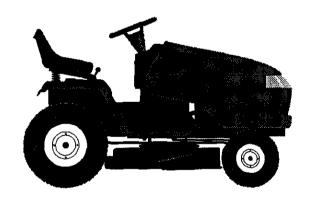
Owner's Manual

CRAFTSMAN°

25.0 HP ELECTRIC START 48" MOWER AUTOMATIC GARDEN TRACTOR

Model No. 917.275223

- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts





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

CAUTION:

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

1-800-659-5917

Sears Craftsman Help Line 5 am - 5 pm, Mon - Sat

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

TABLE OF CONTENTS					
Varranty2	Maintenance2	1			
Safety Kules	Service and Adjustments2				
Product Specifications					
\ssembly					
Operation14					
	Parts Ordering Back Cove				

WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT PARTS For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship. Warranty service is available free of charge by returning your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts and oil filters.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, including but not limited to, damage caused by towing objects beyond the capability of the riding equipment, impacting objects that bend the frame or crankshaft, or over speeding the engine.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the deck clear of flammable debris, or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within thirty (30) days of its purchase date.
- Riding equipment used for commercial or rental purposes. A product is "used for commercial purpose" if is used for any purpose other than single family household dwellings or in usage where profit is made.

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. Warranty service is available free of charge by returning your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

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

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

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

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.

1. 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 lioht.
- 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
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mowerrelated 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 loss-ofcontrol and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

DO:

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

DO NOT:

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

SAFETY RULES

III. CHILDREN

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

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - -Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.

- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices.
 Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut.
 Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently.
 Adjust and service as required.











- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.

- Be alert and turn machine off if children enter the area,
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps.
 Uneven terrain could overturn the machine. Tall grass can hide obstacles.

SAFETY RULES

· Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.

Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.

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

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

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

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

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

AWARNING: 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.

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

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR		
OILTYPE	SAE 10W30		
(API-SF-SJ):	(ABOVE 32°F)		
· ·	SAE 5W-30		
	(BELOW 32°F)		
OIL CAPACITY:	W/FILTER: 4.5PINTS		
	W/O FILTER: 4.0PINTS		
SPARK PLUG:	CHAMPION		
(GAP: .030")	RC12YC		
GROUND	FORWARD: 5.8		
SPEED(MPH):	REVERSE: 2.1		
TIRE	FRONT: 14 PSI		
PRESSURE:	REAR: 10 PSI		
CHARGING SYSTEM:	15AMPS @ 3600RPM		
BATTERY:	AMP/HR: 35		
	MIN. CCA: 280		
	CASE SIZE:U1R		
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

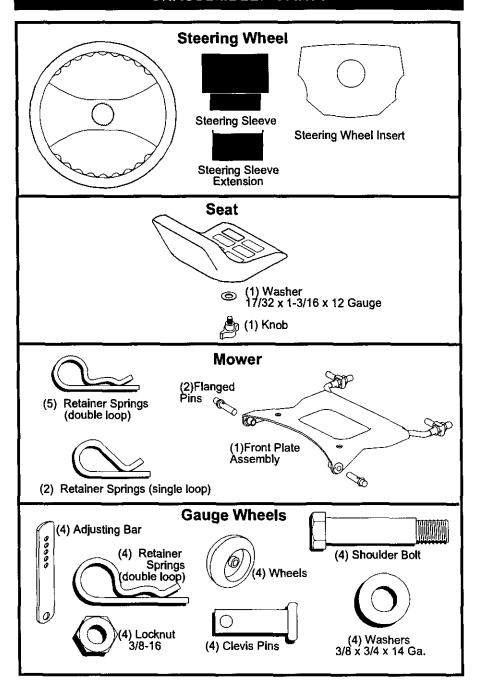
A Repair Agreement is available on this product. Contact your nearest Sears store for details,

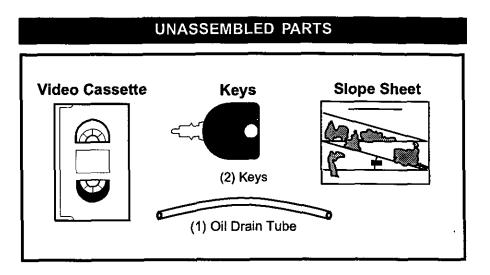
CUSTOMER RESPONSIBILITIES

- 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.

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

UNASSEMBLED PARTS





ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench
- (1) Pliers
- (1) 1/2" wrench
- (1) Utility knife
- (1) 3/4" socket with drive ratchet
- (1) Tire pressure gauge

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

TO REMOVETRACTOR FROM CARTON

UNPACK CARTON

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

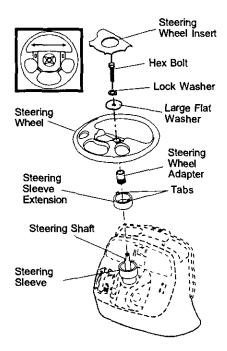
BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

- Remove hex bolt, lock washer and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide the steering sleeve over the steering shaft.
- Align tabs and press steering sleeve extension into bottom of steering wheel.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.

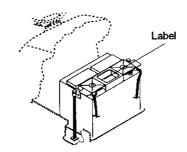
- Secure steering wheel to steering shaft with hex bolt, lock washer and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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



HOWTO SET UPYOURTRACTOR 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).

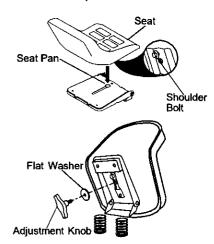


INSTALL SEAT

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan so head of shoulder bolt is positioned over large slotted hole in pan.
- Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.

- Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit in seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- 8. Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.



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

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

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

TO DRIVETRACTOR 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 welf-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

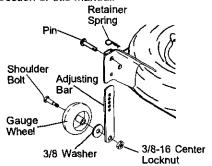
- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position.
- Sit on seat in operating position, depress brake pedal and set the parking brake.
- Press lift lever plunger and raise 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 "OFF" position.
 Continue with the instructions that follow.

ASSEMBLE GAUGE WHEELS TO MOWER DECK

The gauge wheels are designed to keep the mower deck in proper position when operating mower. Be sure they are properly adjusted to ensure optimum mower performance.

- Slide gauge wheel bar down into bracket channel, Be sure that gauge wheel bar aligning holes are on top. Assemble gauge wheels as shown using shoulder bolts, 3/8 washers and 3/8-16 center locknuts and tighten securely.
- For ease of mower to tractor assembly, raise gauge wheels to highest position and retain with clevis pins and spring retainers.

NOTE: Adjust gauge wheels before operating mower. See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual.



INSTALL MOWER AND DRIVE BELT

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

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

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

- If equipped, turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Be sure belt tension rod is in disengaged position.
- Install belt into electric clutch pulley groove.

- 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.

10. 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.
- 14. Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

CHECK TIRE PRESSURE

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

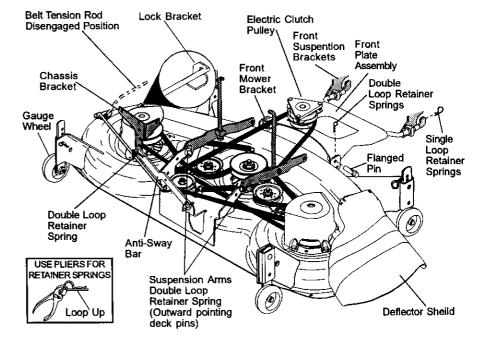
 Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" section of this manual.

CHECK MOWER LEVELNESS

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

ALL BELTS

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



√CHECKLIST

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

Please review the following checklist:

- √ All assembly instructions have been completed.
- √ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- Be sure mower deck is properly leveled side-to-side/front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- Check wiring. See that all connections are still secure and wires are properly clamped.
- Before driving tractor, be sure freewheel control is in drive position.
 While learning how to use your tractor, pay extra attention to the following important items:
- Engine oil is at proper level.
- Fuel tank is filled with fresh, clean, regular unleaded gasoline
- regular unleaded gasoline.

 Become familiar with all controls their location and function. Operate them before you start the engine.
- Be sure brake system is in safe operating condition.
- √ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT





FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED MOWER LIFT



ATTACHMENT CLUTCH ENGAGED











NEUTRAL

HIGH

LOW

PARKING BRAKE

















DANGER, KEEP HANDS AND FEET AWAY



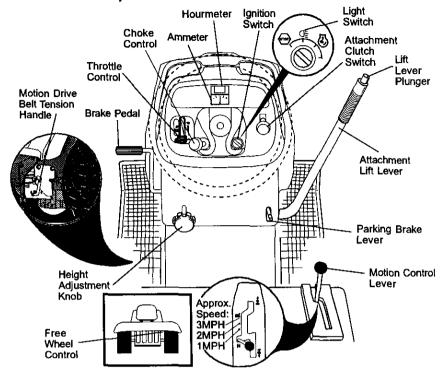


FREE WHEEL (Automatic Models only)

KNOWYOURTRACTOR

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

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



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

ATTACHMENT CLUTCH SWITCH -

Used to engage the mower blades, or other attachments mounted to your tractor.

LIGHT SWITCH - Turns the headlights on and off,

THROTTLE CONTROL - Used to control engine speed,

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

HOURMETER - Indicates hours of operation.

