Owner's Manual

CRAFTSMAN

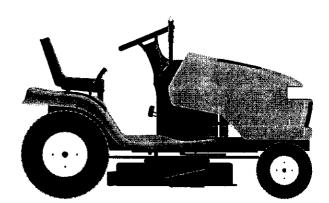
LIMITED EDITION

17.5 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR



Model No. **917.272220**

- 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 Line5 am - 5 pm, Mon - Sat

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

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WARRANTY

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

This Warranty does not cover:

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

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. Warranty service is available free of charge by taking your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States. To locate the nearest sears service center or to schedule in-home warranty service, simply contact sears at 1-800-4-my-home

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

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

SAFETY RULES

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

GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- · Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone.
 Do not operate the mower without either the entire grass catcher or the guard in place.
- · Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- · Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

SLOPE OPERATION

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

DO:

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

DO NOT:

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

CHILDREN

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

SAFETY RULES

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

SERVICE

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

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











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

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

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SAFETY RULES

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

A 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 pos-

sible 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

3.5 GALLONS
UNLEADED
REGULAR
SAE 10W30
(ABOVE 32°F)
SAE 5W-30
(BELOW 32°F)
W/FILTER: 4.5 PINTS
W/O FILTER: 4.0 PINTS
CHAMPION RC12YC
INTAKE: .004"006"
EXHAUST: .004"006"
FORWARD: 0-5.5
REVERSE: 0-2.4
FRONT: 14 PSI
REAR: 10 PSI
15 AMPS @ 3600 RPM
AMP/HR: 30
MIN. CCA: 240
CASE SIZE: U1R
27-35 FT. LBS.

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

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center. We have competent, well-trained technicians

and the proper tools to service or repair this tractor.

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

REPAIR AGREEMENT

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

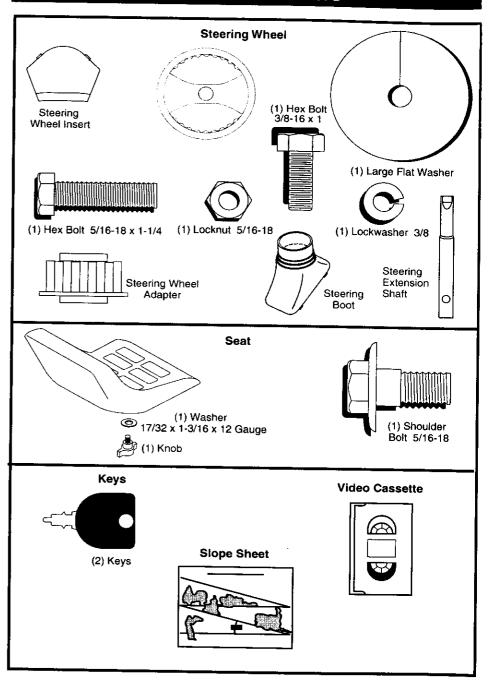
CUSTOMER RESPONSIBILITIES

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

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

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

UNASSEMBLED PARTS



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 1/2" wrench
- (1) Pliers
- (1) Utility knife (1) 9/16" wrench
- (1) Tire pressure gauge

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

TO REMOVE TRACTOR FROM CARTON UNPACK CARTON

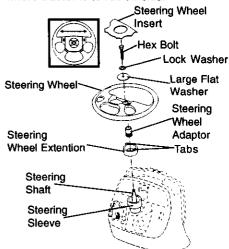
- Remove all accessible loose parts and parts boxes from shipping carton.
- Cut, from top to bottom, along lines on all four corners of shipping carton, and lay panels flat.
- Check for any additional loose parts or boxes and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

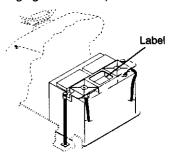
- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide the steering sleeve over the steering shaft.
- Align tabs and press steering sleeve extension into bottom of steering wheel.
- Position steering wheel so cross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

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



HOW TO SET UP YOUR TRACTOR CHECK BATTERY

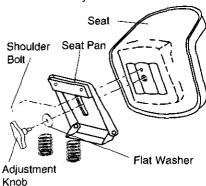
- · Lift hood to raised position.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in MAINTE-NANCE section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

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



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

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

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

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

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

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

INSTALL MULCHER PLATE (If previously removed)

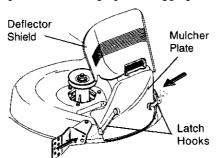
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

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

TO CONVERT TO BAGGING OR DISCHARGING

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

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



CHECK TIRE PRESSURE

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

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

CHECK MOWER LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

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

OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT





FUEL



CHOKE





MOWER HEIGHT PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



ATTACHMENT **CLUTCH ENGAGED**



NEUTRAL REVERSE



HIGH

LOW



PARKING BRAKE



IGNITION



ATTACHMENT **CLUTCH DISENGAGED**









KEEP AREA CLEAR





FREE WHEEL

(Automatic Models only)

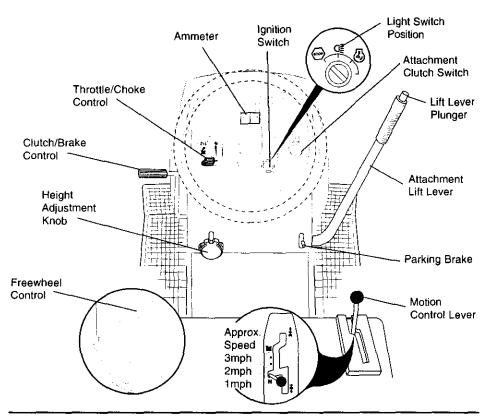


DANGER, KEEP HANDS AND FEET AWAY

KNOW YOUR TRACTOR

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

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



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

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

LIGHT SWITCH: Turns the headlights on and off.

