Owner's Manual

CRAFTSMAN

20.0 HP **ELECTRIC START** 46" MOWER 6 SPEED

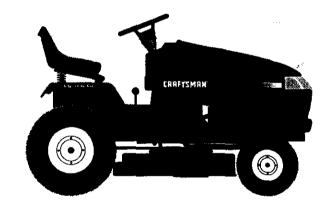
GARDEN TRACTOR

Model No.



917,273031

- 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 sure the area is clear of other people before mowing. Stop machine if anyone enters the area.

- · Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.

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 rémove 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.

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

▲ CAUTION: In order to prevent accidental starting when setting up, transporting, adjusting or making repairs always disconnect spark plug wire and place wire where it cannot contact spark plug.

- 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

	a same	
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 CLEARENCE:	INTAKE: .004"006" EXHAUST: .004"006"	
GROUND SPEED (MPH):	0.7 1.7 1.4 3.3 2.3 5.4	
REVERSE:	0.9 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	
BLADE BOLT TORQUE:	27-35 FT. LBS.	

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

Should you experience any problem you cannot easily remedy, please contact your nearest 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

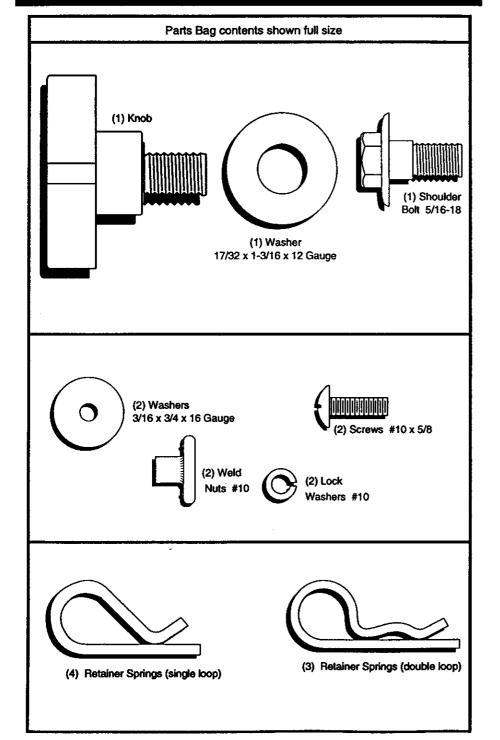
A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

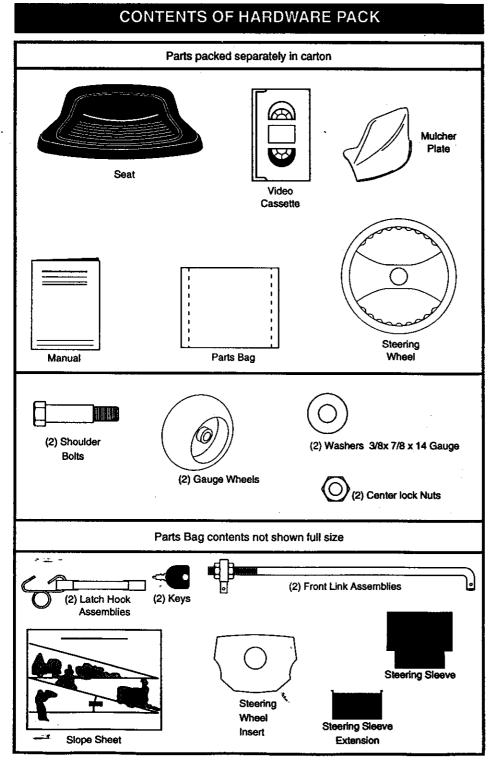
CUSTOMER RESPONSIBILITIES

- · 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.

AWARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center (See REPAIR PARTS section of this manual).

CONTENTS OF HARDWARE PACK





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/

(1) 1/2" wrench

drive ratchet

(1) 1/2" wrench (1) Pliers

(1) Phillips Screw-

(1) Utility knife

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

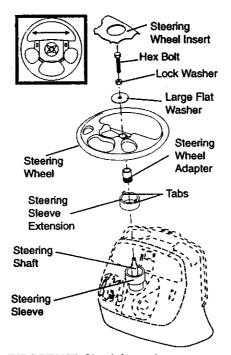
UNPACK CARTON

- 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.



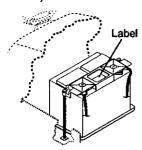
IMPORTANT: Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid.

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 gearshift lever in neutral (N) position.
- · Roll tractor forward off skid.

HOW TO SET UP YOUR TRACTOR CHECK BATTERY

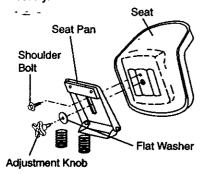
- · Lift hood to raised position.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



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.

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.

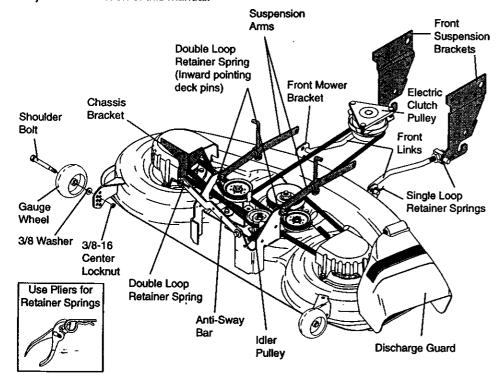
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- · Raise mower to highest position.
- Assemble gauge wheels (See "TO ADJUST GAUGE WHEELS" in the Operation section 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.

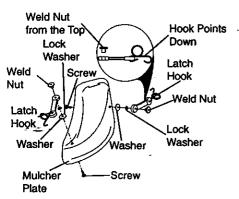
- · Tighten hardware securely.
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

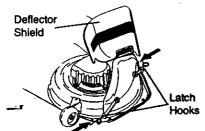
ACAUTION: Do not remove discharge guard from mower. Raise and hold guard when attaching mulcher plate and allow it to rest on plate while in operation.

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.

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.

OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON





OVER TEMP LIGHT









MOWER HEIGHT PARKING BRAKE LOCKED





UNLOCKED



MOWER LIFT



ATTACHMENT **CLUTCH ENGAGED**



REVERSE



NEUTRAL

HIGH



LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED











KEEP AREA CLEAR

SLOPE HAZARDS (SEE SAFETY RULES SECTION)



DANGER, KEEP HANDS AND FEET AWAY



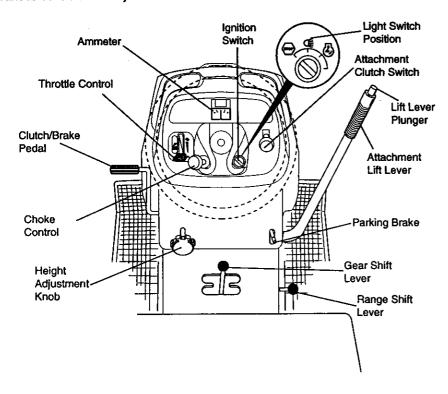


FREE WHEEL (Automatic Models only)

KNOW YOUR TRACTOR

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

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



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

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.
GEAR SHIFT LEVER: Selects the speed

and direction of the tractor.

RANGE SHIFT LEVER: Allows high (H) and low (L) speed for all forward and reverse gears.

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

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

position.

IGNITION SWITCH: Used for starting and stopping the engine.

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

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



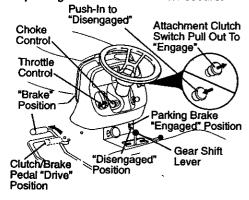
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

HOW TO USE YOUR TRACTOR

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 to "DISENGAGED" position.

GROUND DRIVE

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

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.

▲ 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 gearshift lever.

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift and range shift levers to desired position.
- Slowly release clutch/brake pedal to start movement.

IMPORTANT: Bring tractor to a complete stop before shifting or changing gears. Failure to do so will shorten the useful life of your transaxle.

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 (3) to 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 14 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

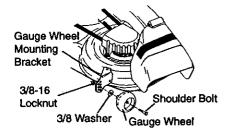
operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

 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.

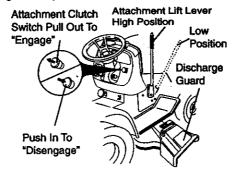


TO OPERATE MOWER

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 guard in place.



