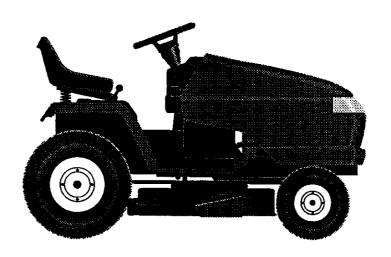
Owner's Manual

CRAFTZMAN°

GARDEN TRACTOR

27.0 HP, 48" Mower Electric Start Automatic Transmission

Model No. 917.275281





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

IMPORTANT:

Read and follow all Safety Rules and Instructions before operating this equipment. For answers to your questions about this product, Call:

1-800-659-5917 Sears Craftsman Help Line 5 am - 5 pm, Mon - Sat

Sears, Roebuck and Co., Hoffman Estates, II 60179 U.S.A. Visit our Craftsman website:www.sears.com/craftsman

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WARRANTY

LIMITED WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace free of charge any parts that are found to be defective in material or workmanship according to the guidelines of coverage listed below. Sears will also provide free labor for these applicable warranted parts for the two full years. During the first 30 days of purchase, there will be no charges to service the product at your home for issues covered by this warranty. (See exclusions below). For your convenience, IN HOME warranty service will still be available after the first 30 days of purchase, but a trip charge will apply. This charge will be waived if the Craftsman product is dropped off at an authorized Sears location. For the nearest authorized Sears location, please call 1-800-4-MY-HOME®. This warranty applies only while this product is within the United States.

This Warranty does not cover:

Expendable items which become worn during normal use, including but not limited to blades, spark plugs, air cleaners, belts, and oil filters.

Standard Maintenance Servicing, oil changes, or tune-ups

Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.

Repairs necessary because of operator abuse, including but not limited to, damage caused by towing objects beyond the capability of the riding equipment, impacting objects that bend the frame or crankshaft, or over-speeding the engine.

Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the deck clear of flammable debris, or failure to maintain the equipment according to the instructions contained in the owner's manual.

Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within 30 days of its purchase date.

Normal deterioration and wear of the exterior finishes, or product label replacement. Riding equipment used for commercial or rental purposes.

LIMITED WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. During the first 30 days of purchase, there will be no charges to replace the battery at your HOME. After the first 30 days, for your convenience, IN-HOME warranty service will still be available but a trip charge will apply. This charge will be waived if the Craftsman product is dropped of at an authorized Sears location. For the nearest authorized Sears location, please call 1-800-4-MY-HOME®.

This battery warranty applies only while this product is within the United States.

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

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

SAFETY RULES

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

WARNING: 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.

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

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

WARNING: Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.

- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury. Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn . Do not allow the mower deck to plow leaves or other debris which can cause buildup to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

Slopes are a major factor related to 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.

SAFETY RULES

DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

DO NOT:

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.

- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices.
 Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut.
 Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.

SAFETY RULES











- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.

- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

PRODUCT SPECIFICATIONS

Gasoline Capacity and Type:	5.0 Gallon Unleaded Regular		
Oil Type	SAE 10W30 SAE 5W-30	(above 32°F) (below 32°F)	
Oil Capacity:	W/ Filter: W/O Filter:		
Spark Plug: (Gap: .030")	Champion F	RC12YC	
Ground Speed (MPH):			
	Forward: Reverse:	0 - 5.8 0 - 2.1	
Tire Pressure:	Front: Rear:	14 PSI 10PSI	
Charging System: 15AMPS @ 3600 Rpm			
Battery:	Amp/Hr: Min. CCA: Case size:	280	
Blade Bolt Torque: 45-55 Ft. Lbs.			

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

Should you experience any problem you cannot easily remedy, please contact a Sears or other qualified service center. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

REPAIR AGREEMENT

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

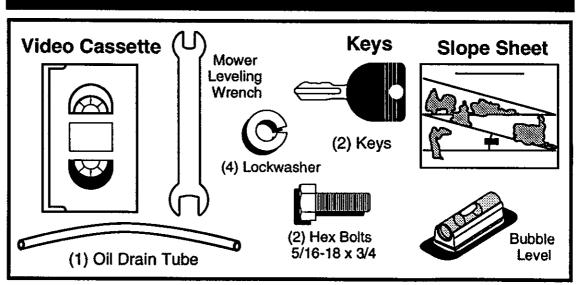
CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

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 service center (See REPAIR PARTS section of this manual).

PARTS BAG CONTENTS



ASSEMBLY/PRE-OPERATION

Your new tractor has been assembled at the factory. Review the video cassette before you begin.

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

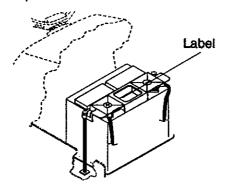
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- 2. Remove packing materials.
- 3. Remove protective materials from tractor hood and grill.

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

CHECK BATTERY

1. Lift hood to raised position.

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



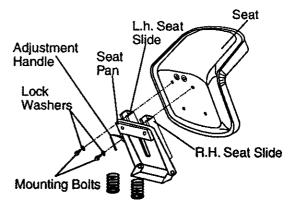
INSTALL SEAT

Seat position should be adjusted forward or backward so that the operator can comfortably reach clutch/brake pedal and safely operate the tractor.

 Remove the two (2) bolts and flat washers securing the seat to cardboard packing. Keep the two (2) bolts only and place them with the two (2) identical bolts and four (4) washers in the parts bag. Discard the flat washers and cardboard packing.

- Release L.H. seat slide on seat pan by pulling out on adjustment handle and sliding it to the rear position exposing seat mounting holes from bottom. Slide R.H. slide to same rear position.
- Mount rear of seat on slides using mounting bolts and lock washers as shown.
- 4. Pull out on adjustment handle and slide seat all the way forward. Install front mounting bolts and lock washers. Tighten all mounting bolts securely.
- Lower seat into operating position and sit on seat. Press clutch/brake pedal all the way down. If operating position is not comfortable, adjust seat.

To adjust seat: Grasp adjustment handle and pull out, slide seat to desired position and release adjustment handle.



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

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

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing brake pedal.
- Place freewheel control in transmission disengaged position (See "To Transport" in the Operation section of this manual).
- 4. Roll tractor forward off skid.

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

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

- 1. Be sure all the above assembly steps have been completed.
- 2. Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position (See "To Transport" in the Operation section of this manual).
- Sit on seat in operating position, depress brake pedal and set the parking brake.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- 7. Release parking brake.
- Slowly move the motion control lever forward and slowly drive tractor off skid.
- Apply brake to stop tractor and set parking brake.
- 10. Turn ignition key to "STOP" position. Continue with the instructions that follow.

CHECK TIRE PRESSURE

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

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

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

✓CHECKLIST

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

Please review the following checklist:

- ✓ All assembly instructions have be completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- Be sure mower deck is properly leveled side-to-side/front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- Check wiring. See that all connections are still secure and wires are properly clamped.
- ✓ Before driving tractor, be sure freewheel control is in "transmission engaged" position (see "TO TRANSPORT" in the Operation section of this manual).

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

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

OPERATION

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





















ENGINE START





























LIGHT















ATTACHMENT ATTACHMENT CLUTCH ENGAGED CLUTCH DISENGAGED







SLOPE HAZARDS (SEE SAFETY RULES SECTION)



FREE WHEEL (Automatic Models only)



Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage.



DANGER indicates a hazard which, if not avoided, will result in death or serious injury.



WARNING indicates a hazard which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury.

CAUTION when used without the alert symbol, indicates a situation that could result in damage to the tractor and/or engine.



HOT SURFACES indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

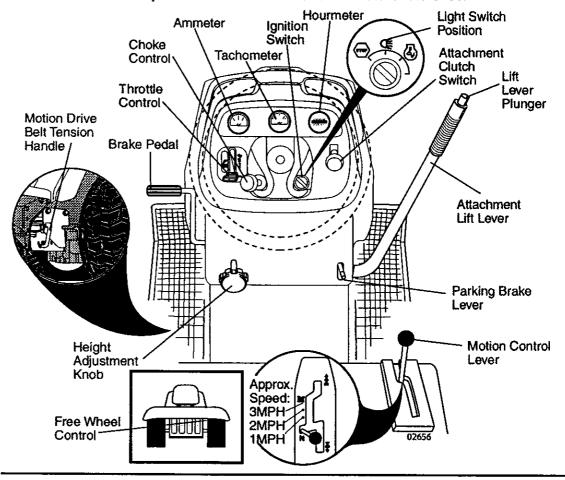


FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

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 POSITION - Turns the

headlights on and off.

THROTTLE CONTROL - Used to control engine speed.

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

CHOKE CONTROL - Used when starting a cold engine.

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

IGNITION SWITCH - Used for starting and stopping the engine.

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

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

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

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

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

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

MOTION DRIVE BELT TENSION HAN-

DLE-Used when changing motion drive belt and, if necessary, starting engine under extremely cold conditions.

TACHOMETER-Measures the speed of your engine in revolutions per minute (RPM). HOURMETER - Indicates hours of operation.

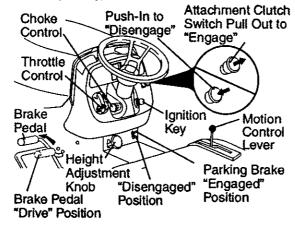


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

- Depress clutch/brake pedal all the way down and hold.
- Pull parking brake lever up 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, push attachment clutch switch in to disengaged position.

GROUND DRIVE -

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

IMPORTANT: The motion control lever returns to neutral (N) position when the brake pedal is fully depressed.

ENGINE -

 Move throttle control between half and full speed (fast) position.

NOTE: Failure to move throttle control between half and full speed (fast) position, before stopping, may cause engine to "backfire".

- Turn ignition key to "STOP" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

IMPORTANT: Leaving the ignition switch in any position other than "STOP" will cause the battery to discharge and go dead.

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

ACAUTION: Always stop tractor completely, as described above, before leaving the operator's position.

TO USE THROTTLE CONTROL

Always operate engine at full throttle.

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

TO USE CHOKE CONTROL

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

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

TO MOVE FORWARD AND BACKWARD

CAUTION: Do not attempt to operate motion control lever when the parking brake is set or when the brake pedal is depressed. Doing so may result in misadjustment to the drive control system.

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

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

TO ADJUST MOWER CUTTING HEIGHT

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

- Turn knob clockwise () to raise cutting height.
- Turn knob counterclockwise () 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 types of grass being mowed.

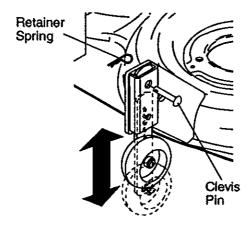
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first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

TO ADJUST GAUGE WHEELS

Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions. **NOTE:** Be sure tractor is on a flat level surface.

- Lower mower and adjust mower to desired cutting height.
- 2. Remove retainer spring and clevis pin which secure each gauge wheel bar.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pin. Gauge wheels should be slightly off the ground.
- 4. Replace retainer spring into clevis pin.
- 5. Be sure all gauge wheels are in the same setting.

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



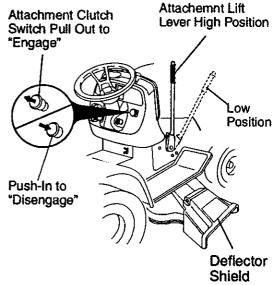
TO OPERATE MOWER

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

- 1. Select desired height of cut.
- Lower mower with attachment lift control.
- 3. Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES - disengage attachment clutch control.

without either the entire grass catcher, on mowers so equipped, or the deflector shield in place.



TO OPERATE ON HILLS

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

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

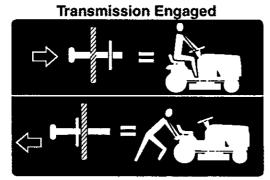
IMPORTANT: The motion control lever returns to neutral (N) position when the brake pedal is depressed.

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

TO TRANSPORT

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

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



Transmission Disengaged

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

TOWING CARTS AND OTHER ATTACH-MENTS

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

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

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

- 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 the oil viscosity chart in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

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

CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

IMPORTANT: When operating in temperatures below32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting.

CAUTION: Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

TO START ENGINE

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress brake pedal and set parking brake.
- Move attachment clutch to "disengage" position.
- 4. 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.

