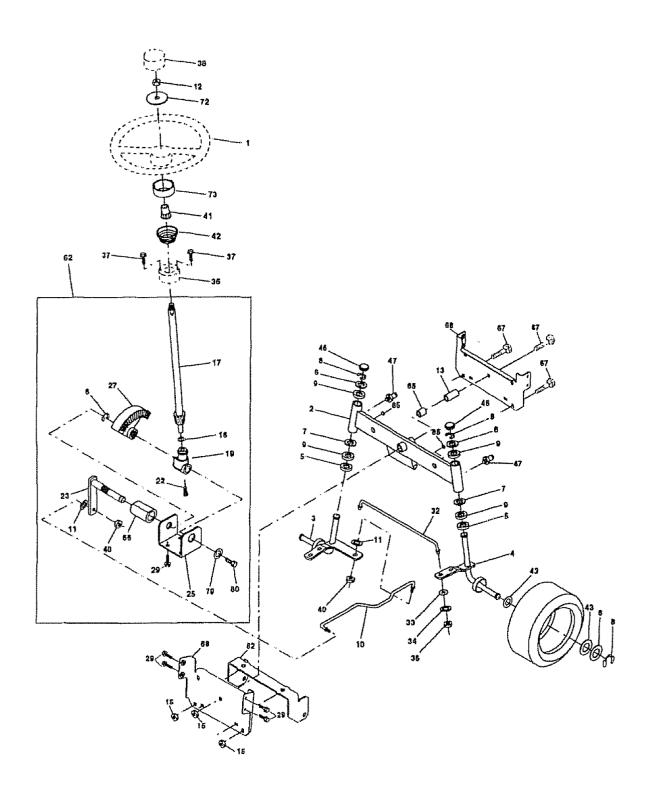
KEY NO.	PART NO.	DESCRIPTION
1	169830	Chassis
2 3	169061	Drawbar
3	17060612	Screw, 3/8-16 x 3/4
9	163976	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 1
11	167203	Panel, Dash, LH
13	167202	Panel, Dash, RH
17	161023X558	Hood Assembly
20	162026	Plate Battery STYT
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Locknut, Hex, with Insert 3/8-16 UNC
28	160564X558	Grille, MS-558
29	161235	Lens, Grille
30	164919X558	Fender/Footrest
31	139976	Bracket, Fender/Support
37	17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38	169834	Bracket Asm Pivot Mower Rear
54	161464	Screw Hex Wshd 8-18 x 7/8
58 50	161236	Duct Hood
59 60	110436X	Bushing, Snap, Split
60 64	STD533707	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
74	162025	DashLower STYT
142	STD541437 165867	Nut Crownlock 3/8-16 UNC
143	154966	Plate Reinforcement STLT
144	154207	Bracket Swaybar Chassis Bracket Footrest STLT
145	156524	Rod Pivot Chassis/Hood
154	161897	Bracket Dash Rh
155	161900	Bracket Dash Lh
156	163805	Striker Plate
157	163806	MagnetYTGT
158	162037	Parking Brake Bkrt
159	155123X428	Cupholder Sti Blk
160	162967	FastnerNutpal
161	164655	Pinch-Welt Hood
166	164863	HWHDH:-Lo. #13-16 x 3/4
206	170165	Bolt Shoulder 5/16-18
209	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
		and the second s