TO OPERATE ON HILLS

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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If 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 gearshift lever to 1st gear and range shift lever to low (L) position. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

TO TRANSPORT

- Raise attachment lift to highest position with attachment lift control.
- When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

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 Customér Responsibilities 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 noisture which leads to separation and ormation of acids during storage. Acidic jas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be empied before storage of 30 days or longer. rain the gas tank, start the engine and let t run until the fuel lines and carburetor are mpty. Use fresh fuel next season. See itorage Instructions for additional nformation. Never use engine or arburetor cleaner products in the fuel ank 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.

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place gear shift 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)

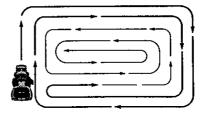
- When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control 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.
- The attachments can be used during the engine warm-up period 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.

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

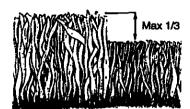
IMPORTANT: For best performance, keep mower housing free of built-up grass and trash. Clean after each use.

- 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.

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- 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 you setting notices from week.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



MAINTENANCE

AS	MAINTENANCE SCHEDUL LIN DATES YOU COMPLETE GULAR SERVICE	.E	EFORE	ENCHUS ENCHUS	E VRS	JERY &	KOUP REPO	A HOUR	S JSON JORE	STORAL SERV	VICE	DAT	ES
	Check Brake Operation	1	~			T							
	Check Tire Pressure	V	1					\Box			\Box		\neg
Ŧ	Check Operator Presence and Interiock Systems	~											
Ŗ	Check for Loose Fasteners	1		1		V 7							
ΙAΙ	Sharpen/Replace Mower Blades			V.									
ΙÇ	Lubrication Chart		-	/				/					
Ιċ	Check Battery Level			V .							$\neg \neg$		
Ř	Clean Battery and Terminals			~				1	l				
	Check Transaxle Cooling			~									\neg
	Adjust Blade Belt(s) Tension					1/5							
	Adjust Motion Drive Belt(s) Tension					1/5							
Г	Check Engine Oil Level	V	~	П		}						Ī	
	Change Engine Oil			123				1					
İΕ	Clean Air Filter			1/2		1			Г				
Ñ	Clean Air Screen			1/2									
G	Inspect Muffler/Spark Arrester				~								
ľ	Replace Oil Filter (If equipped)	1				1/1,2							
ΙË	Clean Engine Cooling Fins					1/2							
-	Replace Spark Plug					1	1						
	Replace Air Filter Paper Cartridge					1/2		T					
	Replace Fuel Filter						~						

- Service more often when operating in dirty or dusty condi-if equipped with oil filter, change oil every 50 hours. Replace blades more often when mowing in sendy soil.
- 6 Not required if equipped with maintenance-free bei 7 Tighten front aide pivot bolt to 35 ft.-lbs. maximum.

GENERAL RECOMMENDATIONS

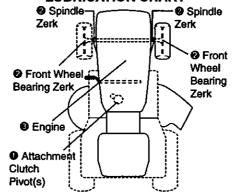
The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your tractor. All adjustments 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.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

LUBRICATION CHART



- SAE 30 or 10w30 Motor OIL
- General Purpose Grease
 Refer to Maintenance "Engine" Section

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

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

3LADE CARE

For best results mower blades must be tept sharp. Replace bent or damaged blades.

3LADE REMOVAL

Raise mower to highest position to allow access to blades.

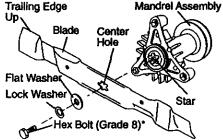
Remove hex bolt, lock washer and flat washer securing blade.

Install new or resharpened blade with trailing edge up towards deck as shown. WPORTANT: To ensure proper assembly, enter hole in blade must align with star n 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

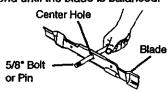
NOTE: We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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

- 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"

- 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
- Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manu-

V-BELTS

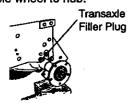
Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

TRANSAXLE COOLING

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

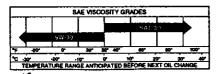
CHECK TRANSAXLE OIL LEVEL

- · Block up rear axle securely.
- Remove left rear wheel by removing
- Remove filler plug from transaxle. Oil level must be even with plug threads. If necessary, fill with SAE 30 motor oil,
- API SF, SG or SH. Replace filler plug. · Reassemble wheel to hub.



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.



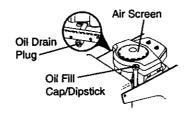
Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one

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.

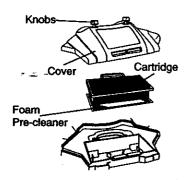
Service air cleaner more often under dusty conditions.

- 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.

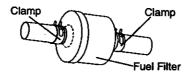
SPARK PLUGS

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 properly positioned.
- Immediatey wipe up any spilled gasoline



CLEANING

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

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

SERVICE AND ADJUSTMENTS

ACAUTION: Before performing any service or adjustments:

- · Depress clutch/brake pedal fully and set parking brake.
- Place gearshift 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

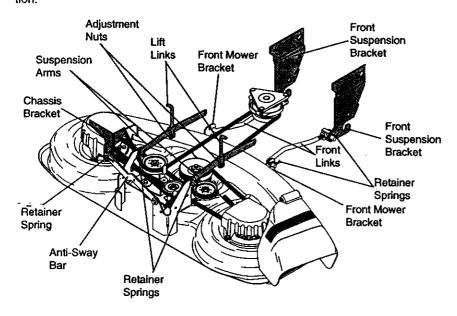
- Place attachment clutch in "DISEN-
- GAGED" position. Turn height adjustment knob to lowest setting.
- Lower mower to its lowest position. Remove retainer spring holding antiswaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove retainer springs from suspension arms at deck and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

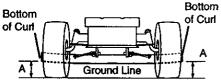
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS"). If tires are over or underinflated, you will not properly adjust your mower.

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.

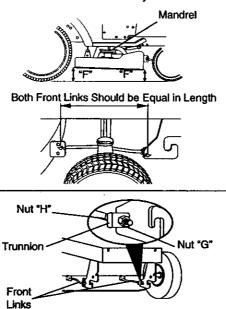
Check adjustment on right side of tractor. Measure distance "F" directly in front of and behind the mandrel at bottom edge of mower housing as shown.

- 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 trunnion 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.



TO REPLACE MOWER DRIVE BELT

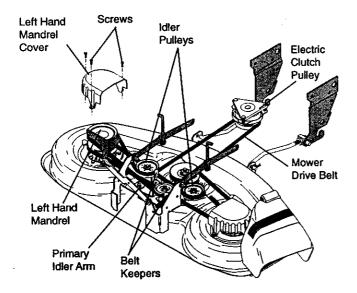
MOWER DRIVE BELT REMOVAL

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

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

MOWER DRIVE BELT INSTALLATION

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



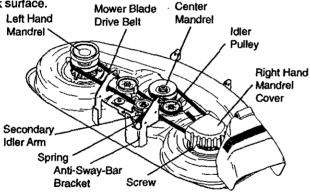
TO REPLACE MOWER BLADE DRIVE BELT

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO 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
- Remove belt from center mandrel pulley, idler pulley, and left hand mandrel
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.

- · Check secondary idler arm and idler to
- see that they rotate freely.

 Be sure spring is hooked in secondary
- idler arm and sway-bar bracket. Install new belt in lower groove of left hand mandrel pulley, idler pulley, and center mandrel pulley as shown. Roll belt over right hand mandrel pulley.
- Make sure belt is in all grooves properly. Reconnect spring to bolt in mower housing and reinstall right hand mandrel cover.
- Reinstall mower to tractor (See "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).

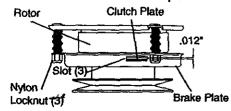


TO ADJUST ATTACHMENT CLUTCH

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/departnent.

- 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.



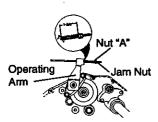
NOTE: After installing a new electric clutch, run tractor at full throttle and engage and disengage electric clutch 10 cycles to wear in clutch plate.

TO ADJUST BRAKE

Your tractor is equipped with an adjustable brake system which is mounted on the left 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 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". Retighten jam nut against nut "A"
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.



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. It is not necessary to remove mower.

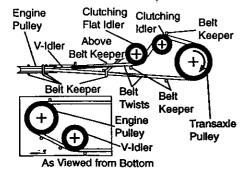
BELT REMOVAL -

- Engage parking brake (creates slack in belt).
- Remove mower drive belt from electric clutch pulley only (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Roll motion drive belt off transaxle pulley.
- Roll belt off clutching idler pulleys, then off engine pulley and front V-idler pulley.
- Pull beit out of all belt keepers.