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

NOTE: In extreme cold conditions, if engine will not start you may need to disengage the motion drive belt as follows:

- Be sure parking brake is engaged.
- Remove retainer spring from the drive belt tension handle to relieve belt tension.
- 3. Start engine and allow it to warm up for three (3) minutes.
- Shut-off engine and engage parking brake.
- 5. Engage drive belt tension handle and replace the retainer spring.

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

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

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

PURGE TRANSMISSION

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

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

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

- 1. Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in disengaged position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. Disengage parking brake.
- 4. Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

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

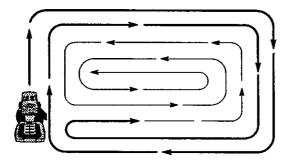
 Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.

- Engage transmission by placing freewheel control in engaged position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine.
 After the engine is running, move
 throttle control to half (1/2) speed.
 Disengage parking brake.
- 8. Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.

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

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has already been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.



- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings.
 Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet.
 Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

MAINTENANCE

AS	MAINTENANCE SCHEDUL LL IN DATES LYOU COMPLETE GULAR SERVICE	E /º	EFORE	EACH VE	HOURS WERN ?	VERY S	HOUR VERY	B HOU OD HOU	S S S S S S S S S S S S S S S S S S S	TORKSE SERVIC	E DATES
	Check Brake Operation	V	1								
	Check Tire Pressure	7	1								
т	Check Operator Presence and Interlock Systems	~									
R	Check for Loose Fasteners	1				1/5		/]	
AC	Sharpen/Replace Mower Blades			1 /3							
+	Lubrication Chart			1				1			
o	Check Battery Level			1/4							
R	Clean Battery and Terminals			1			<u> </u>	1			
	Check Transaxie Cooling			1							
	Check V-Belts					1					
	Check Engine Oil Level	1	1								
	Change Engine Oil (with oil filter)			I	1 1,			1			
E	Change Engine Oil (without oil filter)			1,2				1			
N	Clean Air Filter			1/2							
Ģ	Clean Air Screen			1/2							
N	Inspect Mulfler/Spark Arrester				1						
ΙË	Replace Oil Filter (If equipped)					1.2				i	
-	Clean Engine Cooling Fins	. }		1		1/2					
	Replace Spark Plug			1		1	1				
	Replace Air Fifter Paper Cartridge	1		1		1/2					
	Replace Fuel Filter						1				

- 1 Change more often when operating under a heavy load or In high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.
- 3 Replace blades more often when mowing in sandy soil.4 Not required if equipped with maintenance-free battery.
- 5 Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

GENERAL RECOMMENDATIONS

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

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

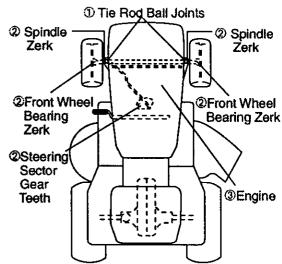
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

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

LUBRICATION CHART



- **OSpray Silicone Lubriant (Move Boots to** Lubricate)
- ②General Purpose Grease
- ③Refer to Maintenance "ENGINE" Section

IMPORTANT: Do not oil or grease the pivot points which have special nylon bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant 16^{sparingly.}

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

OPERATOR PRESENCE SYSTEM

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

- The engine should not start unless the brake pedal is fully depressed and attachment clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

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

BLADE REMOVAL

Raise mower to highest position to allow access to blades.

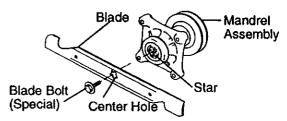
NOTE: Protect your hands with gloves and/or wrap blade with heavy cloth.

Remove blade bolt by turning counterclockwise. Install new or resharpened blade with stamped "THIS SIDE UP" facing deck and mandrel assembly.

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

4. Install and tighten blade bolt securely (45-55 Ft. Lbs. torque).

IMPORTANT: Special blade bolt is heat treated.



TO SHARPEN BLADE

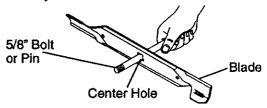
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

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

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

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



BATTERY

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

- Keep battery and terminals clean.
- Keep battery bolts tight.

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

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

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

TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling. Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

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

TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact a Sears or other qualified service center.

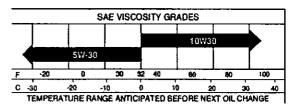
V-BELTS

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

ENGINE

LUBRICATION

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

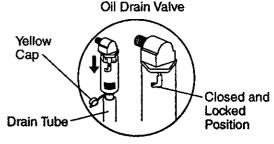


Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each eight (8) hours of operation.

TO CHANGE ENGINE OIL

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

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



- Unlock drain valve by pushing upward slightly and turning counterclockwise.
- 4. To open, pull down on the drain valve.
- After oil has drained completely, close and lock the drain valve by pushing upward and turning clockwise until the pin is in the locked position as shown.
- 6. Remove the drain tube and replace the cap onto the end of the drain valve.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PROD-UCT SPECIFICATIONS" section of this manual.
- 8. Use gauge on oil fill cap/dipstick for checking level. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

ENGINE OIL FILTER

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

AIR FILTER

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

Service air cleaner more often under dusty conditions.

1. Loosen knob and remove cover.

TO SERVICE PRE-CLEANER

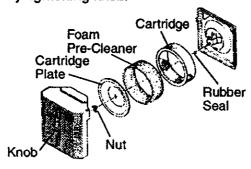
- 2. Slide foam pre-cleaner off cartridge.
- 3. Wash it in liquid detergent and water.
- 4. Squeeze it dry in a clean cloth. Allow it to dry.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

Replace a dirty, bent, or damaged cartridge.

NOTE: Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge.

- 6. Remove nut and cartridge plate.
- 7. Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Check rubber seal for damage and proper position around stud. Replace if necessary.
- Reassemble air cleaner, cartridge plate, and nut.
- Reinstall air cleaner cover and secure by tightening knob.



CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

MUFFLER

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

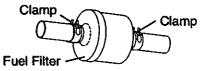
SPARK PLUG(S)

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

IN-LINE FUEL FILTER

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

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



CLEANING

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

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

SERVICE AND ADJUSTMENTS



WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER

- Place attachment clutch in "DISEN-GAGED" position.
- 2. If equipped, turn height adjustment knob to lowest setting.
- 3. Lower mower to its lowest position.
- 4. Disengage belt tension rod from lock bracket.

A CAUTION: Rod is spring loaded. Have a tight grip on rod and release slowly.

- Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-sway bar from bracket.
- 6. Remove four retainer springs from front plate assembly and remove plate.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- 8. Raise attachment lift to its highest posi-
- 9. Slide mower forward and remove belt from electric clutch pulley.
- 10. Slide mower out from under right side of tractor.

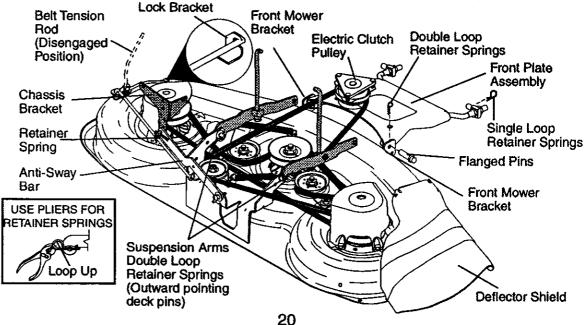
TO INSTALL MOWER

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

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

IMPORTANT: Check belt for proper routing in all mower pulley grooves.

- 3. If equipped, turn height adjustment knob counterclockwise until it stops.
- 4. Lower mower linkage with attachment lift control.
- 5. Be sure belt tension rod is in disengaged position.
- Install belt into electric clutch pulley groove.
- 7. Place the suspension arms on outward pointing deck pins. Retain with double loop retainer spring with loops up as shown.
- Install front plate assembly to tractor suspension brackets and retain with single loop retainer springs as shown.



 Position front plate assembly between front mower brackets. Raise deck and plate assembly to align holes and insert flanged pins. Secure pins with double loop retainer springs between the plate assembly and mower brackets.

NOTE: To assist in locating hole in flanged pin, the hole in pin is inline with notch on head of pin. If necessary, move mower side-to-side to give space between plate and mower brackets.

IMPORTANT: Check belt for proper routing in all mower pulley grooves.

 Engage belt tension rod by pushing rod into locking bracket.

A CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and engage slowly.

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

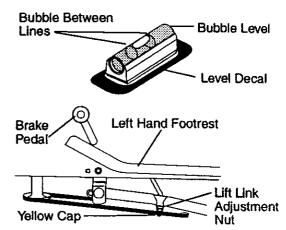
TO LEVEL MOWER HOUSING

Adjust the mower while tractor is parked on level ground such as a carport or garage. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT WITH BUBBLE LEVEL

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

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

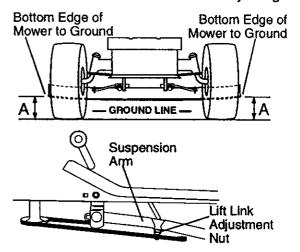


ALTERNATE SIDE-TO-SIDE ADJUSTMENT METHOD

- Raise mower to its highest position.
- Measure height from bottom edge of mower 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 sideto-side. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

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

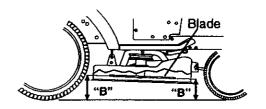
A CAUTION: Blades are sharp. Protect your hands with gloves and/or wrap blade with heavy cloth.

Check adjustment on right side of tractor. Position any blade so the tip is pointing straight forward. Measure distance "B" at front and rear tip of blade

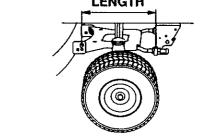
- Before making any necessary adjustments, check that both front links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of blade, loosen nut "C" on both front links an equal number of turns.

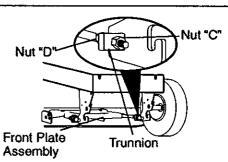
NOTE: Each full turn of nut "C" will change dim. "B" by approximately 3/16".

- When distance "B" is 1/8" to 1/2" lower at front than rear, tighten nut "D" against trunnion on both front links.
- To raise front of blade, loosen nut "D" from trunnion on both front links.
 Tighten nut "C" on both front links an equal number of turns.
- When distance "B" is 1/8" to 1/2" lower at front than rear, tighten nut "D" against trunnion on both front links.
- · Recheck side-to-side adjustment.



BOTH FRONT LINKS MUST BE EQUAL IN LENGTH





TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL

- 1. Park tractor on a level surface. Engage parking brake.
- 2. Lower mower to its lowest position.
- 3. Disengage belt tension rod from lock bracket.

CAUTION: Rod is spring loaded.

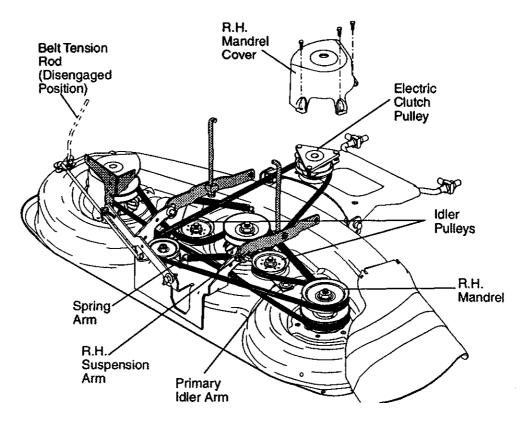
Have a firm grip on rod and release slowly.

- 4. Remove screws from R.H. mandrel cover and remove cover.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Disconnect R.H. suspension arm from rear deck bracket by removing retainer spring.
- Carefully roll belt over the top of R.H. mandrel pulley.
- 8. Remove belt from electric clutch pulley.
- 9. Remove belt from idler pulleys.

- 10. Check primary idler arm and two idlers to see that they rotate freely.
- 11. Be sure spring is securely hooked to primary idler arm and spring arm.

MOWER DRIVE BELT INSTALLATION

- 12. Install belt in both idlers.
- 13. Install new belt onto electric clutch pul-
- 14. Carefully roll belt into upper groove of R.H. mandrel pulley.
- Carefully check belt routing making sure belt is in the grooves correctly.
- 16. Reconnect R.H. suspension arm to rear deck bracket with retainer spring.
- 17. Reassemble R.H. mandrel cover.
- 18. Engage belt tension rod by pushing rod into locking bracket.



TO REPLACE MOWER BLADE (SEC-ONDARY) DRIVE BELT

Park the tractor on level surface. Engage parking brake.