GROUND DRIVE

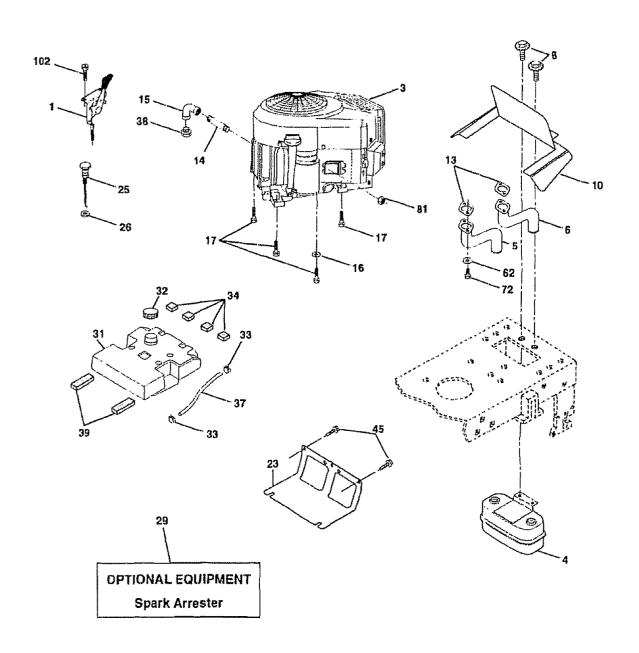
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	****	Transaxle (See Breakdown)	57	140294	V-Belt, Ground Drive
		Hydro gear Model 314-0510	59	169691	Keeper, Center Span
8	165866	Rod Shift Fender Adjust Lt	61	17060612	Screw 3/8-16 x 3/4
9	137140	Clutch Elec Cvx	62	8883R	Cover, Pedal
10	76020416	Pin Cotter 1/8 x 1 CAD	63	140189	Pulley, Engine
14	10040400	Washer Lock Hvy Hellcal	65	10040700	Washer
15	74490544	Bolt Hex Fighd 5/16-18 Gr. 5	66	154778	Keeper Belt Engine
16	73800500	Nut Lock Hex W/Ins. 5/16-18	71	169183	Strap Torque Lh
		Unc	73	169182	Strap Torque Rh
17	126197X	Washer	74	169496	Spacer, Axle
		1-1/2 OD x 15/32 ID x .250	75	121749X	Washer 25/32 x 1-1/4 x 16
19	73800600	Nut Lock Hex W/Wsh 3/8-16			Ga.
		Unc	76	12000001	E-Alng
20	150280	Bolt Hex 7/16-20 x 4-1/4 5 Ga.	77	123583X	Key, Šquare
21	130564	Knob, Deluxe 1/2-13	78	121748X	Washer 25/32 x 1-5/8 x 16
22	169498	Rod, Brake Hydro	.		Ga.
23	137141	Bracket Asm Clutch Mto	81	165596	Shaft Asm. Cross Tapered
24	79950600	Nut, Hex Jam 3/8-16 Unc	82	165711	Spring Torsion T/A
25	106888X	Spring, Brake Rod	83	19171216	Washer 17/32 x 3/4 x 16 Ga.
26	19131316	Washer	B4	169594	Link Transaxie
27 28	76020412	Pin Cotter 1/8 x 3/4 CAD.	89	164890X428	Console, Shift
20 29	145204 71673	Rod, Parking Brake	90 95	124346X	Nut Self-Thd Wsh-hd 1/4 Zinc
30	169592	Cap, Parking Brake Bracket, Transaxie	96	170201 4497H	Control Bypass
32	74760512	Bolt Hex Hd 5/16-18 Unc x 3/4	150	165850	Retainer Spring 1* Zinc/Cad Bushing Belicrank Grd Drive
33	72140506	Bolt Rdhd Sank	151	19133210	Washer 13/32 x 2 x 10 Ga.
O.	12170000	5/16-18 Unc x 3/4	156	166002	Washer Stried 5/16ID x 1,125
34	155071	Shaft, Foot Pedal	158	165589	Bracket Shift Mount
35	120183X	Bearing, Nylon	159	165494	Hub Tapered Flange Shift Lt
36	19211616	Washer	161	72140406	Bolt Right Sqnk 1/4-20 x 3/4
37	1572H	Pin, Roll	, , ,	, 2, , 0, . 0 .	Gr 5
38	131494	Pulley, Idler, Flat	162	73680400	Nut Crownlock 1/4-20 Unc
39	72110622	Bolt	163	74780416	Bolt Hex Fin
40	4470J	Spacer, Split	. ***		1/4-20 Unc x 1 Gr 5
41	165838	Keeper, Belt Idler	164	19091010	Washer 5/8 x .281 x 10 Ga
42	19131312	Washer 13/32 x 13/16 x 12	165	165623	Bracket Pivot Lever
		Gauge	166	166880	Screw 5/16-18 x .561
43	19111012	Washer 11/32 x 5/8 x 12 Ga.	168	165492	Bolt Shoulder 5/16-18 x .561
47	127783	Pulley, Idler, V-Groove	169	165580	Plate Fastening Lt
48	154407	Bellcrank Clutch Grnd Drw Stl	197	169613	Nyliner Snap-In 5/8" ID
49	123205X	Retainer, Belt	198	169593	Washer Nyl 7/8 ID x .105"
50	74760624	Boll	199	169612	Bolt Shoulder 5/16-18 Unc
51	73680600	Nut Crownlock 3/8-16 UNC	200	72140508	Bolt Rdhd Sqnk 5/16-18 Unc x 1
52	73680500	Nut, Crowntock 5/16-18 Unc	202	72110612	Bolt Carr Sh 3/8-16 x 1-1/2 Gr 5
53	105710X	Link, Clutch	HOTE	All	dia i
55	105709X	Spring, Return, Clutch	NUIE:		dimensions given in U.S. inches
56	74760620	Bolt Hex 3/8-16 x 1-1/4		1 inch = 25.4 i	TIVI

TRACTOR -- MODEL NUMBER 917.272201 STEERING ASSEMBLY



TRACTOR -- MODEL NUMBER 917.272201 STEERING ASSEMBLY

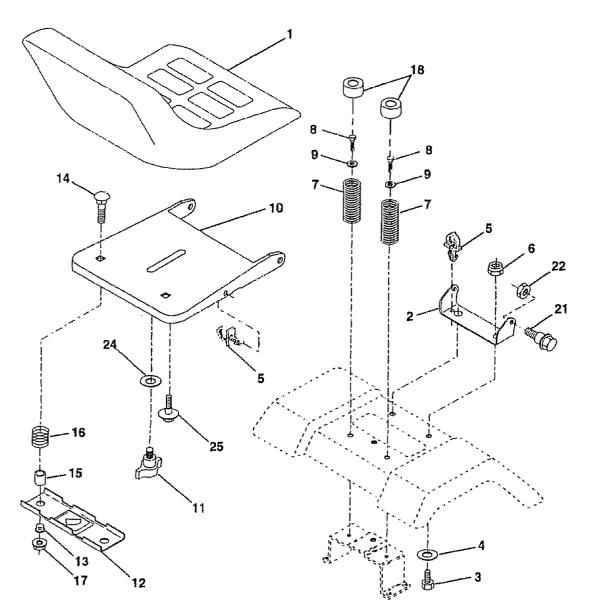
KEY NO.	PART NO.	DESCRIPTION
1	159944X428	Steering Wheel
2	154427	Axle Assembly STMP Dropped STL
3	169840	Spindle Assembly, L.H.
4	169839	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8	12000029	Ring, Klip
9	3366FI	Bearing, Steering Column
10	169832	Draglink
11	STD551137	Washer, Lock
12	73940800	Nut Hex Jam Toplock 1/2-20 Unf
13	136518	Spacer Brg Axle Front
15	145212	Nut Hextlange Lock
17	156543	Shaft Assembly, Steering
18	57079	Washer, Thrust .515 x .750 x .033
19	160395	Support, Shaft
22	165857	Screw Hex Wshhd Torx
23	165851	Pittman Shaft Assembly
25	154406	Bracket, Steering
27	136874	Gear, Sector
29	17060612	Screw, 3/8-16 x 3/4
32	130467	Rod, Tie
33 34	19111216	Washer 11/32 x 3/4 x 16 Ga/
3 4 35	STD551131	Washer Lock Hvy Spr. 5/16
36	73810500 155105	Locknut 5/16-24 Unf
37	152927	Bushing, Steering Screw
38	159946X428	Insert, Steering Wheel
40	STD541537	Gripco Nut
41	159945	Adaptor, Steering Wheel
42	163888	Boot, Steering Shaft
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
46	121232X	Cap, Spindle
47	6855M	Fitting, Grease
62	167905	It Steering Asm Service
65	160367	Spacer Brace Axle
66	154404	Bearing Arm Pittman
67	72140618	Bolt Rdhd Sq 3/8-16 UNC x 2-1/4
68	169827	Axle, Brace
72	19182411	Washer 9/16 ld x 1-1/2Od 11 G Zin
73	160135	Steering Sleeve Extension
79	19132012	Washer 13/32 x 1-1/4 x 12 Ga
80	74950612	Bolt Hex Nylon 3/8-16 x 3/4
82	169835	Bracket Susp Chassis Front
85	133835	Fastner Christmas Tree