BELT INSTALLATION -

- Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of belt keepers.
- Put belt coming from V-idler above midspan belt keeper, then onto clutching idler pulleys as shown.
- Make sure V part of belt engages Vidler.
- Place belt around transaxle pulley, beginning at top.
 V part of belt should engage transaxle pulley.
- Placé long lower section of belt through loop in midspan belt keeper.
- Check to be sure belt is on proper side of all belt keepers.
- Reinstall mower drive belt onto electric clutch pulley.

IMPORTANT: Check brake adjustment.



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

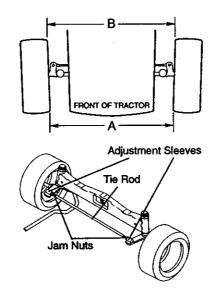
- · Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

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

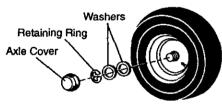
FRONT WHEEL

- · Block up axie 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.
- Replace axle 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 BATTERY

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

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

if "iumper cables" are used for emergency starting, foflow this procedure:

MPORTANT: Your tractor is equiped with 1 12 volt negative grounded system. The other vehical must also be a 12 volt negaive grounded system. Do not use your ractor battery to start other vehicles.

O ATTACH JUMPER CABLES -

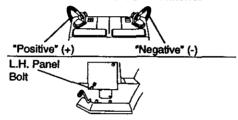
Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.

Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.

· Connect the other end of the BLACK cable to good CHASSIS GROUND. away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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



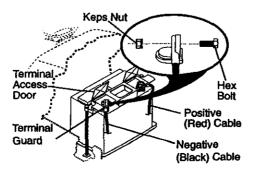
REPLACING BATTERY

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

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

• Lift hood to raised position.

- Remove terminal guard.
 Disconnect BLACK battery cable then RED battery cable and carefully remove battery from tractor.
- Install new battery with terminals in same position as old battery.
- Reinstall terminal quard.
- First connect RED battery cable to positive (+) battery terminal with hex bolt and keps nut as shown. Tighten secure-
- 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 section.

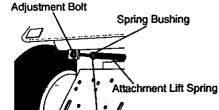
TO REPLACE FUSE

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

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.

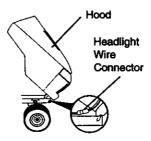
IMPORTANT: Do not adjust for maximum spring tension when using light attachments such as a mower. Adjust lift lever spring to aid in lifting attachment. Do not overpower spring. When removing attachment, always adjust spring tension to its lowest position.



TO REMOVE HOOD AND GRILL ASSEMBLY

Jam Nut

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedure.



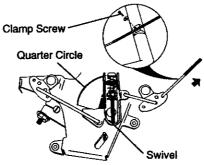
ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE

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

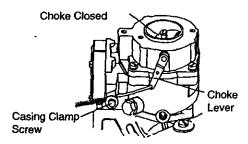
- With engine not running, move throttle control lever to fast position.
- Check that swivel is against side of quarter circle. If it is not, loosen cable clamp screw and pull cable back until swivel is against quarter circle. Tighten cable clamp screw securely.



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:

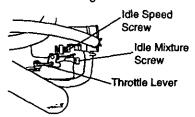
- With engine not running, move choke control (located on dash panel) to full choke position.
- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (see "AIR FILTER" in the Maintenance section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw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

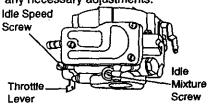
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/ motion control lever in neutral (N) position.
- With throttle control lever in slow position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.
- 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, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

BATTERY

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

ENGINE

FUEL SYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel filter; fuel hose, or tank during storage. Also, experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

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

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual).

CYLINDER(S)

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

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if it starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture.
 Do not use plastic. Plastic cannot breathe, which allows condensation to form and cause your tractor to rust.

IMPORTANT: Never cover tractor while engine and exhaust areas are still warm.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Will not start	Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment.	 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
	Engine valves out of adjustment.	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.
ingine clicks but vill 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.

TROUBLESHOOTING CHART

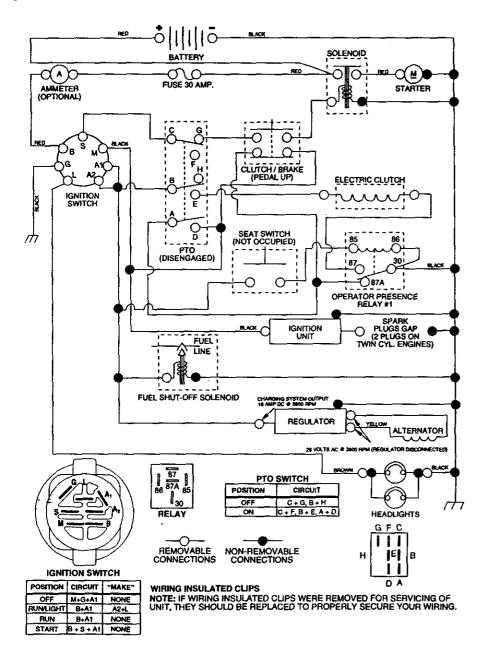
PROBLEM	CAUSE	CORRECTION
Loss of power	Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel.	 Set in "Higher Cut" position/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.
	 Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section. Contact an authorized service center.
Excessive vibration	Wom, bent or loose blade. Bent blade mandrel. Loose/damaged part(s).	Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an autho- rized service center/ department
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Mower blades will not rotate	Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel.	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel.
Poor grass dis- charge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. Wom, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) 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.	Replace battery. Check/clean all connections.
Engine "backfires" when turning engine "OFF"	 Faulty regulator (if so equipped). Faulty alternator. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	 Replace regulator. Replace alternator. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

TRACTOR - - MODEL NUMBER 917.273031

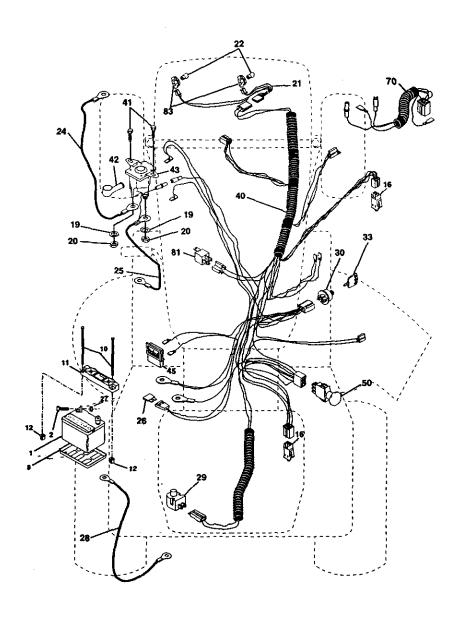
SCHEMATIC



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.273031

ELECTRICAL

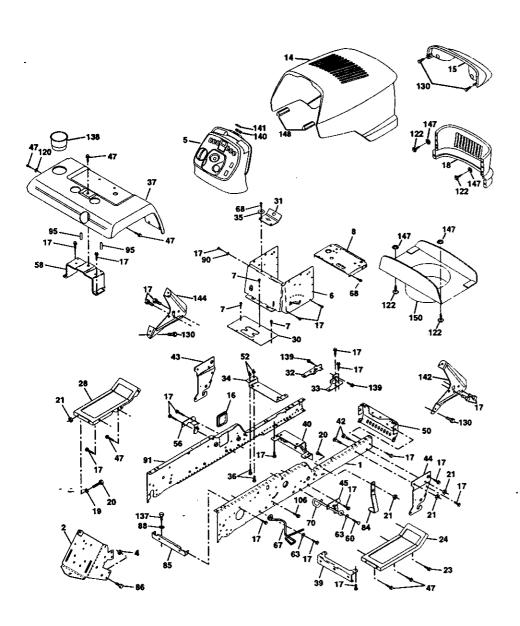


ELECTRICAL

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, Light
22	4152J	Bulb Light
24	4206J	Cable, Battery
25	146149	Cable, Battery
26	108824X	Fuse
27	73510400	Nut, Keps Hex 1/4-20 UNC
28	4207J	Cable, Ground
29	160784	Switch, Plunger
30	163968	Switch, Ign
33	140403	Key, Ignition
40	164417	Hamess Ign.
41	17720408	Screw 1/4-20 x 1/2
42	131563	Cover, Terminal
43	145673	Solenoid
45	122822X	Ammeter
50		Switch, PTO
70	164767	Hamess Engine
81	109748X	Relay Asm.
83	163996	Socket, Light bulb
··OTE	AH	all and a second a