- Remove mower (See "TO REMOVE MOWER" in this section of manual).
- Remove screws from R.H. and L.H. mandrel covers and remove covers.

REMOVE MOWER DRIVE BELT (Refer to "TO REMOVE MOWER DRIVE BELT" illustration in this section of manual).

- Carefully roll belt over the top of R.H. mandrel pulley.
- 4. Remove belt from idler pulleys.
- Check primary idler arm and two idlers to see that they rotate freely.
- 6. Be sure spring is securely hooked to primary idler arm and spring arm.

REMOVE MOWER BLADE (SECONDARY) DRIVE BELT

- Carefully roll belt off L.H. mandrel pullev.
- Remove belt from center mandrel pulley, idler pulley, and R.H. mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.

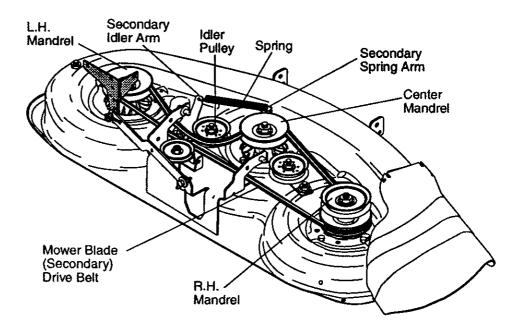
- 10. Check secondary idler arm and idler pulley to see that they rotate freely.
- 11. Be sure spring is hooked in secondary idler arm and secondary spring arm.

INSTALL NEW MOWER BLADE (SECONDARY) DRIVE BELT

- Install new belt in lower groove of R.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Carefully roll belt over L.H. mandrel pulley. Make sure belt is in all grooves properly.

REINSTALL MOWER DRIVE BELT (Refer to "TO REMOVE MOWER DRIVE BELT" illustration in this section of manual).

- 14. Install belt into upper groove of R.H. mandrel pulley and around both idlers. Pull belt to front of mower to remove slack.
- 15. Reinstall mandrel covers and securely tighten all screws.
- Carefully check belt routing making sure belt is in all grooves correctly.
- 17. Reinstall mower to tractor (See "TO INSTALL MOWER" in this section of manual).

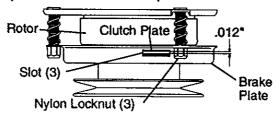


TO ADJUST ATTACHMENT CLUTCH

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 a Sears or other qualified service center.

- 1. 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 CHECK AND ADJUST BRAKE

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

If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be checked and adjusted.

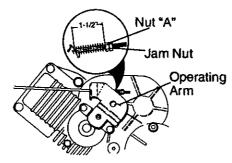
TO CHECK BRAKE

- Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake.
- Disengage transmission by placing freewheel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged position.

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced.

TO ADJUST BRAKE

- Depress clutch/brake pedal all the way down and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- 4. Engage transmission by placing freewheel control in "transmission engaged" position.
- 5. Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a Sears or other qualified service center.



TO REPLACE MOTION DRIVE BELT

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

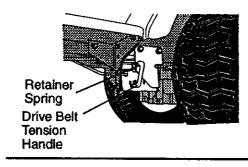
 Remove mower (See "TO REMOVE MOWER" in this section of this manual.)

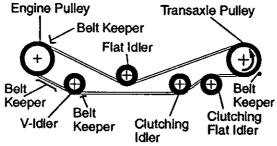
BELT REMOVAL -

- Create slack in belt by removing retainer spring from drive belt tension handle.
- Remove belt from all idler pulleys, transaxle pulley and then from engine pulley.

BELT INSTALLATION -

- Install new belt around engine pulley first, then around transaxle pulley and lastly into all the idler pulleys.
- Check to be sure belt is positioned correctly and is on proper side of all belt keepers.
- 3. Engage the drive belt tension handle and replace the retainer spring.
- 4. Reinstall mower.

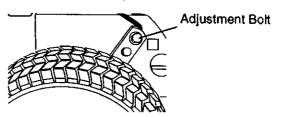




TRANSAXLE MOTION CONTROL LE-VER NEUTRAL ADJUSTMENT

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

- Park Tractor on level surface. Stop tractor by turning ignition key to "OFF" position and engage parking brake.
- 2. Loosen the adjustment bolt in front of the right rear wheel.
- 3. Move motion control lever to the neutral position.
- 4. Tighten the adjustment bolt.



TRANSMISSION REMOVAL/ REPLACEMENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGE TRANSMISSION" in the Operation section of this manual.

TO ADJUST STEERING WHEEL ALIGN-MENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble with crossbars horizontal. Tighten securely.

FRONT WHEEL TOE-IN ADJUSTMENT

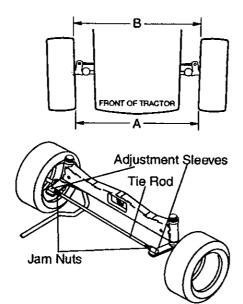
Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

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".
- 3. 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 contact a Sears or other qualified service center

TO REMOVE WHEEL FOR REPAIRS

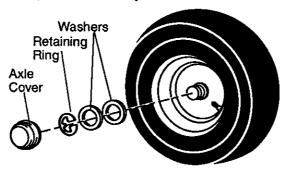
FRONT WHEEL -

- 1. Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal.
- 3. Repair tire and reassemble.
- 4. Replace washers and snap retaining ring securely in axle groove.
- 5. Replace axle cover.

REAR WHEEL -

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

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, purchase and use tire sealant from Sears. Tire sealant also prevents tire dry rot and corrosion.



TO START ENGINE WITH A WEAK BAT-TERY

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

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

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

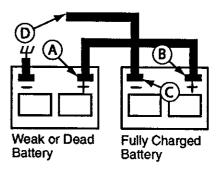
IMPORTANT: Your tractor is equipped with a 12 volt system. The other vehicle must also be a 12 volt system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

- Connect one end of the RED cable to the POSITIVE (+) terminal of each battery(A-B), taking care not to short against tractor chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal (C) of fully charged battery.
- Connect the other end of the BLACK cable (D) to good chassis ground, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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



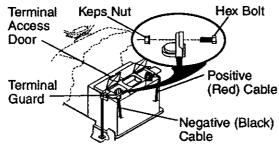
REPLACING BATTERY

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

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

- 1. Lift hood to raised position.
- 2. Remove terminal guard.

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



TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

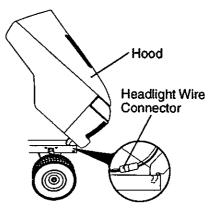
 Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSÉ

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

TO REMOVE HOOD AND GRILL AS-SEMBLY

- 1. Raise hood.
- 2. Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- When replacing hood, be sure to reconnect the headlight wire connector.



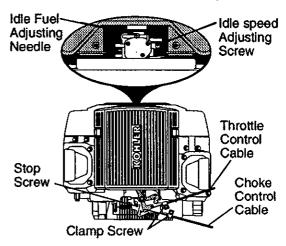
ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE

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

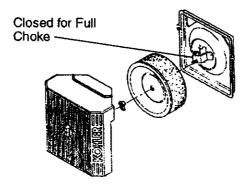
- 1. With engine not running, move throttle control lever to fast position.
- Check that speed control lever is against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw.
 Tighten clamp screw securely.



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 present 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 adjusting needles in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

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

PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable is adjusted properly (see "TO ADJUST THROTTLE CONTROL CABLE" in the Service and Adjustments section of this manual).
- With engine off turn idle fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 turn.

FINAL SETTING -

1. Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.

NOTE: The high idle is set at the factory and cannot be adjusted.

- Idle speed setting With throttle control lever in slow position, engine should idle at 1200 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting With throttle control lever in slow position, turn idle fuel adjusting needle in (clockwise) until engine speed decreases and then turn out (counterclockwise) approximately 3/4 turn to obtain the best low speed performance.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

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

High speed stop is factory adjusted. Do

not adjust-damage may result.

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

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.

WARNING: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Maintenance section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- 3. Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- 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 TERMINALS" in the Maintenance section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

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

OTHER

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

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

TROUBLESHOOTING CHART:

See appropriate section in manual unless directed to Sears service center

### 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment. 11. Dirty air filter. 22. Bad spark plug. 33. Weak or dead battery. 44. Dirty fuel filter. 55. Stale or dirty fuel. 66. Loose or damaged wiring. 67. Carburetor out of adjustment. 68. Engine valves out of adjustment. 69. Carburetor out of adjustment. 61. Loose or damaged wiring. 62. Loose or damaged wiring. 63. Loose or damaged wiring. 64. Loose or damaged wiring. 65. Coroded battery. 66. Loose or damaged wiring. 67. Carburetor out of adjustment. 68. Engine valves out of adjustment. 69. Engine will not urn over 60. Engine will not urn over 61. Brake pedal not depressed. 62. Attachment clutch is engaged. 63. Weak or dead battery. 64. Blown fuse. 65. Corroded battery terminals. 66. Loose or damaged wiring. 77. Faulty ignition switch. 88. Faulty solenoid or starter. 89. Faulty operator presence switch(es). 80. Faulty operator presence switch(es). 81. Figli fuel tank. 82. See "TO START ENGINE" in Operation section. 82. Glean/replace air filter. 83. Check all wiring. 84. Clean/replace air filter. 85. Check all wiring. 85. Check all wiring. 86. Check all wiring. 87. Carburetor out of adjustment. 88. Engine valves out of adjustment. 89. See "To Adjust Carburetor" in Service and Adjustments section. 80. Check all wiring. 80. See "To Adjust Carburetor" in Service and Adjustment fresh gasoline. 81. Clean/replace battery. 82. Corroded battery terminals. 83. Check all wiring. 84. Faulty solenoid or starter. 85. Clean battery terminals. 85. Check/replace solenoid or starter. 86. Check/replace solenoid or starter. 87. Check/replace solenoid or starter. 88. Engine or replace battery. 89. See "To Adjust Carburetor" in Service and Adjustment fresh gasoline. 80. Check all wiring. 80. Clean/replace air filter. 81. Clean/replace air filter. 82. Clean battery terminals. 83. Check/replace	PROBLEM	CAUSE	ected to Sears service center CORRECTION
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fast. reduce speed. 2. Throttle in "CHOKE" 2. Adjust throttle control.			Check/replace solenoid or
2. Throttle in "CHOKE" 2. Adjust throttle control.	Loss of power		
		2. Throttle in "CHOKE"	reduce speed.

TROUBLESHOOTING CHART:

See appropriate section in manual unless directed to Sears service center

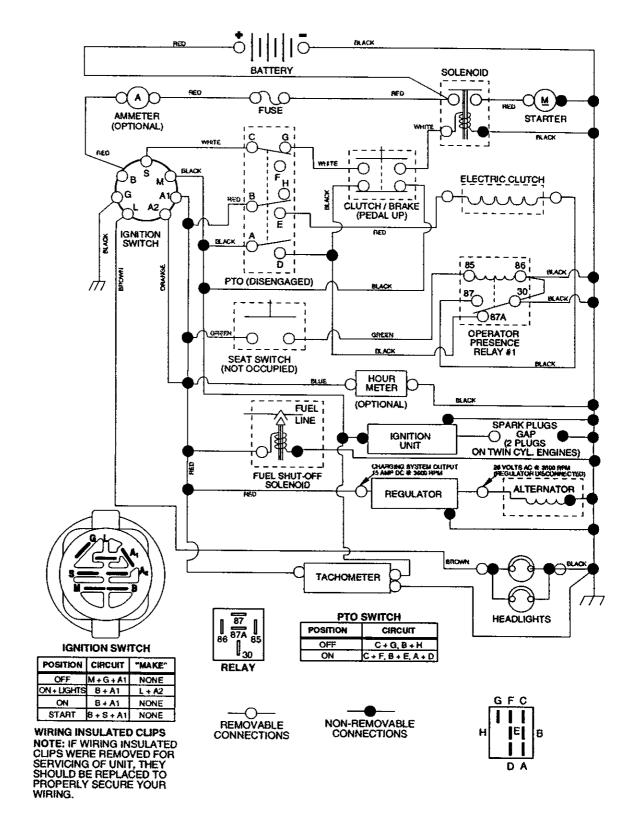
PROBLEM	CAUSE	CORRECTION
Loss of power	3. Build-up of grass, leaves	Clean underside of mower
(continued)	and trash under mower.	housing.
(continued)	4. Dirty air filter.	4. Clean/replace air filter.
	5. Low oil level/dirty oil.	5. Check oil level/change oil.
	6. Faulty spark plug.	6. Clean and regap or change
	l c aany opani piog.	spark plug.
	7. Dirty fuel filter.	7. Replace fuel filter.
	8. Stale or dirty fuel.	8. Drain fuel tank and refill
		with fresh gasoline.
	9. Water in fuel.	9. Drain fuel tank and
		carburetor, refill tank with
		fresh gasoline and replace
		fuel filter
	10. Spark plug wire loose.	10.Connect and tighten spark
		plug wire.
	11. Dirty engine air screen/fins.	11.Clean engine air screen/
		fins.
	12. Dirty/clogged muffler.	12.Clean/replace muffler.
	13. Loose or damaged wiring.	13. Check all wiring.
	14. Carburetor out of	14. See "To Adjust Carburetor"
	adjustment.	in Service and Adjustments
	45 Chaine values aut at	section.
	15. Engine valves out of	15. Contact a Sears or other
	adjustment.	qualified service center.
Excessive	1. Worn, bent or loose blade.	Replace blade.
vibration	·	Tighten blade bolt.
	Bent blade mandrel.	2. Contact a Sears or other
		qualified service center.
	3. Loose/damaged part(s).	3. Tighten loose part(s).
		Replace damaged parts.
Engine continues	Faulty operator-safety	1. Check wiring, switches and
to run when	presence control system.	connections. If not corrected,
operator leaves	•	contact a Sears or other
seat with		qualified service center.
attachment		
clutch engaged		
Poor cut - uneven	Worn, bent or loose blade.	Replace blade. Tighten
3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		blade bolt.
	2. Mower deck not level.	2. Level mower deck.
	3. Buildup of grass, leaves,	3. Clean underside of mower
	and trash under mower.	housing.
	Bent blade mandrel.	4. Contact a Sears or other
I	1	qualified service center.
I	E Olement out	
	5. Clogged mower deck vent	Ölean around mandrels to
	from build-up of grass,	
	from build-up of grass, leaves, and trash around	Ölean around mandrels to
	from build-up of grass,	Ölean around mandrels to
Mower blades will	from build-up of grass, leaves, and trash around mandrels.	Ölean around mandrels to
Mower blades will not rotate	from build-up of grass, leaves, and trash around mandrels.	Ölean around mandrels to open vent holes.

TROUBLESHOOTING CHART: See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION
Mower blades will not rotate (con't)	 Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	2. Replace mower drive belt. 3. Replace idler pulley. 4. Contact aSears or other qualified service center.
Poor grass charge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Place throttle control in dis- "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) or lamp(s) burned out Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse.
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator.
Loss of drive	 Freewheel control in "disengaged" position. Motion drive belt worn, damaged, or broken. Air trapped in transmission during shipment or servicing. 	 Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission.
Engine "backfires' when turning engine "OFF"	Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

TRACTOR -- MODEL NUMBER 917.275281

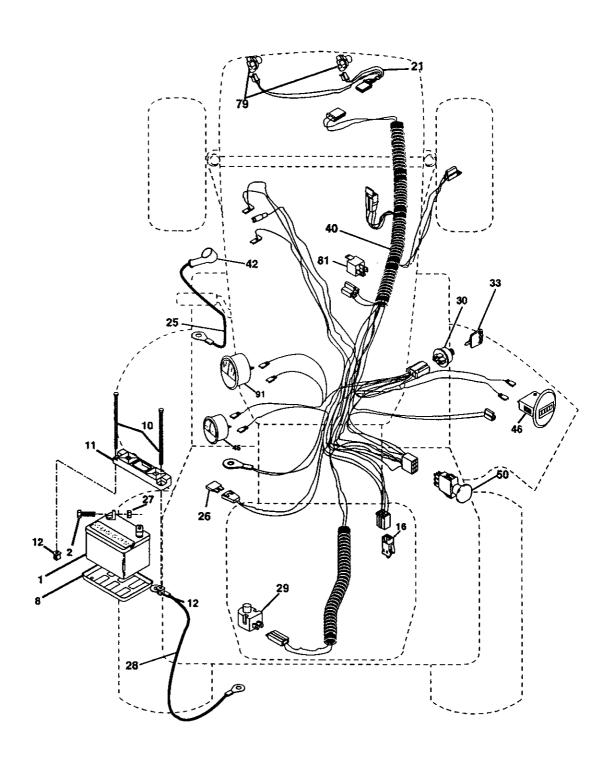
SCHEMATIC



REPAIR PARTS

TRACTOR - MODEL NUMBER 917.275281

ELECTRICAL



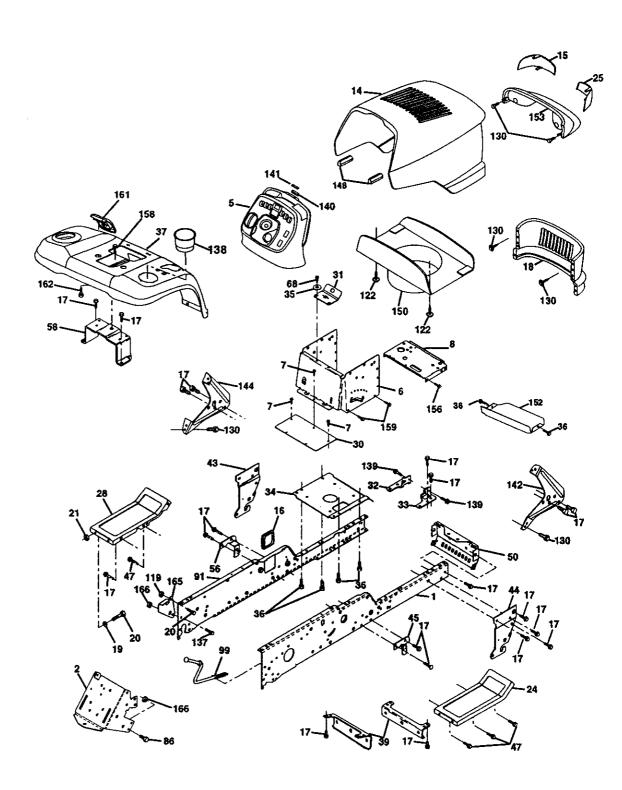
TRACTOR -- MODEL NUMBER 917.275281

ELECTRICAL

KEY	PART	
NO.	NO.	DESCRIPTION
1	144927	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		Nut Push Nylon 1/4"
16	176138	Switch Interlock
21	175449	Harness Socket Light Halogen
25	150755	Cable 4 Ga. 31* Red CV25 w/16.W.
26	108824X	Fuse
27	73510400	Nut, Keps Hex 1/4-20 UNC
28	170697	Cable, Ground
29	160784	Switch, Plunger
30	175442	Switch, Ign
33	175447	Key, Ignition
40	182249	Harness Ign.
42	154336	Cover Terminal
45	177500	Ammeter
46	177501	Meter, Hour
50	178461	Switch, PTO
79	175448	Bulb and Holder Asm. Halogen
81	109748X	Relay Asm.
91	181883	Tachometer Round

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

TRACTOR -- MODEL NUMBER 917.275281 CHASSIS AND ENCLOSURES



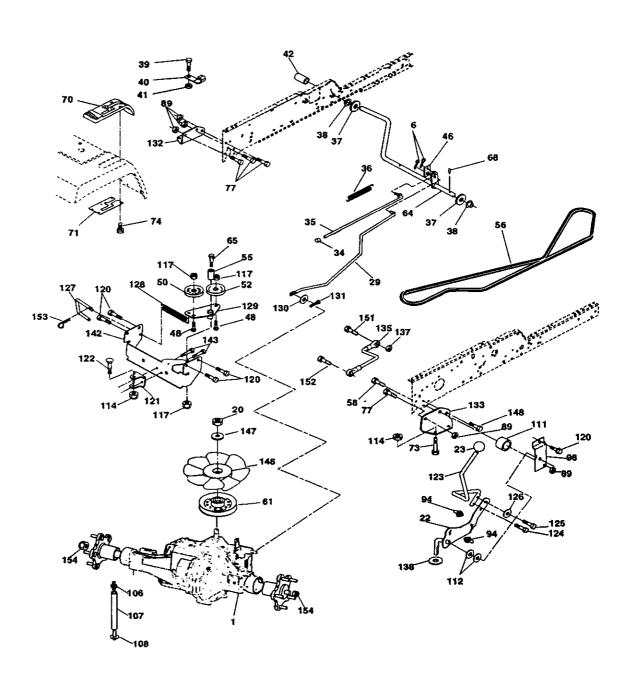
TRACTOR -- MODEL NUMBER 917.275281 CHASSIS AND ENCLOSURES

KEY	PART	
NO.	NO.	DESCRIPTION
1	180375	Kit Rail Chass, RH GT Serv.
2	175282	Drawbar, Gt
5	180639X418	
6	157882	Dash, Lower Vgt One Piece
7 8	17720408	Screw. Thd Cut 1/4-20 x 1/2
14	145166 175260X615	Support, Battery
15	161841	Lens LH
16	121794X	Cover, Access
17	17060612	Screw 3/8-16 x .75
18	174515X615	Grille
19	19131312	Washer 13/32x13/16x12 Ga.
20	STD523710	
21 24	STD541437	
25	179717X615 161842	Lens RH
28	179716X615	
30	145052	Saddle, Hydro
31	161419	Brace, Supt 1-pc VGT
32	161327	Bracket, Pivot Chassis Lh
33	161326	Bracket, Pivot Chassis Rh
34	177018	Plate Asm Engine
35	19111116	Washer 11/32x11/16x16 Ga.
36	17000512	Screw 5/16-18 x 3/4
37 39	178510X615 175278	
43	136939	Bracket, Axle Front Bracket, Spnsn Front Lh
44	136940	Bracket, Spnsn Front Rh
45	176018	Bracket Asm., Susp Chas.Rh
47	17490608	Screw Thdrol. 3/8-16 x 1/2
50	175476	Bracket, Chassis Front
56	176016	Bracket Asm., Susp Chas. Lh
58 68	183569	Bracket Asm., Fender
86	17490508 74780716	Screw Thdroi. 5/16-18 x 1/2 Bolt Fin Hex 7/16-14 UNC x 1
91	180374	Kit Rail Chass. LH GT Serv.
99	177143	Rod By Pass
119	73680600	Nut Crown Lock 3/8-16
122	161464	Screw Hex Wshd 8-18 x 7/8
130	171875	Screw Hwhd Hi-Lo #13-16 x 3/4
137	74780716	Bolt Fin Hex 7/16-14 x 1
138 139	179125X418 171873	
140	163806	Bolt Shoulder 5/16-18 TT Magnet YTGT
141	163805	Striker Plate YTGT
142	161897	Bracket Dash Rh
144	161900	Bracket Dash Lh
148	164655	Extrusion Bumpers
150	175352	Duct Heat Hood
152	177956	Shield Heat
153 156	181574	Lens Lightbox Screw 5/16-18 x 3/4
158	17000512 17670608	Screw 5/16-18 x 3/4 Screw Thdrol 3/8-16 x 1/2
159	17000612	Screw Hexwsh Thdri 3/8-16 x 3/4
161		Console Fuel Window
162	142432	Screw Hex Wsh Hi-Lo 1/4-1/2
165	182254	Bracket Support Fuel Tank
166	73680700	Nut Crown Lock 7/16-14

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

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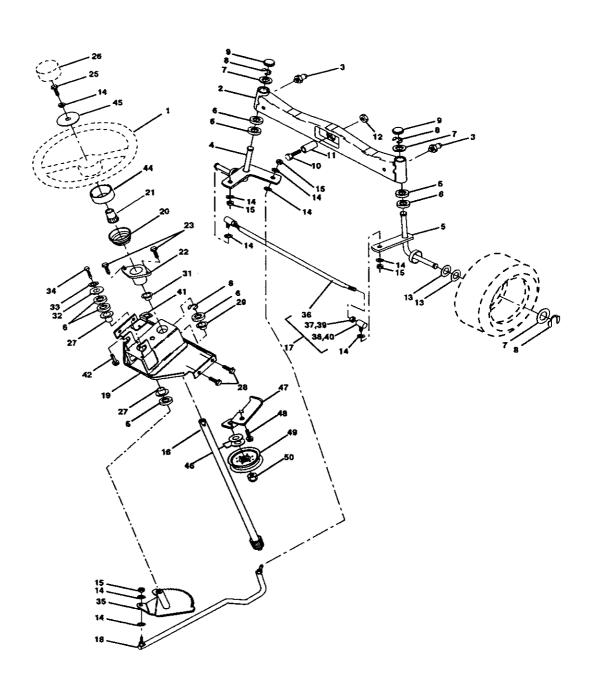
GROUND DRIVE



