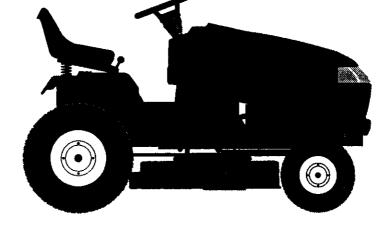
Owner's Manual CRAFTSMAN

20.0 HP ELECTRIC START 46" MOWER AUTOMATIC GARDEN TRACTOR



Model No. 917.273042



This product has a low emission engine which ocerates differenti from previously built enginese. Before voltation the single creation and approximations of merce Manual

- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts

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

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts, etc.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- 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. In-home warranty service on your Craftsman riding equipment is available at no charge for 30 days from the date of purchase. Please contact your nearest service center. After 30 days from the date of purchase, warranty service is available by taking your Craftsman riding equipment to your nearest Sears Service Center. (In-home warranty service will still be available after 30 days from the date of purchase but a standard trip charge will apply). This warranty applies only while this product is in the United States. 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

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 <u>sure</u> 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.

SAFETY RULES

- 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.

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.

- 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.

SAFETY RULES

- 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.
- 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.

A Look for this symbol to point out important safety precautions. It means CAU-TION!!! BECOME AWARE!!! YOUR SAFE-TY 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.

- 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.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

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: 3.5 PINTS W/O FILTER: 3.0 PINTS
SPARK PLUG: (GAP: .030")	Champion RC12YC
VALVE CLEARAN	CE: INTAKE: .004006
	EXHAUST: .004006
GROUND SPEED	FORWARD: 5.8
(MPH):	REVERSE: 2.1
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	16 AMPS@ 3600 RPM
BATTERY:	AMP/HR: 30 MIN. CCA: 240
	CASE SIZE: U1R

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 Sears 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".

MAINTENANCE AGREEMENT

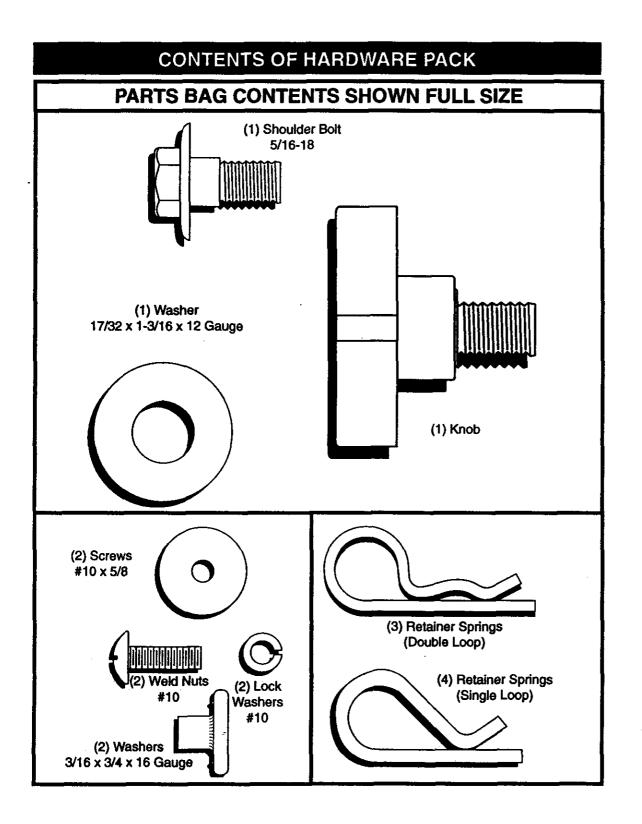
A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

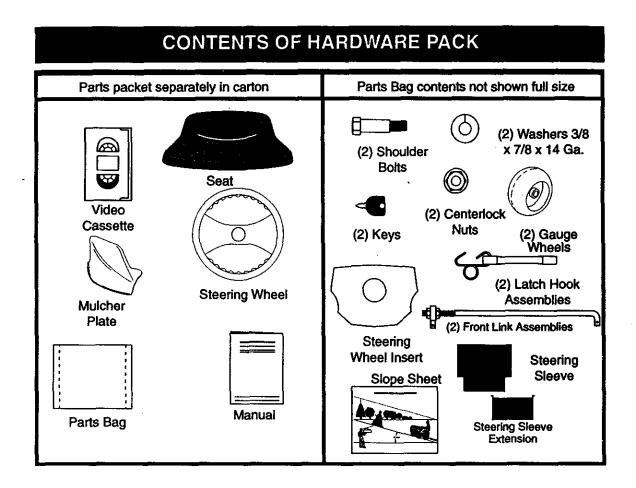
CUSTOMER RESPONSIBILITIES

- · 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.

A WARNING: 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 Sears Authorized Service Center (See REPAIR PARTS section of this manual).





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) 9/16" wrench
- (1) 3/4" Socket w/ drive ratchet
- (1) 1/2" wrench (1) Utility knife

(1) Phillips Screw-

(1)Pliers

driver

(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

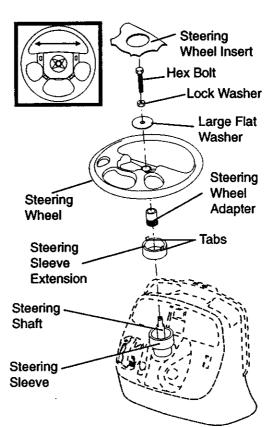
UNPACK CARTON

- Remove all accessible loose parts and parts boxes from shipping carton (See page 6).
- 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 hex bolt, lock washer 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 sleeve extension into bottom of steering wheel.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.
- Secure steering wheel to steering shaft with hex bolt, lock washer 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.



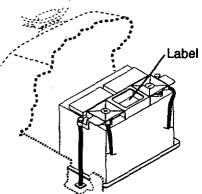
IMPORTANT: Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid. TO ROLL TRACTOR OFF SKID (See

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.

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 cardboard packing on seat pan.
- 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.

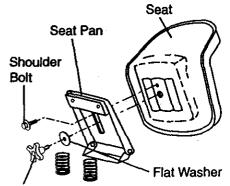
CHECK TIRE PRESSURE

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" on page 5 of this manual.

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.



Adjustment Knob 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 anti-sway 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 right hand front mower bracket and right hand front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in left hand 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 left hand 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 left hand front mower bracket. Retain with single loop retainer spring as shown.
- Place the right hand 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 ADJUST GAUGE WHEELS" in the Operation section of this manual).

CHECK MOWER LEVELNESS

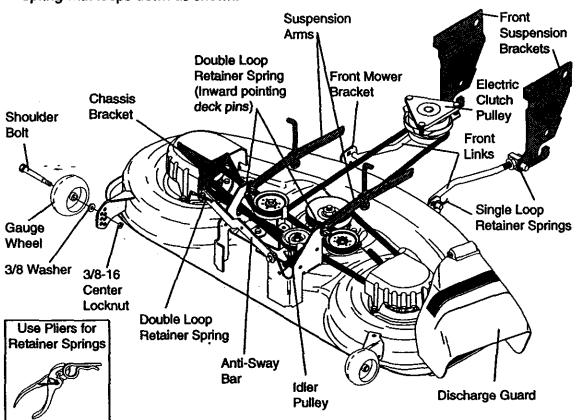
For best cutting results, mower should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

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.

INSTALL MULCHER PLATE

 Install two latch hooks to mulcher plate using screw, washer, lock washer, and weld nut as shown.



NOTE: Pre-assemble weld nut to latch hook by inserting weld nut from the top with hook pointing down.

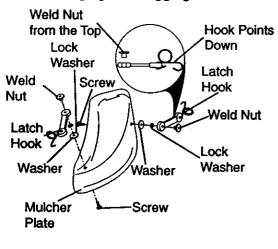
- Tighten hardware securely.
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

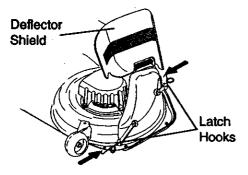
ACAUTION: Do not remove discharge guard from mower. Raise and hold guard when attaching mulcher plate and allow it to rest on plate while in operation.

TO CONVERT TO BAGGING OR DISCHARGING

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

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





✓ CHECKLIST

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 TRANS-MISSION" in the Operation section of this manual).

These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning. FORWARD FAST SLOW BATTERY CAUTION OR REVERSE WARNING STOP ÉREE LIGHTS ON OVER TEMP ENGINE ON ENGINE OFF **OIL PRESSURE** LIGHT MOWER HEIGHT PARKING BRAKE UNLOCKED MOWER LIFT FUEL CHOKE LOCKED ATTACHMENT REVERSE NEUTRAL HIGH LOW PARKING BRAKE **CLUTCH ENGAGED** KEEP AREA CLEAR SLOPE HAZARDS ATTACHMENT (SEE SAFETY RULES SECTION) **IGNITION CLUTCH DISENGAGED** FREE WHEEL DANGER, KEEP HANDS AND FEET AWAY (Automatic Models only)

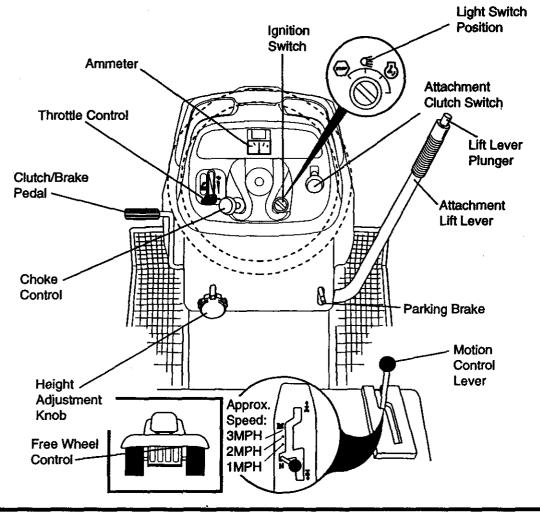
OPERATION

-

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.

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

CHOKE CONTROL: Used when starting a cold engine.

HEIGHT ADJUSTMENT KNOB: Used to adjust the mower cutting height. IGNITION SWITCH: Used for starting and stopping the engine. 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.

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

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

MOTION CONTROL LEVER - Selects the speed and direction of the tractor. FREEWHEEL CONTROL - Disengages transmission for pushing or slowly towing the tractor with the engine off.



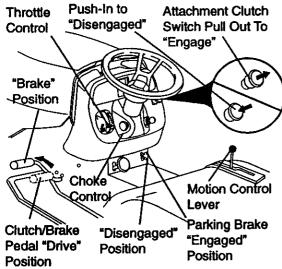
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

HOW TO USE YOUR TRACTOR

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.

TO SET PARKING BRAKE

- 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 "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.

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.

TO ADJUST MOWER CUTTING HEIGHT

The cutting height is controlled by turning the height adjustment knob in desired direction.

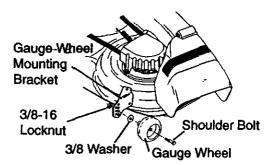
- Turn knob clockwise (C) to raise cutting height.
- Turn knob counterclockwise (O) to
- 14 lower cutting height.