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

TRACTOR - - MODEL NUMBER 917.273031 CHASSIS AND ENCLOSURES

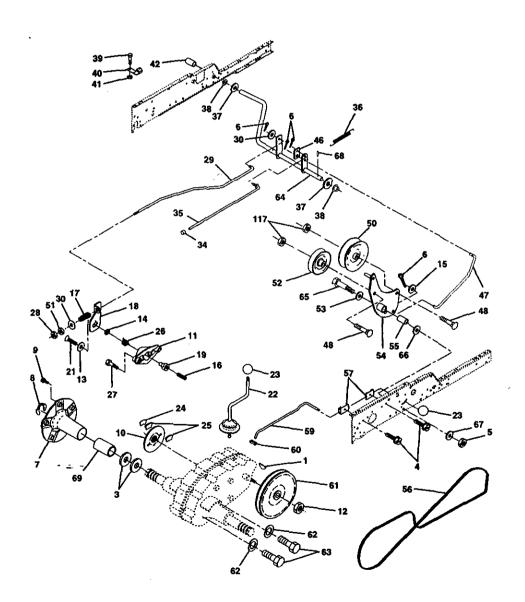


TRACTOR - - MODEL NUMBER 917,273031 CHASSIS AND ENCLOSURES

NO. NO. DESCRIPTION NO. NO.	DESCRIPTION
1 150253 Rail, Frame RH 50 152728	Bracket, Chassis Front
2 140506 Drawbar, Gt 52 STD541431	
4 73800700 Nut, Lock Hex 7/16 Unc 56 155914	Bracket Asm., Susp Chassis Lh
5 163976 Dash YTGT 2 Cyl 58 137113	Bracket Asm., Fender
6 157882 Dash, Lower Vgt One Piece 60 17490620	Screw Thdrol. 3/8-16 x 1-1/4
7 17720408 Screw, Thd Cut 1/4-20 x 1/2 63 19131614	Washer 13/32 x 1 x 14 Ga.
8 145166 Support, Battery 67 156793	Guide, Belt Gear Drive
14 161023X558 Hood Asm., Pnt YTGT 68 17490508	Screw Thdrol. 5/16-18 x 1/2
15 160568 Lens Asm Headlight Bar 70 137159	Guide, Belt Mid Span
16 121794X Cover, Access 84 142992	Stop, Over Center Mower
17 17490612 Screw, Thdrol 3/8-16 x 3/4 85 144911	Bracket, Support Transaxle
18 160564X558 Grille 86 74760716	Bolt Fin Hex 7/16-14 UNC x 1
19 19131312 Washer 13/32 x 13/16 x 12 Ga. 88 STD551143	
20 STD523710 Bolt, Fin Hex 3/8-16 x 1	7/16
21 STD541437 Nut Crownlock 3/8-16 Unc 90 STD551237	Washer, Lock External Tooth
23 17490616 Screw Thdrol 3/8-16 x 1 Ty-Tt	3/8
24 145243X558 Footrest, RH 91 156586	Rail, Frame Lh
28 145244X558 Footrest, LH 95 105531X	Push Nut, Nylon
30 145051X014 Saddle, Slkscr Vgt 106 138776	Screw, Thdrol Hex Head Zinc
31 161419 Brace, Supt 1-pc VGT Steering	Mwr
32 161327 Bracket, Pivot Chassis Lh 120 19131616	Washer 13/32 x 1 x 16 Ga.
33 161326 Bracket, Pivot Chassis Rh 122 161464	Screw Hex Wshd 8-18 x 7/8
34 142131 Bracket, Engine Support Rear 130 17521312	Screw Sttd H Hd W/TIn Washer
35 19111116 Washer 11/32 x 11/16 x 16 Ga. 137 74780716	Bolt Fin Hex 7/16-14 x 1 Gr. 5
36 74780512 Bolt, Fin Hex 5/16-18 x 3/4 138 163975X428	-
37 163981X558 Fender YTGT PNT WO/SH Cup 139 161330	Bolt Shoulder 5/16-18 TT
558 140 163806	Magnet YTGT
39 136961 Bracket, Axle Front 141 163805	Striker Plate YTGT
40 156111 Bracket, Support Axle/Engine 142 161897	Bracket Dash Rh
42 72140608 Bolt, Carriage 3/8-16 x t 144 161900	Bracket Dash Lh
43 136939 Bracket, Sprisn Front Lh 147 162967	Fastener Nut Pal
44 136940 Bracket, Spnsn Front Rh 148 164655	Extrusion Bumper
45 154913 Bracket Asm., Susp Chassis Rh 150 161237	Duct Heat Hood GT CV
47 17490608 Screw Thdrol. 3/8-16 x 1/2 NOTE: All compone	nt dimensions given in U.S. inches
1 inch = 25.4	

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GROUND DRIVE

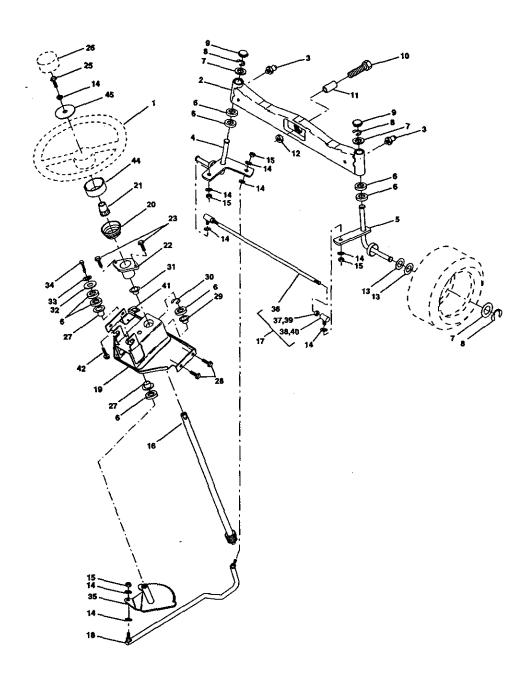


GROUND DRIVE

KEY NO.	NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9858M1	Key, Woodruff	36	149412	Spring, Drive Ground
3	7563R	Washer, Thrust, Axle	37	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
. 4	17490508	Screw Thoroi 5/16-18 x 3/4	38	150035	Nyliner
5	STD541437	Nut, Crownlock 3/8-16	39	74321016	Screw, Fin. #10-24 x 1
6	STD561210	Pin, Cotter	40	5304J	Actuator, Interlock Switch
7	149176	Wheel, Hub Assembly	41	73661000	Locknut #10-24
8	12000034	Klip, Ring	42	8883R	Cover, Pedal
9	140080	Bolt, Hub	46	145170	Retainer, Spring
10	142509	Disc, Brake	47	138228	Clutch Rod
11	136927	Yoke, Brake Disc	48	72110612	Bolt, Carriage 3/8-16 x 1-1/2
12	73750800	Nutlock 1/2-20 Unf			Gr. 5
13	139419	Washer, Special	50	131494	Pulley, Idler, Flat
14	138901	Bushing	51	STD541437	Nut, Crownlock 3/8-16 UNC
15	STD551037	Washer 13/32 x 13/16 x 16 Ga.	52	139123	Pulley, Idler, Grooved
16	143012	Set, Screw 1/4-28 x 3/4	53	207J	Washer, Hardened
17	126909X	Spring	54	161590	Clutch, Arm Assembly
18	137104	Lever, Brake	55	105706X	Bearing, Idler
19	136926	Cam, Brake Disc	56	137153	V-Belt
21	23260412	Screw, Flat Head 1/4-28 x 3/4	57	141756	Bracket, Shift Rod, Hi-Lo
22	633A109	Gearshift, Lever Assembly	59	122253X	Shift Rod, Hi-Lo
23	106932X	Knob	60	122268X	Spring Clip, Connecting Link
24	136925	Support, Puck Brake	61	. 137524	Pulley, Transaxle
25	136923	Puck, Brake Top	62	STD551143	Washer, Lock 7/16
26	137552	Spring, Return	63	74760720	Bolt, Fin Hex 7/16-14 x 1-1/4
27	17490528	Screw, Hex Wsh Thd.	64	154752	Shaft, Clutch/Brake Pedal
		5/16-18 x 1-3/4	65	67609	Bolt, Shoulder
28	73350600	Nut, Hex Jam 3/8-16	66	140296	Washer, Hardened
29	137213	Brake, Rod	67	19131312	Washer, Flat
30	19131616	Washer 13/32 x 1 x 16 Ga.	68	5142H	Pin, Roll
34	124236X	Cap, Plunger	69	136327	Hub, Cover
35	137648	Rod, Parking Brake	117	73900600	Nut, Lock Flg. 3/8-16 Unc