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

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



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

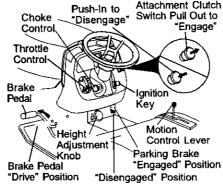
HOWTO USEYOUR TRACTOR TO SET PARKING BRAKE

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 brake pedal into full "BRAKE" position and hold

position and hold.

2. Place parking brake lever in "EN-GAGED" position and release pressure from brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.



STOPPING

MOWER BLADES -

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

GROUND DRIVE -

 To stop ground drive, depress brake pedal into full "BRAKE" position.
 IMPORTANT: The motion control lever returns to neutral (N) position when the brake pedal is fully depressed.

ENGINE -

- Move throttle control to slow position.
 NOTE: Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".
- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.

 Never use choke to stop engine.
 IMPORTANT: Leaving the ignition switch in any position other than "OFF" will cause the battery to be discharged, (dead).

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

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

TO USE THROTTLE CONTROL

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate
- Full throttle offers the best 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 ACAUTION: 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 (Y) 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.

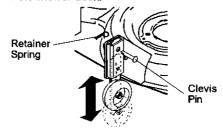
TO ADJUST GAUGE WHEELS

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.
- 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.
- Replace retainer spring into devis 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.



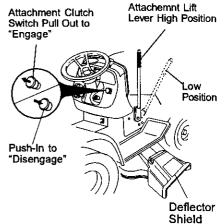
TO OPERATE MOWER

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.
- Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES - disengage attachment clutch control.

ACAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place.



TO OPERATE ON HILLS

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

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

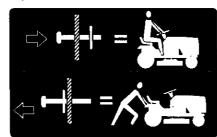
- To restart movement, slowly release parking brake and brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

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

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

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



TOWING CARTS AND OTHER ATTACH-MENTS

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

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

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

- Check engine oil with tractor on level ground.
 Unthread and remove oil fill cap/
- Untiread and remove oil fill cap/ dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.

- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

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

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

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

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

TO START ENGINE

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

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

- 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:

- 1. Be sure parking brake is engaged.
- Remove retainer spring from the drive belt tension handle to relieve belt tension.
- 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.
- 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.

PURGETRANSMISSION

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.

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

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

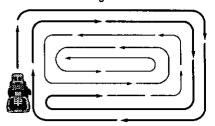
- Move motion control lever to neutral (N) position. Shut- off engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. 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 tractor is now purged and now ready for normal operation.

MOWINGTIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.

- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried dippings. 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

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R	Check for Loose Fasteners	~		<u> </u>		1/7		1		$\neg \neg$			
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lε	Clean Air Filter			√ 2									
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l¦.	Replace Oil Filter (If equipped)					1 1,2		I -					
ΙĒ	Clean Engine Cooling Fins					1/2							
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	Replace Fuel Fitter			J			V						

- Change more often when operating under a heavy load or in high ambient temperatures.
 Service more often when operating in dirty or dusty conditions.
 If equipped with oil filter, change oil every 50 hours.
 Replace blades more often when mowing in sandy soil.

- If equipped with adjustable system.
 Not required if equipped with maintenance-free battery.
 Tighten front axie pivot bolt to 35 ft.-lbs. maximum, Do not overlighten.

GENERAL RECOMMENDATIONS

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

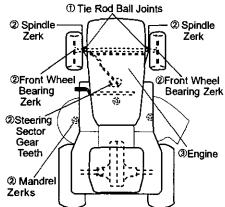
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

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

LUBRICATION CHART



①Spray Silicone Lubriant (Move Boots to Lubricate)

@General 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

21 lubricant sparingly.

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

OPERATOR PRESENCE SYSTEM

Be sure 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

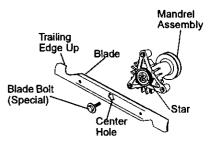
For best results mower blades must be kept sharp. Replace bent or damaged blades.

BLADE REMOVAL

- 1. Raise mower to highest position to allow access to blades.
- 2. Remove blade bolt.
- Install new or resharpened blade with trailing edge up towards deck as shown.

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

 Reassemble blade bolt tighten bolt securely (45-55 Ft. Lbs. torque),
 IMPORTANT: Blade bolt is grade 8 heat treated.



TO SHARPEN BLADE

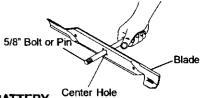
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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.

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

V-BELTS

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

TRANSAXLE COOLING

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

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

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

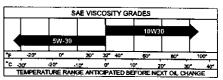
TRANSAXLE PUMP FLUID

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

ENGINE

LUBRICATION

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



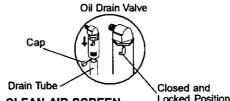
Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

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

TO CHANGE ENGINE OIL

Determine temperature range expected before oil change. All oil must meet API service classification SF-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 cap from end of drain valve and install the drain tube onto the fitting.
- Unlock drain valve by pushing upward slightly and turning counterclockwise.
- 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.
- Remove the drain tube and replace the cap onto to the end of the drain valve.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT 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.



CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

AIR FILTER

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

Service air cleaner more often under dusty conditions.

- Loosen knob and remove cover.
 TO SERVICE PRE-CLEANER
- Slide foam pre-cleaner off cartridge.
- 3. Wash it in liquid detergent and water.
- 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.

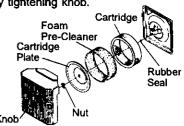
TO SERVICE CARTRIDGE

Replace a dirty, bent, or damaged cartridge.

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

- Remove nut and cartridge plate.
- 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.



ENGINE OIL FILTER

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

MUFFLER

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

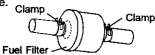
SPARK PLUGS

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

IN-LINE FUEL FILTER

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

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

SERVICE AND ADJUSTMENTS



CAUTION: 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 "OFF" and remove key.

- 4. Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

TRACTOR

TO REMOVE MOWER

- Place attachment clutch in "DISEN-GAGED" position.
- If equipped, turn height adjustment knob to lowest setting.
- 3. Lower mower to its lowest position.
- 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 antiswaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove four retainer springs from front plate assembly and remove plate.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- Slide mower forward and remove belt from electric clutch pulley.
- Slide mower out from under right side of tractor.

TO INSTALL MOWER

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

TO LEVEL MOWER HOUSING

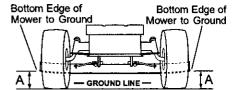
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

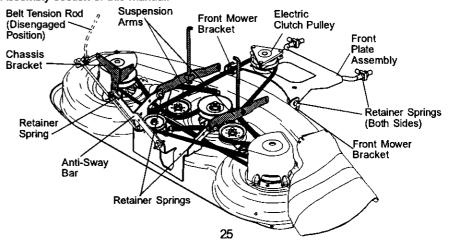
SIDE-TO-SIDE ADJUSTMENT

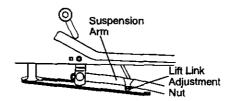
- · Raise mower to its highest position.
- Measure height from bottom edge of mower to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link 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

NOTE: Each full turn of adjustment nut will change mower height about 3/16".

Recheck measurements after adjusting.







FRONT-TO-BACK ADJUSTMENT

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

To obtain the best cutting results, the mower 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.

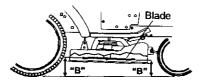
Check adjustment on right side of tractor. Position any blade so the tip is pointing straight forward. Measure distance "B" at front and rear tip of blade

- 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,

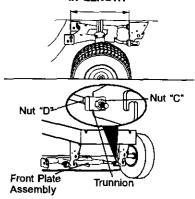
NOTE: Each full turn of nut "C" will change dim. "B" by approximately 3/16".

• When distance "B" is 1/8" to 1/2" lower

- 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

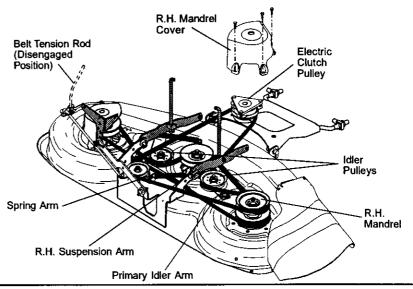
- Park tractor on a level surface. Engage parking brake.
- Lower mower to its lowest position.
- Disengage belt tension rod from lock bracket.

A CAUTION: Rod is spring loaded. Have a firm grip on rod an release slowly.

- 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.
- Remove belt from electric clutch pulley.
- 9. Remove belt from idler pulleys.
- 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.
- Install new belt onto electric clutch pulley.
- Carefully roll belt into upper groove of R.H. mandrel pulley.
- Carefully check belt routing making sure belt is in the grooves correctly.
- 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 DRIVE

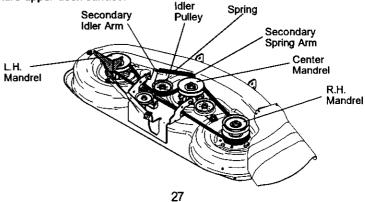
Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- 2. Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- 3. Remové screws from L.H. mandrel cover and remove cover.
- Carefully roll belt off L.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and R.H. mandrel pulley.
- 6. Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.

- 7. Check secondary idler arm and idler pulley to see that they rotate freely.
- Be sure spring is hooked in secondary idler arm and secondary spring arm.
- 9. Install new belt in lower groove of R.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.

 10. Carefully roll belt over L.H. mandrel
- pulley. Make sure belt is in all grooves properly.

 11. Reinstall L.H. mandrel cover.
- 12. Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- 13. Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).

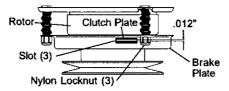


TO ADJUST ATTACHMENT CLUTCH

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

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

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



TO 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.