The cutting height range is approximately 1-1/2" to 4-1/2". 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. **CAUTION:** Do not operate the mower

without either the entire grass catcher, on mowers so equipped, or the discharge quard in place.

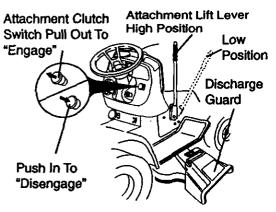
TO OPERATE ON HILLS

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



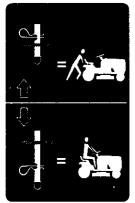
TO TRANSPORT

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

- Raise attachment lift to highest position with attachment lift control.
- Remove retainer spring from freewheel control rod.
- Push control rod in to disengage transmission and reinsert retainer spring into control rod hole now on back side of the bracket.
- Do not push or tow tractor at more than two (2) MPH.
- 15

 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 ATTACHMENTS

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 Customer Responsibilities 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.

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

PURGE TRANSMISSION

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

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

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

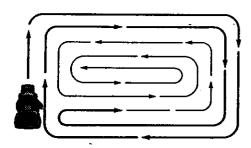
- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control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

MOWING TIPS

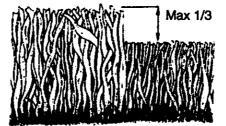
- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings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



MAINTENANCE

CUSTOMER RESPONSIBILITIES

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	.E	EFORE	EACHUS WERY 8	HOURS	SHOUP	SHOUR VERY	S HOUS	ELSON ELSON	SEF	OF	E DAT	TES
	Check Brake Operation	~	1							ŀ			
	Check Tire Pressure	1	1										
т	Check Operator Presence and Interlock Systems	~					·						
R	Check for Loose Fasteners	V				17		1					
A	Sharpen/Replace Mower Blades		1	1.					ļ	-			
C	Lubrication Chart	T		V				V					
o	Check Battery Level			1.		1				1			
R	Clean Battery and Terminals		1	V		1		V		1			
	Check Transaxle Cooling			V		1					1		
	Adjust Blade Belt(s) Tension					1,	1						
	Adjust Motion Drive Belt(s) Tension					V 5							
	Check Engine Oil Level	~	~						1				
	Change Engine Oil			12,3		1		1			1		
Е	Clean Air Filter			1/2				1					
N	Clean Air Screen	1	1	1/2				1					
G	Inspect Muffler/Spark Arrester		1		~					1			
N	Replace Oil Filter (If equipped)					1.2			1	1			
E	Clean Engine Cooling Fins		1	1		12	· · · · · · · · · · · · · · · · · · ·			1			
	Replace Spark Plug					1	1						
	Replace Air Filter Paper Cartridge		1	1		1/2	1						
	Replace Fuel Filter	1					1	1					

1 - Change more often when operating under a heavy load or in high ambient temperatures. 5 - If equipped with adjustable system.

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

3 - If equipped with oil filter, change oil every 50 hours

4 - Replace blades more often when mowing in sandy soil.

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your tractor. All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

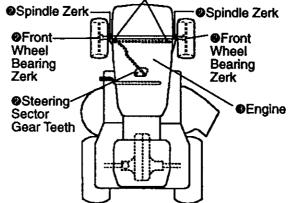
BEFORE EACH USE

- Check engine oil level. ٠
- Check brake operation. .
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

- 6 Not required if equipped with maintenance-free bettery. 7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten

LUBRICATION CHART

Tie Rod Ball Joints



Spray Silicone lubriant (Move Boots to Lubricate) General Purpose Grease

Refer to Customer Responsibilities "ENGINE" Section

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

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 5 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.

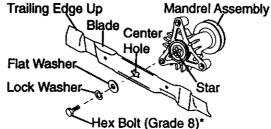
BLADE REMOVAL

- 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.

IMPORTAN *i*: To ensure proper assembly, center hole in biade 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 bolt can be identified by six lines on the bolt head.

TO SHARPEN BLADE

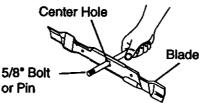
NOTE: We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while 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 MAINTENANCE 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.

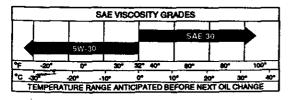
- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

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/department.

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.

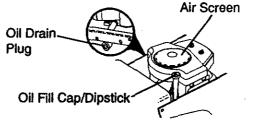
Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

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" on page 5 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.

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.

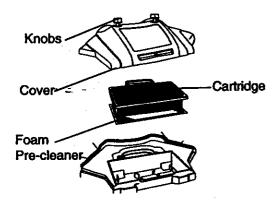
· Remove knobs and cover.

- 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.



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. **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" on page 5 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 property positioned.
- Immediately wipe up any spilled gasoline.

Clamp Clamp Fuel Filter

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

ACAUTION: 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

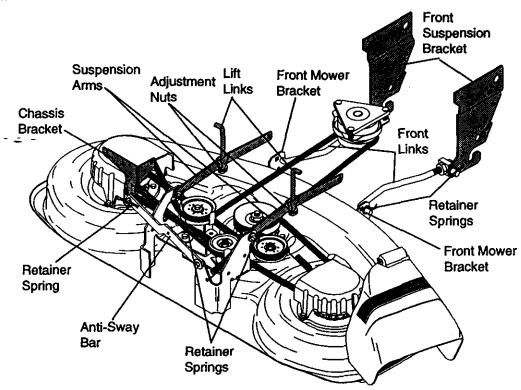
- Place attachment clutch in "DISEN-GAGED" position.
- Turn height adjustment knob to lowest setting.
- Lower mower to its lowest position.
- Remove retainer spring holding antiswaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove retainer springs from suspension arms at deck and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

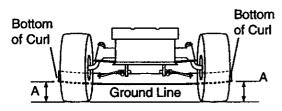
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS"). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT

- Raise mower to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- 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 3/16".

· Recheck measurements after adjusting.



FRONT-TO-BACK ADJUSTMENT

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

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

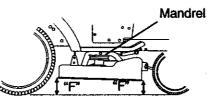
Check adjustment on right side of tractor. Measure distance "F" directly in front of and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower housing, loosen nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnice on both front links.

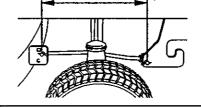
- To raise front of mower housing, loosen nut "H" from trunnion on both front links. Tighten nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.

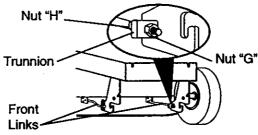
NOTE: Each full turn of nut "G" will change dim. "F" by approximately 3/8".

· Recheck side-to-side adjustment.



Both Front Links Should be Equal in Length





TO REPLACE MOWER DRIVE BELT

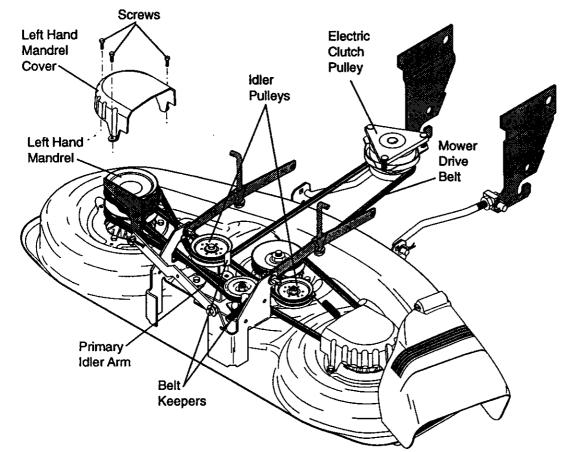
MOWER DRIVE BELT REMOVAL

- 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.

- 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.
- Róll 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.

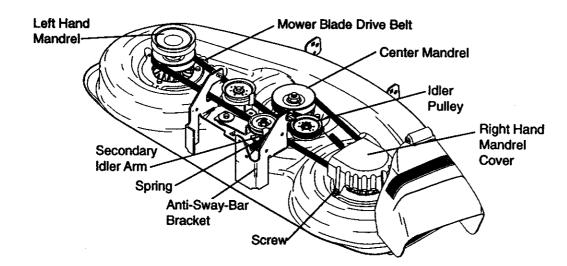


TO REPLACE MOWER BLADE DRIVE BELT

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove 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.

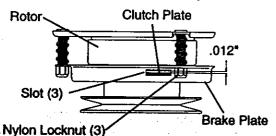
- Check secondary idler arm and idler to see that they rotate freely.
- Be sure spring is hooked in secondary idler arm and sway-bar bracket.
- Install new belt in lower groove of left hand mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Roll beit over right hand mandrel pulley. Make 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 "INSTALL 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 ATTACHMENT CLUTCH

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear which may cause the mower blades to not engage, or, to not stop as required. Adjustments should be made by your nearest authorized service center/department.

- Make sure attachment clutch and ignition switches are in "OFF" position.
- Adjust the three nylon locknuts until space between clutch plate and rotor measures .012" at all three slot locations cut in the side of brake plate.



NOTE: After installing a new electric clutch, run tractor at full throttle and engage and disengage electric clutch 10

cycles to wear in clutch plate. 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 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". 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 nearest authorized service center/department.

Nut "A" Jam Nut -1/2 Operating Arm

TO REPLACE MOTION DRIVE BELT

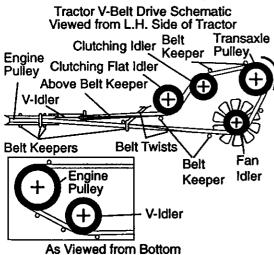
Park the tractor on level surface. Engage parking brake. For ease of service there is a belt installation guide decal on bottom of left footrest.

- **Remove mower (See "TO REMOVE** MOWER" in this section of this manual.)
- **BELT REMOVAL -**
- Engage parking brake (creates slack in belt).
- Remove belt from clutching and fan idler pulleys.
- Loosen belt keeper above transaxie pulley.
- Remove belt from transaxle pulley.
- Remove belt from engine pulley and ٠ front V-idler pulley.
- Pull belt out of all belt keepers and • remove from tractor.

With Parking Brake "Engaged"

BELT INSTALLATION

- Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of all belt keepers.
- Route belt on right side, coming from Vidler, towards back of tractor, above midspan belt keeper and to top of transaxle pulley.
- Route belt on left side, coming from engine pulley, towards back of tractor and through loop in midspan belt keeper.
- Place V part of belt into grooves on transaxle and fan idler pulleys, making sure to route belt inside of all belt keepers.
- Retighten belt keeper above transaxle pulley.
- Place belt around clutching idlers as shown, making sure to route belt inside of all belt keepers.
- Check to be sure belt is positioned correctly and is on proper side of all belt keepers.
- Reinstall mower.
- **IMPORTANT:** Check brake adjustment.



TO ADJUST MOTION CONTROL LEVER

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

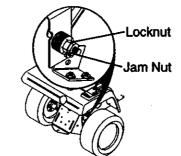
If for any reason the motion control lever will not hold its position while at a selected speed, it may be adjusted at the friction pack located on the right side of chassis.

- Park tractor on level surface. Stop tractor by turning ignition key to "OFF" position and engage parking brake.
- Place motion control lever in neutral (N) position.
- While holding locknut, loosen jam nut
- Tighten locknut 1/4 turn.
- While holding locknut, tighten jam nut securely.