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

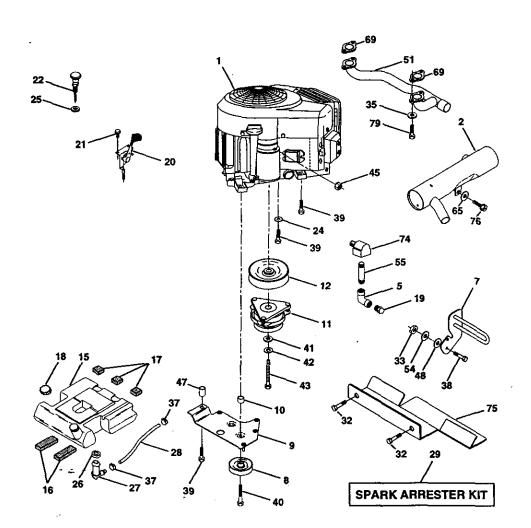
TRACTOR - - MODEL NUMBER 917.273031 STEERING ASSEMBLY



STEERING ASSEMBLY

KEY NO.	PART 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 Axle 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 17	145103 137347	Shaft Asm., Steering
18	137347	Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40) 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	STD523710	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 Hlcl Spr 5/16
34	STD523107	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. Balf 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.

ENGINE

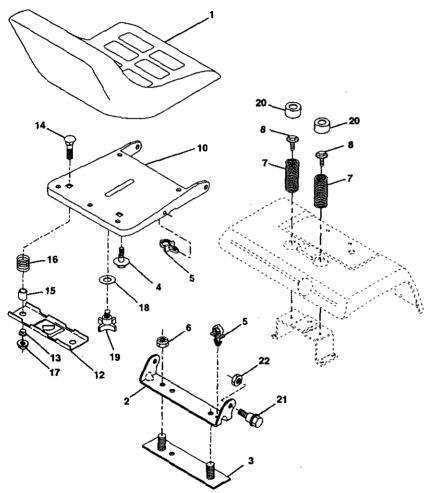


ENGINE

KEY NO.	PART NO.	DESCRIPTION
1		Engine (See Breakdown) B&S Model No. 407777-0122-E1
2	161062	Muffler Side 1-1/8" 98
5	13200300	Elbow STD 90 Degree 3/8 - 18 NPT
7	151396	Muffler Asm Guard
8	121361X	Pulley V-Idler
9	150828	Keeper Asm. Belt Engine
10	105432X	Bushing
11	140923	Clutch Electric
12	143996	Pulley Engine VGT Elect Clutch
15	151346	Tank Fuel Rear 3.50 YVGt 96
16	109227X	Pad Spacer
17	106082X	Pad Spacer
18	161493	Cap Asm Fuel W/Gauge
19	13290300	Plug Oil Drain (Order From Engine Manufacturer)
20	164067	Control Throttle
21	17521312	Screw SLTD Hex HD W/Pln Washer
22	164068	Control Choke
24	STD551237	Washer Ext Tooth 3/8
25	73920600	Nut Keps 3/8 - 24 UNF
26 27	3645J 139277	Bushing Stem Tank Fuel
28	7834R	Fuel Line
20 29	132920	Spark Arrester Kit
32	17490508	Thdrol 5/16-18 x 1/2
33	STD541437	Nut Lock Hex w/lns. 3/8 - 16
35	10040500	Washer Lock Hvy Hlcl Spr 5/16
37	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 UNC
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 5 Ga. 1.38
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 70	163776	Shield Heat Intek
76 79	17490612 71070512	Screw Thdrol 3/8-16 x 3/4 Ty-TT Screw Hex Hd Cap 5/16-18 x 3/4
19	/ 10/0512	OCIEM LIEX LIG CENTO-10 Y 03-4

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

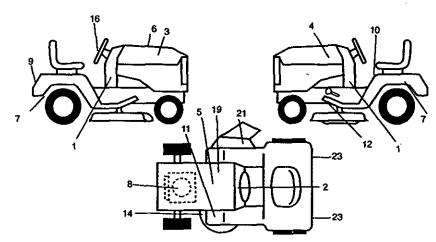
SEAT ASSEMBLY



EY-	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140124	Seat .	14	72050412	Bolt, Carriage 1/4-20 X 1-1/2
2	140551	Bracket, Pivot Seat	15	121249X	Spacer, Split
3	140675	Strap, Fender	16	123740X	Spring, Cprsn
4	127018X	Bolt, Shoulder 5/16-18 x .62	17	123976X	Nut, Lock 1/4 Lge Flg Gr. 5
5	145006	Clip, Push In, Hinged	18	19171912	Washer 17/32 x 1-3/16 x 12
6	STD541437	Nut, Crownlock 3/8-16 Unc		-	Ga.
7	124181X	Spring, Seat Corsn	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
13	101049Y	Buching Coop			-

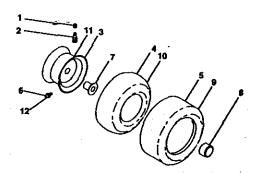
NOTE: All component dimensions given in U.S. inches 1 inch \approx 25.4 mm

DECALS



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	163257	Decal, Dash Panel	12	146047	Decal, V-Belt Drive Schematic
2	164085	Decal, Dash	14	160397	Decal, V-Belt Schematic
3	163916	Decal, Hood, Craftsman, RH	16	164065	Decal, Insert Strg
4	163917	Decal, Hood, Craftsman, LH	19	138047	Decal, Battery
5	149516	Decal, Battery DNGR/PSN	21	163203	Decal, Mower EZ3
		ENG Asm	23	106202X	Reflector, Tailfight
6	133644	Decal, Maintenance		138311	Decal, Handle Lft Height Adjust
7	163210	Decal, Fender			(Lift Handle)
8	165407	Decal, Engine		157199	Pad. Footrest
9	163204	Decal, Fender, Craftsman		166196	Manual, Owner's (Eng)
10	156439	Decal, Fender Danger		166197	Manual, Owner's (Span)
11	4900J	Decal, Clutch/Brake			, 2 (-p)

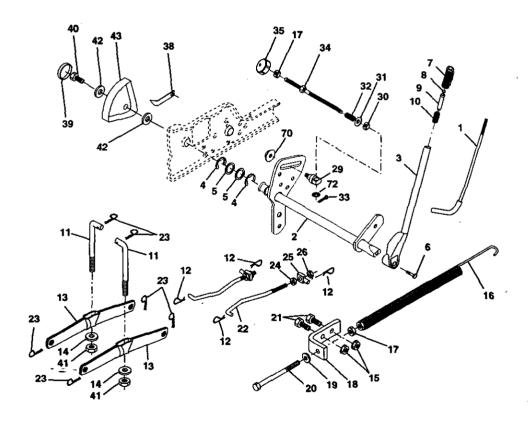
WHEELS & TIRES



PART	
NO.	DESCRIPTION
59192	Cap, Valve, Tire
65139	Stem, Valve
106228X427	Rim Assembly, Front
106277X427	Rim Assembly, Rear
8134H	Tube, Front (Service Item Only
7154J	Tube, Rear (Service Item Only
106230X	Tire, Front
105588X	Tire, Rear
278H	Fitting, Grease (Front Wheel Only)
6856M	Fitting, Grease
9040H	Bearing, Flange (Front Wheel Only)
104757X	Cap, Axie (Front Wheel Only)
144334	Sealant, Tire (10 oz. Tube)
	NO. 59192 65139 106228X427 106277X427 8134H 7154J 106230X 105588X 278H 6856M 9040H