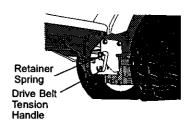
 Remove mower (See "TO REMOVE MOWER" in this section of this manual.)

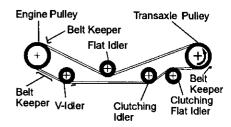
BELT REMOVAL -

- 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.
- Reinstall mower.





TRANSAXLE MOTION CONTROL LEVER 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.
- Loosen the adjustment bolt in front of the right rear wheel.
- Move motion control lever to the neutral position.
- 4. Tighten the adjustment bolt.



TRANSMISSION REMOVAL/REPLACE-MENT

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

TO ADJUST STEERING WHEEL ALIGN-MENT

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

FRONT WHEEL TOE-IN ADJUSTMENT

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

TO CHECK TOE-IN -

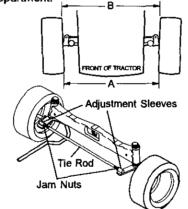
- 1. Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

TO ADJUST TOE-IN -

- Loosen jam nuts at adjustment sleeves on tie rod.
- 2. 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 your nearest authorized service center/department.



TO REMOVE WHEEL FOR REPAIRS FRONT WHEEL-

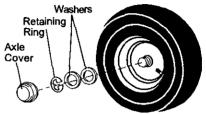
- 1. Block up axle securely.
- 2. Remove axle cover, retaining ring and washers to allow wheel removal.

- 3. Repair tire and reassemble.
- Replace washers and snap retaining ring securely in axle groove.
- 5. Replace axle cover.

REAR WHEEL -

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

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



TO START ENGINE WITH A WEAK BATTERY

ACAUTION: 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

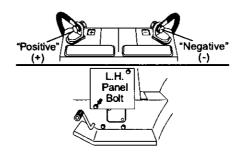
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehical must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

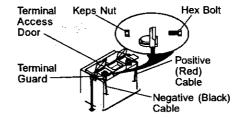


REPLACING BATTERY

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

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

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



TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

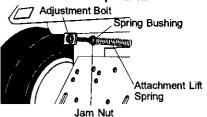
TO RĚPLACE FUSE

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

TO ADJUST ATTACHMENT LIFT **SPRING**

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

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



TO REMOVE HOOD AND GRILL **ASSEMBLY**

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



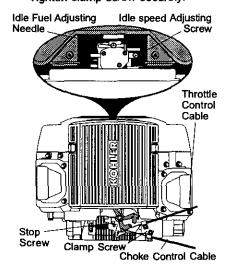
ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE

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

- With engine not running, move throttle control lever 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.

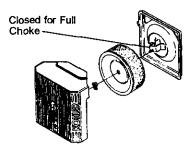


TO ADJUST CHOKE CONTROL

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.
- 4. 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 (dockwise) 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 -

 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.

 2. 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.
- 3. 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.
- 4. Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

5. 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.

CAUTION: Never store the tractor with gasoline in the tank inside a building where furnes 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 TERMI-NALS" in the Maintenance section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

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

OTHER

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

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

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Water in fuel. 	1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.
	8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment. 11. Extreme Cold Conditions	8. Check all wiring. 9. See "To Adjust Carburetor" in Service Adjustments section. 10. Contact a Sears or other qualified service center. 11. See "To start engine" in operation section.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact a Sears or other qualified service center.
Engine will not turn over	 Brake pedal not depressed Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty operator presence switch(es). 	 Depress brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact a Sears or other qualified service center.
Engine clicks but will not start	Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter.	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.

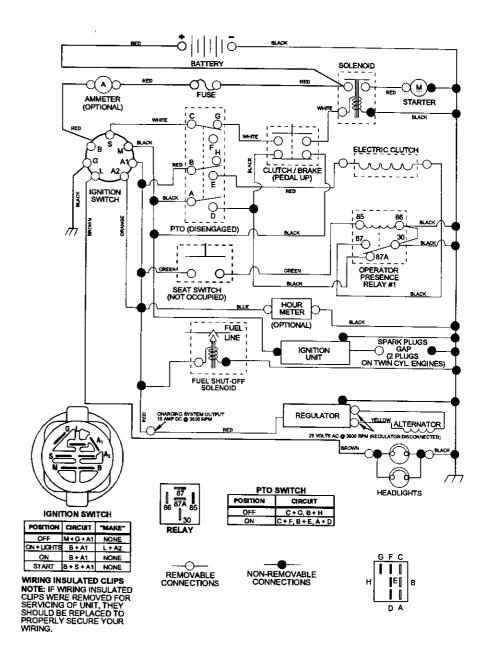
TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. 	Set in "Higher Cut" position/ reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil.
	Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel.	6. Clean and regap or change spark plug. 7. Replace fuel filter. 8. Drain fuel tank and refill with fresh gasoline. 9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace
	10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	fuel filter. 10. Connect and tighten spark plug wire. 11. Clean engine air screen/ fins. 12. Clean/replace muffler. 13. Check all wiring. 14. See "To Adjust Carburetor" in Service Adjustments section. 15. Contact a Sears or other qualified service center.
Excessive vibration	Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s).	Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact a Sears or other qualified service center.
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent from build-up of grass, leaves, and trash around mandrels. 	Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes.

TROUBLESHOOTING CHART

PROBLEM	ROUBLESHOOTING CHART PROBLEM CAUSE CORRECTION						
Mower blades will							
not rotate	Obstruction in clutch mechanism.	Remove obstruction.					
	Worn/damaged mower drive belt.	2. Replace mower drive belt.					
	 Frozen idler pulley. Frozen blade mandrel. 	Replace idler pulley. Replace blade mandrel.					
Poor grass discharge	1. Engine speed too slow.	Place throttle control in "FAST" position.					
-	Travel speed too fast. Wet grass.	Shift to slower speed. Allow grass to dry before mowing.					
	 Mower deck not level. Low/uneven tire air pressure. 	4. Level mower deck.					
	6. Worn, bent or loose blade.	Replace/sharpen blade. Tighten blade bolt.					
	Buildup of grass, leaves and trash under mower.	Clean underside of mower housing.					
	8. Mower drive belt worn. 9. Blades improperly installed.	Replace mower drive belt. Reinstall blades sharp edge down.					
	10.Improper blades used.	10.Replace with blades listed in this manual.					
	Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	11. Clean around mandrels to open vent holes.					
Headlight(s) not working (if so equipped)	1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring.	Turn switch "ON". Replace bulb(s). Check/replace light switch. Check wiring and connections.					
	5. Blown fuse.	5. Replace fuse.					
Battery will not charge	Bad battery cell(s). Poor cable connections.	Replace battery. Check/clean all connections.					
	Faulty regulator (if so equipped).	Replace regulator.					
	Faulty alternator.	4. Replace alternator.					
Loss of drive	Freewheel control in	Place freewheel control in					
	"disengaged" position. 2. Motion drive belt worn,	"engaged" position. 2. Replace motion drive belt.					
	damaged, or broken. 3. Air trapped in transmission during shipment or servicing.	3. Purge transmission.					
Engine "backfires" when turning engine "OFF"	Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.					

SCHEMATIC

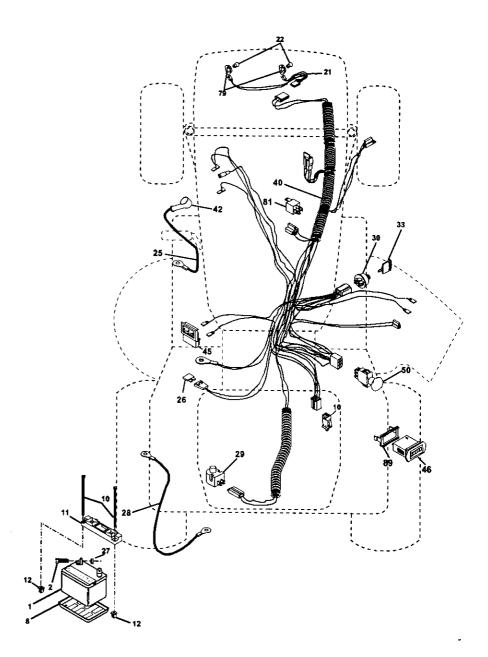


37

REPAIR PARTS

TRACTOR - MODEL NUMBER 917.275223

ELECTRICAL

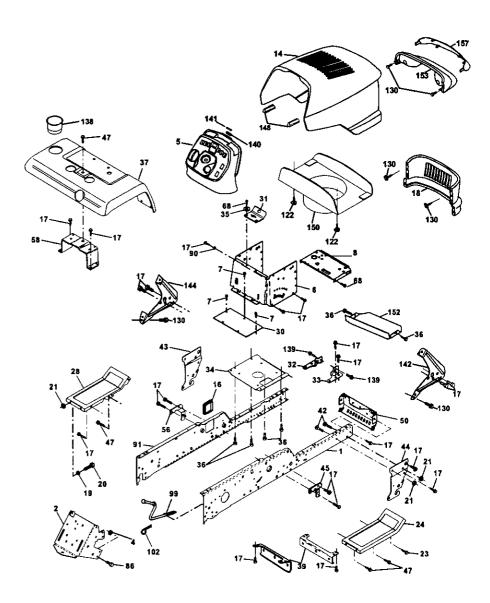


ELECTRICAL

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	145769	Nut Push Nylon 1/4"
16	153664	Switch Interlock Push-in
21	166184	Harness Socket Light W/4152J
22	4152J	Bulb Light
25	150755	Cable, Battery
26	108824X	Fuse
27	73510400	Nut Keps Hex 1/4-20 Unc
28	170697	Cable, Ground
29	160784	Switch, Plunger
30	175566	Switch, Ign
33	140403	Key, Ignition
40	170238	Harness Ign.
42	154336	Cover, Terminal
45	122822X	Ammeter
46	169635	Hourmeter
50	174652	Switch, PTO
79	163996	Bulbholder Asm Incandescent SV
81	109748X	Relay Asm.
89	169639	Bracket Snap-In Hourmeter