GROUND DRIVE

KEY	PART			PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1		Transaxle Hydro Gear	106	142918	O-Ring Asm Hydro Gear
		314-3500 (See Breakdown)	107	154739	Line Fuel Hydro 15" VGT
6	STD561210	Pin, Cotter	108	142917	Cap Asm Vent Hydro Gear
20	73940800	Nut			70109
22	180235	Lever Asm Shift Lower	111	156240	Spacer Shift Lever VGTH
23	130564	Knob	112	156104	Washer Nylon High Temp
29	176600	Brake, Rod	114	73800500	Nut Lock Hx W/Ins 5/16-18 Unc
34	71673	Cap, Parking Brake	117	73900600	Nut, Lock Flg. 3/8-16
35	137648	Rod, Parking Brake	120	17060612	Screw 3/8-16 x .75
36	149412	Spring, Drive Ground	121	175611	Bracket Strap Torque
37	121749X	Washer 25/32 x 1-1/4 x 16 Ga.	122	72010520	Bolt RDHD SQ
38	150035	Nyliner			5/16-18unc x 2-1/2
39	74321016	Screw, Fin. #10-24 x 1	123	183254	Rod Shift
40	178575	Actuator, Interlock Switch	124	165492	Bolt Shoulder 5/16-18 x .561
41	73931000	Nut Centerlock 10-24 Unc	125	166880	Screw 5/16-18 x 5/8
42	8883R	Cover, Pedal	126	166002	Washer SRRTD 5/16ID x 1.0 x
46	145170	Retainer, Spring			.125
48	72110614	Bolt, RDHD 3/8-16 x 1-3/4	127	177362	Link Control Clutch
		Gr. 5	128	176624	Spring Drive GRND
50	131494	Pulley, Idler, Flat	129	179473	Bracket Asm Idler Tensioning
52	127783	Pulley, Idler, Grooved	130	19131016	Washer 13/32 x 5/8 x 16 Ga
55	105706X	Bearing, Idler	131	76020312	Pin Cotter 3/32 x 3/4
56	161597	V-Belt	132	175467	Bracket Mtg Hydro 3500 LH VGT
58	74760724	Bolt Fin Hex 7/16-14 x 1-1/2	133	175468	Bracket Mtg Hydro 3500 RH VGT
61	143995	Pulley, Transaxle	135	177364	Link Asm Control Hydro 3500
64	176601	Shaft, Clutch/Brake Pedal	137	1685H	Nut Lock 5/16-18 NC Thd
65	179613	Bolt, Shoulder	138	1370H	Washer Thrust 5/8 x 1.10 x 1/32
68	STD571812		142	175469	Strap Torque HG-3500
70		Console Automatic YT/GT	143	17060512	Screw Thdrol 5/16-18 x 3/4
73	74490548	Bolt Hex Fighd 5/16-18 x 3	146	140462	Fan 7* Hydro
		Gr5	147	141322	Washer
74	142432	Screw Hex Wsh. Hi-Lo	148	17060620	Screw 3/8-16 x 1-1/4
		1/4-1/2	151	74760514	Bolt Fin Hex 5/16-18unc x 7/8
77	74780716	Bolt Fin Hex 7/16-14 x 1	152	178705	Bolt Hex 5/16-18 x 1
89	73680700	Nut Crownlock 7/16-14 Unc	153	4497H	Retainer Spring
94	133835	Fastener Christmas Tree	154	183539	Nut-Lug 7/16-14
98	141004	Bracket Shift			

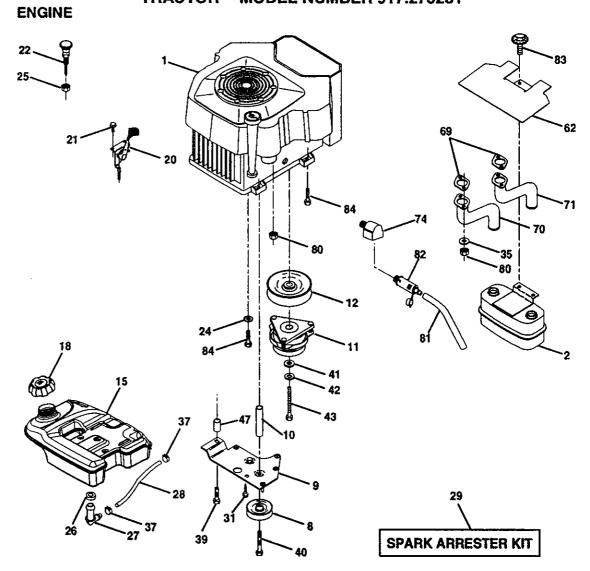
NOTE: All component dimensions given in U, S. inches 1 inch = 25.4 mm



STEERING

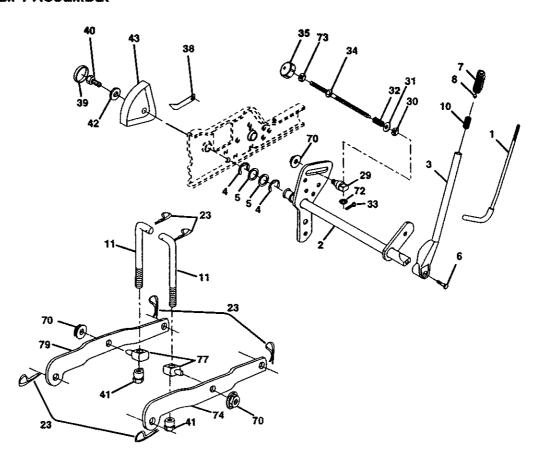
KEY NO.	PART NO.	DESCRIPTION
1	175139X418	Wheel, Steering
2	178557	Axle Asm., Front
3	6855M	Fitting, Grease
4	161849	Spindle Asm, LH
5	161848	Spindle Asm., RH
6	6266H	Bearing, Race Thrust Harden
7	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8	12000029	Ring, Klip #T5304-75
9	121232X	Cap, Spindle
10	74781044	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	
15	STD541537	
16	145103	Shaft Asm., Steering
17	137347	Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40)
18	175572	Draglink, Ball Joint Solid Vgt
19	156011	Support Asm., Steering Vgt
20	177646X418	Boot, Steering
21	159945	Adapter, Wheel Steering
22	155105	Bushing, Strg. Blk
23	152927	Screw
25	74780616	Bolt, Fin Hex 3/8-16 x 1 Gr. 5
26		Insert , Wheel Steering
27	3366R	Bearing, Col. Strg.
28	17000612	Screw, 3/8-16 x 3/4
29	104239X	Bearing, Flange
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	74780512	Bolt Fin Hex 5/16-18unc x 3/4
35	138059	Gear, Sector Steering
36	137156	Tie Rod
37	73360600	Jam Nut RH Thread
38	109850X	Joint Asm. Ball RH Thread
39	73700600	Jam Nut LH Thread
40	109851X	Joint Asm. Ball LH Thread
41	155246	Bracket Switch Interlock VGT 97
42 45	17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
45 46	19132411	Washer 13/32 x 1-1/20 x 11 Ga.
40 47	19131610	Washer 13/32 x 1 x 10 Ga.
47 48	179471 17060612	Bracket Asm Idler Stationary
40 49	175820	Screw 3/8-16 x .75 Pulley tdter Flat
50	73900600	Nut Lock Fig 3/8-16 UNC
30	, 434444	Nucleon ing are to one

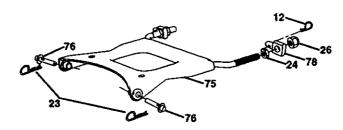
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm



KEY	PART		KEY	PART	
NQ.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1		Engine (See Breakdown)	35	10010500	Washer Split
		Kohler CV740-0005	37	123487X	Clamp Hose
2	149723	Muffler	39	17490636	Screw TT 3/8-16 x 2-1/4 Unc
8	121361X	Putley V-Idier	40	17490664	Screw TT 3/8-16 x 4
9	177748	Belt Engine Keeper Asm	41	126197X	Washer 1-1/2 OD x 15/32 ID x .250
10	175287	Bushing	42	STD551143	Washer Lock 7/16
11	179335	Clutch OGURA	43	179953	Bolt Hex 7/16 - 20 x 3.75. Gr. 5
12	143996	Pulley Engine VGT Elect Clutch	47	175288	Bushing
15	179115	Tank Fuel Rear 5.0 YT/GT	62	146629	Shield Heat Muffler
18	179124X418		69	24-041-02	Gasket Kohler CV18-CV26
20	177328X505	Control Throttle	70	175545	Tube Exhaust LH
21	171875	Screw HWHD Hi-Lo #13-16 x 3/4	71	175546	Tube Exhaust RH
22		Control Choke	74	162295	Elbow Street Brass
24		Lockwasher Ext Tooth 3/8	80	M73030800	Nut Flange M8-1.25 Non Lk Zinc
25	73920600	Nut Keps 3/8 - 24 UNF	81	148456	Drain Tube
26	3645J	Bushing	82	181654	Drain Plug
27	139277	Stem Tank Fuel	83	171877	Bolt 5/16-18 Unc x 3/4 w/Sems
28	7834R	Fuel Line	84	17060624	Screw 3/8-16 x 1/2
29	137180	Spark Arrester Kit	NOTE	Er All compon	ant dimensions shop in LLC
31	145006	Clip Push-In		s 1 inch = 25.4	ent dimensions given in U. S. 4 mm

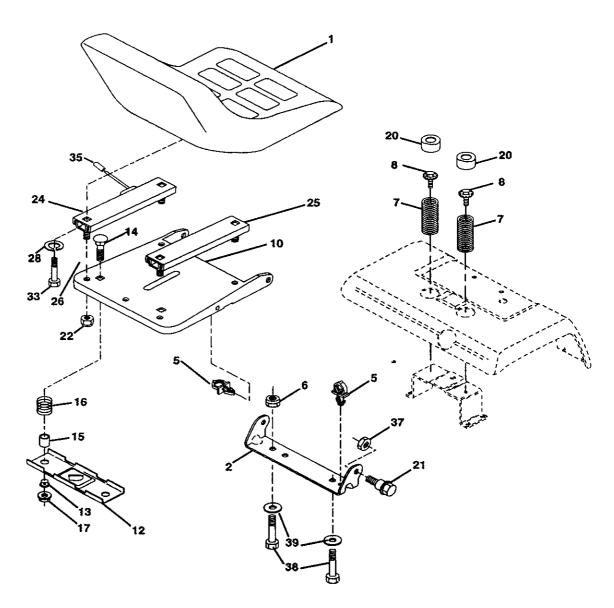
LIFT ASSEMBLY





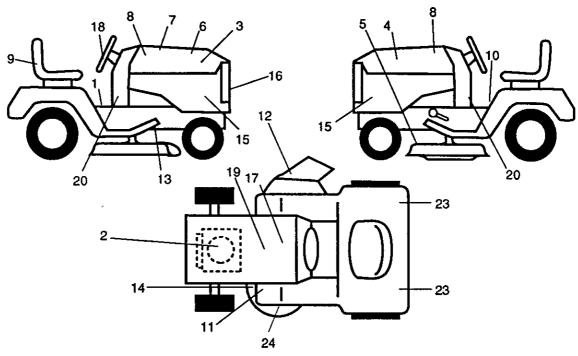
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION		
1	121006X	Rod Asm., Lever	35	138057	Knob, Inf 3/8-16 Unc		
2	180045	Shaft Asm., Lift Vgt	38	155097	Pointer, Height Indicator		
3	159189	Lever Asm., Lift Rh	39	123935X	Plug, Hole		
4	12000022	E-Ring Truarc #5133-87	40	17060516	Screw 5/16-18 x 1 SMGML Tap/R		
5	19292016	Washer 29/32 x 1-1/4 x 16 Ga.	41	175994	Nut Lift Link 7/16-20		
6	71110624	Bolt, Fin Hex 3/8-16 x 1-1/2	42	19112410	Washer 11/32 x 1-1/2 x 10 Ga.		
7	175830	Grip Handle Premium LTX	43	123934X	Scale, Indicator Height		
8	175831	Button, Plunger	70	145212	Nut Hex Flange Lock		
10	183894	Spring 0.62 OD x 2.125	72	110452X	Nut Push Phos & Oil		
11	175375	Link Lift	73	73350600	Nut Hex Jam 3/8-16 Unc		
12	163552	Retainer, Spring	74	175802	Arm Suspension Rear Rh		
23	STD624008	Retainer, Spring	75	175805	Plate Asm Susp. Front VGT		
24	73350800	Nut, Jam Hex 1/2-13 Unc	76	175560	Pin Flange		
26	73680800	Nut, Crownlock 1/2-13 Unc	77	176205	Trunnion Susp. Arm		
29	150233	Trunnion, Infin Height	78	175689	Trunnion Front Susp.		
30	110807X	Nut, Special	79	175378	Arm, Suspension Rear LH		
31	19131016	Washer 13/32 x 5/8 x 16 Ga.			• •		
32	137150	Spring, Compression Inf Hgt	NOT	* . All	and dimensions street in \$1.0		
33	STD560907	Pin, Cotter 3/32 x 1/2			nent dimensions given in U.S.		
34	137167	Rod, Adj Lift	inches 1 inch = 25.4 mm				
		•	4.0				