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

LIFT ASSEMBLY

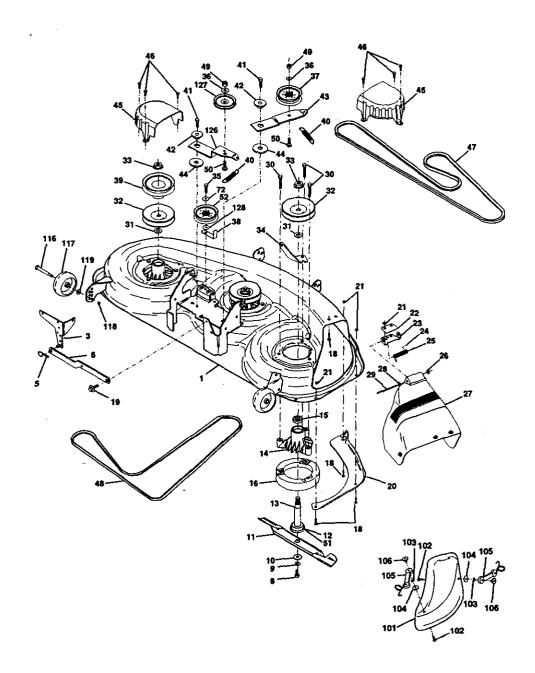


LIFT ASSEMBLY

KEY	PART	
NO.	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	5328J	Bolt, Adjust Spring Assist
21	STD523710	Bolt, Fin Hex 3/8-16 x 1
22	127218	Link, Front
23	STD624008	Retainer, Spring
24	73350800	Nut, Jam Hex 1/2-13 Unc
25	130171	Trunnion
26	73680800	Nut Crownlock 1/2-13 Unc
29	150233	Trunnion, Infin Height
30	110807X	Nut, Special
31	19131016	Washer 13/32 x 5/8 x 16 Ga.
32 33	137150	Spring, Compression Inf Hgt Pin, Cotter 3/32 x 1/2
33	76020308 137167	
35	137 167	Rod, Adj Lift 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 mm

MOWER DECK

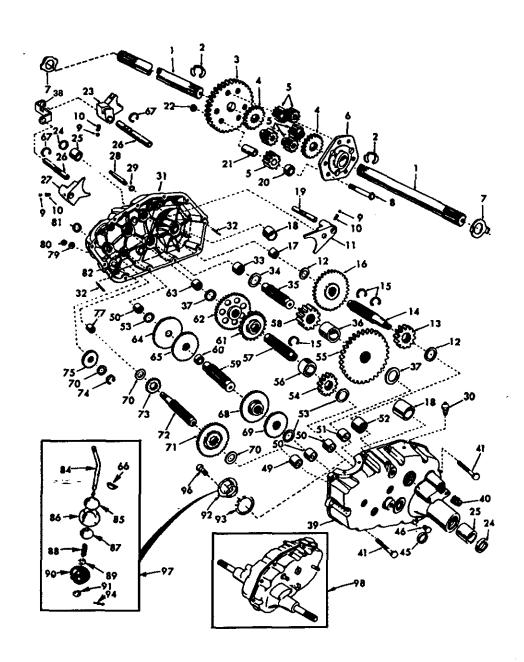


MOWER DECK

KE	Y PART		KEY	PART	
NO	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	164210	Deck Weldment	38	156086	Keeper, Belt, kiler
3	138457	Bracket Asm., Sway Bar	39	144917	Pulley, Idler, Driven
5	STD624008	Retainer Spring	40	137273	Spring, Secondary 44/46/50 Vent
6	130832	Arm, Suspension, Rear (Sway	41	17490620	Screw, Thdroll 3/8-16 x 1-1/4 Tytt
		Bar)	42	122052X	Spacer, Retainer
8	850857	Bolt, Patched 3/8-24 x 1-1/4 Gr. 8	43	144949	Arm, Idler Secondary
9	STD551137	Washer, Lock Hvy., Unplated 3/8	44	133943	Washer, Hardened
10	140296	Washer, Hard Blade, Mower	45	145059	Cover, Mandrel Deck
		Vented	46	137729	Screw, Thdroll. 1/4-20 x 5/8
11	163819	Blade, 46° Mower Deck Mulching	47	144959	V-Belt, Mower, Secondary
12	129895	Bearing, Ball, Mandrel #6204	48	148763	V-Beit, Mower, Primary
13	137553	Shaft Asm. w/Lower Bearing	49	STD541437	Nut, Crownlock 3/8-16 UNC
4.4	107450	(Includes Key No. 12)	50	72110612	Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5
14 15	137152 110485X	Housing, Mandrel	51	153390	Washer Felt
	140329	Bearing, Ball, Mandrel	52	156493	Pulley idler 46" Prim. Drive
16 18	STD533106	Stripper, Mower Round	72	19131616	Washer 13/32 x 1 x 16 Ga.
19	132827	Bolt, Carriage 5/16-18 x 5/8 Bolt, Hex Head, Shoulder 5/16-18	101	145579	Cover, Mulching
20	145055	Baffle, Vortex Mower 46"		71161010	Screw
21	STD541431	Nut, Crownlock 5/16-18 UNC		STD551110	Washer, Lock #10
22	134753	Stiffener, Bracket		19061216	Washer
23	131267	Bracket, Deflector		160793	Latch Asm. Bagger
24	105304X	Cap, Sleeve		2029J	Nut, Weld
	149287	Spring, Torsion, Deflector		137644	Bolt, Shoulder
26	110452X	Nut, Push	117	133957	Gauge Wheel
27	157788	Shield, Deflector Mower	118	73930600	Nut, Centerlock 3/8-16 UNC
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
29	131491	Rod, Hinge	126	144948	Arm, Idler, Primary Deck 46*
30	157722	Screw, Thd Rolling Washer Head	127	146763	Pulley, Idler, V-Groove Dim. 4.25
31	129963	Washer, Spacer Mower Vented	128	19132203	Washer 13/32 x 1-3/8 x 3Ga.
32	153531	Pulley, Mandrel	• •	166222	Mower Service 46" (Standard
33	137266	Nut, Flg. Top Lock Cntr. 9/16			Deck - Order separately mulching components Key Nos. 101-106)
34	144945	Anchor, Spring Deck 46°		143651	Mandrel Asm 44/50 Service
	17490628	Screw, Thdroll 3/8-16 x 1-3/4 Tytt		1-70001	(Includes Key Nos. 8-10, 12-15,
36	STD551037	Washer 13/32 x 13/16 x 16 Ga.			31 and 33)
37	131494	Pulley, Idler, Flat	NO	TE: All comp	onent dimensions given in U.S. inches
	-			1 inch = 2	

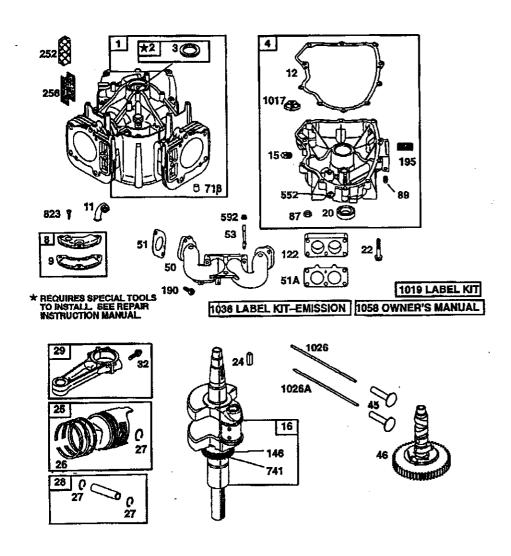
1 inch = 25.4 mm

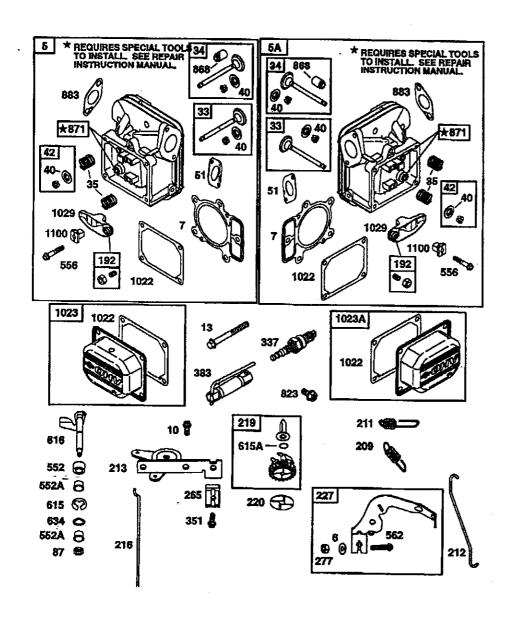
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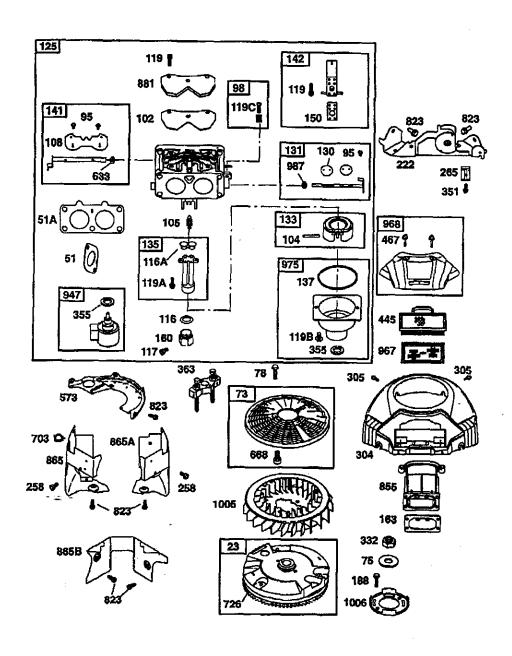