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

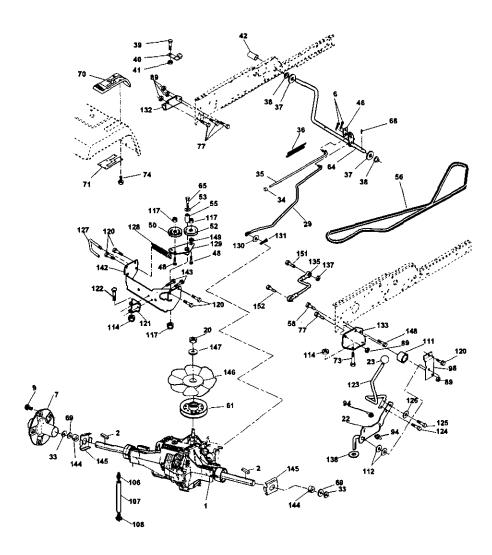
TRACTOR - MODEL NUMBER 917.275223 CHASSIS AND ENCLOSURES



TRACTOR - MODEL NUMBER 917.275223 CHASSIS AND ENCLOSURES

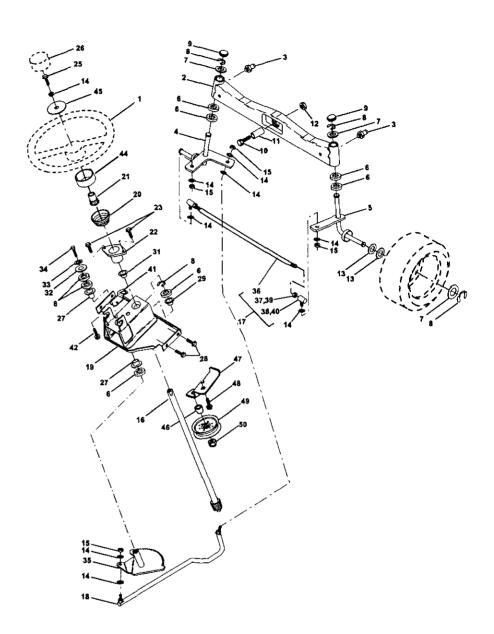
	PART	2502220		PART	DECCRIPTION
NO.	NO.	DESCRIPTION	NQ.	NO.	DESCRIPTION
1	175465	Rail, Frame RH	44	136940	Bracket, Spnsn Front Rh
2	175282	Drawbar, Gt	45	176018	Bracket Asm., Susp Chas.Rh
4	73800700	Nut, Lock Hex 7/16 Unc	47	17490608	Screw Thdrol. 3/8-16 x 1/2
5	163976X428		50	175476	Bracket, Chassis Front
2 4 5 6 7	157882	Dash, Lower Vgt One Piece	56	176016	Bracket Asm., Susp Chas. Lh
7	17720408	Screw, Thd Cut 1/4-20 x 1/2	58	175315	Bracket Asm., Fender
8	145166	Support, Battery	68	17490508	Screw Thdrol. 5/16-18 x 1/2
14	175259X558		86	74760716	Bolt Fin Hex 7/16-14 UNC x 1
16	121794X	Cover, Access	90	STD551237	Washer, Lock Ext. Tooth 3/8
17	17060612	Screw 3/8-16 x .75	91	175464	Rall, Frame Lh
18	174515X558	Grille	99	177143	Rod By Pass
19	19131312	Washer 13/32x13/16x12 Ga.	102	STD624003	Retainer, Spring
20	STD523710	Bolt, Fin Hex 3/8-16 x 1	122	161464	Screw Hex Wshd 8-18 x 7/8
21	STD541437	Nut Crownlock 3/8-16 Unc	130	164863	Screw Hwhd Hi-Lo#13-16x3/4
23	17060616	Screw 3/8-16 x1.5	138	163975X428	
24	145243X558	Footrest, RH	139	171873	Bolt Shoulder 5/16-18 TT
28		Footrest, LH	140	163806	Magnet YTGT
30	145052	Saddle, Hydro	141	163805	Striker Plate YTGT
31	161419	Brace, Supt 1-pc VGT	142	161897	Bracket Dash Rh
32	161327	Bracket, Pivot Chassis Lh	144	161900	Bracket Dash Lh
33	161326	Bracket, Pivot Chassis Rh	148	164655	Extrusion Bumpers
34	177018	Plate Asm Engine	150	161237	Duct Heat Hood
35	19111116	Washer 11/32x11/16x16 Ga.	152	177956	Shield Browning
36	17060512	Screw 5/16-18 x 3/4	153	160568	Lens Asm Headlight Bar
37	167287X558	FenderPnt	157	161840	Lens Bar
39	175278	Bracket, Axle Front			
42	STD533710	Bolt, Carriage 3/8-16 x 1	NOT		ent dimensions given in U. S.
43	136939	Bracket, Spnsn Front Lh		inches 1 in	ch = 25.4 mm

GROUND DRIVE



GROUND DRIVE

		PART		KEY	PART	
N	O.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1			Transaxle Hydro Gear	106	142918	O-Ring Asm Hydro Gear
			311-3500 (See Breakdown)	107	154739	Line Fuel Hydro 15" VGT
2		9396E	Key 1/4 x 1/4 x 2	108	142917	Cap Asm Vent Hydro Gear 70109
6		STD561210	Pin, Cotter	111	156240	Spacer Shift Lever VGTH
7		140507	Wheel, Hub Assembly	112	156104	Washer Nylon High Temp
9		140080	Bolt, Hub	114	73800500	Nut Lock Hx W/ins 5/16-18 Unc
20	0	73940800	Nut	117	73900600	Nut, Lock Fig. 3/8-16
24		178391	Lever Asm Shift Lower	120	17060612	Screw 3/8-16 x .75
23		130564	Knob	121	175611	Bracket Strap Torque
25		176600	Brake, Rod	122	72010520	Bott RDHD SQ 5/16-18unc x 2-1/2
33	3	12000053	RingE	123	176602	Rod Shift
34		71673	Cap, Parking Brake	124	165492	Bolt Shoulder 5/16-18 x .561
3.	5	137648	Rod, Parking Brake	125	166880	Screw 5/16-18 x 5/8
36		149412	Spring, Drive Ground	126	166002	Washer SRRTD 5/16ID x 1.0 x
37		121749X	Washer 25/32 x 1-1/4 x 16 Ga.			.125
38		150035	Nyliner	127	177362	Link Control Clutch
39		74321016	Screw, Fin. #10-24 x 1	128	176624	Spring Drive GRND
40		178575	Actuator, Interlock Switch	129	178588	Bracket Asm Idler Tensioning
4		73931000	Nut Centerlock 10-24 Unc	130	19131016	Washer 13/32 x 5/8 x 16 Ga
42		8883R	Cover, Pedal	131	76020312	Pin Cotter 3/32 x 3/4
4		145170	Retainer, Spring	132	175467	Bracket Mtg Hydro 3500 LH VGT
4		72110614	Bolt, Carri. 3/8-16 x 1-3/4 Gr. 5	133	175468	Bracket Mtg Hydro 3500 RH VGT
50		131494	Pulley, Idler, Flat	135	177364	Link Asm Control Hydro 3500
5		127783	Pulley, Idler, Grooved	137	1685H	Nut Lock 5/16-18 NC Thd
5		207J	Washer, Hardened	138	1370H	Washer Thrust 5/8 x 1.10 x 1/32
5		105706X	Bearing, Idler	139	74550412	Bolt 1/4-20 UNF Gr 8 W/Patch
5		161597	V-Belt	142	175469	Strap Torque HG-3500
5		74760724	Bolt Fin Hex 7/16-14 x 1-1/2	143	17060512	Screw Thdrol 5/16-18 x 3/4
6		143995	Pulley, Transaxie	144	160849	Washer Spacer Axle HG-3000
6		176601	Shaft, Clutch/Brake Pedal	145	163168	Washer Axle Flange HG-3000
6		67609	Bolt, Shoulder	146	140462	Fan 7" Hydro
6		STD571812	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	147	141322	Washer
6		123800X	Washer	148	17060616	Screw 3/8-16 x 1.0
7			Console Automatic YT/GT	149	19131410	Washer 13/32 x 7/8 x 10 Ga
7		151179	Plate Console Shift	151	747605410	Bolt Hex 5/16-18 x 7/8
7		74490548	Bolt Hex Fighd 5/16-18 x 3 Gr. 5	152	178705	Bolt Hex 5/16-18 x 1 w/Patch
7-		142432	Screw Hex Wsh. Hi-Lo 1/4-1/2			
7		74760716	Bolt Fin Hex 7/16-14 x 1			
	9	73680700	Nut Crownlock 7/16-14 Unc			
9		133835	Fastener Christmas Tree	NOT	E: All compoi	nent dimensions given in U.S.
9	15	141004	Bracket Shift		inches 1 i	nch = 25.4 mm