ENGINE

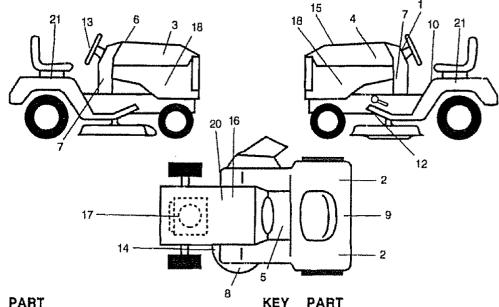
KEY NO.	PART NO.	DESCRIPTION
1 3	164067	Control, Throttle
3	*****	Engine, (See Breakdown) B&S Model Number 445777-0129-E1
4	149723	Mulfler
5	159955	Tube, Manifold, LH
6	160589	Tube, Manifold, RH
8	150176	Bolt 5/16-18 UNC x 3/4 w/Sems
10	162797	Shleid, Browning
13	165391	Muffler Gasket (See Engine Breakdown)
14	13280336	Nipple, Pipe 3/8 NPT x 4-1/2
15	13200300	Elbow, Standard 90° 3/8-18 NPT
16	11050600	Washer, Lock, External Tooth 3/8
17	17490624	Screw Thdrol 3/8-16 x 1-1/2
23 25	169837	Shleid, Browning / Debris Guard
25 26	164068 73920600	Choke Control
29 29	137180	Nut, Keps 3/8-24 UNF
31	157103	Kit, Spark Arrestor Tank Fuel
32	161696	Cap Asm Fuel
33	123487X	Clamp, Hose
34	106082X	Pad, Spacer
37	8543R	Line, Fuel
38	****	Plug, Oil Drain (See Engine Breakdown)
39	109227X	Pad, Idler
45	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
62	10040500	Washer, Lock 5/16 (Order from engine mfg.)
72	71070512	Screw, Hex Socket Head 5/16-18
B1	73510400	Nut Keps Hex 1/4-20 UNC
102	164863	Screw Hwhd HLo #13016 x 3/4

SEAT ASSEMBLY



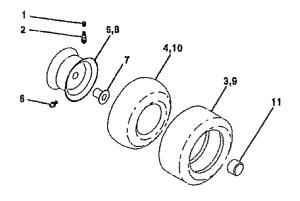
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140124	Seat	14	72050412	Bolt, Carrlage 1/4-20 x 1-1/2
2	140551	Bracket, Pivot, Seat	15	121249X	Spacer, Spilt
3	71110616	Bolt	16	123740X	Spring
4	19131610	Washer 13/32 x 1 x 10 Gauge	17	123976X	Locknut, Flange 1/4 Grade 5
5	145006	Clip, Push-In Hinged	18	124238X	Cap Spring Seat
6	STD541437	Nut	21	171852	Bolt, Shoulder 5/16-18 UNC
7	1241B1X	Spring, Seal	22	STD541431	Nut
8	17000616	Screw 3/8-16 x 1-1/2	24	19171912	Washer 17/32 x 1-3/16 x 12
9	19131614	Washer 13/32 x 1 x 14 Gauge			Gauge
10	155925	Pan, Seat Emboss QCK Conn.	25	127018X	Bolt, Shoulder 5/16-18 x 62
11	166369	Knob Seat	k 1 ms	A11	af
12	121246X	Bracket, Switch Mounting	NU IE:		dimensions given in U.S. Inches
13	121248X	Bushing, Snap		1 inch = 25.4	mm