TRACTOR -- MODEL NUMBER 917.275281 SEAT ASSEMBLY



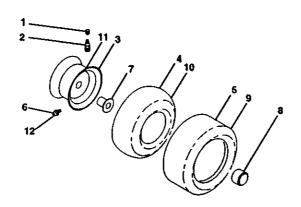
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	177978	Seat	20	124238X	Cap, Spring Seat
2	140551	Bracket, Pivot Seat	21	171852	Bolt, Shoulder 5/16-18
5	145006	Clip, Push In, Hinged	22	STD541431	Nut, Crownlock 5/16-18 Unc
6	STD541437	Nut, Crownlock 3/8-16 Unc	24	177946	Track Slide Seat LH Locking
7	124181X	Spring, Seat Cprsn	25	177947	Track Slide Seat RH Free
8	171877	Bolt 5/16-18 Unc x 3/4 w	26	19111012	Washer 11/32 x 5/8 x 12 Ga.
		Sems	28	10010500	Washer Split
10	182493	Pan, Seat	33	74780512	Bolt Fin Hex 5/16-18 Unc x 3/4
12	121246X	Bracket, Mounting Switch	35	178426	Cap Plunger Red
13	121248X	Bushing, Snap	37	73800500	Nut Lock Hx w/lns.5/16-18
14	72050412	Bolt, Carriage 1/4-20 X 1-1/2	38	71110616	Bolt Fin Hex 3/8-16 Unc x 1 Blk
15	121249X	Spacer, Split	39	19131610	Washer Flat 13/32 x 1 x 10 Ga.
16	123740X	Spring, Cprsn	Q0	10101010	Tradition I lat 10/02 X 1 X 10 Qa.
17	123976X	Nut, Lock 1/4 Lge Fig Gr. 5		E: All compon s 1 inch = 25,	ent dimensions given in U.S. 4 mm

DECALS



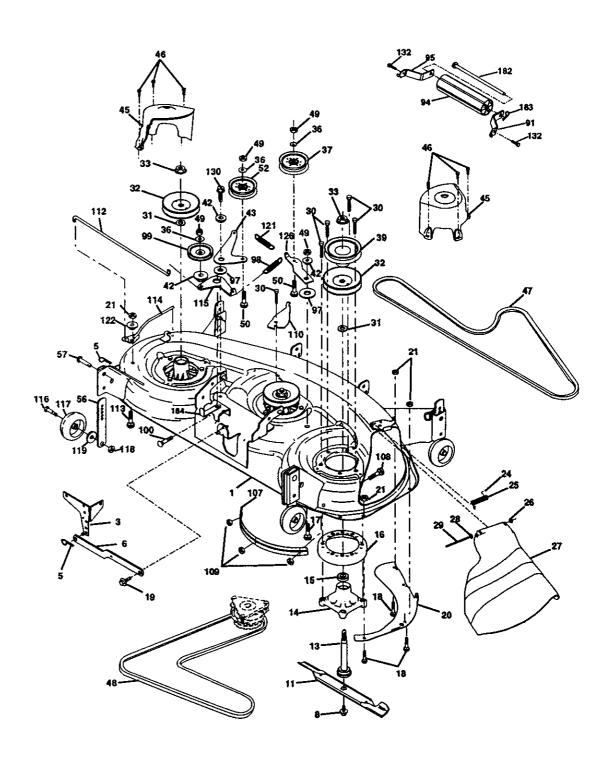
NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	182221	Decal, Oper. Instructions	16	180979	Decal Grille
2	182795	Decal, Hp Engine	17	149516	Decal, Btry Dngr/Psn Eng.
3	180983	Decai, Hood RH			Acme
4	180984	Decal, Hood LH	18	177890	Decal, Insert Strg
5	181470	Decal, Deck Leveling	19	138047	Decal, Battery
6	133644	Decal, Maintenance	20	182796	Decal, Lower Dash
7	181503	Decal, Replacement	23	106202X	Reflector, Taillight
8	180978	Decal, Hood Nameplate	24	178482	Decal, Deck Hvy Duty
9	180978	Decal, Hood/Seat		138311	Decal, Handle LFT Height
10	156439	Decal, Fender Danger			Adjust (Lift Handle)
11	181252	Decal, Clutch/Brake		166960	Decal, Bypass Control (Drawbar)
12	178455	Decal, Deck Caution		179768X418	Pad, Footrest LH
13	177554	Decal, Belt Drive		179769X418	Pad, Footrest RH
14	175291	Decal, Deck Schematic		184429	Owner's Manual, English
15	177376	Decal, Side Panel		184431	Owner's Manual, Spanish

WHEELS AND TIRES



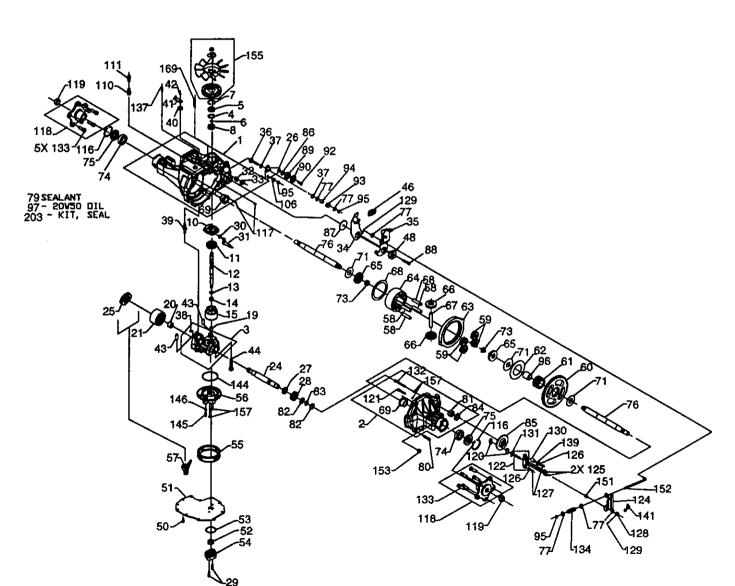
KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	148736X417	Rim Asm Front
4	8134H	Tube, Front (Service Item Only)
5	182525	Tire, Front
6	278H	Fitting Grease (Front Wheel
		Only)
7	9040H	Bearing Flange (Front Wheel
		Only)
8	104757X428	Cap Axle (Front Wheel Only)
9	182526	Tire Rear
10	7154J	Tube Rear (Service Item Only)
11	148738X417	Rim Asm Rear
12	6856M	Fitting Grease
	144334	Sealant, Tire (10 oz. Tube)

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



MOWER DECK

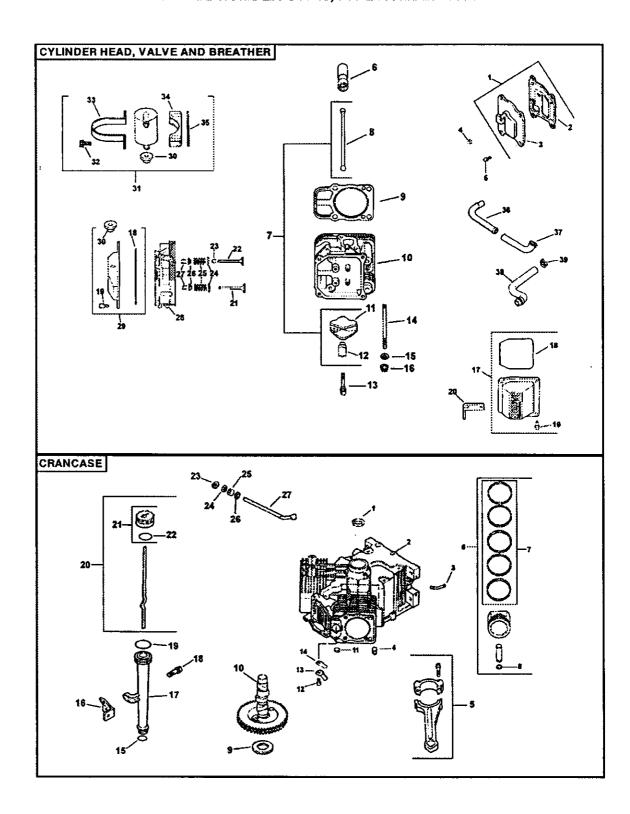
	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
	1	180358	Deck Weldment Mower 48	52	175820	Pulley Idler Flat
	3	178915	Bracket Asm., Sway Bar	56	155986X431	
	5	4939M	Retainer Spring	57	156941	Pin Head Rivet
	6	178024	Sway Bar	91	180535	Bracket Asm. Noseroller RH
	8	174365	Bolt 7/16 Asm. Blade	94	176066	Noseroller
	11	180054	Blade	95	180534	Bracket Asm Noseroller LH
	13	174360	Shaft Asm. w/Lower Bearing	97	133943	Washer Hardened
	14	174358	Mandrel Asm.	98	179479	Spring Primary Drive
	15	110485X	Bearing, Ball, Mandret	99	184058	Pulley Idler"V"
	16	174493	Stripper Mandrel Deck	100	72110616	Bolt ADHD Sqnk 3/8-16 UNC x 2
	17	72110610	Bolt RDHD Sq Neck 3/8-16x1.25	110	175016	Arm Spring Secondary
	18	72140505	Bolt, Carriage 5/16-18 x 5/8	112	174387	Link Tension Relief Lever
	19	132827	Bolt, Hex Hd, Shoulder 5/16-18	113	72110508	Bolt Carr. 5/16-18 x 1
	20	174378	Baffle, Vortex Mower	114	174384	Tension Asm. Relief Lever
	21	73680500	Nut, Crownlock 5/16-18 UNC	115	174609	Arm Spring Tension Relief
	24	105304X	Cap, Sleeve	116	137644	Bolt, Shoulder
	25	178102	Spring, Torsion	117	174873	Gauge Wheel
	26	110452X	Nut, Push	118	73930600	Nut, Centerlock 3/8-16 UNC
	27		Deflector Shield	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
	28	19111016	Washer 11/32 x 5/8 x 16 Ga.	121	174371	Spring Secondary Drive
	29	131491	Rod, Hinge	122	174606	Bushing Pivot Tension Relief
	30	173984	Screw, Thdroll Washer Head	126	174372	Arm, Idler, Primary Deck
	31	129963	Washer, Spacer Mower Vented	130	17000616	Screw 3/8-16 x 1.0
	32	177865	Pulley, Mandrel	132	17060612	Screw 3/8-16 x 3/4
	33	178342	Nut, Flg. Top Lock Cntr. 9/16	182	179127	Rod Roller Nose
	36	19131316	Washer 13/32 x 13/16 x 16 Ga.	183	163552	Retainer Spring
	37	177968	Pulley, Idler, Flat	184	173979	Keeper Belt Idler
	39	174375	Pulley, Idler, Driven		181579	Replacement Mower, Complete
	42	165723	Spacer, Retainer		174356	Mandrel Assembly
	43	174373	Arm, Idler Secondary			(Includes Key Nos. 13-15 and 33)
	45	180806	Cover, Mandrel Deck			•
	46	137729	Screw, Thdroll. 1/4-20 x 5/8			
	47	180808	V-Belt, Mower, Secondary		.	
	48	174368	V-Belt, Mower, Primary			ent dimensions given in U.S.
	49	73680600	Nut, Crownlock 3/8-16 UNC	inche	s 1 inch = 25.4	i mm
,	50	72110612	Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5			