NOTE: If for any reason the effort to move the motion control lever becomes too excessive, reverse the above adjustment procedure by loosening locknut 1/4 turn.

Road test tractor after adjustment and repeat procedure if necessary. 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 ADJUSTMENT

Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

TO CHECK TOE-IN

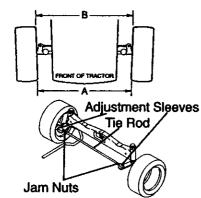
- · Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

TO ADJUST TOE-IN

- Loosen jam nuts at adjustment sleeves on tie rod.
- Adjust tie rod until dimension "A" is 1/8" to 1/4" less than dimension "B".
- Tighten jam nuts securely.

FRONT WHEEL CAMBER

The front wheel camber is not adjustable on your tractor. If damage has occurred to affect the front wheel camber, contact your nearest authorized service center/department.



TO REMOVE WHEEL FOR REPAIRS

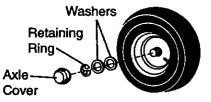
FRONT WHEEL

- · Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal.
- Repair tire and reassemble.
- Replace washers and snap retaining ring securely in axle groove.
- Réplace axlé cover.

REAR WHEEL

- · Block rear axle securely.
- Remove five (5) hub bolts to allow wheel removal.
- Repair tire and reassemble. Replace and tighten hub bolts securely.

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



TO START ENGINE WITH A WEAK BAT-TERY

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

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

If "jumper cables" are used for emergency starting, follow this procedure: IMPORTANT: Your tractor is equipped

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

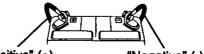
TO ATTACH JUMPER CABLES -

 Connect each and of the RED cable to the POSi FIVE (+) terminal of each battery, taking care not to short against chassis.

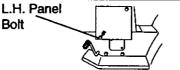
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- charged battery.
 Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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



"Positive" (+) "Negative" (-)

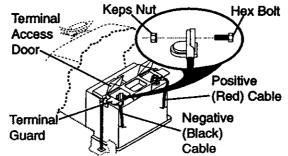


REPLACING BATTERY

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

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

- Lift 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 términal 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.

TO REPLACE FUSE

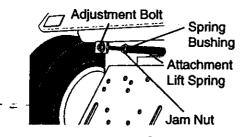
Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

formed by an authorized engine manufacturer's service outlet.

TO ADJUST ATTACHMENT LIFT SPRING

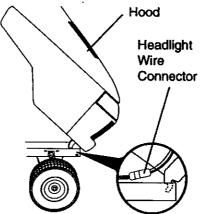
- While holding spring bushing with wrench, loosen jam nut.
- Turn adjustment bolt clockwise to extend spring and reduce lift effort for heavier attachments.
- Turn adjustment bolt counterclockwise for lighter attachments.
- Retighten jam nut against spring bushing.

IMPORTANT: Do not adjust for maximum spring tension when using light attachments such as a mower. Adjust lift lever spring to aid in lifting attachment. Do not overpower spring. When removing attachment, always adjust spring tension to its lowest position.



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 nonroad engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE

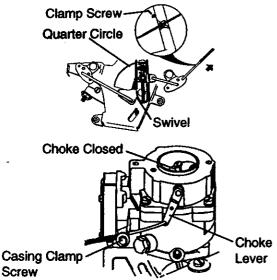
The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

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

TO ADJUST CHOKE CONTROL

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

- With engine not running, move choke control (located on dash panel) to full choke position.
- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (see "AIR FILTER" in the Customer Responsibilities section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- Reassemble air cleaner.



TO ADJUST CARBURETOR

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

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

PRELIMINARY SETTING

- 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 1200 to 1400 RPM.

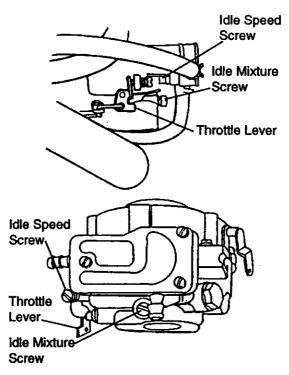
- While still holding throttle lever against idle speed screw, turn idle mixture screw in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- Continue to hold throttle lever against idle speed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

ACCELERATION TEST

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

High speed stop is factory adjusted. Do not adjust - 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.

ACAUTION: 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, boits 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. Wait 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. 			

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TROUBLESHOOTING CHART

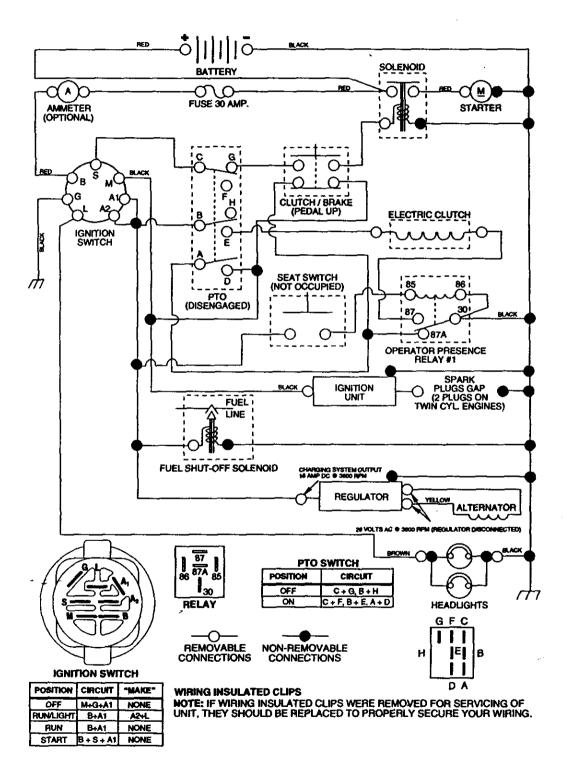
PROBLEM	CAUSE	CORRECTION
Loss of power	Cutting too much grass/too	Set in "Higher Cut" posi-
	fast.	tion/reduce speed.
	Throttle in "CHOKE" position.	Adjust throttle control.
	Build-up of grass, leaves and	Clean underside of mower hous-
4	trash under mower.	ing.
	Dirty air filter.	Clean/replace air filter.
	Low oil level/dirty oil.	Check oil level/change oil.
	Faulty spark plug.	Clean and regap or change
		spark plug.
	Dirty fuel filter.	Replace fuel filter.
	Stale or dirty fuel.	Drain fuel tank and refill with fresh gasoline.
	Water in fuel.	 Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.
	Spark plug wire loose.	Connect and tighten spark plug wire.
	• Dirty engine air screen/fins.	Clean engine air screen/fins.
	 Dirty/clogged muffler. 	Clean/replace muffler.
	Loose or damaged wiring.	Check all wiring.
	Carburetor out of adjustment.	 See "To Adjust Carburetor" in Service and Adjustments section.
	Engine valves out of adjust-	Contact an authorized service
	ment.	center.
Excessive vibration	• Worn, bent or loose blade.	 Replace blade. Tighten blade bolt.
	Bent blade mandrel.	Replace blade mandrel.
	 Loose/damaged part(s). 	 Tighten loose part(s). Replace
	Coservanaged part(s).	damaged parts.
Engine continues to run when operator	Faulty operator-safety pres- ence control system.	Check wiring, switches and con- nections. If not
leaves seat with at- tachment clutch engaged	ence control system.	corrected, contact an authorized service center/ department.
Poor cut - uneven	• Worn, bent or loose blade.	Replace blade. Tighten blade bolt.
	Mower deck not level.	 Level mower deck.
	 Mower deck hollevel. Buildup of grass, leaves, and 	 Clean underside of mower hous-
	 Buildup of grass, leaves, and trash under mower. 	
	Bent blade mandrel.	ing. • Benjace blade meadral
		 Replace blade mandrel. Clean around mandrels to open
	Clogged mower deck vent holes from buildup of	 Clean around mandreis to open vent holes.
	grass, leaves, and trash	*0/1C110/03.
	around mandrels.	
Mower blades will not	Obstruction in clutch mecha-	Remove obstruction.
rotate	nism.	
	Worn/damaged mower drive beit.	Replace mower drive belt.

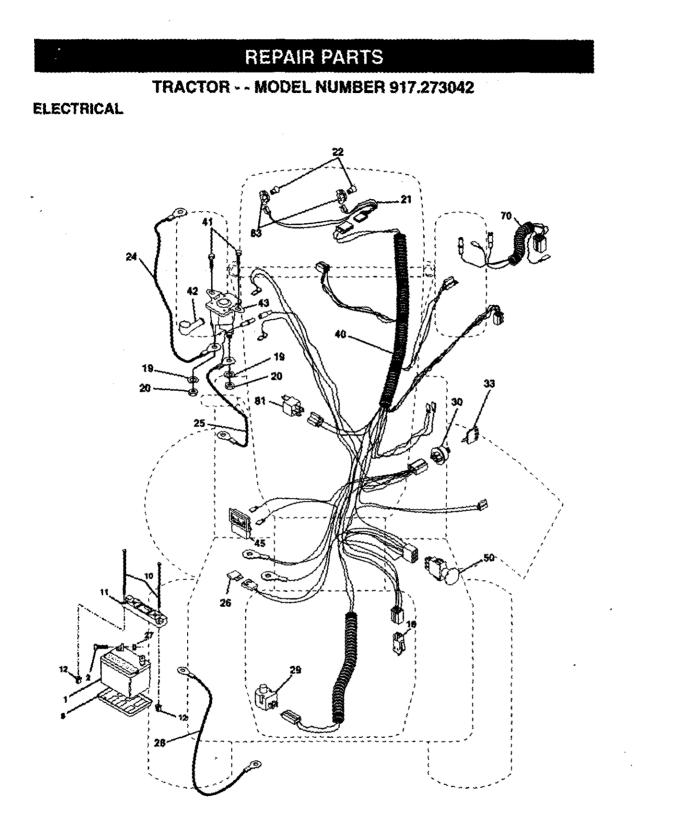
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TROUBLESHOOTING CHART

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

SCHEMATIC





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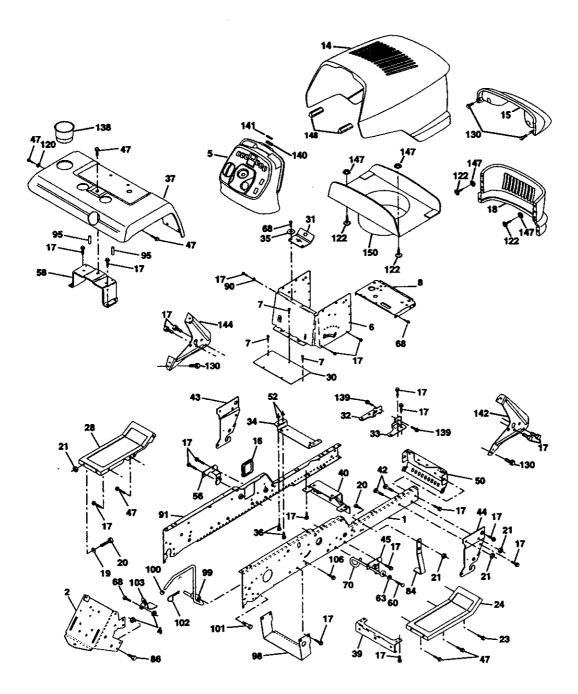
ELECTRICAL