DECALS

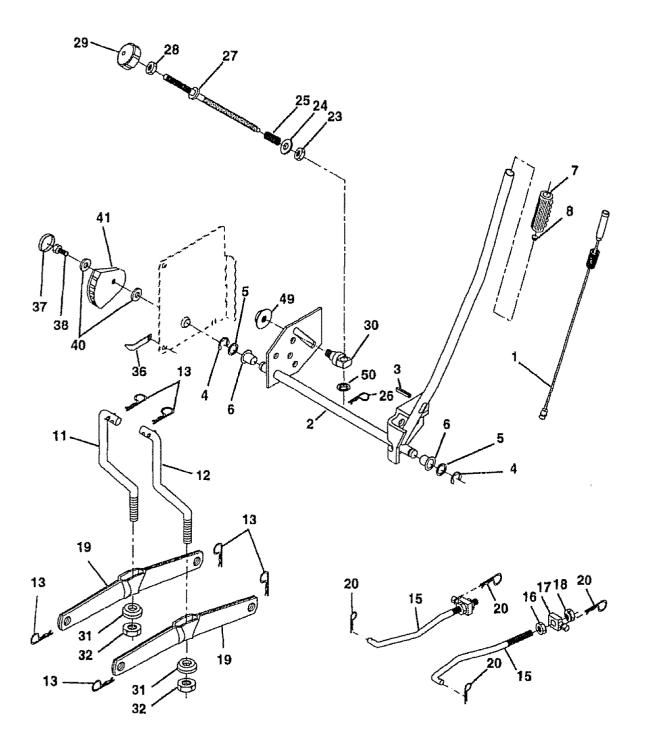


KEY NO,	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9	164094 106202X 171700 171701 164088 133644 172055 133179 163204 156439	Decal, Dash, Stealth Reflector Tail Light Decal, Hood, R.H. Decal, Hood, L.H. Decal Brake Clutch Stealth Decal, Customer Maintenance Decal Dash Pnl Decal, Mower Decal, Fender, Craftsman Decal, Fender Danger	15 16 17 18 20 21	171810 138047 172259 171706 149516 163206 138311 165800X428 165799X428	Decal Replc Decal, Battery Diehard Decal, Hp Engine Decal, Panel Side Decal, Battery Dngr/Psn Eng Decal, Ender Side Decal, Lift Handle Pad Footrest LH STLT Pad Footrest RH STLT Decal, By Pass Lt Hydro
12 13 14	146046 164065 160397	Decal, V-Belt Drive Schematic Decal Strg Wheel Decal, V-Belt Schematic	* *	174189 174190	Owner's Manual, English Owner's Manual, Spanish

WHEELS & TIRES

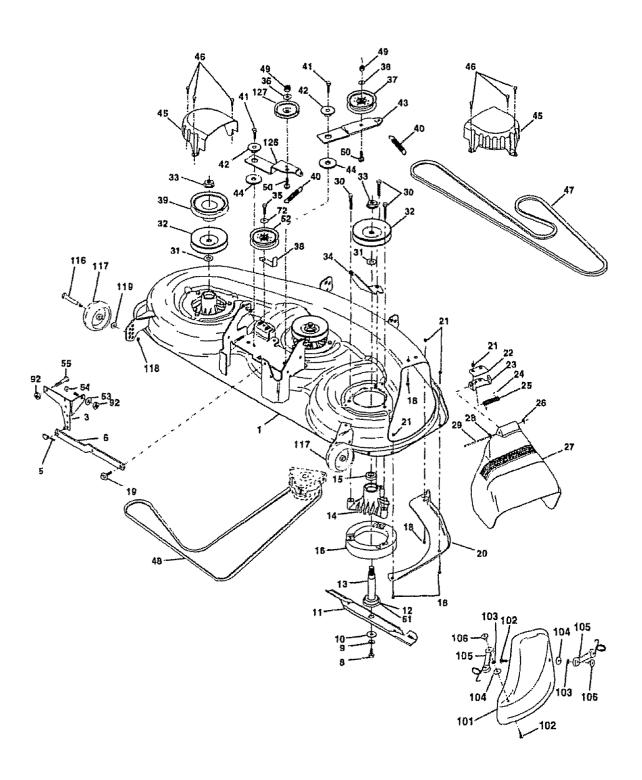


KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Valve Cap, Tire
1 2 3 4	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front Tire
		(Not Provided, Service Item
		Only)
5	106732X598	Rim, Front
6	278H	Filting, Grease (Front Wheel
		Only)
7	9040H	Bearing, Flange (Front Wheel
		Only)
8	106108X598	Rlm, Rear
9	122082X	Tire, Rear
10	7152J	Tube, RearTire
		(Not Provided, Service Item
		Only)
11	104757X	Cap, Axle
	144334	Sealant, Tire 10 oz.
*10	* 11	



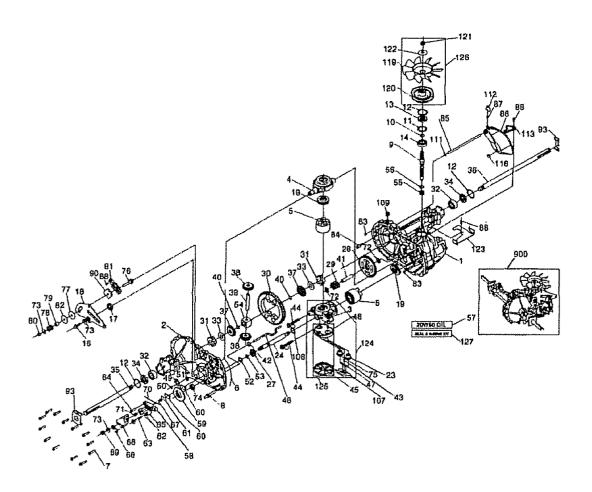
LIFT ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	159461	Lift Lever Inner Wire Assembly
2	159476	Shaft Assembly, Lift
3	138284	Pin, Groove
4	12000002	E-Ring
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	4939M	Retainer Spring
15	173288	Link, Front
16	73350800	Nut, Hex, Jam 1/2-13 UNC
17	130171	Trunnlon
18	73800800	Nut Lock w/wsh 1/2-13 UNC
19	139868	Arm, Suspension, Rear
20	163552	Retainer Spring
23	110807X	Nut Special
24	19131016	Washer 13/32 x 5/8 x 16 Ga.
25	164024	Spring Comp Infinite
26	169484	RetainerClip
27	164543	Rod Adj Lilt Zinc
28	73350600	Nut Hex Jam 3/8-16 unc
29	138057	Knob Infin 3/8-16 unc Blk Sym
30	150233	Trunnlon Inlin Helght
31	140302	Bearing, Pvt, Lift Spherical
32	73540600	Nut, Crownlock 3/8-24
36	155097	Pointer Height Indicator
37	123935X	Plug Hole
38	17060516	Screw 5/16-18 x 1
40	19112410	Washer 11/32 x 1-1/2 x 10 Ga
41	155098	Indicator Height Stit
49	145212	Nut Hex/Large Lock
50	110452X	Nut Push Phos & Oll