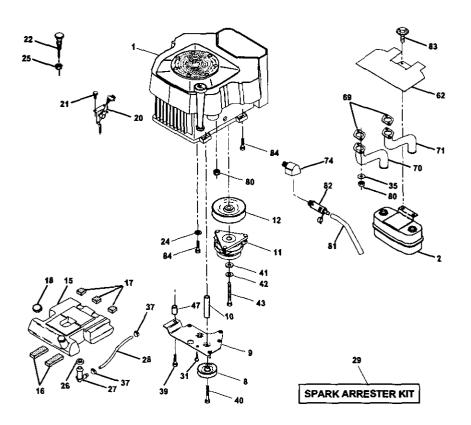


STEERING

KEY NO.	PART NO.	DESCRIPTION
1	159944X428	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	Washer, Lock Hvy Hici Spr 3/8
15	STD541537	Nut, Lock Center 3/8-24 UNF
16	145103	Shaft Asm., Steering
17	137347	Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40)
18	175572	Draglink Vgt
19	156011	Support Asm., Steering Vgt
20	163887X428	
21	159945	Adapter, Wheel Steering
22	155105	Bushing, Strg. Blk
23	152927	Screw
25	74780616	Bolt, Fin Hex 3/8-16 x 1 Gr. 5
26	159946X428	
27	3366R	Bearing, Cot. 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 Hicl 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	17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
44	160135X428	
45	19132411	Washer 13/32 x 1-1/20 x 11 Ga.
46	178291	Spacer .407 x .625 x .500
47	177863	Bracket Asm Idler Stationary
48	17060612	Screw 3/8-16 x .75
49	131494	Pulley Idler Flat
50	73900600	Nut Lock Fig 3/8-16 UNC

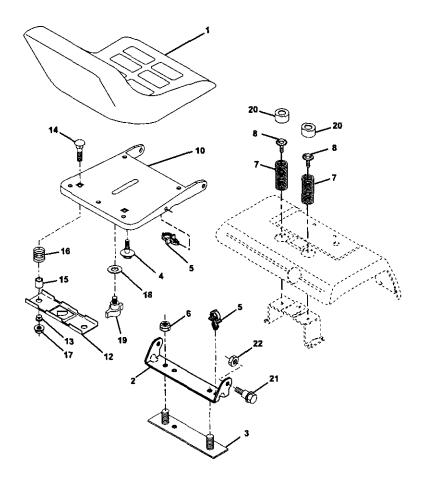
NOTE: All component dimensions given in U. S. inches 1 inch = 25.4 mm

ENGINE



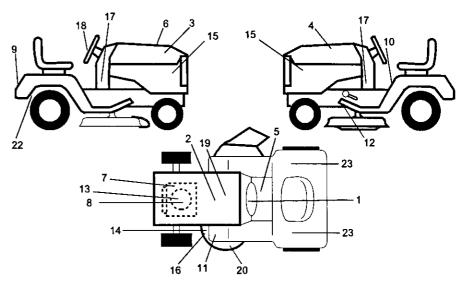
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Engine (See Breakdown)	31	145006	Clip
		Kohler Model No. CV724-69551	35	10010500	Washer Split
2	149723	Muffler	37	123487X	ClampHose
8	121361X	Pulley V-Idler	39	17490636	Screw TT 3/8-16 x 2-1/4 UNC
8 9	177748	Keeper Asm. Belt Engine	40	17490664	Screw TT 3/8-16 x 4 UNC
10	175288	Bushing	41	126197X	Washer 1-1/2 OD x15/32 ID x .250
11	174605	Clutch Electric	42	STD551143	Washer Lock 7/16
12	143996	Pulley Engine VGT Elect Clutch	43	173937	Bolt Hex 7/16 - 20 X 4 x Gr 5-1.5
15	151346	Tank Fuel Rear 3.50 Yt/Gt 96	47	175287	Spacer Engine
16	109227X	Pad Spacer	62	146629	Shield Heat Muffler
17	106082X	Pad Spacer	69	24-041-02	Gasket
18	161493	Cap Asm Fuel W/Gauge	70	175545	Tube Exhaust LH
20		Control Throttle	71	175546	Tube Exhaust RH
21	164863	Screw hwhd Hi-Lo#13-16x3/4	74	162295	Elbow Street Brass
22		Control Choke	80	M73030800	NutFlange
24	STD551237	Washer Ext Tooth 3/8	81	148456	Tube Drain Oil Easy
24 25	73920600	Nut Keps 3/8 - 24 UNF	82	148315	Plug Drain Oil Easy
26	3645J	Bushing	83	171877	Bolt 5/16-18unc x 3/4
27	139277	Stem Tank Fuel	84	17060624	Screw Thdrol 3/8-16 x 1-1/2
28	7834R	FuelLine	NOT	E: All compor	nent dimensions given In U. S.
29	137180	Spark Arrester Kit		inches 1 in	nch = 25.4 mm

SEAT ASSEMBLY



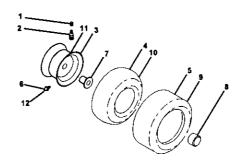
KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	140124	Seat	14	72050412	Bolt, Carriage 1/4-20 X 1-1/2
2	140551	Bracket, Pivot Seat	15	121249X	Spacer, Split
3	140675	Strap, Fender	16	123740X	Spring, Cprsn
4	127018X	Bolt, Shoulder 5/16-18 x .62	17	123976X	Nut, Lock 1/4 Lge Fig Gr. 5
5	145006	Clip, Push In, Hinged	18	19171912	Washer 17/32x1-3/16x12 Ga.
6	STD541437	Nut, Crownlock 3/8-16 Unc	19	166369	Knob, Seat
7	124181X	Spring, Seat Cprsn	20	124238X	Cap, Spring Seat
8	171877	Bolt 5/16-18Uncx3/4 w/Sems	21	171852	Bolt, Shoulder 5/16-18
10	174894	Pan, Seat	22	73800500	Nut, Lock Hx w/lns. 5/16-18
12 13	121246X 121248X	Bracket, Mounting Switch Bushing, Snap	NOT		nent dimensions given in U.S. nch ≈ 25.4 mm

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	164096	Decal Dash	13	177542	Decal Replacement
2	149516	Decal Battery DNGR/PSN	14	175291	Decal V-Belt Schem
		ENG Asm	15	177415	Decal Hood Side Pni
3	171702	Decal Hood RH Craftsman	16	178455	Decal Deck Caution
4	171703	Decal Hood LH Craftsman	17	177665	Decal Dash Panel
5	140837	Decal Brake Parking Saddle	18	164065	Decal Insert Strg
6	133644	Decal Maintenance	19	138047	Decal Battery
7	177664	Decal Engine	20	178482	Decal Deck Hvy Duty
8	164884	Decal Blower Hsng Kohl	22	166960	Decal Drawbar CNTRL
9	163204	Decal, Fender Craftsman	23	106202X	Reflectro, Taillight
10	156439	Decal Fender Danger		157199X428	Pad Footrest
11	177781	DecalFTREST		138311	Decal Handle Lft Height
12	177554	Decal V-Belt Dr Sch			Adjust (Lift Handle)
				179011	Owner's Manual, English
				179012	Owner's Manual, Spanish

WHEELS AND TIRES



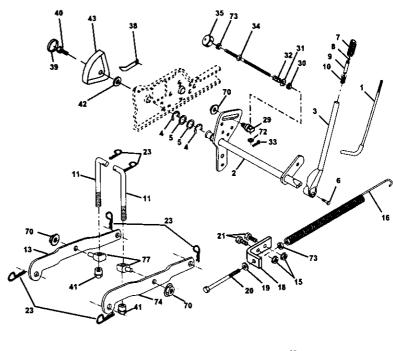
KEY PART NO. NO. **DESCRIPTION** 59192

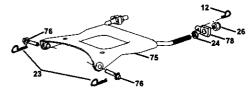
Cap Valve Tire
Stem Valve
Rim Asm Front
Tube, Front (Service Item Only)
Tire, Front
Fitting Grease (Front Wheel Only)
Bearing Flange(Front Wheel Only)
Cap Axle (Front Wheel Only)
Tire Rear 1 2 3 4 5 6 7 8 9 10 11 12 65139 148736X427 8134H 8134H 148741 278H 9040H 104757X428 151607 7154J Tube Rear (Service Item Only) 148738X427 Rim Asm Rear 6856M Fitting Grease 144334 Sealant, Tire (10 oz. Tube)