KEY	PART	
NO.	NO.	DESCRIPTION
1	144926	Battery
2	74760412	Bolt Hex Head 1/4-20 x 3/4
8	7603J	Tray, Battery
10	145211	Bolt 1/4-20 x 7.5 Zinc
11	150109	Hold down Battery Dash Mount
12	145769	Nut Push Nylon 1/4"
16	153664	Switch Interlock Push-In
19	STD551125	Washer, Lock 1/4
20	73350400	Nut, Jam Hex 1/4-20
21	161785	Harness Headlight
22	4152J	Bulb Light
24	4206J	Cable, Battery
25	146149	Cable, Battery
	108824X	Fuse
	73510400	Nut Keps Hex 1/4-20 UNC
	4207J	Cable, Ground
29		Switch, Plunger
30		Switch, Ign
33		Key, Ignition
	164417	Harness Ign.
41	17720408	Screw 1/4-20 x 1/2
42		Cover, Terminal
43	145673	Solenoid
	122822X	Ammeter
	154963	Switch, PTO
70		Harness, Engine BS/Intek VGT
81	109748X	Relay Asm.
83	163996	Bulbholder Asm Incandescent SV

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

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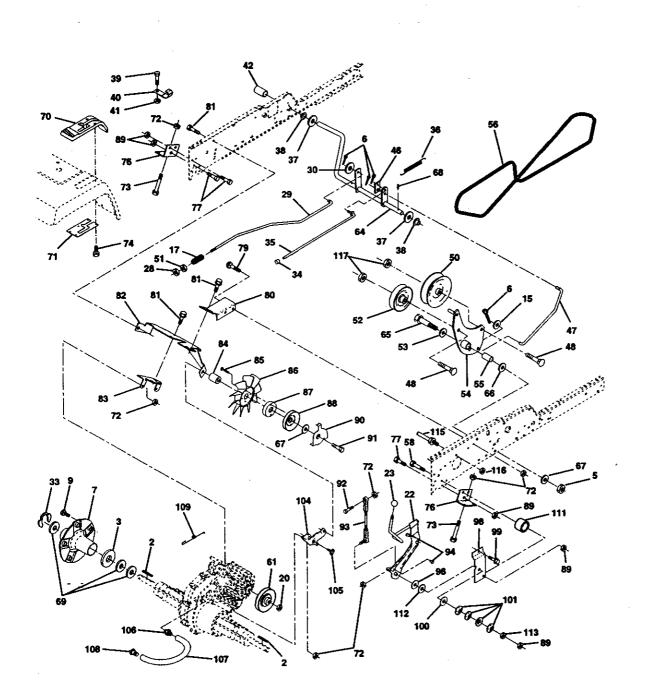
TRACTOR - - MODEL NUMBER 917.273042 CHASSIS AND ENCLOSURES



CHASSIS AND ENCLOSURES

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	150253	Rail, Frame RH VGT	56	154914	Bracket Asm., Susp Chassis Lh
2	140506	Drawbar, Gt	58	137113	Bracket Asm., Fender
4	73800700	Nut, Lock Hex 7/16 Unc	60	17490620	Screw Thdrol 3/8-16 x 1-1/4
5	163976	Dash	63	19131614	Washer 13/32 x 1 x 14 Ga.
6	157882	Dash Asm., Lower VGT	68	17490508	Screw, Thd 5/16-18 x 1/2
7	17720408	Screw, Thd Cut 1/4-20 x 1/2	70	137159	Guide, Belt Mid Span
8	145166	Support, Dash 1-Pc. Battery	84	142992	Stop, Over Center Mower
14	161023X558	Hood Asm.	86	74760716	Bolt, Fin Hex 7/16-14 Unc x 1
15	160568	Lens, Asm Headlight	90	11050600	Washer, Lock External Tooth
16	121794X	Cover, Access			3/8
17	17490612	Screw, Thdrol 3/8-16 x 3/4	91	156586	Rail, Frame Lh VGT
18	160564X558	Grille Stealth	95	105531X	Push Nut, Nylon
19	19131312	Washer 13/32 x 13/16 x 12 Ga.	98	140503	Bracket Skid Chassis
20	74760616	Bolt, Fin Hex 3/8-16 x 1	99	140871	Rod By Pass
21	73680600	Nut, Crownlock 3/8-16 Unc	100	124236X	Cap By Pass Rod
23	17490616	Screw, Thdrol 3/8-16 x 1 TY-TT	101	17490628	Screw Thdrol 3/8-16 x 1-3/4
24	145243X558	Footrest, RH LT/YT/GT 95	102	STD624003	Retainer, Spring
28	145244X558	Footrest, LH LT/YT/GT 95	103	142273	Lock, By Pass
30	145052	Saddle, Hydro 1995	106	138776	Bolt 5/16-18 Type TT
31	161419	Bracket Support 1-pc VGT	120	19131616	Washer 13/32 x 1 x 16 Ga.
		Steering	122	161464	Screw Hex Wshd. 8-18 x 7/8
32	161327	Bracket Pivot Chassis Lh	130	17521312	Screw Sitd Hex Hd W/Pin
33	161326	Bracket Pivot Chassis Rh	400		Washer
34	142131	Bracket, Engine Support	138	163975X428	
35	19111116	Washer 11/32 x 11/16 x 16 Ga.	139	161330	Bolt Shoulder 5/16-18 TT
36	74780512	Bolt, Fin Hex 5/16-18 x 3/4	140	163806	Magnet
37	163982X558	Fender	141	163805	Striker Plate
39	136961	Bracket, Axle Front	142	161897	Bracket Dash Rh
40	156111	Bracket, Support Axle/Engine	144	161900	Bracket Dash SLh
42	72140608	Bolt, Carriage 3/8-16 x 1	146	161576	Baffle VGT
43	136939	Bracket, Spnsn Front Lh	147	162967	Fastener Nutpal
44	136940	Bracket, Spnsn Front Rh	148	164655	Extrusion Bumper .006 x 3.50 Duct Heat Hood Stealth GT CV
45	154913	Bracket Asm., Susp Chassis Rh	150	161237	Luci near nood Stearn G1 CV
47	17490608	Screw Thdrol 3/8-16 x 1/2			
50	152728	Bracket, Chassis Front	NOTE:		dimensions given in U.S. inches
52	73680500	Nut, Crownlock 5/16-18		1 inch = 25.4 m	nm í

GROUND DRIVE



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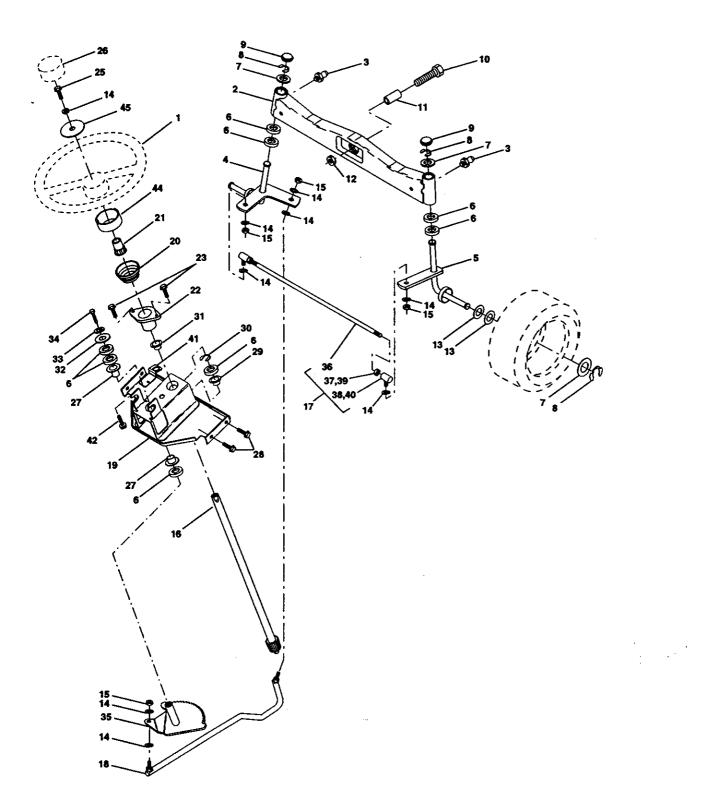
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GROUND DRIVE

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KE NC	Y PART	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2	7070E	Key 1/4 x 2.5	70	164892	Console Automatic YT/GT
3	7563R	Washer, Thrust, Axle	71	151179	Plate Console Shift
5	STD541437	Nut, Crownlock 3/8-16	72	STD541431	Nut, Crownlock 5/16-18
6	STD561210	Pin. Cotter	73	74490548	Bolt Hex Fighd 5/16-18 x 3 Gr5
7	140507	Wheel, Hub Assembly	74	142432	Screw Hex Wsh. Hi-Lo 1/4-1/2
9	140080	Bolt, Hub	76	140481	Bracket Transaxle
15	STD551037	Washer 13/32 x 13/16 x 16 Ga.	77	74760716	Bolt Fin Hex 7/16-14 x 1
17	140921	Spring	79	72110505	Bolt Carriage 5/16-18 x 5/8
20	73940800	Nut Hex Jam Toplock 1/2-20	80	140484	Bracket Torque RH
22	156103	Arm Asm Shift	81	17490612	Screw Thdrol 3/8-16 x 3/4
23	130564	Knob	82	150586	Bracket Mount Torque/Fan
28	STD541237	Nut	83	140479	Strap Torque Mid
29	140494	Brake, Rod	84	140490	Spacer
30	19131616	Washer 13/32 x 1 x 16 Ga.	85	17541020	Screw #10-24 x 1-1/4
33	12000053	Ring E	86	140462	Fan 7* Hydro
34	124236X	Cap, Plunger	87	140491	Adapter Fan
35	137648	Rod, Parking Brake	88	161592	Pulley Idler
36	149412	Spring, Drive Ground	89	73680700	Nut Crownlock 7/16-14 Unc
37	121749X	Washer 25/32 x 1-1/4 x 16 Ga.	90	140489	Keeper Belt
38	150035	Nyfiner	91	17490644	Screw Thdrol 3/8-16 x 2-3/4
39	74321016	Screw, Fin. #10-24 x 1	92	74760520	Bolt Fin Hex 5/16-18 x 1.25
40	5304J	Actuator, Interlock Switch	93	140502	Link Shift Asm
41	73661000	Top Lock #10-24	94	133835	Fastener Christmas Tree
42	8883R	Cover, Pedal	96	141103	Washer Nickel Plated
46	145170	Retainer, Spring	98	141004	Bracket Shift
47	138228	Clutch Rod	99	17490624	Screw Thdrol 3/8-16 x 1-1/2
48	72110612	Bolt, Carriage 3/8-16 x 1-1/2	100	126881X	Washer Compression
		Gr. 5	101	156106	Washer Bellville
50	131494	Pulley, Idler, Flat	104	140480	Bracket Idler
51	STD541437	Nut, Crownlock 3/8-16 UNC	105	17580408	Screw Tap 1/4-20 x 1/2
52 53	139123	Pulley, Idler, Grooved	106	142918	O-Ring Asm Hydro Gear 70110
	207J	Washer, Hardened	107	154739	Line Fuel Hydro 15" VGT
54 55	161590	Clutch, Arm Assembly	108	142917	Cap Asm Vent Hydro Gear
55 56	105706X 140218	Bearing, Idler	400		70109
50 58	74760724	V-Belt Bolt Fin Haw 7/10, 14 - 1, 1/0	109	140929	Spring Return Brake
56 61	140488	Bolt Fin Hex 7/16-14 x 1-1/2	111	156240	Spacer Shift Lever VGTH
64	154752	Pulley, Transaxle Shaft, Clutch/Brake Pedal	112	156104	Washer Nylon High Temp
65	67609		113	73220700	Nut-Hex ASF 7/16-14 UNC
66	140296	Bolt, Shoulder Washer, Hardened	115	123405X	Keeper Belt T/A Gnd Dr
	19131312	Washer, Flat	116	73900500	Nut Lock Hex Flange 5/16-18
68	5142H	Pin, Roll	117	73900600	Nut, Lock Fig. 3/8-16
69	123800X	Washer		163198	Transaxle (See Breakdown) Hydro Gear 222-3010L
	.20000	T T GI	NOTE:	All component o	timensions given in U.S. inches