MOWER DECK

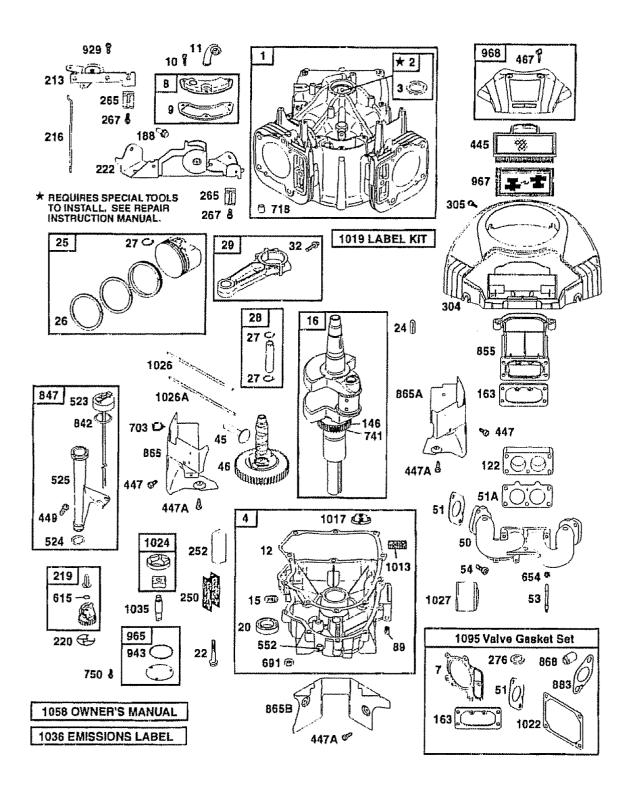
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	156948X598	Deck Weldment, 46"	40	137273	Spring, Secondary 44/46/50
3	138457	Bracket Asm., Sway Bar		17000000	Vent
5	STD624008	Retainer Spring	41	17060620	Screw 3/8-16 x 1-1/4
6	130832	Arm, Suspension, Rear	42	122052X	Spacer, Relainer
n	950057	(Sway Bar)	43	144949X59B	Arm, Idler Secondary
8	850857	Bolt, Patched 3/8-24 x 1-1/4 Gr. 8	44 45	133943	Washer, Hardened
9	STD551137	Washer, Lock Hvy., Unplated	40 46	145059 137729	Cover, Mandrel Deck
J	312001107	3/8	40 47	144959	Screw, Thdroll 1/4-20 x 5/8
10	140296	Washer, Hard Blade, Mower	48	148763	V-Belt, Mower, Secondary V-Belt, Mower, Primary
, .	140500	Vented	49	STD541437	Nul, Crownlock 3/8-16 UNC
11	170698	Blade, 3 in 1 46"	50	72110612	Bolt, Carriage
12	129895	Bearing, Ball, Mandrel #6204	~~	, 21, 100, 10	3/8-16 x 1-1/2 Gr. 5
13	137553	Shaft Asm. w/Lower Bearing	51	153390	Washer Fell
		(Includes Key No. 12)	52	156493	Pulley Idler 46* Prim. Drive
14	137152	Housing, Mandrel	53	19131312	Washer 13/32 x 13/16 x 12 Ga
15	110485X	Bearing, Ball, Mandrel	54	74780616	Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5
16	140329	Stripper, Mower Round	55	72140608	Bolt Rdhd Sqnk 3/8-16 Unc x 1
18	STD533106	Bolt, Carriage 5/16-18 x 5/8	72	19131616	Washer 13/32 x 1 x 16 Ga
19	132827	Bolt, Hex Hd, Shoulder	92	STD541437	Nut Lock Hex w/Ins 3/8-16 Unc
		5/16-18	101	145579	Cover, Mulching
20	145055	Baille, Vortex Mower 46"	102	71161010	Screw
21	STD541431	Nut, Crownlock 5/16-18 UNC	103	STD551110	Washer, Lock #10
22 23	134753X598 131267X598	Stiftener, Bracket Bracket, Deflector	104	19061216	Washer
24	105304X	Cap, Sleeve	105 106	160793 2029J	Latch Asm. Bagger Nul, Weld
25	149287	Spring, Torsion, Deflector	116	137644	Bolt, Shoulder
26	110452X	Nut, Push	117	133957	Gauge Wheel
27	166883X598	Shield, Deflector Mower	118	73930600	Nul. Centerlock 3/8-16 UNC
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
29	131491	Rod, Hinge	126	144948X598	Arm, Idler, Primary Deck 46"
30	157722	Screw, Thd Rolling Washer	127	146763	Pulley, Idler, V-Groove Dim. 4.25
		Head	* *	171864	Mower Service 46" (Standard
31	129963	Washer, Spacer Mower Vented			Deck -Order separately mulching
32	153531	Pulley, Mandrel			and guage wheel components
33 34	137266 144945X598	Nut, Flg. Top Lock Cntr. 9/16		440004	Key Nos. 101-106 and 116-119
35	17490628	Anchor, Spring Deck 46" Screw, Thdrol 3/8-16 x 1-3/4	* *	143651	Mandrel Asm 44/50 Service
		Tytt			(Includes Key Nos. 8-10, 12-15, 31 and 33)
36	STD551037	Washer 13/32 x 13/16 x 16 Ga.			
37	131494	Pulley, Idler, Flat	NOTE:	All component	dimensions given In U.S. Inches
38	156086	Keeper, Belt, Idler		1 inch = 25.4	
39	144917	Pulley, Idler, Driven			