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

48

LIFT ASSEMBLY

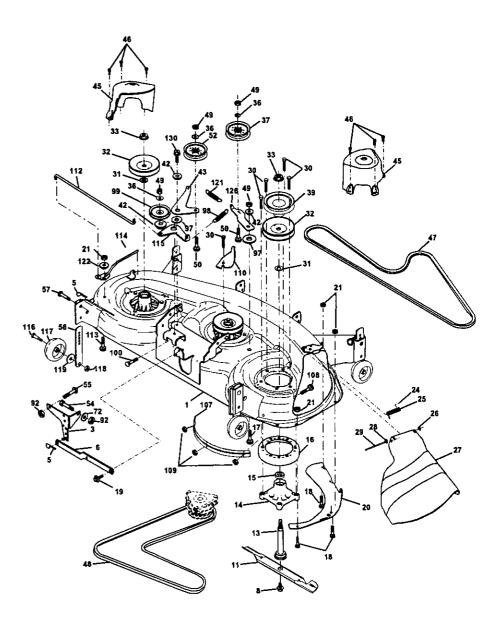




KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	121006X	Rod Asm., Lever	31	STD551037	Washer 13/32 x 5/8 x 16 Ga.
2	177535	Shaft Asm., Lift Vgt	32	137150	Spring, Compression Inf Hgt
2 3	159189	Lever Asm., Lift Rh	33	STD560907	Pin Cotter 3/32 x 1/2
4	12000022	E-Ring Truarc#5133-87	34	137167	Rod, Adj Lift
5	19292016	Washer 29/32 x 1-1/4 x 16 Ga.	35	138057	Knob, Inf 3/8-16 Unc
6	71110624	Bolt, Fin Hex 3/8-16 x 1-1/2	38	155097	Pointer, Height Indicator
7	175830	Grip, Handle Fluted	39	123935X	Plug, Hole
8	175831	Button, Plunger	40	17490516	Screw Hex Wsh 5/16-18 x 1
ğ	122364X	Plunger, Button	41	175994	Nut, Lift Link 7/16-20
10	2876H	Spring 2-1/8"	42	19112410	Washer 11/32 x 1-1/2 x 10 Ga.
11	175375	Link Lift	43	123934X	Scale, Indicator Height
12	163552	Retainer Spring	70	145212	Nut Hex Flange Lock
15	STD541437	Nut, Crownlock 3/8-16 Unc	72	110452X	Nut Push Phos & Oil
16	674A247	Spring Asm., Assist Lift	73	73350600	Nut Hex Jam 3/8-16 UNC
18	143363	Bracket, Spring Assist	74	175802	Arm Susp. Rear RH
19	STD551037	Washer 13/32 x 13/16 x 16 Ga.	75	175805	Plate Asm. Susp. Front
20	5328J	Bolt, Adjust Spring Assist	76	175560	Pin Flange
21	STD523710	Bolt, Fin Hex 3/8-16 x 1	77	176205	Trunnion Susp. Arm
23	STD624008	Retainer, Spring	78	175689	Trunnion Susp. Front
24	73350800	Nut, Jam Hex 1/2-13 Unc	79	175378	Arm, susp. R LH
26	73680800	Nut Crownlock 1/2-13 Unc			
29	150233	Trunnion, Infin Height	NOT	TE: All compo	nent dimensions given in U.S.
30	110807X	Nut, Special	AUI	inches 1	inch = 25.4 mm
			40	(1)(65 11	IIII = EQ.7 titti

49

MOWER DECK

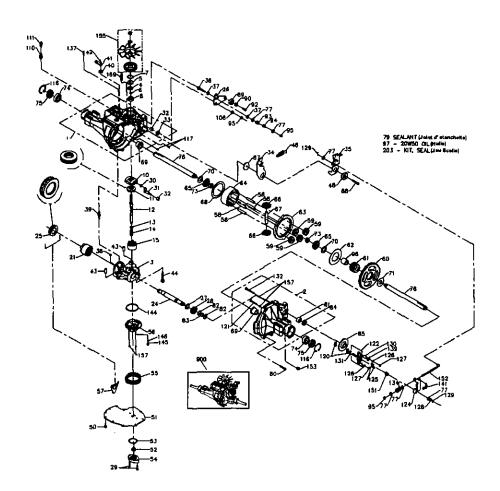


MOWER DECK

	PART			PART	PECODIDION
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	174348	Deck Weldment Mower 48	49	73680600	Nut, Crownlock 3/8-16 UNC
3	138017	Bracket Asm., Sway Bar	50	72110612	Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5
5	4939M	Retainer Spring	52	175820	Pulley Idler Flat
6	130832	Arm, Suspension, Rear (Sway	56	155986	Bar Pnt Adj.
		Bar)	57	156941	Pin Head Rivet
8	174365	Bolt 7/16 Asm. Blade	97	133943	Washer Hardened
11	173920	Blade	98	174370	Spring Primary Drive
13	174360	Shaft Asm.	99	175080	Pulley Idler"V"
14	174358	Mandrel Housing	100	72110616	Bott RDHD Sqnk 3/8-16 UNC x 2
15	110485X	Bearing, Ball, Mandrel	107	175294	Baffle Vac Edge Mower
16	174493	Stripper Mandrel Deck	108	72110404	Bolt Carr.
17	72110610	Bolt RDHD Sq Neck 3/8-16x1.25	109	73680400	Nut Crownlock 1/4-20
18	72140505	Bolt, Carriage 5/16-18 x 5/8	110	175016	Arm Spring Secondary
19	132827	Bolt, Hex Hd, Shoulder 5/16-18	112	174387	Link Tension Relief Lever
20	174378	Baffle, Vortex Mower	113	72110508	Bolt Carr. 5/16-18 x 1
21	73680500	Nut, Crownlock 5/16-18 UNC	114	174384	Tension Asm. Relief Lever
24	105304X	Cap, Sleeve	115	174609	Arm Spring Tension Relief
25	178102	Spring, Torsion	116	137644	Bolt, Shoulder
26	110452X	Nut, Push	117	174873	Gauge Wheel
27	174346X428	Deflector Shield	118	73930600	Nut, Centerlock 3/8-16 UNC
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
29	131491	Rod, Hinge	121	174371	Spring Secondary Drive
30	173984	Screw, Thdroll	122	174606	Bushing Pivot Tension Relief
31	129963	Washer, Spacer Mower Vented	126	174372	Arm, Idler, Primary Deck
32	177865	Pulley, Mandrei	130	17060616	Screw 3/8-16 x 1.0
33	178342	Nut, Fig. Top Lock Cntr. 9/16		175312	Deck Complete
36	19131316	Washer 13/32 x 13/16 x 16 Ga.		174356	Mandrel Asm. Service
37	173437	Pulley, Idler, Flat			(Includes Key Nos.13-15)
39	174375	Pulley, Idler, Driven			
42	165723	Spacer, Retainer			
43	174373	Arm, Idler Secondary			
45	174343	Cover, Mandrel Deck			
46	137729	Screw, Thdroll. 1/4-20 x 5/8			
47	174369	V-Belt, Mower, Secondary	NOT		nent dimensions given in U.S.
48	174368	V-Belt, Mower, Primary		inches 1 in	ch = 25.4 mm

51

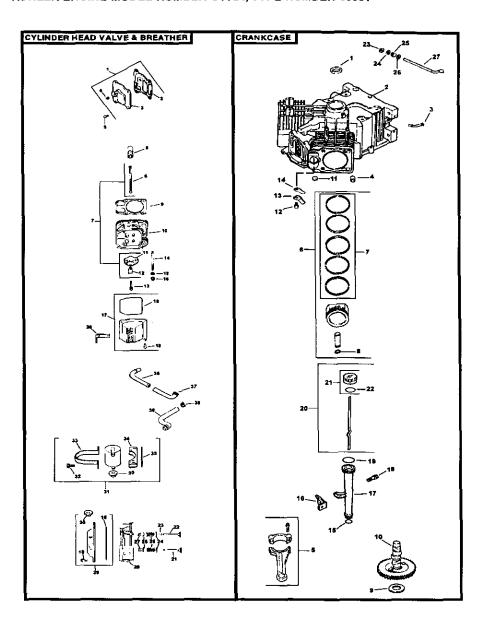
TRACTOR - MODEL NUMBER 917.275223 TRANSAXLE--MODEL NUMBER 311-3500