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm TRACTOR - - MODEL NUMBER 917.273042 STEERING ASSEMBLY



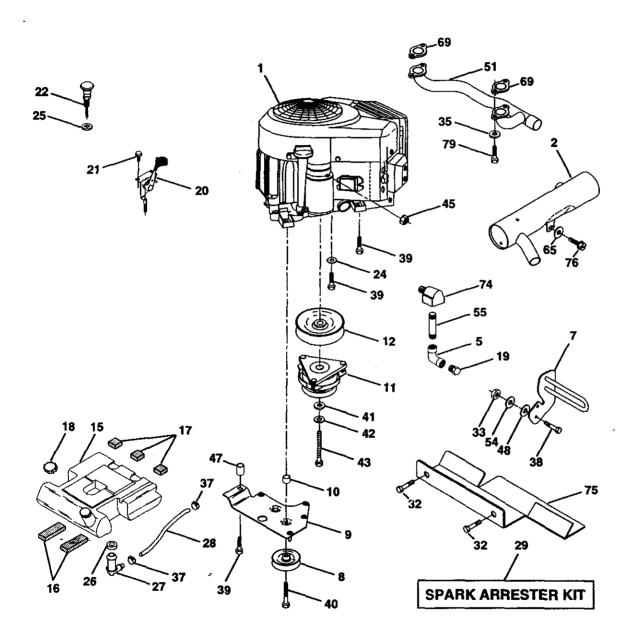
STEERING ASSEMBLY

KEY	PART	
NO.	NO.	DESCRIPTION
1	159944X428	Wheel, Steering
2	137094	Axle Asm., Front
3	6855M	Fitting, Grease
4	161849	Spindle Asm, LH
5	161848	Spindle Asm., RH
6	6266H	Bearing, Race Thrust Harden
7	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8	12000029	Ring, Klip #T5304-75
9	121232X	Cap, Spindle
10	74781044	Bolt, Fin Hex 5/8-11 x 2-3/4
11	136518	Spacer Bearing Axie Front
12	73901000	Nut, Lock Flange 5/8-11 Unc
13	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
14	STD551137	Washer, Lock Hvy Hicl Spr 3/8
15	STD541537	Nut, Lock Center 3/8-24 UNF
16	145103	Shaft Asm., Steering
17	137347	Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40)
18	137155	Draglink, Ball Joint Solid Vgt
19	156011	Support Asm., Steering Vgt
20	163887	Boot, Steering
21	159945	Adapter, Wheel Steering
22	155105	Bushing, Strg. Blk
23	152927	Screw
25	74780616	Bolt, Fin Hex 3/8-16 x 1 Gr. 5
26	159946X428	Cap, Wheel Steering
27	3366R	Bearing, Col. Strg.
28	17490612	Screw, Thrdrol 3/8-16 x 3/4
29	104239X	Bearing, Flange
30	12000034	Ring, Klip Truarc #5304-75
31	138136	Bushing, Nyliner Snap
32	19111610	Washer 11/32 x 1 x 10 Ga.
33	STD551131	Washer, Lock Hvy Hkl Spr 5/16
34	74760512	Bolt, Hex Hd 5/16-18 x 3/4
35	138059	Gear, Sector Steering
36	137156	Tie Rod
37	73360600	Jam Nut RH Thread
38	109850X	Joint Asm. Ball RH Thread
39	73700600	Jam Nut LH Thread
40	109851X	Joint Asm. Ball LH Thread
41	155246	Bracket Switch Interlock VGT 97
42	17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
44	160135	Extension, Steering
45	19132411	Washer 13/32 x 1-1/20 x 11 Ga.
NUTE	As component	dimensions given in U.S. inches

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1 inch = 25.4 mm

ENGINE

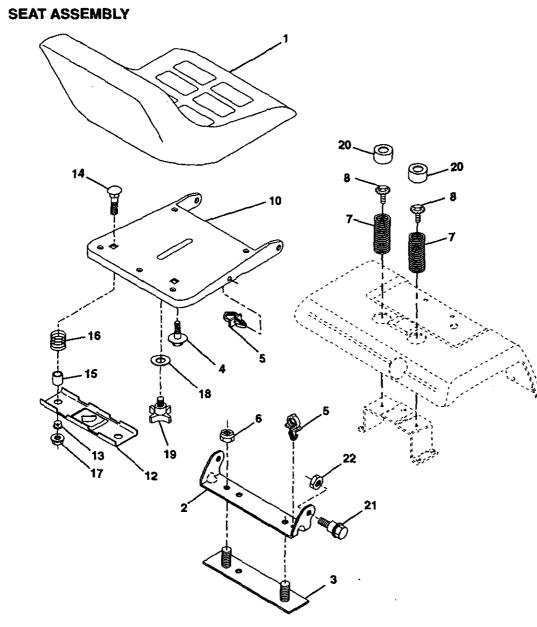


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ENGINE

KEY NO.	PART NO.	DESCRIPTION
1		Engine (See Breakdown) B &S 407777-0122-E1
2	161062	Muffler Side 1-1/8"
5	13200300	Elbow STD 90 Degree 3/8 - 18 NPT
7	151396	Muffler Asm Guard
8	121361X	Pulley V-Idler
9	150828	Belt Engine Keeper Asm VGT 96
10	105432X	Bushing
11	140923	Clutch Electric
	143996	Pulley Engine VGT Elect Clutch
	151346	Tank Fuel Rear 3.50 YT/GT 96
	109227X	Pad Spacer
	106082X	Pad Spacer
18	161493	Cap Fuel 5-1/2" Vented Cov.
	13290300	Plug Oil Drain (Order From Engine Manufacturer)
20	164067	Control Throttle
21	17521312	Screw SLTD Hex Hd w/Pin Washer
22	164068	Control Choke
24	STD551237	Lockwasher Ext Tooth 3/8
25	73920600	Nut Keps 3/8 - 24 UNF
26 27	3645J	Bushing Stem Tank Fuel
27	139277	
20 29	7834R	Fuel Line
32	132920 17490508	Spark Arrester Kit Screw Thdrol 5/16-18 x 1/2
33	STD551437	Nut Lock Hex w/ins. 3/8 - 16
35	10040500	Washer Lock Hwy HLCL 5/16
-	123487X	Clamp Hose
38	74780624	Bolt Fin Hex 3/8 - 16 x 1-1/2
39	17490636	Screw TT 3/8-16 x 2-1/4 Unc
40	17490664	Screw TT 3/8-16 x 4
41	126197X	Washer 1-1/2 OD X 15/32 ID X .250
42	STD551143	Washer Lock 7/16
43	150280	Bolt Hex 7/16 - 20 X 4-1/4 Ga 5
45	128861	Nut Flange 1/4-20 Starter Nut
47	142040	Spacer Engine
48	19132007	Washer 13/32 x 1-1/4 x 7 Ga.
51	161064	Manifold Pipe VGT
54	19131414	Washer Flat 13/32 x 7/8 x 14 Ga.
55	13280336	Nipple Pipe 4-1/2
65	19131614,	Washer 13/32 x 1 x 14 Ga.
69	165391	Gasket Muffler
74	162295	Elbow Street Brass
75	163776	Shield Heat Intek
76	17490612	Screw Thdroi 3/8-16 x 3/4
79	71070512	Screw Hex Hd Cap 5/16-18 x 3/4

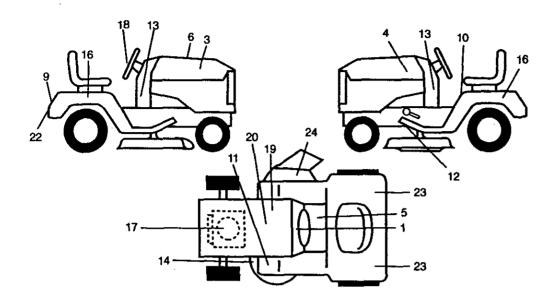
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140124	Seat	13	121248X	Bushing, Snap
2	140551	Bracket, Pivot Seat	14	72050412	Bolt, Carriage 1/4-20 X 1-1/2
3	140675	Strap, Fender	15	121249X	Spacer, Split
4	127018X	Bolt, Shoulder 5/16-18 x .62	16	123740X	Spring, Cprsn
5	145006	Clip, Push In, Hinged	17	123976X	Nut, Lock 1/4 Lge Fig Gr. 5
6	STD541437	Nut, Crownlock 3/8-16 Unc	18	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
7	124181X	Spring, Seat Cprsn	19	120068X	Knob, Seat 1/2-13 Unc
8	150176	Bolt 5/16-18 Unc x 3/4 w/Sems	20	124238X	Cap, Spring Seat
10	155925	Pan, Seat	21	153236	Bolt, Shoulder 5/16-18
12	121246X	Bracket, Mounting Switch	22	STD541431	Nut, Crownlock 5/16-18 Unc
		•	NOTE:	All component (dimensions given in U.S. inches
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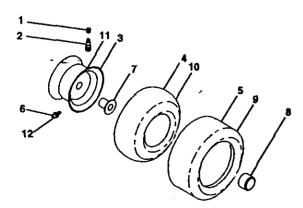
1 inch = 25.4 mm

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	164094	Decal, Dash	17	165407	Decal, Engine
3	163916	Decal, Hood, Craftsman, RH	18	164065	Decal, Insert Strg
4	163917	Decal, Hood, Craftsman, LH	19	138047	Decal, Battery
5	140837	Decal, Brake Parking Saddle	20	149516	Decal, Battery
6	133644	Decal, Maintenance	22	142342	Decal, Drawbar CNTRL
9	163204	Decal, Fender, Craftsman	23	106202X	Reflector, Taillight
10	156439	Decal, Fender, Danger	24	163203	Decal, Mower EZ
11	4900J	Decal, Clutch/Brake		138311	Decal, Handle LFT Height Adj.
12	146790	Decal, V-Belt Drive Schematic			(Lift Handle)
13	163257	Decal, Dash Phi		157199	Pad Footrest
14	160397	Decal, V-Belt Schematic		166190	Manual, Owner's (Eng)
16	163230	Decal, Fender Auto		166191	Manual, Owner's (Span)