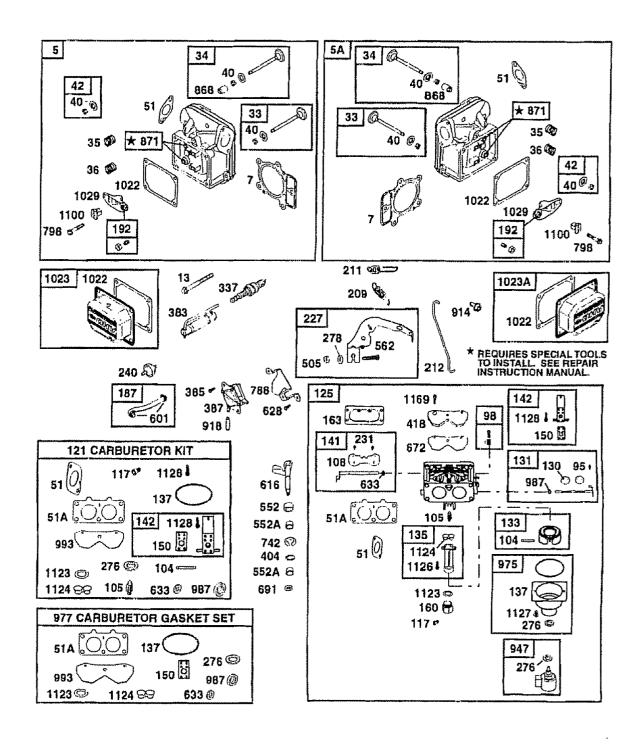
TRACTOR - - MODEL NUMBER 917.272201 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 314-0510

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	170351	Main Housing, Assembly	59	170408	Rotor, Brake
2	170352	Side Housing, Assembly	60	142883	Brake Puck
3 4	170353 170354	Center Section, Assembly	61 62	142881 142887	Puck Plate
4	170354	Swashplate, Trunion Machined	63	170410	Brake Actuating Pln Hfhcs 1/4-20x2 W/
5	169898	Block - Assembly	00	170410	Patch, Special Flange
6	170355	Sealant 10.5 Oz	64	142892	Bolt, 1/4-20 X 1 W/Patch
7	170356	Hex Flange Screw 1/4-20 X	65	170411	Spacer
ы	4700E7	1.25	66	170412	Spring, Brake Arm Bias
8	170357	Stud, 5/16-24 Hex Double End	67 68	170413 170414	Sq. Hd. Bolt 5/16-24-Ribbed Arm, Brake
9	170358	Shaft, Input	69	170415	Slotted Hex Nut 5/16-24
10	170359	Ring - Retaining	70	170416	Cotter Pin 3/32 X 3/4
11	170360	Spacer	71	170417	Compression Spring Brake
12 13	169870 170361	Ring - Retaining Seal, Lip .67 X 1.58 X .276	72	170418	Anti-Drag Washer, Ht
14	169869	Ball Brg 17mm ld X 40mm	12	170410	.5 I.D. X 1 O.D. X .032
• •	100000	Od X 12mm	73	142884	Flat - Washer
16	170362	Hex Flange Head Screw			11/32 LD, X 7/8 O,D
4 7	170000	5/16-24X0.75	74	170419	Oil Seal .625 X 1.0 X .25
17 18	170363 170364	Lip Seal 18 X 32 X 7 Arm, Control	75	170420	Check Plug Assembly, .027, Washer
19	150771	Bearing, 30x52x13 Thrust	76	170421	Stud, 5/16-24 Friction Pack
23	170365	Check Plug Assembly,	77	170422	Puck, 330 X 1.50 X .0975
		Washer	78	142969	Spring, Helical Comp
24	170366	Shaft, Motor	79	142980	Spacer
27 28	170367 170368	Gear - Pinion, 13t 10V48t Gear	80	150778	Hex Lock Nut 5/16-24Unjf(Nylon Insert)
29	170369	Gear, 10t Jackshaft	81	170423	Wedge, Friction Pack
30	170370	60t Bull Gear	82	170424	Clip, Washer
31	170371	Sleeve Bearing	0.0	101100	.316x1.50x.1046 (Plated)
32	170389	.75 X 1.575 X .625 SleeveBearing(Outboard)	83 84	161162 170425	Pin, Standard Headless Fitting, 5/16 Sae 5/32 Tube
4 E	1,0000	.75x1.750x.625	85	170426	Hose, Expansion Tank
33	142991	Washer,	86	170427	Expansion Tank
34	170390	3/4 ld X 1-1/2 Od X .13 Thk	87 88	170424 170429	Cap - Poppet Valve Bolt, Self Tapping
35	170390	Lip Seal Axle Seal Shaft, Axle .75 X 11.39	00	1/0423	10-32 X 1/2
		(Key, R.H.)	90	170430	Puck, Inner Wedge
36	170392	Shalt, Axie .75 X 16.99		170431	Spring Clip - Housing Thrust
37	150792	(Key, L.H.) Miter Gear (Splined)	108	170432 170433	Deflector Washer,Motor Shaft
38	150793	Miter Gear 15t (0.5 ld)	100	170400	.71idx1.15odx.030thk
39	150809	Shalt	109	170434	Plug, Sae #6
40	170393	Ring, Spiral Retaining		170435	O-Ring .07 X .301 I.D.
41	170394	Pin, Jackshaft		170436	Shield, Vent
42 43	170395 170396	Magnet, Ring Spring, Bypass	113	170437	Bracket, Support Expan slon Tank
44	150797	Hydro Mtg Screw	116	170438	Silicon Sponge
		3/8-24 X 2.5 Long	119	170439	Fan, 7 In.
45	170397	Filter	120	170440	Pulley
46 47	170398 170999	Base, Filter Actuator, Bypass	121	170441	Hex Lock Nut 1/2-20 (Nylon Insert)
48	170400	Rod, Bypass Actuator	122	170442	Washer, Belleville
49	170401	Arm, Bypass		170443	Belt Keeper
50	170202	Retaining Ring 250	124	170444	Center Section-Filter-
51	170403	External Seal, Lip	125	170445	Bypass Assembly Filter Assembly
Ų i	170403	.741 X .250 X .250 Tc		170446	Fan - Pulley Service
52	170404	Flat Washer,		*****	Assembly
		5/8 ld X 1.0 Od X .05 Thk	127	170447	Seal - O-Ring Kit
53 54	170405	Retaining Ring	128	173165	Kit, Expansion Tank
54 55	170406 142977	Bearing, Center Block Spring - Helical Compres	900	166768	Transaxle Complete
	t same or f f	sion	NOTE	: All compone	int dimensions given in U.S. inches
56	142978	Washer		1 inch = 25.	
57 58	150798 170407	20w-50 Oil Brake Yoke			
	110-101	5	3		