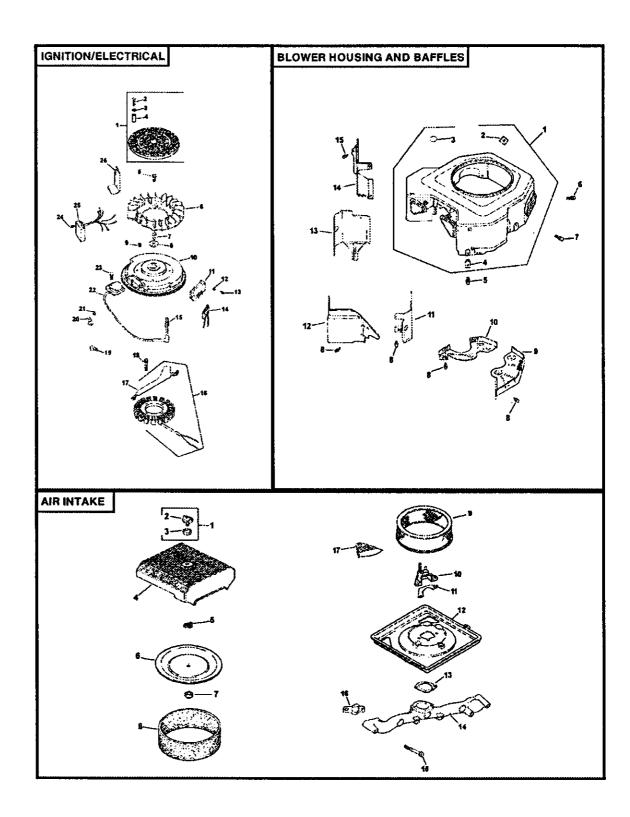
TRACTOR -- MODEL NUMBER 917.275281 TRANSAXLE-MODEL NUMBER 314-3500

KEY	PART		KEY		
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	161122	Main housing assembly	71	161155	Washer
2	178317	RH housing assembly	73	161156	Hex jam nut, 5/8-18
3	184691	Center section assembly	74	169535	Bearing Ball 6205-1
4	161125	Spacer	75	161157	Seal, 1" ID x 2.0472 x 0.375
5 6	142932	Seal-lip	76	184697	Shaft, axle
6	142928	Wire retaining ring	77	142884	Washer
7	142933	Retaining ring	79	178322	Gasket material
8	142934	Ball bearing	80	161159	Torx head screw, 5/16-18
10	142937	Variable swashplate	81	161160	Needle bearing (SCE1412)
11	150771	Thrust bearing 30 x 52 x 13	82	161161	Washer
12	161126 142978	Input shaft	83 84	161162 161163	Retaining ring
13 14	142977	Block thrust washer	04	101103	Lip seal (.8751.D. x 1.30.D.
15	184692	Block spring 10cc cylinder block assembly	85	161164	x.25) Brake disk
21	169525	10cc cylinder block assembly	86	170418	Washer .50 X 1.0 X 0.3
24	161127	Output (motor) shaft	87	178323	Washer .324 X 1.960 X .146
25	169526	Thrust bearing 42 x 68 x 16	88	178324	Screw 5/16 – 24 X 1-1/2
26	161128	Control arm	89	178325	Bearing
27	161129	Spacer	90	178326	Spacer
28	161130	16t pinion gear	92	178327	Screw Countersink 5/16-18
29	169527	Capscrew, M6 x 1-22	93	142969	Spring, friction pack
30	142941	Slot guide	94	142980	Spacer, friction pack
31	161132	Trunnion arm	95	161165	Hex lock nut 5/16-24
32	161133	Trunnion bushing	96	169538	Sleeve bearing
33	142940	Lip seal	97	150798	Oil
34	178318	Arm Retun	106	161166	Spacer, trunnion
35	184693	Arm Actuating	108	150800	Plug Plastic
36	161134	5/16-24 stud	110	142918	Fitting, Plastic Hose
37	142967	Puck, friction	111	142917	Cap-vent assembly
38	184694	Bypass plate	116	169539	Retaining ring
39	169529	Bypass actuator	117	161168	Std hdls pin
40	142945	Lip seal	118	184698	Kit 5 Stud Hub
41	142952	Bypass arm	119	169888	Nut Hex
42	142953	Retaining ring	120	142883	Puck, brake
43	142965	Pin	121	169540	Bolt rib
44	150797	Screw	122	161169	Brake yoke
46	184702	Spring Neutral	124 125	178330	Arm, brake
48 49	178320	Puck Adjusting	126	142887	Pins, brake
50	161135 178343	Gasket, lower	127	161172 161173	Lockwasher, 1/4
50 51	169530	Screw-self tapping	128	170415	Nut, 1/4-20
52	169531	Lower cover Gerotor assembly	129	170416	Nut, castle Cotter pin
53	144581	O-ring	130	161174	Spacer
54	161139	Gerotor cover	131	142882	Puck plate
55	178321	Fitter	132	169544	Bolt rib neck 3"
56	169533	Charge manifold	133	184699	Wheel stud
57	161142	Retainer, motor bearing	134	178331	Spring brake
58	161143	Pin, carrier	137	178333	Pin spring
59	161144	15t planet gear	138	161175	Screw
60	161145	67t spur gear	139	161176	Washer, 7/80D x .2651D x .125
61	161146	21 tooth sun gear			THK
62	161147	Planet thrust plate	140	184700	Gasket
63	161148	51t ring gear	144	169545	O ring, 2.864 ID 0.070 THK
64	161149	Planetary carrier	145	169546	Charge relief spring
65	184695	Miter gear. diff. (splined)	146	169547	Ball
66	184696	Miter gear, diff.	151	161181	Comp. spring, brake anti-drag
67	161152	Shaft, differential	152	178336	Brake pull rod
68	161153	Diff. thrust plate	153	170434	Plug, straight thread
69	169534	Bearing Flange	155	170446	Kit fan pulley
			157	169548	O-ring .070 X .239
			169	184701	Pin spring 5/16 X 1.75
			203	178338	Kit seal

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



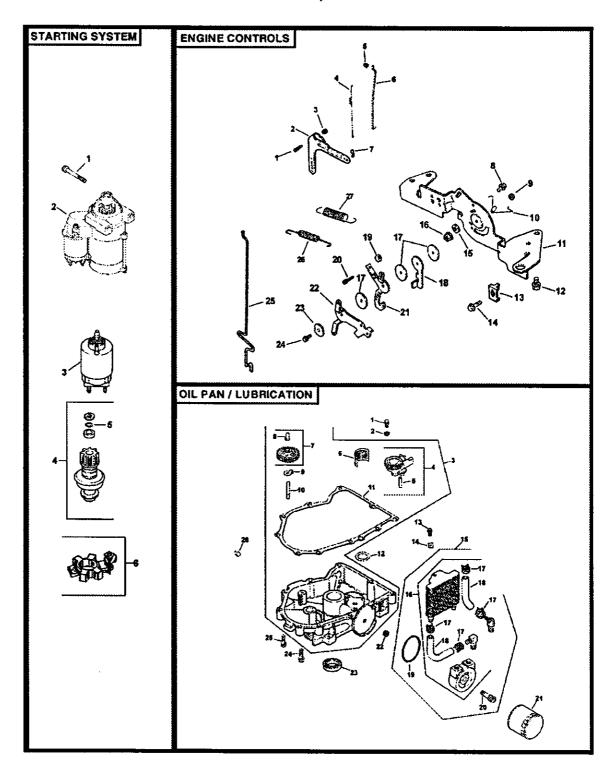
HEAD/VALVE/BREATHER			CRANKCASE		
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1.	24-033-03-S	Kit, breather cover w/gasket (Includes 2,3)	1.	24-032-01-S	Seal, oil front
2.	24-041-23-S	Gasket, breather	2.		Crankcase (USE: Miniblock 24 782 23)
3.	24-096-87-S	Cover, breather	3.	24-294-13-8	Eiting
4.	25-139-60-S	Plug, allen hd. 1/8*	4.	24-380-13-5	Pin, locating (6)
5.	M-645020-S	Screw, hex. flange M6x1.0x20	5.	24-067-13-5	Connecting Rod (Std.) (2)
		(4)	٥.	24-067-14-S	Connecting Rod (.25) (2)
6.	25-351-01-S	Lifter, valve (4)	6.	24-874-08-5	Piston w/Ring Set (Std.) (2)
7.		Kit, valve train (Includes 8, 11,	•		(Includes 7, 8)
		12)		24-874-16-S	Kit, Piston w/Ring Set (.08) (2)
8.	24-411-05-S	Rod, push (4)	7.	24-108-05-S	Ring Set (Std. & .08) (2)
9.	24-041-37-S	Gasket, cylinder head (2)	8.	24-018-01-S	Retainer, piston pin (4)
10.	24-318-72-S	Head assembly, #2 cylinder	8. 9.	12-422-09-S	Shim, camshaft (A.R.)
11.	25-186-01-S	Arm, rocker (4)		12-422-13-S	Shim, camshaft (A.R.)
12.	24-599-01-S	Pivot, rocker arm (4)		12-422-07-S	Shim, camshaft (A.R.)
13.	M-640034-S	Screw, hex. flange M6x1.0x34		12-422-08-S	Shim, camshaft (A.R.)
4.4	04 070 00 0	(4)		12-422-10-\$	Shim, camshaft
14.	24-072-09-5	Stud, cylinder hd. M8x1.25x20,		12-422-11-S	Shim, camshaft (A.R.)
46	04 400 10 0	M10x1.5x33, 105 mm long (8)		12-422-12-S	Shim, camshaft (A.R.)
15. 16.	24-400-10-5	Washer, flat 8 mm (8) Nut, hex. flange M8x1.25 (8)	10.		Camshaft
17.	24-100-10-3	Kit, valve cover - plain	11.		Plug, cup
		(Includes 18, 19)	12.		(2)
18.	24-153-16-8	O-Hing Service shoulder (4)	13.	24-018-04-S	Retainer, reed (2)
19. 20.	24-000-32-3	Screw, shoulder (4) Strap, lifting	14.	24-402-05-5	Reed, breather (2)
21.	24-443-01-3	Valve, exhaust (Std.) (2)	15.	12-153-01-8	O-Ring, lower oil fill tube
A. 1.	24-016-02-5	Valve, exhaust (.25) (2)	16. 17.	12-123-04-S	Bracket, oil fill tube
22.	24-017-01-S	Valve, intake (Std.) (2)	18.	12-123-04-3	Screw, hex. flange M5x0.8x16
	24-017-02-S	Valve, intake (.25) (2)	19.	12-152-02-6	O-Ring, upper oil fill tube
23.	66-032-05-S	Seal, valve stem (2)	20.	24-038-04-5	Dipstick assembly (Includes
24.	235011-S	Retainer, spring (4)	- 0.	£4 000 04 C	21, 22)
25.	24-089-02-\$	Spring, valve (4)	21.	24-755-46-S	Kit, oil fill cap (Includes 22)
26.	12-173-01-S	Cap, valve spring (4)	22.	25-153-02-S	O-Ring, dipstick
27.	12-755-03-S	Kit, retainer (4)	23.	24-018-09-S	Retainer, ring
28.	24-318-69-S	Head assembly, #1 cylinder	24.	M-931010-S	Washer, nylon (top)
29.	24-755-76-S	Kit, valve cover - breather	25.	28-032-09-S	Seal, governor cross shaft
		(Includes 18, 19, 30)	26.	24-468-15-S	Washer (bottom)
30.	25-313-02-5	Grommet, rubber	27.	24-144-33-S	Shaft, governor cross
31.	24-755-57-8	Kit, breather separator			
32.	M-545016-S	(includes 30, 32-35) Screw, hex. flange M5x0.8x16	inche	E: All compones 1 inch = 25.	ent dimensions given in U.S. 4 mm
33.	24-445-02-5	(2) Strap, breather			
34.	24-126-44-S	Bracket, breather separator			
35.	24-112-12-S	Spacer			
36.	24-294-06-S	Fitting			
37.	24-326-13-S	Hose, breather			
38.	24-326-14-S	Hose, breather			
39.	25-237-14-S	Clamp, hose (2)			
		1.			