TRACTOR - MODEL NUMBER 917.275223 TRANSAXLE-MODEL NUMBER 311-3500

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	161122	Main Housing Assembly	74	169535	Ball Brg 6205-1
2	178317	R.H. Housing Assembly	75	161157	Seal 1"ld X 2.0472" X 0.375"
3	169522	Center Section Assembly	76	161153	Shaft, Axie
4	161125	Spacer	77	142884	Washer
5	142932	Seal-Lip	79	178322	Gasket Material
Ğ.	142928	Wire Retaining Ring	80	161159	Torx Head Screw, 5/16-18
7	142933	Retaining Ring	81	161160	Needie Bearing (Sce 1412)
8	142934	Ball Bearing	82	161161	Washer2
9	169523	Cradle Bearing	83	161162	Retaining Ring
10	169524	Variable Swashplate	84	161163	Lip Seal
11	150771	Thrust Bearing 30 X 52 X 13		404404	(0.875l.D.X1.3o.D.X0.25
12	161126	Input Shaft	85	161164	Brake Disk
13	142978	Block Thrust Washer	87	178323	Washer
14	142977	Arm - Trunnion	88 89	178324	Screw 5/16-24
15	196050	10cc Cylinder Block Assembly	90 90	178325 178326	Bearing Spacer
21	169525	21cc Cylinder Block Assembly	90 91	169536	
24	161127	Output (Motor) Shaft	92	178327	Oring, 0.070 X 0.239 Screw
25	169526	Thrust Bearing 42 X 68 X 16	93	142969	Spring, Friction Pack
26	161128	Control Arm	94	142980	Spacer, Friction Pack
27	161129	Spacer	95	169537	Hex Lock Nut 5/16-24
28	161130	16t Pinlon Gear	96	169538	Sleeve Bearing
29 30	169527 142941	Capscrew, M6 X 1-22 Slot Guide	97	150798	Oil
30 31	161132	Trunnion Arm	106	161166	Spacer, Trunnion
32	161133		108	178328	Plug
33	142940	Trunnion Bushing Lip Seal	110	142918	Fitting-O Ring Ass'y
34	178318	Arm Return	111	142917	Cap Vent Ass'y
35	178319	Arm Actuating	116	169539	Retaining Ring
36	169528	5/16-24 Stud	117	161168	Std Hdls Pin
37	142967	Puck, Friction	120	142883	Puck, Brake
38	150787	Bypass Plate	121	169540	Rib Neck Bott, 2"
39	169529	Bypass Actuator	122	178329	Brake Yoke
40	142945	Lip Seal	124	178330	Arm, Brake
41	142952	Bypass Arm	125	142887	Pins, Brake
42	142953	Retaining Ring	126	161172	Lockwasher, 1/4"
43	142965	Pin	127	161173	Nut, 1/4-20
44	150797	Screw	128	142885	Nut, Castle
48	178320	Puck	129	142886	Cotter Pin
50	178343	Screw-Self Tapping	130 131	161174 142882	Spacer Puck Plate
51	169530	LowerCover	132	169544	
52	169531	Gerotor Assembly	134	178331	Rib Neck Bolt, 3" 1 Spring
53	144581	O-Ring	136	178332	Spring Extension
54	161139	Gerotor Cover	137	178333	Pin Spring
55	178321	Filter	138	178334	Bolt Self Tapping
56 57	169533 161142	Charge Manifold	139	161176	Washer.
58	161143	Retainer, Motor Bearing Pin, Carrier		,0,,,,	7/8od X 0.265id X 0.125 Thk
59	161144	15t Planet Gear	141	178335	Spring Brake
60	161145	7t Spur Gear	144	169545	O Ring, 2.864 ld X 0.070 Thk
61	161146	21t Sun Gear	145	169546	Spring, Relief
62	161147	Planet Thrust Plate	146	169547	Ball, 7/16
63	161148	51t Ring Gear	151	161181	Comp. Spring, Brake Anti-Drag
64	161149	Planetary Carrier	152	178336	Brake Pull Rod
65	178511	Miter Gear, Diff. (Splined)	153	142914	Plug, Straight Thread
66	178512	Miter Gear, Diff.	155	178337	Kit Fan
67	161152	Shaft, Differential	157	169548	Screw O-Ring
68	161153	Diff. Thrust Plate	180	169549	Manifold Kit
69	169534	Flange Bearing	203	178338	Kit Seal
70	161154	Washer	900	176057	Transaxie, complete
71	161155	Washer	N. or o	FF. A!!	and the section of the section of
73	161156	Hex Jam Nut, 5/8-18	NOT		conent dimensions given in U.S. inches
				1 inch =	25.4 mm

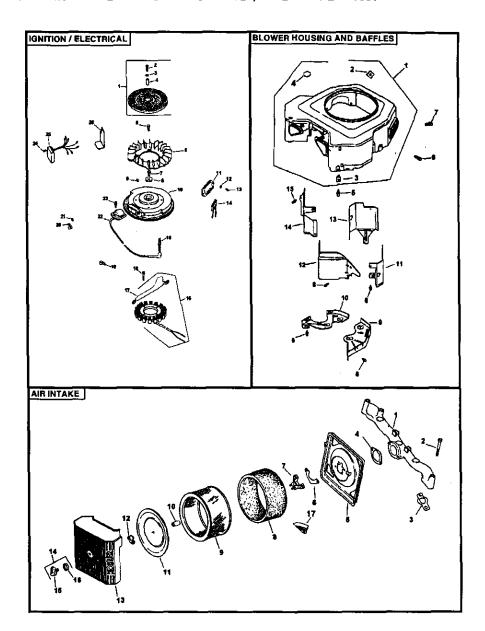
53



HEAD/VALVE/BREATHER

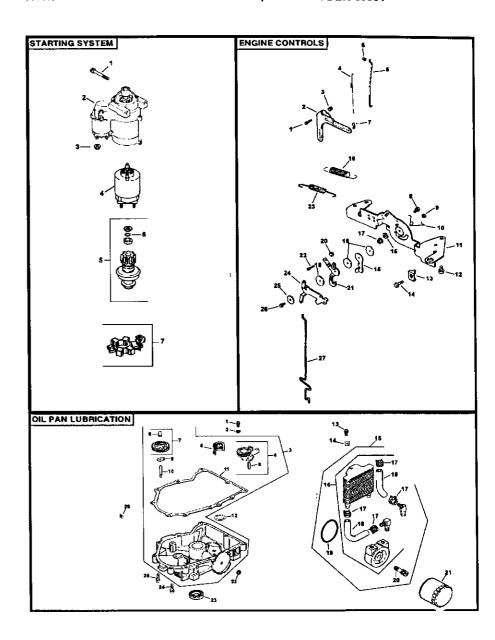
CRANKCASE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
		150 A		04 000 04 0	Cool all front
1	24-033-01-S	Kit, breather cover w/gasket	1 2	24-032-01-5	Seal, oil front Crankcase
2	24-041-23-5	(Includes 2-4) Gasket, breather	_		(USE: Miniblock 24 782 23)
2 3 4		Cover, breather	3	24-294-13-S	Fitting
4		Plug, allen hd. 1/8"	4		Pin, dowel locating (6)
5	M-645020-S	Screw, hex. flange	5	24-067-13-S	Connecting Rod (Std.) (2)
_		M6x1.0x20 (4)	_	24-067-14-S	Connecting Rod (.25) (2)
6 7		Lifter, valve (4)	6	24-8/4-08-5	Piston w/Ring Set (Std.) (2) (Includes 7, 8)
1	24-700-00-0	Kit, valve train (includes 8, 11, 12)		24-874-16-5	Kit, piston w/ring set (.08)(2)
8	24-411-05-S	Rod, push (4)	7	24-108-05-S	Ring Set (Std.) (2)
ğ		Gasket, cylinder head (2)	8		Retainer, piston pin (4)
10	24-318-72-S		9		Shim, camshaft (A.R.)
11		Arm, rocker (4)		12-422-13-S	Shim, camshaft (A.R.)
12		Pivot, rocker arm (4)		12-422-07-S	Shim, camshaft (A.R.)
13	M-640034-S	Screw, hex. flange		12-422-08-S	Shim, camshaft (A.R.)
		M6x1.0x34 (4)			Shim, camshaft
14	24-072-09-S	Stud (8)		12-422-11-5	Shim, camshaft (A.R.)
15		Washer, flat (8)	40	24-012-10-S	Shim, camshaft (A.R.)
16 17		Nut, hex. flange (8) Kit, valve cover - plain	10 11 12	52-139-09-S	Plus cup
	24-700-74-0	(Includes 18, 19)	12	M-545010-S	Screw, hex. flange
18	24-153-16-\$				M5x0.8x10 (2)
19	24-086-32-S	Screw, shoulder (4)	13		Retainer, reed (2)
20	24-445-01-\$	Strap, lifting	14		Reed, breather (2)
21	24-016-01-S	Valve, exhaust (Std.) (2)	15	12-153-01-S	O-Ring, lower oil fill tube
		Valve, exhaust (.25) (2)	16	12-123-04-S	Bracket, oil fill tube
22	24-017-01-5	Valve, Intake (Std.) (2) Valve, Intake (.25) (2)	17 18	M-545016-S	Screw, hex. flange
23	24-017-02-3	Seal, valve stem (2)		111-0-700 10-0	M5x0.8x16
24	235011-S	Retainer, spring (4)	19	12-153-02-S	O-Ring, upper oil fill tube
25		Spring, valve (4)	20	24-038-04-S	Dipstick assembly (Includes
26		Cap, valve spring (4)			21, 22)
27	12-755-03-S	Kit, retainer (4)	21		Kit, oil fill cap (Includes 22)
28		Head assembly, #1 cylinder	22		O-Ring, dipstick
29	24-755-76-S	Kit, valve cover - breather	23	24-018-09-5	Retainer, ring
	05 040 00 0	(Incl.18, 19, 30)	24 25		Washer, nylon (top)
30 31		Grommet, rubber	26	28-032-09-S	Seal, governor cross shaft Washer (bottom)
31	24-755-57-S	Kit, breather separator (Includes 30, 32-35)	27		Shaft, governor cross
32	M-545016-S			24 111 00 0	Origin, got times cross
U.E.	MI-0-700 10-C	M5x0.8x16 (2)	NOT	E: All compon	ent dimensions given in U.S.
33	24-445-02-S	Strap, breather		s 1 Inch = 25.	
34	24-126-44-S	Bracket, breather separator			
35	24-112-12-S	Spacer			
36	24-294-06-S				
37		Hose, breather			
38 39		Hose, breather Clamp, hose (2)			
20	20-201-14-0	Cidnip, 1036 (2)			