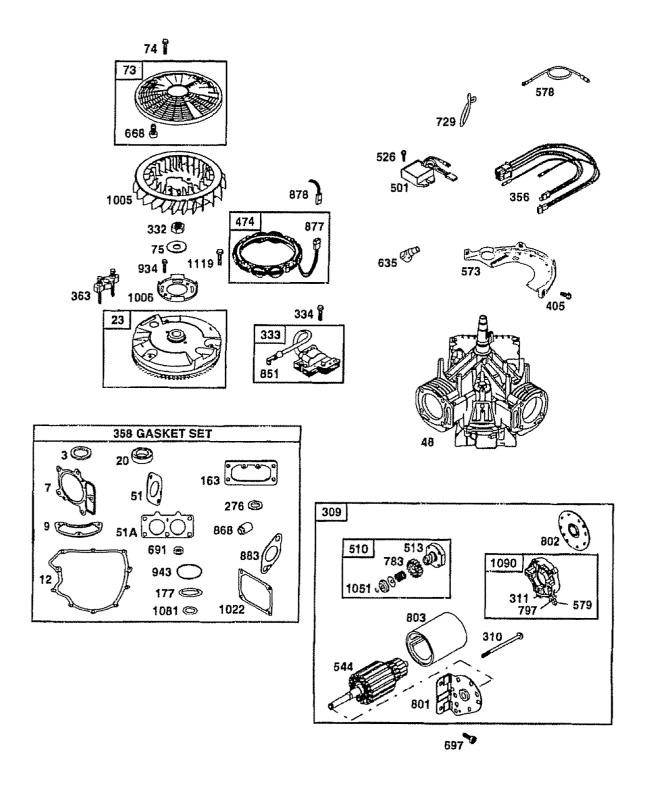
TRACTOR - - MODEL NUMBER 917.272201 BRIGGS & STRATON ENGINE-MODEL NUMBER 445777, TYPE NUMBER 0129-E1



TRACTOR -- MODEL NUMBER 917.272201 BRIGGS & STRATON ENGINE-MODEL NUMBER 445777, TYPE NUMBER 0129-E1



TRACTOR -- MODEL NUMBER 917.272201 BRIGGS & STRATON ENGINE-MODEL NUMBER 445777, TYPE NUMBER 0129-E1



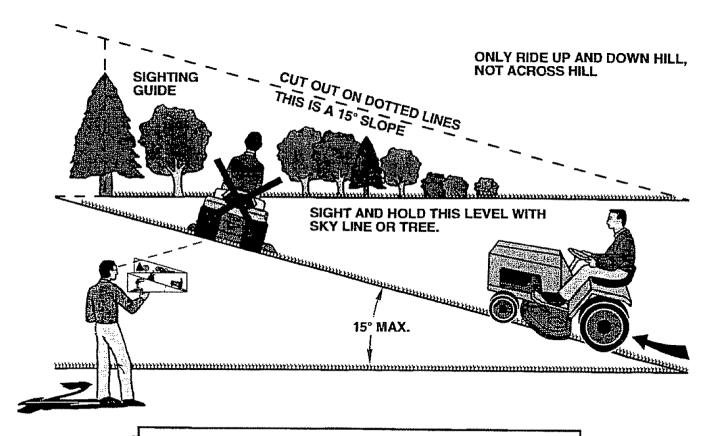
TRACTOR - - MODEL NUMBER 917.272201 BRIGGS & STRATON ENGINE-MODEL NUMBER 445777, TYPE NUMBER 0129-E1

KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1 2 3 4 5 5 7 8 9 10	694001 499585 391086 690069 499587 499595 693997 499601 273370 690960 690942	Cylinder Assembly Bushing/Seal Kit Oil Seal Engine Sump Cylinder Head (Cylinder #1) Cylinder Head (Cylinder #2) V Cylinder Head Gasket Breather Assembly Breather Gasket Screw (Breather Assembly) Breather Tub	131 133 135 137 141 142 146 150 160	690995 690996 273640	Throttle Valve Throttle Shaft Kit Carburetor Float Fuel Transfer Tube ●✦Float Bowl Gasket Choke Shalt Kit ● Carburetor Nozzle Timing Key ●✦Nozzle Gasket Solenoid Retainer *✦ Air Cleaner Gasket
12 13 15 16 20 22 23	273488 94728 94239 690360 690947 690360 691053	Oil Drain Plug Crankshaft Oil Seal Screw (Crankcase Cover) Flywheel	188 192 209 211 212 213	298049 690960 690083 691018 691019 691020 691021	Fuel Line Screw (Control Bracket) Rocker Arm Adjustor Governor Spring Governed Idle Spring Throttle Link Choke Control Bracket
24 25 26	222698 694003 694005 694007 694009 694004 694006	Flywheel Key Piston Assembly (Standard) Piston Assy. (.010 Oversize) Piston Assy. (.020 Oversize) Piston Assy. (.030 Oversize) Ring Set (Standard) Ring Set (.010 Oversize)	219 220 222 227 231	691022 394348 690412 691023 691048 805538 495629	Choke Link Governor Gear Washer (Governor Gear) Control Bracket Governor Control Lever Screw (Choke Valve) Fuel Filter
27 28 29 32	894008 494010 263181 499582 499583 95075	Ring Set (.020 Oversize) Ring Set (.030 Oversize) Piston Pin Lock Piston Pin (Standard) Connecting Rod (Standard) Screw (Connecting Rod)	250 252 265 267 276	690957 690956 221535 695134 690997 691017	Breather Retainer Oil Collector Casing Clamp Screw (Casing Clamp) ** Sealing Washer Washer (Governor Control
33 34 35 36 40 42 45	499596 499597 263163 263163 263215 499586 262679	Exhaust Valve Intake Valve Valve Spring Valve Spring Valve Retainer Valve Keeper Valve Tappet	305 309 310 311 332	691004 691005 691262 95035 497608 230674	Lever) Blower Housing Screw (Blower Housing) Starter Motor Bolt (Starter Motor) Brush Set Nut (Flywheel)
46 48 50 51 51A 53	690978 693292 690948 273487 690950 690951 94913	Camshaft Short Block Intake Manifold *●▼Intake Gasket *●▼Intake Gasket Stud (Carburetor) Screw (Intake Manifold)	334 337 358 358 363	691060 94731 691043 695050 694012 691062 690966	Magneto Armature Screw (Magneto Armature) Spark Plug Stop Wire Engine Gasket Set Flywheel Puller Spark Plug Wrench
73 74 75 89 95 98	691055 691057 691056 690283 805538 499802	Rotating Screen Screw (Rotating Screen) Washer (Flywheel) Oil Plug Screw (Throttle Valve) Idle Speed Kit	385	690960 RPM Settl	Spark (Fuel Pump) Screw (Fuel Pump) ings: Low Speed: 1900-2100 High Speed: 3000-3200 1 Gasket Set, Ref. No. 1095
105 108 117 121 122	690984 690985 690986 690232 690989 499811 690952 499804	 Float Hinge Pin Float Needle Valve Choke Valve Main Jet Main Jet (High Allitude) Carburetor Overhaul Kit Carburetor Spacer Carburetor 	• NOTE	Included in Included in Included in	n Gasket Set, Ref. No. 977 n Gasket Set, Ref. No. 358 n Gasket Set, Ref. No. 121 nent dimensions given in U.S. Inches