WHEELS & TIRES



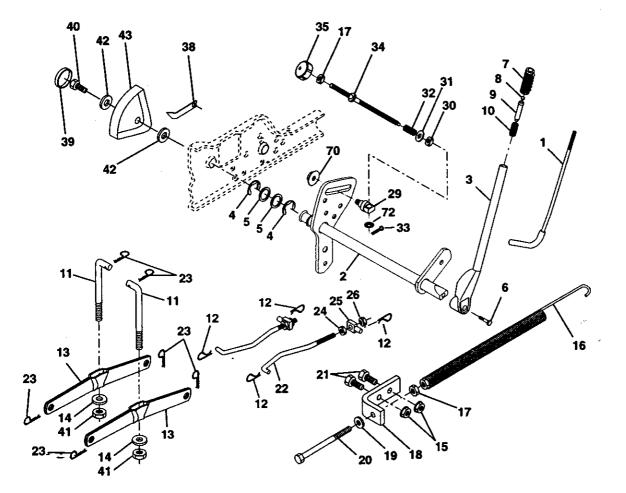
KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106228X427	Rim Assembly, Front
4	8134H	Tube, Front (Service Item Only)
5	106230X	Tire, Front
6	278H	Fitting, Grease
7	9040H	Bearing, Flange (Front Wheel Only)
8	104757X	Hub Cap, Axle
9	105588X	Tire Rear
10	7154J	Tube, Rear (Service Item Only)
11	106277X427	Rim Assembly, Rear
12	6856M	Fitting, Grease
	144334	Sealant, Tire (10 oz. Tube)
NOTE	All component	dimensions given in U.S. inches

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1 inch = 25.4 mm

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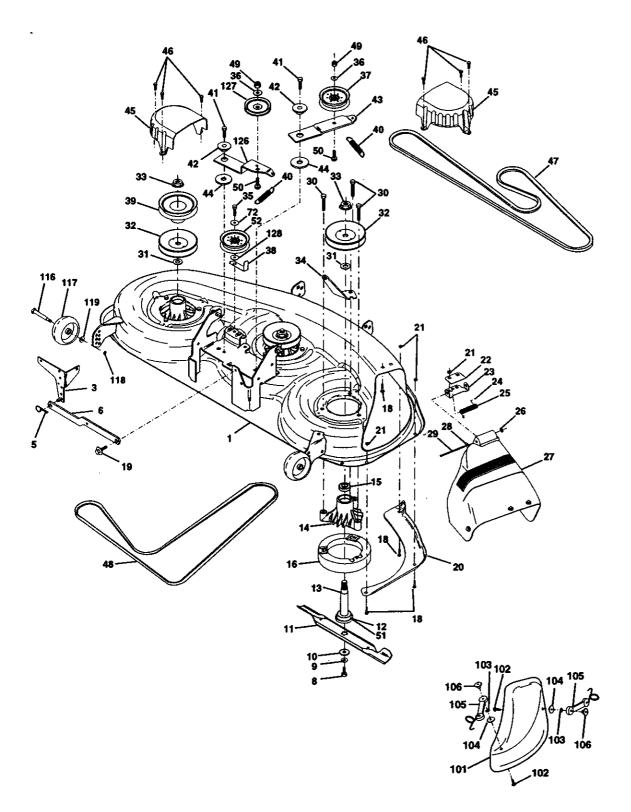
LIFT ASSEMBLY



LIFT ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	121006X	Rod Asm., Lever
2	159187	Shaft Asm., Lift Vgt
3	159189	Lever Asm., Lift Rh
4	12000022	E-Ring Truarc #5133-87
5	19292016	Washer 29/32 x 1-1/4 x 16 Ga.
6	74780624	Bolt, Fin Hex 3/8-16 x 1-1/2
7	125631X	Grip, Handle Fluted
8	122365X	Button, Plunger
9	122364X	Plunger, Button
10	2876H	Spring 2-1/8"
11	146704	Link Lift
12	163552	Retainer, Spring
13	139868	Arm, Suspension Vgt
14	140302	Bearing
15	STD541437	Nut, Crownlock 3/8-16 Unc
16	674A247	Spring Asm., Assist Lift
17	STD541237	Nut, Hex Jam 3/8-16 Unc
18	143363	Bracket, Spring Assist
19	STD551037	Washer 13/32 x 13/16 x 16 Ga.
20	5328.j	Bolt, Adjust Spring Assist
21	STD523710	Bolt, Fin Hex 3/8-16 x 1
22	127218	Link, Front
23	STD624008	Retainer, Spring
24 25	73350800	Nut, Jam Hex 1/2-13 Unc
25 26	130171 73680800	Trunnion
20 29	150233	Nut, Crownlock 1/2-13 Unc Trunnion, Infin Height
29 30	110807X	Nut, Special
30	19131016	Washer 13/32 x 5/8 x 16 Ga.
32	137150	Spring, Compression Inf Hgt
33	STD560907	Pin, Cotter 3/32 x 1/2
34	137167	Rod, Adj Lift
35	138057	Knob, Inf 3/8-16 Unc
38	155097	Pointer, Height Indicator
39	123935X	Plug, Hole
40	17490512	Screw Hex Wsh 5/16-18 x 3/4
41	73540600	Nut, Crownlock 3/8-24
42	19112410	Washer 11/32 x 1-1/2 x 10 Ga.
43	123934X	Scale, Indicator Height
70	145212	Nut Hex Flange Lock
72	110452X	Nut Push Phos & Oil
NOTE:	All component	dimensions given in U.S. inches
	1 inch = 25.4 m	າຫ

MOWER DECK



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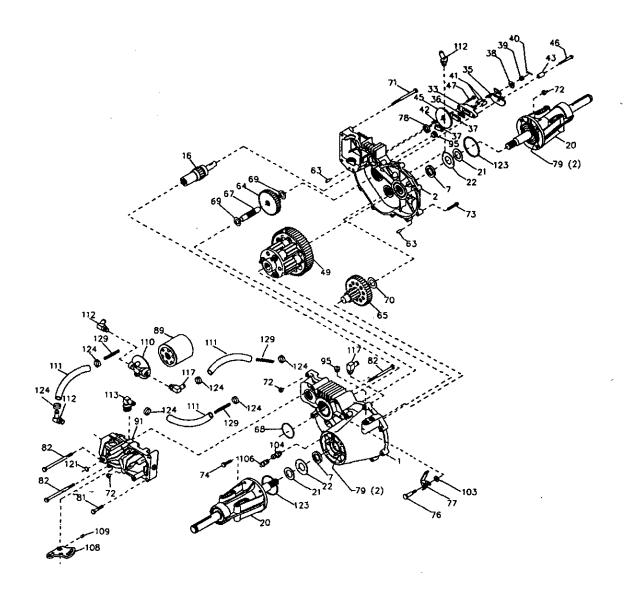
MOWER DECK

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KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	164210	Deck Asm., Mower 46*	38	156086	Keeper, Belt, Idler
3	138457	Bracket Asm., Sway Bar	39	144917	Pulley, Idler, Driven
5	STD624008	Retainer Spring	40	137273	Spring, Secondary 44/46/50
6	130832	Arm, Suspension, Rear (Sway		•	Vent
		Bar)	41	17490620	Screw, Thdroll 3/8-16 x 1-1/4
8	850857	Bolt, Patched 3/8-24 x 1-1/4		1000501	Tytt
•	070554407	Gr. 8	42	122052X	Spacer, Retainer
9	STD551137	Washer, Lock Hvy., Unplated 3/8	43	144949	Arm, Idler Secondary
10	140296		44	133943	Washer, Hardened
10	140290	Washer, Hard Blade, Mower Vented	45	145059	Cover, Mandrel Deck
11	163819	Blade, 46" Mower Deck	46	137729	Screw, Thdroll. 1/4-20 x 5/8
12	129895	Bearing, Ball, Mandrel #6204	47	144959	V-Belt, Mower, Secondary
13	137553	Shaft Asm. w/Lower Bearing	48	148763	V-Belt, Mower, Primary
10	137333	(Includes Key No. 12)	49	STD541437	Nut, Crownlock 3/8-16 UNC
14	137152	Housing, Mandrel	50	72110612	Bolt, Carriage 3/8-16 x 1-1/2
15	110485X	Bearing, Ball, Mandrel	- 4	4 50000	Gr. 5
16	140329	Stripper, Mower Round	51	153390	Washer Felt
18	72140505	Bolt, Carriage 5/16-18 x 5/8	52	156493	Pulley, Idler Flat 46 Pri Drive
19	132827	Bolt, Hex Head, Shoulder	72 101	19131616	Washer 13/32 x 1 x 16 Ga.
	I DECEN	5/16-18		145579	Cover, Mulching
20	145055	Baffle, Vortex Mower 46"	102	71161010	Screw
21	STD541431	Nut, Crownlock 5/16-18 UNC	103 104	STD551110 19061216	Washer, Lock #10 Washer
22	134753	Stiffener, Bracket	104	160793	
23	131267	Bracket, Deflector	105	2029J	Latch Asm. Bagger
24	105304X	Cap, Sleeve	100	20290	Nut, Weld
25	149287	Spring, Torsion, Deflector	117	137044	Bolt, Shoulder
26	110452X	Nut, Push	118	73930600	Gauge Wheel, Wide
27	157788	Shield, Deflector Mower	119	19121414	Nut, Centerlock 3/8-16 UNC Washer 3/8 x 7/8 x 14 Ga.
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	126	144948	Arm, Idler, Primary Deck 46"
29	131491	Rod, Hinge	120	144940	Pulley, Idler, V-Groove Dim.
30	157722	Screw Thdrol Washer Head	127	140703	4.25
31	129963	Washer, Spacer Mower	128	19132203	Washer 13/32 x 1-3/8 x 3 Ga.
		Vented		143651	Mandrel Asm 44"/50" Service
32	153531	Pulley, Mandrel			(Includes Key Nos. 8-10, 12-
33	137266	Nut, Fig. Top Lock Cntr. 9/16			15, 31 and 33)
34	144945	Anchor, Spring Deck 46"		166222	Deck Complete (Std. Deck-
35	17490628	Screw, Thdroll 3/8-16 x 1-3/4			Order separately mulcher
	0700000	Tytt			plate and gauge wheel com-
36	STD551037	Washer 13/32 x 13/16 x 16			ponents Key Nos. 101-106 and 116-118)
37	131494	Ga. Pulley, Idler, Flat J		A.N	•
37	131434	ר טווסא, ועופו, רומנ			dimensions given in U.S. inches
			1	inch = 25.4 mr	n

TRACTOR - - MODEL NUMBER 917.273042 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 222-3010L