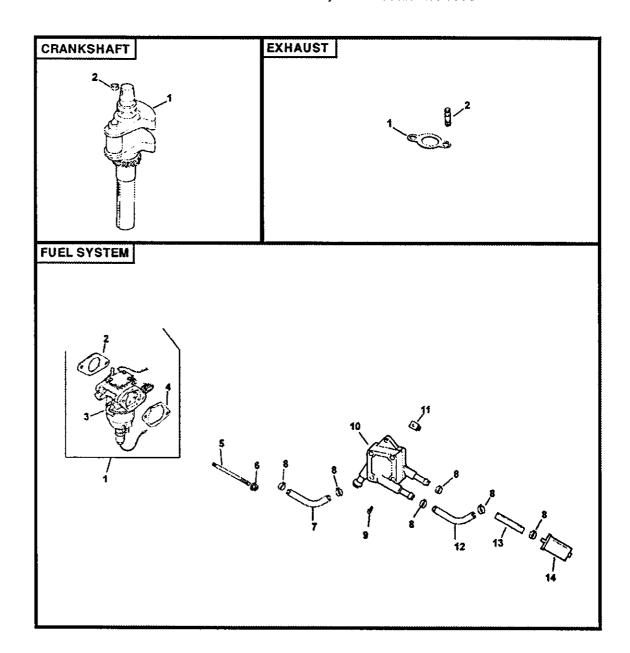
IGNITION/ELECTRICAL B	LOWER HOUSING & BAFFLES
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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1.	54-755-15-S	Kit, grass screen (Includes 2-4, and 24 113	1.	24-027-32-S	Housing, blower (Includes 2-4)
2.	M-403025-S	18-S) Screw, hex. cap M4x0.7x25 (4)	2. 3. 4.	24-100-01-S 25-139-16-S 24-100-02-S	Nut, plastic (2) Plug, button 9/16*
3. 4.	X-25-92-S 24-112-04-S	Washer, plain 5/16* (4) Spacer, grass screen (4)	5.	M-545020-S	Nut, plastic (3) Screw, hex. flange M5x0.8x20 (4)
5.	25-086-47-S	Bolt, shoulder M6x1.0x16 (4)	6.	M-551016-S	Screw, hex. flange M5x0.8x16
6. 7.	24-157-03-S 12-086-14-S	Fan Screw, hex. flange	7. 0	M-545016-S	Screw, hex. flange M6x0.8x16 (2)
8. 9.	12-468-03-S X-42-15-S	M10x1.5x46 Washer, plain 3/8" Key	8. 9.	M-645016-S 24-146-19-S	Screw, hex. flange M6x1.0x16 (6) Plate, backing - # 2 side
10. 11.	24-025-25-S 25-403-03-S	Flywheel Rectifier-regulator	10. 11.	24-146-20-S	Plate, backing - # 1 side
12. 13.	X-25-92-S	Washer, plain 3/16" (2)		24-063-39-5	Baffle, cylinder barrel-# 2 side
14.	24-086-18-S 236602-S	Screw, phillips hd. 11-16x7/ 8 (2) Connector (3 contact)	12. 13.	24-063-14-S 24-063-58-S	Baffle, valley - #2 side Baffle, cylinder barrel-# 1 side
15.	12-132-06-S	Spark Plug (2)	14.	24-063-10-S	Baffle, valley - #1 side
16.	54-755-09-S	Kit, 15 amp stator (Includes 17)	15.	M-545010-S	Screw, hex. flange M5x0.8x10 (2)
17. 18.	24-126-71-S M-548025-S	Bracket, stator wire Screw, hex. cap M5x0.8x25 (2)	NOT	ILLUSTRATED 24-096-66-S	Cover, control
19. 20. 21.	47-154-01-S 48-154-02-S X-25-63-S	Clip, cable Clip, cable Washer, plain 1/4"		24-086-06-S	Screw, phillips hd. 11-16x3/ 4" (2)
22. 23.	24-584-15-S M-561025-S	Module, ignition (2) Screw, hex flange	AIR I	NTAKE/FILTRA	ATION
24.	M-448010-S	M5x0.8x25 (4) Screw, hex. cap M4x0.7x10 (2)	KEY NO.	PART NO.	DESCRIPTION
25 .	24-584-27-S	Module, speed advance		54 555 A4 A	
26.	24-063-27-S ILLUSTRATED	Baffle, heat shield	1.	54-755-01-S	Kit, knob with seal (Includes 2,3)
NO	X-22-11-S	Washer, lock 1/4"	2. 3.	25-341-03-S 24-153-20-S	Knob, cover O-Ring
	24-176-81-S	Harness, wiring	4.	24-096-73-S	Cover, air cleaner
	24 170 01 0	Lead, black (rectreg. 5" -	5.	12-100-01-S	Wing Nut
		12 gauge	6.	24-096-01-S	
	24-518-12-S	Insulated grip barrel eye	7.	231032-S	Seal, breather
		lets)	8.	24-083-05-S	Precieaner, element
	24-113-18-S	Decal, grass screen	9.	24-083-03-S	Element, air cleaner
	25-454-03-S	Tie, wire (3)	10.	24-109-09-S	Cup, fuel spit-back
		• • •	11.	24-041-13-5	Gasket, fuel spit-back cup
			12.	24-094-18-S	Base, air cleaner
			13.	24-041-14-S	Gasket, air cleaner base
			14.	24-164-06-S	Manifold, intake
			15.	25-086-84-S	Screw, hex. flange M6x1.0x55 (4)
			16. 17.	24-041-01-S 24-063-51-S	Gasket, intake manifold (2) Baffle, spit-back cup

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



STARTING SYSTEM			OIL PAN/LUBRICATION		
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1.	M-839080-S	Screw, hex. flange M8x1.25x80 (2)	1.	M-645025-S	Screw, hex. flange M6x1.0x25 (2)
2.	25-098-08-S	Starter, solenoid shift assembly (Includes 3-6)	2. 3.	M-631005-S 24-755-59-S	Washer, plain 6 mm (2) Kit, oil pan w/gasket
3. 4.	25-435-04-S 25-755-33-S	Kit, solenoid Kit, pinion drive (Includes 5)	4.	24-393-08-S	(Includes 4-11) Oil pump assembly(Includes
5. 6.	25-141-05-S 25-221-01-S	Ring Kit, brush	5. 6.	24-123-05-S 24-162-26-S	5) Tube, oil pickup Screen, oil
ENGI	NE CONTROL	S	7.	24-043-12-S	Kit, governor gear w/pin (Includes 8)
KEY		_	8. 9.	12-380-01-S 52-448-02-S	Pin, governor regulating Tab, locking
NO.	NO.	DESCRIPTION	10. 11.	12-144-02-S 24-041-24-S	Shaft, governor gear Gasket, oil pan
1.		Bolt, round head square neck	12. 13.	24-422-03-S 24-086-12-S	Shim, thrust Screw, hex. cap
2. 3.	24-090-33-S M-641060-S	Lever, governor Nut, hex. flange M6x1.0	14.	24-100-01-S	M6x1.7x18 (2) Nut, plastic (2)
4. 5. 6.	24-089-01-S 25-158-08-S 24-079-04-S	Spring, linkage Bushing, linkage retaining Linkage, throttle	15. 16.	54 755 21-S 24 594 09-S	Kit, alum base oil cooler (Includes 16-20) Cooler assembly, oil
7. 8.	25-158-11-S M-545016-S	Bushing, throttle linkage Screw, hex. flange	17.	24 237 10-5	(Includes 17, 18) Clamp, oil cooler hose (4)
9.	M-547050-S	M5x0.8x16 Nut, hex. lock M5x0.8	18. 19.	24 326 15-S 24-153-13-S	Hose, oil cooler (2) O-Ring
10. 11.	24-089-03-S 24-126-56-S	Spring, choke return Bracket, control	20. 21.	28-136-01-S 52-050-02-S	Nipple, oil filter Filter, oil
12.	M-645016-S	Screw, hex. flange M6x1.0x16 (4)	22. 23.	25-139-62-S 52-032-08-S	Seal, oil (PTO end)
13. 14. 15.	12-237-01-S 24-086-43-S X-20-1-S	Clamp, cable (2) Screw, thread forming (2) Washer, lock 1/4"	24. 25.	24-086-17-S 24-086-16-S	Screw, hex. flange M8x1.25x45 Screw, hex. flange
16. 17.	M-541050-S 24-468-01-S	Nut, hex. flange M5x0.8 Washer, plain 5.5 mm (3)	26.	25-139-57-S	M8x1.25x45 (9) Plug, sq. hd. solid 3/8"
18. 19.	24-090-07-S M-446030-S	Lever, throttle actuator Nut, hex. M4x0.7	20.	20 100 01 0	N.P.T.F.
20.	M-545020-S	Screw, hex. flange M5x0.8x20	NOT	ILLUSTRATED 24-113-25-S) Decal, oil cooler
21. 22.	24-090-13-S 24-090-05-S	Lever, throttle control Lever, choke	NOT	E: All compone	ent dimensions given in U.S.
23. 24. 25.	41-468-03-S M-403025-S 24-079-05-S	Washer, spring 1/4" Screw, hex. cap M4x0.7x25 Linkage, choke	inche	s 1 inch = 25.4	nim
26. 27.	24-079-05-3 24-089-51-S 24-089-45-S	Spring, throttle limiter Spring, governor			



CRANKSHAFT

KEY NO.	PART NO.	DESCRIPTION
1.	24-014-72-S	Crankshaft (Includes 2)
2.	52-139-09-S	Plug, cup

EXHAUST

KEY NO.	PART NO.	DESCRIPTION
1.	24-041-02-S	Gasket, exhaust (2)
2.	25-072-04-S	Stud M8x1,25x33 (4)
	PA-CV740S-0	005Replacement Engine
	24-782-23	Miniblock
• •	24-755-113-S	Gasket Set

FUEL SYSTEM

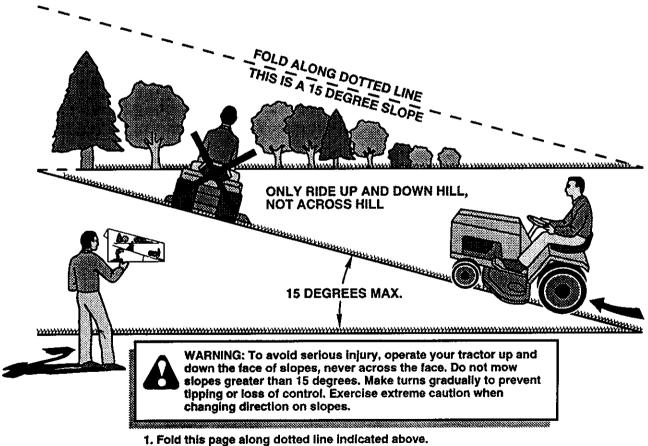
TOLESTSIEM		
KEY NO.	PART NO.	DESCRIPTION
1.	24-853-90-S	Kit, carburetor w/gaskets (Includes 2-4)
2. 3.	24-041-15-S 24-053-90	Gasket, carburetor Carburetor assembly (For Information only not available separately) (Ser vice with: 24-234-02-S, 24- 757-18-S24-757-19-S, 24- 757-20-S, 24-757-21-S, 24- 757-22-S)
4.	24 041 14-S	Gasket, air cleaner base
5.	M-629095-S	Stud M6x1.0x95 (2)
6.	M-641060-S	Nut, hex. flange M6x1.0 (2)
7 .	25-353-03-S	Line, fuel 13-1/2"
8.	25-237-14-S	Clamp, hose (6)
9 .	24-086-12-S	Screw, hex. cap M6x1.7x18 (2)
10.	24-393-16-S	Pump, fuel - pulse
11.	24-100-01-S	Nut, plastic (2)
12.	24-353-03-S	Line, fuel 10-5/8"
13.	15-353-04-S	Line, fuel 11-1/2"
14.	24-050-02-S	Filter, fuel
NOT	LLUSTRATED)
	24-757-18-S	Kit, overhaul w/gaskets
	24-757-19-8	Kit, choke repair w/gaskets
	24-757-20-S	Kit, gasket
	24-757-21-8	Kit, accelerator pump w/ gaskets
	24-757-22-8	Kit, solenoid replacement w/

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

gaskets

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



- 2. Hold page before you so that its left edge is vertically parallel to a tree trunk or other upright structure.
- 3. Sight across the fold in the direction of hill slope you want to measure.
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