TRACTOR - - MODEL NUMBER 917.272201 BRIGGS & STRATON ENGINE-MODEL NUMBER 445777, TYPE NUMBER 0129-E1

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
387 80865		865B 691015	Air Guide Cover
404 69044		868 690968	*▼ Valve Seal
405 94930		871 690969	Gulde Bushing
418 69099 445 49948		877 399916	Alternator Connector Wire
447 94930		878 393362	Alternator Harness (Dual
447A 69096	Screw (Air Guide Cover) Screw (Air Guide Cover)	914 690960	Circuit) Screw (Rocker Arm Cover)
449 69096		918 694000	Vacuum Hose
467 69100	Air Cleaner Knob	929 691003	Screw (Choke Control
474 39329			Bracket)
501 39489	Regulator (Regulated 16	934 94627	Screw (Fan Retainer)
	Amp)	943 690589	 O-Ring Seal (Oil Pump
505 92278	Nut (Governor Control	047 400000	Cover)
E10 40760	Lever)	947 499809 965 499613	Fuel Solenoid
510 49760 513 39800		965 499613 967 273638	Oil Pump Cover Pre-Cleaner Filter
523 69103	Dipstick	968 499788	Air Cleaner Cover
524 69103	Dipstick Tube Seal	975 690992	Float Bowl
525 69103	7 Dipstick Tube	977 499812	Carburetor Gasket Set
526 69096	Screw (Regulator)	987 691000	◆●Throttle Shaft Seal
544 ———	Clarion innatare (Controva	1005 691243	Flywheel Fan
	By 691262 Starter Motor	1006 691247	Fan Retainer
ADALL	Only)	1013 231573 1017 690770	Oil Fifter Nipple
552 690552			Oil Pump Screen
552A 690550 562 93853	Governor Crank Bushing Bolt (Governor Control	1019 693995 1022 273486	Label Kit *▼ Rocker Cover Gasket
302 3000	Laver)	1023 499599	Rocker Arm Cover (Cylinder
573 691009		1020 70000	#1)
578 691208	Wire Assembly	1023A 499600	Rocker Arm Cover (Cylinder
579 92278	Nut (Starter Cable)		#2)
601 95162	Hose Clamp	1024 499054	Oll Pump
615 690317	Governor Shaft Retainer	1026 690981	Push Rod (Steel)
616 691045		1026A 690982	Push Rod (Aluminum)
628 690960 633 690998		1027 492932 1029 690972	Oil Filter Rocker Arm
635 66538	Spark Plug Boot	1035 691042	Pump Shaft
654 94010	Nut (Carburetor)	1036 695104	Emissions Label
668 94401	Spacer	1051 263080	Retaining Ring
672 690234	◆●Carburetor Plate Gasket	1058 273694	Owner's Manual
691 690657	 Governor Shaft Seal 	1090 497605	Brush Retainer
697 690372		1095 694013	Valve Gasket Set Kit
703 691010	Hose Clip	1100 690973	
718 230192 729 694123		1119 93621 1123 690987	Screw (Alternator)
741 690980		1123 030301	◆●O-Ring Seal (Solenoid Retainer)
742 690328		1124 690988	♦●O-Ring Seal (Fuel Transfer
750 691033	Screw (Oil Pump Cover)		Tube)
783 693058	Pinion Gear	1126 690991	Screw (Fuel Transfer Tube)
788 691039		1127 690992	Screw (Float Bowl)
797 693167			Screw (Carburetor Nozzle)
798 690967		1169 693140	Screw (Carburetor Cover
801 499787 802 497607		445777.002	Plate) 7-E1 Replacement Engine
803	Starter Housing (Serviced		7-21 Replacement Engine
	By 691262 Starter Motor	RPM Setting	js: Low Speed: 1900-2100
	Only)		High Speed: 3000-3200
842 280393	 Dipslick/Tube Seal 		- ,
847 499602			Gasket Set, Ref. No. 1095
851 493880			Gasket Set, Ref. No. 977
855 691011 865 691012			Sasket Set, Ref. No. 358 Sasket Set, Ref. No. 121
003 03101Z	Air Guide Cover (Cylinder #1)	wichanga III (Jaskot Oot, Hole 140, 121
865A 691014 Air Guide Cover (Cylinder NOTE: All component dimensions given in U.S. inches			
	#2)	1 inch = 25.4	l mm
	•		

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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