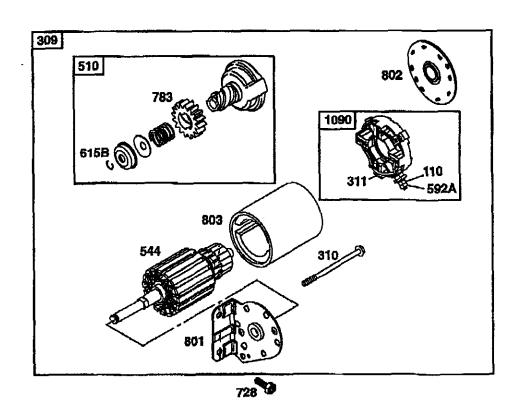
TRANSAXLE

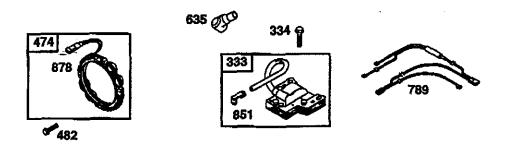
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4197R	Axde Shaft	52	8119M	Needle Bearing
2	12000034	Retaining Ring	53	4220R	Thrust Bearing Race
3	4199R	Final Drive Gear	54	4209R	3rd Reduction Pinion, Low
4	4216R	Differential Gear	55	4213R	4th Reduction Gear
5	4215R	Differential Pinion	56	4442R	3rd Reduction Pinion Spacer
6	4217R	Differential Carrier	57	4195R	2nd Reduction Gear Shaft
7	6256H	Axie Thrust Washer	58	4214R	Final Drive Pinion
8	74020652	Bott, Hex Head 3/8-24 x 3-1/4	59	4194R	1st Reduction Gear Shaft
		(1° Thread Length)	60	7528R	1st Reduction Shaft Spacer
9	7392M	Steet Ball	61	4208R	3rd Reduction Ptnion High
10	137261	Spring Shift Fork Detent	62	4207R	2nd Reduction Gear
11	4985R	Shift Fork, High-Low Range	63	7398H	Needle Bearing
12	6266H	Thrust Bearing Race	64	4203R	Low Speed Gear and 2nd
13	4212R	4th Reduction Pinion			Reduction Pinion Cluster
14	137125	Shaft, Brake	65	4204R	Reverse Gear
15	6276H	Snap Ring, Crescent Type	66	2898J	Key, Hi-Pro 1/8 x 17/32
16	633A63	High-Low Range Gears	67	12000033	Klip Ring
17	8118M	Needle Bearing	68	4205R	Intermediate Speed Gear
18	8740H1	Sintered Iron Bearing	69	4206R	High Speed Gear
19	122238X	Shift Fork Shaft, High-Low	70	1370H	Thrust Bearing Race
20	4218R	Range Differential Pinion Spacer	71	633A69	Intermediate and High Speed Cluster Pinions
21	6252H1	Differential Pinion Bushing	72	139120	Input Shaft
22	7810H	Gripco Centerlock Nut 3/8-24	73	4201R	Low Speed Pinion
23	6262H	Shift Fork, R.H.	74	12000008	E-Ring
24	7393R	Oil Seal	75	1153R	Reverse Idler Gear
25	992R1	Sintered Iron Bearing	77	6803J	Needle Bearing
26	139111	Shift Fork Shaft	79	1167R	Sealing Washer
27	4986R	Shift Fork, L.H.	80	73360700	Nut, Hex, Jam 7/16-20
28	122254X	Shift Shaft, High-Low Range	81	6270H	Oil Seal
29	6269H	Oil Seal	82	136984	Reverse Idler Shaft
30	5855H	Pressure Relief Valve	84	5384J	Gearshift Lever, Bent
31	139538	Gearcase, Reverse Idler Shaft	85	2978J	Gearshift Cap
		and Bearings, R.H. (Includes	86	633A85	Gearshift Ball Cover and Pin
		Key No.Os 17,18, 25, 33, 50,	87	8739H1	Shift Lever Guide Ball, Keyed
		63, 77 and 82)	88	4924H	Spring
32	6277H	Dowel Pin	89	19151516	Washer 15/32 x 15/16 x 16
33	42 <u>2</u> 5B	Needle Bearing			Gauge
34	7396H	Thrust Bearing Race	90	110542X	Shift Mechanism Seal
35	4198R	4th Reduction Gear Shaft	91	19181511	Washer 9/16 x 15/16 x 12
36	4200R	4th Reduction Gear Spacer			Gauge
37	7395H	Thrust Bearing Race	92	75J	Gearshift Gate and
38	160789	Gate Lower Shift VGT			Reinforcement
39	139536	Gearcase and Bearings, L.H.	93	6274H	Shift Ball Cover Gasket
		(Includes Key Numbers 18, 25,	94	76020412	Cotter Pin 1/8 x 3/4
40	12200400	49, 50 (2), 51 and 52)	96	159783	Screw Hx W Hd Machine
40 41	13320400 17580520	Pipe Plug 1/2-14 N.P.T.	97	633A109	Gearshift Lever Assembly
41 45	17580520 6271H	Bolt, Hex 5/16-18 UNC x 1-1/4	98	161823	Transaxie, 6 Speed,
45 46	13060200	Off Seal			Complete Assembly
49	13060200 4895H	Pipe Plug 1/4-18 N.P.T. Needle Bearing			
50	4695N 4222R	•	NOTE:		dimensions given in U.S. inches
50 51	1529R	Needle Bearing Needle Bearing		1 inch = 25.4 m	NT)

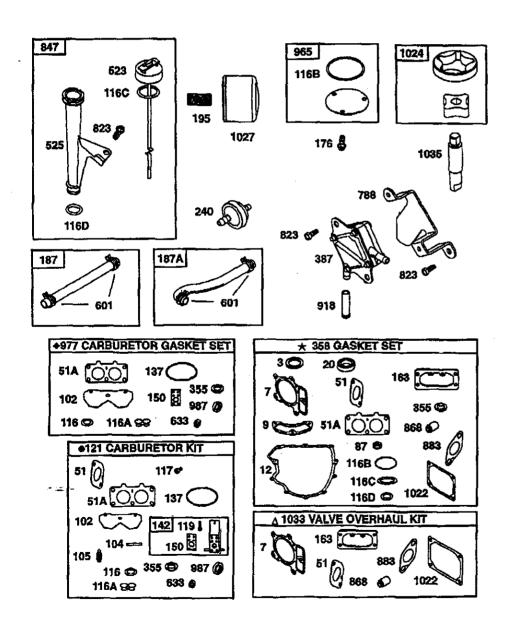












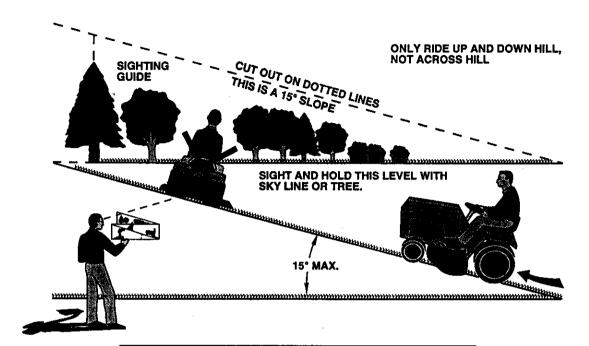
TRACTOR - - MODEL NUMBER 917.273031
BRIGGS & STRATTON ENGINE-MODEL NUMBER 407777, TYPE NUMBER 0122-E1