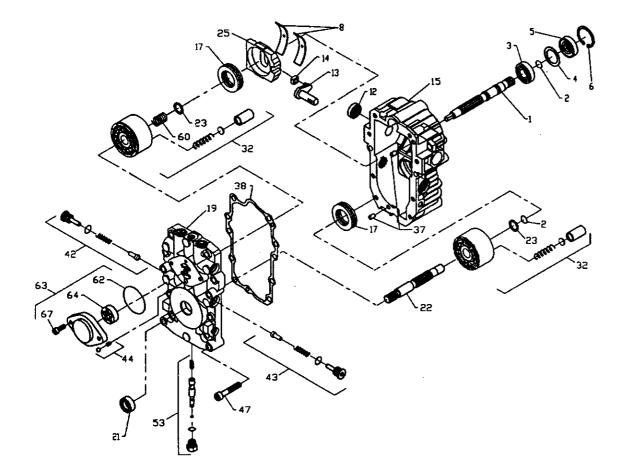
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TRACTOR - - MODEL NUMBER 917.273042 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 222-3010L

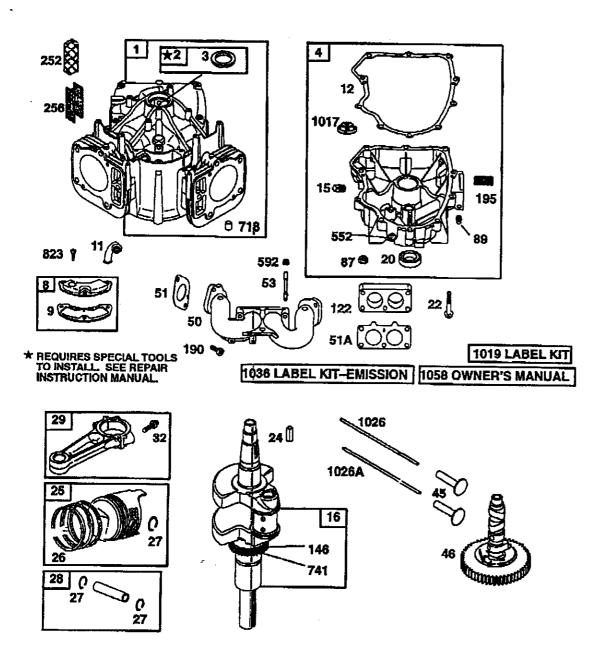
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	164591	Assembly, Housing, LH	72	153767	Locknut, Hex 5/16-18
2	164592	Assembly, Housing, RH	73	142904	Bolt, Hex 5/16-18 x 1-1/2
7	153765	Oil Seal .984 x 1.5 x .25	74	142905	Hex Cap Screw 5/16-18 x 1
16	142876	Brake Shaft Assembly	76	142907	Shoulder Bolt
20	142877	Axle Mounting Horn Assembly	77	142908	Freewheel Actuating Arm
21	142878	Washer 1.0 x 1.63 x .08	78	142909	Oil Seal .625 x 1.0 x .25
22	142879	Washer 1.0 x 2.06 x .09	79	153768	Grease (10 oz. Tube)
33	142929	Brake Yoke Assembly	81	142910	Bolt, Hex 5/16-18 x 1-3/4
35	142880	Brake Arm	82	142911	Bolt 5/16-18 x 4-1/2
36	142882	Puck Plate	89	142912	Filter, Spin On
37	142883	Brake Puck	91	153769	Pump, BDU-10L-122
38	142884	Washer 7/8 O.D. x 7/16 x .060	95	142914	Plug, Straight Thread
39	142885	Nut, Castle 5/16-24	96	153770	60; 7/18 SAE x 5/16 Fitting
40	142886	Cotter Pin	103	142916	Washer
41	142887	Brake Actuating Pin	104	142917	Vent Cap Assembly
42	142888	Hi Pro Key	106	142918	Fitting O-Ring Assembly
43	142889	Spacer	108	142919	Control Arm
45	142890	Brake Disc	109	142920	Set Screw
46	142891	Bolt 1/4-20 x 1-1/2	110	142921	Filter Head
47	142892	Bolt 1/4-20 x 1	111	150820	Hose 1/2"
49	153766	Differential Assembly	112	150823	Fitting, 1/2" Beaded 90; 7/8 SAE
63	142894	Dowel Pin	113	150821	Fitting, 1/2" Beaded 60; 9/16
64	150818	Reduction Gear,	117	150822	Fitting, 1/2" Beaded 90; 9/16
		14 Teeth to 38 Teeth	123	150824	O Ring
65	142897	Final Drive Pinion Assembly	124	150825	Pinch Clamp
67	142898	Jackshaft	129	153771	Spring, Long
68	142899	O-Ring			· · · ·
6 9	142900	Washer 5/8 X 1-5/32	NOTE	All compone	nt dimensions given in U.S. inches
70	142901	Washer 7/8 X 1-1/2		1 inch = 25.4	
71	142902	Bolt, Hex 5/16-18 x 3.5			

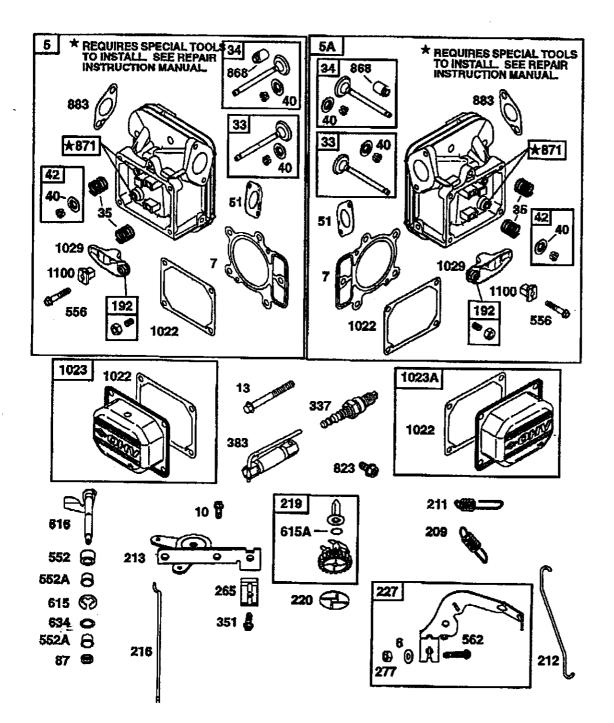
TRACTOR - - MODEL NUMBER 917.273042 TRANSAXLE - PUMP - MODEL NUMBER BU-10L-122

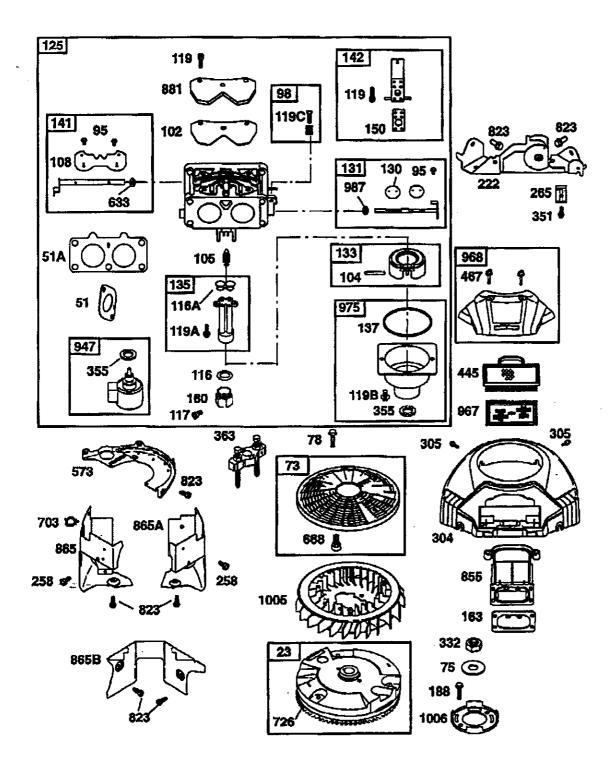


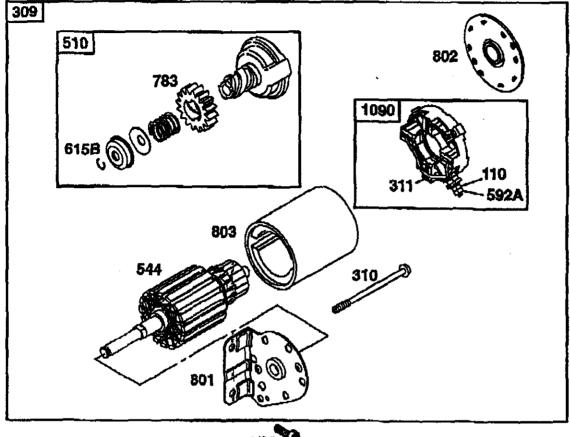
TRACTOR - - MODEL NUMBER 917.273042 TRANSAXLE - PUMP - MODEL NUMBER BU-10L-122

KEY	PART	
NO.	NO.	DESCRIPTION
1	144569	Shaft, Pump
2	122716X	Ring, Retaining
.3	122745X	Bearing, Ball
4	122715X	Spacer
5	122700X	Seal, Lip
6	122699X	Ring, Retaining
8	122767X	Bearing, Cradle
12	122717X	Seal, Lip
13	122748X	Arm, Trunnion
14	122749X	Guide, Slot
15	144571	Housing Kit, Transmission
17	122770X	Bearing, Thrust, Ball
19	153801	Center Section Kit
21	122722X	Seal, Lip
22	144573	Shaft, Motor
23	142978	Washer, Block Thrust
25	127148X	Swashplate, Variable
32	142938	Block Assembly
37	122786X	Pin, Stainless, Headless
38	122718X	Gasket, Center Section
42		Check Valve Kit
43		Check Valve Kit
44	144579	Charge Relief Kit
47	122752X	Screw, Socket Head, Cap
53	127153X	Bypass Valve Kit
60		Block Spring
62		O-Ring
63		Charge Pump Kit
64	144583	Gerotor Assembly
67		Screw, Socket Head, Cap
	153769	Pump Assembly, Complete