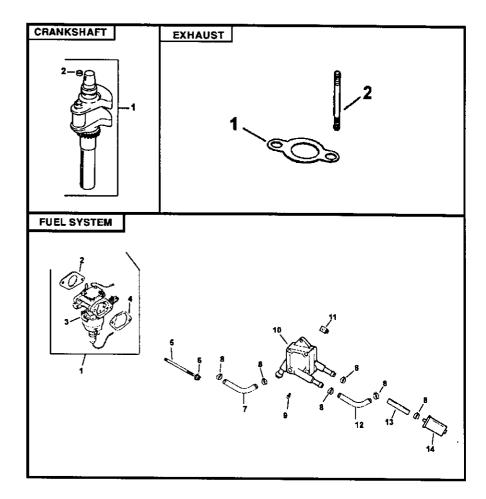


IGNIT	ION/CHARGIN	IG	BLOWER HOUSING & BAFFLES		
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	54-755-15-S	Kit, grass screen (Includes 2-4, and 24 113	1		Housing, blower (includes 2-4)
2	M-403025-S	18-S) Screw, hex. cap M4x0.7x25 (4)	2 3 4	24-100-01-S 24-100-02-S 25-139-16-S	Nut, plastic (3) 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	
5	25-086-47-S 24-157-03-S	Bolt, shoulder (4)	6	M-545016-S	Screw, hex. flange M5x0.8x16 (2)
7		Screw, hex. flange M10x1.5x46	7	M-551016-S	
8 9	12-468-03-S X-42-15-S	Washer, plain 3/8" Key	8	M-645016-S	M6x1.0x16 (6)
10 11	24-025-14-S	Flywheel Rectifier-regulator	9 10	24-146-19-S	Plate, backing - # 2 side Plate, backing - # 1 side
12	X-25-92-S	Washer, plain 3/16" (2)	11	24-063-39-S	
13	24-086-18-S	Screw, phillips hd. 11-16x7			side
14	236602-S	8 (2) Connector (3 contact)	12 13	24-063-14-S	Baffle, valley - #2 side Baffle, cylinder barrel-# 1
15	12-132-06-S		13	24-003-31-3	side
16	54-755-09-S	Kit, 15 amp stator	14	24-063-23-S	Baffle, valley - #1 side
47	04 400 74 6	(Includes 17)	15	M-545010-S	Screw, hex. flange
17 18	24-126-71-S M-548025-S	Bracket, stator wire Screw, hex. cap M5x0.8x25			M5x0.8x10 (2)
10	141-0-46020-0	(2)	NOT	ILLUSTRATED	•
19	47-154-01-S	Člip, cable		24-096-66-S	
20	48-154-02-S			24-086-06-S	Screw, phillips hd. 11-16x3/
21 22	X-25-63-S 24-584-15-S	Washer, plain 1/4" Module, ignition (2)			4" (2)
23	M-561025-S	Screw, hex flange M5x0.8x25 (4)	AIR I	NTAKE/FILTRA	NON
24	M-448010-S	Screw, hex. cap M4x0.7x10 (2)	KEY NO.	PART NO.	DESCRIPTION
25	24-584-09-S		4	24 464 06 6	titoničniai intolog
26 NOT	24-063-27-S ILLUSTRATED	Baffle, heat shield	1 2	24-164-06-S M-651055-S	Screw, hex. flange
NOI	X-22-11-S	Washer, lock 1/4"	3	24-041-01-8	M6x1.0x55 (4) Gasket, intake manifold (2)
		Harness, wiring	4	24-041-14-S	
		Lead, black (rectreg. 5"-12	5	24-094-18-8	
	04 540 40 0	gauge	6 7		Gasket, fuel spit-back cup
	24-516-12-5 24-113-18-S	insulated grip barrel eyelets) Decal, grass screen	8	24-109-09-S 24-083-05-S	
		Tie, wire (3)	9	24-083-03-\$	
		4-7	10	231032-S	Seal, breather
			11	24-096-01-\$	Cover, inner air cleaner
			12	12-100-01-\$	Wing Nut
			13	24-096-73-S	•
			14	54-755-01-8	Kit, knob with seal (Includes 15, 16)
			15	25-341-03-S	Knob, cover
			16	24-153-20-8	O-Ring
			17	24-063-51-S	Baffle, splt-back cup

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

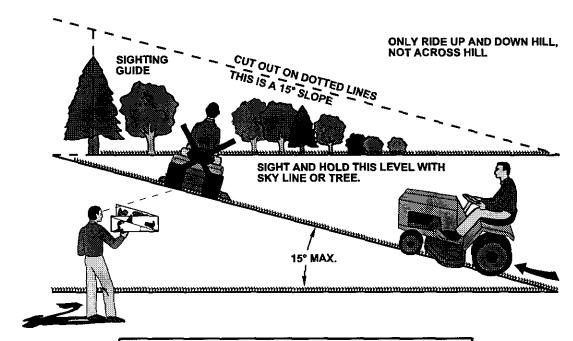


STARTING SYSTEM				OIL PAN/LUBRICATION		
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	
1	M-839080-S	Screw, hex. flange M8x1.25x80 (2)	1	M-645025-S	Screw, hex. flange M6x1.0x25 (2)	
2	25-098-08-\$	Starter, solenoid shift assembly (Includes 4-7)	2 3	M-631005-S 24-755-59-S		
3 4	25-435-04-S	Nut, hex. flange Kit, solenoid	4	24-393-08-8	(Includes 4-11) Oil pump assembly	
5 6	25-755-33-S 25-141-05-S	Kit, pinion drive (Includes 6) Ring	5 6	24-123-05-S 24-162-26-S	(includes 5) Tube, oil pickup	
7	25-221-01-S	Kit, drusn	7		Kit, governor gear w/pin (includes 8)	
ENGINE CONTROLS			8 9	52-448-02-S		
KEY		DESCRIPTION	10 11	12-144-02-S	Shaft, governor gear Gasket, oil pan	
NO.	NO.		12	24-422-03-S	Shim, thrust	
1	24-211-03-S	Bolt, round head square neck	13		Screw, hex. cap M6x1.7x18 (2)	
2	24-090-33-S	Lever, governor Nut, hex. flange M6x1.0	14 15		Nut, plastic (2) Kit, alum base oil cooler	
4	24-089-01-S	Spring, linkage		24 504 00 6	(Includes 16-20) Cooler assembly, oil	
2 3 4 5 6 7	24-079-04-S	Bushing, linkage retaining Linkage, throttle	16	_	(Includes 17, 18)	
7 8	25-158-11-S M-545016-S	Bushing, throttle linkage Screw, hex, flange	17 18	24 237 03-S 24 326 15-S	Clamp, oil cooler hose (4) Hose, oil cooler (2)	
=		M5x0.8x16	19 20	24-153-13-S	O-Ring Nipple, oil filter	
9 10	24-089-03-S	Nut, hex. lock M5x0.8 Spring, choke return	21	52-050-02-S	Filter, oil	
11 12		Bracket, control Screw, hex. flange	22 23	52-032-08-S	Plug, hex. ctsk. 3/8" Seal, oil (PTO end)	
		M6x1.0x16 (4) Clamp, cable (2)	24	24-086-17-S	Screw, hex. flange M8x1.25x45	
13 14	24-086-43-S	Screw, thread forming (2)	25	24-086-16-S	Screw, hex. flange M8x1.25x45 (9)	
15 16	X-20-1-S	Lever, throttle actuator Washer, lock 1/4"	26	25-139 - 57-S	Plug, sq. hd. solid 3/8" N.P.T.F.	
17 18		Nut, hex. flange M5x0.8 Washer, plain 5.5 mm (3)				
19 20	24-089-45-S M-446030-S	S Spring, governor Nut, hex. M4x0.7	NOT	ILLUSTRATE 24-113-25-S	D Decal, oil cooler	
21	24-090-13-8	Lever, throttie control	NO	FE: All compor	nent dimensions given in U.S.	
22		Screw, hex. flange M5x0.8x20	inch	es 1 inch = 25.	4 mm	
23 24		S Spring, throttle limiter S Lever, choke				
25	41-468-03-5	Washer spring 1/4"				
26 27	24-079-05-5	Screw, hex. cap M4x0.7x25 Linkage, choke				



			FUEL SYSTEM			
CRANKSHAFT						
KEY PART NO. NO.	DESCRIPTION	KEY NO.		DESCRIPTION		
		1	24-853-81-S			
	2-S Crankshaft (Includes 2) 3-S Plug, cup	2 3	24-041-15-S 24-053-27	Carburetor assembly		
EXHAUST				(For information only not available separately)		
KEY PART NO. NO.	DESCRIPTION			(Service with: 24-234-02-S, 24-757-18-S,24-757-19-S, 24-757-20-S, 24-757-21-S, 24-757-22-S)		
	2-S Gasket, exhaust (2) 1-S Stud M8x1.25x33 (4)	4 5 6 7	M-629095-S M-641060-S	Gasket, air cleaner base Stud M6x1.0x95 (2) Nut, hex. flange M6x1.0 (2)		
PA-69551 24-522-2 24-782-23	19 Short Block	6 9 10	25-237-14-S 24-086-12-S	Line, fuel 13-1/2" Clamp, hose (6) Screw, hex. cap M6x1.7x18 (2) Pump, fuel - pulse		
24-783-1	13-3 Gasket Get	11 12 13 14	24-100-01-S 24-353-03-S	Nut, plastic (2) Line, fuel 10 5/8" Line, fuel 11-1/2"		
			NOT ILLUSTRATED			
			24-234-02-S 24-757-18-S 24-757-19-S 24-757-20-S 24-757-21-S 24-757-22-S	Chamber, float bowl Kit, overhaul w/gaskets Kit, choke repair w/gaskets Kit, gasket Kit, accelerator pump w/ gaskets		
			inches 1 inch = 25.4 mm			

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