VEV	DADT		KEY	PART	
KEY NO.	PART NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
110.	110.				DEGGIAI IIGII
1	499584	Cylinder Assembly	116	690987	 O-Ring, Solenoid Retainer
2	499585	Bushing, Cylinder	116A	690988	 O-Ring, Fuel Transfer Tube
3	690926	* Seal, Oil	116B	690589	 Seal, Ö-Ring (Oil Pump Cover)
. 4	690069	Sump, Engine	116C	691031	 Seal, O-Ring (Dipstick)
5	499587	Head, Cylinder No. 1	116D	691032	 Seal, O-Ring (Oil Fill Tube)
5A	499595	Head, Cylinder No. 2	117	690232	 Jet, Main (Standard)
6	690097	Washer, Flat	119	690990	 Screw, Phillips
7	690962	Ø* Gasket, Cylinder Head	119A	690991	Screw, Phillips
8	499601	Breather Assembly	119B	690992	Screw, Phillips
9	690937	 Gasket, Breather 	119C	690720	Screw, Phillips
10	691003	Screw, Hex	121	499811	Carburetor Overhaul Kit
11	690942	Tube, Breather	122	690952	Spacer, Carburetor
12	690945	 Gasket, Crankcase 	125	499804	Carburetor
13	690360	Screw, Cylinder Head (3-9/16")	130	690993	Valve, Throttle
15	690946	Plug, Oਜ਼ੋ Drain	131	499805	Shaft, Throttle
16	691046	Crankshaft	133	499806	Float, Carburetor
20	690947	* Seal, Oil	135	499803	Tube, Fuel Transfer
22	690308	Screw, Crankcase Cover	137	690994	 Gasket, Float Bowl
23	691053	Flywheel	141	499807	Shaft, Choke
24	690974	Key, Flywheel	142	499806	 Nozzle, Carburetor
25	499588	Piston Assembly (Std.)	146	94388	Key, Timing
	499589	Piston Assembly (.010" O.S.)	150	281767	♦ Gasket, Nozzle
	499590	Piston Assembly (.020" O.S.)	160	690996	Retainer, Solenoid
	499591	Piston Assembly (.030" O.S.)	163	691001	Ø* Gasket, Air Cleaner
26	499604	Ring Set, Piston (Std.)	176	691033	Screw, T-30
	499605	Ring Set, Piston (.010" O.S.)	187	691050	Line, Fuel
	499606	Ring Set, Piston (.020" O.S.)			(Cut To Required Length)
	499607	Ring Set, Piston (.030" O.S.)	187A	691049	Line, Fuel
27	690975	Lock, Piston Pin	188	691058	Screw, Hex
28	499582	Pin Assembly, Piston	190	690953	Screw, Torx Hex
29	499583	Rod Assembly, Connecting	192	690083	Adjuster, Rocker Arm
32	690976	Screw, Connecting Rod	195	690954	Nipple, Oil Filter
33	499596	Valve, Exhaust	209	690018	Spring, Governor
34	499597	Valve, Intake	211	690019	Spring, Governed idle
35	690963	Spring, Valve	212	691020	Link, Throttle
40 42	690964	Retainer, Valve	213	691021	Bracket, Choke Control
42	499586 690977	Keeper Valve Tappet, Valve	216 219	691022	Link, Choke
45	690978	• • •	220	394348 690412	Gear, Governor
50	690948	Gear, Cam Manifold, Intake	222	691023	Washer, Thrust Plate, Governor Control
50 51	690949	*•Ø Gasket, Carb. Mounting	227	691048	Lever Assembly, Governor
51A	690950	* Gasket, Intake Manifold		Settinas:	Low: 1750-1950
53	690951	Stud, Carb. Mounting	nrai s	sermiña.	High: 3200-3400
73	691055	Screen, Rotating			riigii. 3200-3400
75.		Washer, Spring		Included i	n Gasket Set. Part Number 499889
78	691057	Screw, Torx			n Carburetor Lit, Part Number 499811
87	690657	* Seal, Governor Shaft	٥		n Carburetor Gasket Set, Part
89	690238	Plug, Oil	٧	Number 4	
95	690718	Screw, Slotted	Ø		n Valve Overhaul Gasket Set. Part
98	499802	Screw, Idle Speed	**	Number 4	· · · · · · · · · · · · · · · · · · ·
102	690234	♦ Gasket, Plate		1101110017	
104	690984	Pin, Float Hinge	NOTE	· All comos	nent dimensions given in U.S. inches
105	690985	Valve, Needle		. ~arcompo ≂25.4 mm	non ornorono granti d.c. nones
108	690986	Valve, Choke	~		
110	691261	Washer			

TRACTOR - - MODEL NUMBER 917.273031
BRIGGS & STRATTON ENGINE-MODEL NUMBER 407777, TYPE NUMBER 0122-E1

KEY	PART		KEY	PART		•
NO.	NO.	DESCRIPTION	NO.	NO.		DESCRIPTION
		•				
240	691035	Filter, Fuel	823	690960		Screw, Hex
252	690956	Element, Breather	847	499602		Dipstick/Tube Assembly
_ 256	690957	Retainer, Etement	851	691234		Terminal, Ignition Cable
258	691003	Screw, Hex	855	691011		Adapter, Air
265	691024	Clamp, Casing	865	691012	-	Cover, Air Guide
277	691029	Nut, Hex	865A	691013		Cover, Air Guide
304	691004	Housing, Blower	865B	691015	-	Cover, Air Guide
305	691005	Screw, Hex	868	690968 1	Ø	Seal, Valve
309	691262	Motor, Starter	871	690969		Bushing, Guide
310	691263	Screw, Hex	878	691237		Wire, Altemator
311	691264	Brush Set	881	690999		Plate, Cover
332	690059	Nut, Flywheel	883	690970 1	ø	Gasket, Exhaust
333	691060	Armature, Magneto	918	691040		Hose, Vacuum
334	691061	Screw, Armature Mounting	947	499809		Solenoid, Fuel
337	691043	Spark Plug	965	499613	-	Cover, Oil Pump
351	691044	Screw, Hex	967	691016		Filter, Pre-Cleaner
355	690997	•*Ø Washer, Seal	968	499788		Cover, Air Cleaner
358	499889	Gasket Set	975	499810		Bowl, Float
363	691062	Flywheel, Puller	977	499812		Gasket Set, Carburetor
383	690966	Wrench, Spark Plug	987	691000	•◊	Seal, Throttle Shaft
387	691034	Pump, Fuel	1005	691243		Fan, Flywheel
445	691007	Cartridge, Air Cleaner	1006	691247		Retainer, Fan
467	691008	Nut, Air Cleaner	1017	690770		Screen, Oil Pump
474	691063	Alternator	1019	690103		Label Kit
482	691183	Screw, Hex	1022	690971 '	Ø	Gasket, Rocker Cover
510	497606	Drive, Starter	1023	499599		Cover, Rocker (Cyl. No. 1)
523	691036	Dipstick, Oil	1023A	499600		Cover, Rocker (Cyl. No. 2)
525	691037	Tube, Oil Fill	1024	499054		Pump, Oil
544		Armature, Starter (Service with	1026	690981		Rod, Push (Steel)
		499529 Starter Motor)	1026A	690982		Rod, Push (Aluminum)
552	690552	Bushing, Governor Crank	1027	690041		Filter, Oil
552A	690553	Bushing, Governor Crank	1029	690972		Arm, Rocker
556	690967	Screw, Hex	1033	499890		Valve Overhaul Kit
562	690311	Bolt, Carriage	1035	691042		Shaft, Oil Pump
573	691009	Plate, Black	1036	499783	!	Label Kit, Emission
592	690958	Nut, Hex	1058	273694		Owner's Manual
592A	691029	Nut, Hex	1090	691293		Retainer, Brush
601	691038	Clamp, Fuel Line	1100	690973		Pivot, Rocker Arm
615	690328	Retainer, Governor	2500	407777,0027	7	Replacement Engine
615A	690317	Retainer, Governor	2500		1	Short Block
615 B -	691265	Retainer	RPM S	ettings:	!	Low: 1750-1950
616	691045	Crank, Governor				High: 3200-3400
633	690998	 Seal, Choke Shaft 				
634	690442	Washer, Flat	•	Included in G	Sasi	ket Set, Part Number 499889
635	691210	Boot, Spark Plug	•	Included in C	Cart	ouretor Lit, Part Number 499811
668	691215	Spacer	٥	Included in C	art	puretor Gasket Set, Part
703	690010	Clip, Hose		Number 499	890)
718	690959	Dowel, Sleeve	Ø	included in V	/alv	e Overhaul Gasket Set, Part
726	499612	Gear, Ring		Number 499	890	•
728	690372	Screw, Tonx®				
. 741	690980	Gear, Timing	NOTE:	All componer	nt d	limensions given in U.S. inches
783	691280	Gear, Starter	1 inch :	= 25.4 mm		
788	691039	Bracket, Pump				
789	691220	Hamess, Wiring				
801	691283	Cap, Drive				
802	691286	Cap, End				
803-	<u> </u>	Housing, Starter (Service with				
		499529 Starter Motor)				•

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.

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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