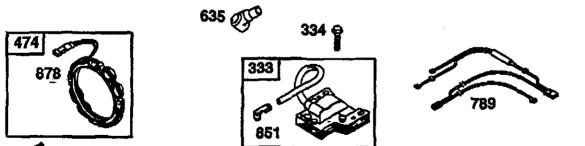






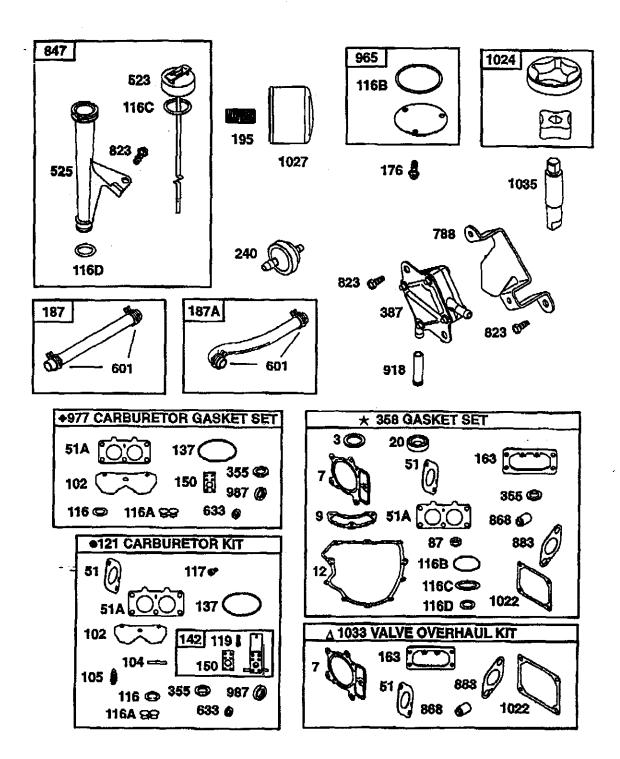






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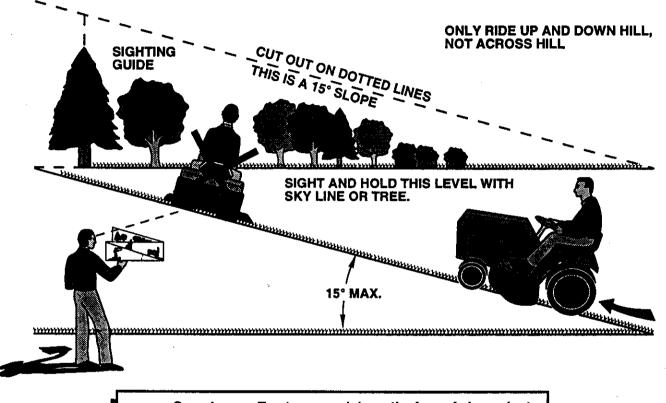


KEY	PART		KEY	PART					
NO.	NO.	DESCRIPTION	NO.	NÔ.	DESCRIPTION				
1	499584	Cylinder Assembly	116A	690988	¥ O-Ring, Fuel Transfer Tube				
2	499585	Bushing, Cylinder	116B	690589	* Seal, O-Ring (Oil Pump Cover)				
3	690926	* Seal, Oil	116C	691031	* Seal, O-Ring (Dipstick)				
4	690069	Sump, Engine	116D	691032	* Seal, O-Ring (Oil Fill Tube)				
5	499587	Head, Cylinder No. 1	117	690232	¥ Jet, Main (Standard)				
5A	499595	Head, Cylinder No. 2	119	690990	¥ Screw, Phillips				
6	690097	Washer, Flat	119A	690991	Screw, Phillips				
7 8	690962 499601	Gasket, Cylinder Head Breather Assembly	119B 119C	690992 690720	Screw, Phillips Screw, Phillips				
9	690937	* Gasket, Breather	121	499811	Carburetor Overhaul Kit				
10	691003	Screw, Hex	122	690952	Spacer, Carburetor				
11	690942	Tube, Breather	125	499804	Carburetor				
12	690945	Gasket, Crankcase	130	690993	Valve, Throttle				
13	690360	Screw, Cylinder Head (3-9/16")	131	499805	Shaft, Throttle				
15	690946	Plug, Oil Drain	133	499806	Float, Carburetor				
16	691046	Crankshaft	135	499303	Tube, Fuel Transfer				
20	690947	* Seal, Oil	137	690994	¥ Gasket, Float Bowl				
22	690308	Screw, Crankcase Cover	141	499807	Shaft, Choke				
23	691053	Flywheel	142	499808	¥ Nozzle, Carburetor				
24	690974	Key, Flywheel	146	94388	Key, Timing				
25	499588	Piston Assembly (Std.)	150	281767	¥ Gasket, Nozzle				
	499589 499590	Piston Assembly (.010" O.S.) Piston Assembly (.020" O.S.)	160	690996 691001	Retainer, Solenoid				
	499591	Piston Assembly (.020 O.S.)	163 176	691033	Gasket, Air Cleaner Screw, T-30				
26	499604	Ring Set, Piston (Std.)	187	691050	Line, Fuel				
	499605	Ring Set, Piston (.010° O.S.)		001000	(Cut To Required Length)				
	499606	Ring Set, Piston (.020" O.S.)	187A	691049	Line, Fuel				
	499607	Ring Set, Piston (.030" O.S.)	188	691058	Screw, Hex				
27	690975	Lock, Piston Pin	190	690953	Screw, Torx Hex				
28	499582	Pin Assembly, Piston	192	690083	Adjuster, Rocker Arm				
29	499583	Rod Assembly, Connecting	195	690954	Nipple, Oil Filter				
32	690976	Screw, Connecting Rod	209	690018	Spring, Governor				
33	499596	Valve, Exhaust	211	690019	Spring, Governed Idle				
34	499597	Valve, Intake	212	691020	Link, Throttle				
35 40	690963 600064	Spring, Valve	213	691021	Bracket, Choke Control				
40	690964 499586	Retainer, Valve Keeper Valve	216 219	691022	Link, Choke				
45	690977	Tappet, Valve	219	394348 690412	Gear, Governor Washer, Thrust				
46		Gear, Cam	222	691023	Plate, Governor Control				
50	690948	Manifold, Intake	227	691048	Lever Assembly, Governor				
51	690949	*¥" Gasket, Carb. Mounting		settings:	Low: 1750-1950				
51A	690950	*¥¥ Gasket, Intake Manifold		3	High: 3200-3400				
53	690951	Stud, Carb. Mounting							
73	691055	Screen, Rotating	+	Included in	n Gasket Set, Part Number 499889				
75	691056	Washer, Spring	¥	Included in	n Carburetor Lit, Part Number 499811				
78	691057	Screw, Torx	v		n Carburetor Gasket Set, Part				
87	690657	* Seal, Governor Shaft	_	Number 4					
89	690238	Plug, Oil	-		Included in Valve Overhaul Gasket Set, Part				
95	690718	Screw, Slotted		Number 4	99890				
98 102	499802 690234	Screw, Idle Speed	NOTE	All 00	nont dimensione skipp in 110 instan				
102	690984	¥ Gasket, Plate ¥ Pin, Float Hinge		All compo = 25.4 mm	nent dimensions given in U.S. inches				
105	690985	¥ Valve, Needle	тикат	- 20.4 (101)					
108	690986	Valve, Choke							
110	<u> </u>	Washer							
116	690987	¥ O-Ring, Solenoid Retainer							

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KEY	PART			KEY	PART		
NO.	NO.	•	DESCRIPTION	NO.	NO.		DESCRIPTION
	004005			000			Housing States
240	691035 600056		Filter, Fuel Element, Breather	803			Housing, Starter (Service with 499529 Starter
252 256	690956 690957		Retainer, Element				Motor)
250	691003		Screw, Hex	823	690960		Screw, Hex
265	691003		Clamp, Casing	847	499602		Dipstick/Tube Assembly
205	691024		Nut, Hex	851	691234		Terminal, Ignition Cable
304	691004		Housing, Blower	855	691011		Adapter, Air
305	691005		Screw, Hex	865	691012		Cover, Air Guide
309	691262		Motor, Starter	865A	691013		Cover, Air Guide
310	691263		Screw, Hex	865B	691015		Cover, Air Guide
311	691264		Brush Set	868	690968	•	Seal, Valve
332	690059		Nut, Flywheel	871	690969		Bushing, Guide
333	691060		Armature, Magneto	878	691237		Wire, Alternator
334	691061		Screw, Armature Mounting	881	690999		Plate, Cover
337	691043		Spark Plug	883	690970	•-	Gasket, Exhaust
351	691044		Screw, Hex	918	691040		Hose, Vacuum
355	690997	¥"	Washer, Seal	947	499809		Solenoid, Fuel
358	499889		Gasket Set	965	499613		Cover, Oil Pump
363	691062		Flywheel, Puller	967	691016		Filter, Pre-Cleaner
383	690966		Wrench, Spark Plug	968	499788		Cover, Air Cleaner
387	691034		Pump, Fuel	975 977	499810 499812		Bowl, Float Gasket Set, Carburetor
445	691007		Cartridge, Air Cleaner	987	691000	ک د	Seal, Throttle Shaft
467	691008		Nut, Air Cleaner	1005	691243	-	Fan, Flywheel
474 482	691063		Alternator	1005	691247		Retainer, Fan
	691183 497606		Screw, Hex Drive, Starter	1017	690770		Screen, Oil Pump
510 523	691036		Dipstick, Oil	1019	690103		Label Kit
525	691037		Tube, Oil Fill	1022	690971	•-	Gasket, Rocker Cover
544	031007		Armature, Starter	1023	499599		Cover, Rocker (Cyl. No. 1)
011			(Service with 499529 Starter	1023A	499600		Cover, Rocker (Cyl. No. 2)
			Motor)	1024	499054		Pump, Oil
552	690552		Bushing, Governor Crank	1026	690981		Rod, Push (Steel)
552A	690553		Bushing, Governor Crank	1026A	690982		Rod, Push (Aluminum)
556	690967		Screw, Hex	1027	690041		Filter, Oil
562	690311		Bolt, Carriage	1029	690972		Arm, Rocker
573	691009		Plate, Black	1033	499890		Valve Overhaul Kit
592	690958		Nut, Hex	1035	691042		Shaft, Oil Pump
592A	691029		Nut, Hex	1036	499783		Label Kit, Emission
601	691038		Clamp, Fuel Line	1058	273694		OwnerÖs Manual
615	690328		Retainer, Governor	1090			Retainer, Brush Pivot, Rocker Arm
	⁻ -690317		Retainer, Governor	1100 2500	690973 407777,002	7	Replacement Engine
615B 616	691265 691045		Retainer Crank, Governor	2500	-407777,002 - Ñ Ñ		Short Block
633	690998	~	Seal, Choke Shaft	RPM S			Low: 1750-1950
634	690442	Ŧ	Washer, Flat	10.00	orungo.		High: 3200-3400
635	691210		Boot, Spark Plug				
668	691215		Spacer	•	Included in	Gas	sket Set, Part Number 499889
703	690010		Clip, Hose	¥			buretor Lit, Part Number 499811
718	690959		Dowel, Sleeve				buretor Gasket Set, Part
726	499612		Gear, Ring		Number 499		-
728	690372		Screw, Torx	-	Included in	Vah	ve Overhaul Gasket Set, Part
741	690980		Gear, Timing		Number 499	989	0
783	691280		Gear, Starter				
788	691039		Bracket, Pump			ent (dimensions given in U.S. inches
789	691220		Hamess, Wiring	1 inch =	= 25.4 mm		
801	<u>69</u> 1283		Cap, Drive				
802	691286		Cap, End				

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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For the repair or replacement parts you need delivered directly to your home Call 7 am - 7 pm, 7 days a week

1-800-366-PART

(1-800-366-7278) Para ordenar piezas con entrega a domicilio -- 1-800-659-7084

For in-house major brand repair service Call 24 hours a day, 7 days a week

1-800-4-REPAIR

(1-800-473-7274) Para pedir servicio de reparación a domicilio -- 1-800-676-5811

For the location of a Sears Parts and Repair Center in your area Call 24 hours a day, 7 days a week **1-800-488-1222**

For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement Call 9 am – 5 pm, Monday–Saturday **1-800-827-6655**

When requesting service or ordering parts, always provide the following information:

- Product Type
 Part Number
- Model Number
 Part Description











America's Repair Specialists

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