THROTTLE/CHOKE CONTROL - Used for setting and controlling engine speed. CLUTCH/BRAKE PEDAL: Used for declutching and braking the tractor and starting the engine.

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

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

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

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

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

IGNITION SWITCH: Used for starting and stopping the engine.

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

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



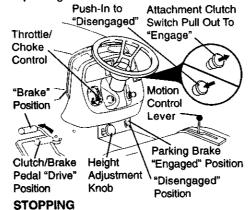
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

 Depress clutch/brake pedal into full "BRAKE" position and hold.

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



MOWER BLADES -

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

GROUND DRIVE -

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

IMPORTANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

ENGINE -

 Move throttle control to slow position.
 NOTE: Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.
 IMPORTANT: Leaving the ignition switch in any position other than "OFF" will cause the battery to be discharged, (dead).

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

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 bagging and mower performance.

TO MOVE FORWARD AND BACKWARD

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

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

TO ADJUST MOWER CUTTING HEIGHT

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

- Turn knob clockwise (

) to raise cutting height.
- Turn knob counterclockwise (
) to lower cutting height.

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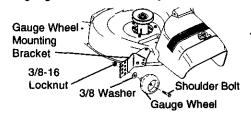
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

TO ADJUST GAUGE WHEELS

Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

- Adjust gauge wheels with tractor on a flat level surface.
- Adjust mower to desired cutting height (See "TO ADJUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer, and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

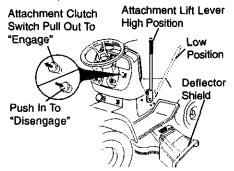


TO OPERATE MOWER

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

- Select desired height of cut.
- Lower mower with attachment lift control.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.

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. Use the slope guide provided at the back of this manual.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

IMPORTANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

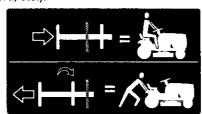
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

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

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

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



TOWING CARTS AND OTHER ATTACH-MENTS

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

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with tractor on level ground.
- Unthread and remove oil fill cap/dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

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

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

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

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

TO START ENGINE

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

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISEN-GAGED" position.
- Move throttle control to choke position.

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

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

WARM WEATHER STARTING (50° F and above)

- When engine starts, move the throttle control to the fast position.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F and below)

 When engine starts, allow engine to run with the throttle control in the choke position until the engine runs roughly, then move throttle control to fast position. This may require an engine warmup period from several seconds to several minutes, depending on the temperature.

AUTOMATIC TRANSMISSION WARM UP

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

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

PURGE TRANSMISSION

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

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

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

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

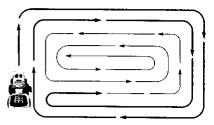
NOTE: During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

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

Slowly move motion control lever forward; after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.

MOWING TIPS

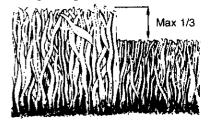
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle
 when mowing to assure better mowing
 performance and proper discharge of
 material. Regulate ground speed by selecting a low enough gear to give the
 mower the best cutting performance as
 well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.



MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet.
 Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades. For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



MAINTENANCE

AS	MAINTENANCE SCHEDUL IL IN DATES YOU COMPLETE GULAR SERVICE	.E	EFORE'S	VERY 8	HOURS HOURS	THOUR'S SHOUR'S	HOUR VERY	S HOUP NO HOUP VERY SE	ASON FORE	SER	/ICE	DATES	s
	Check Brake Operation	1	~										٦
	Check Tire Pressure	V	1									$\neg \vdash$	٦
_	Check Operator Presence and Interlock Systems	V											1
R	Check for Loose Fasteners	1			<u> </u>	V		V					٦
ΙÀ	Sharpen/Replace Mower Blades			1/4									٦
7	Lubrication Chart		I	/				1					٦
o	Check Battery Level			1 6									1
R	Clean Battery and Terminals			1				~					1
	Check Transaxle Cooling		I	1		<u> </u>]
	Adjust Blade Belt(s) Tension		I			√ 5]
	Adjust Motion Drive Belt(s) Tension					√ 5]
	Check Engine Oil Level	~	1									T-	٦
	Change Engine Oil			12.3				1					1
lΕ	Clean Air Filter			1/2			Ĺ						
N	Clean Air Screen		Ι	1/2	L'''								\Box
Ģ	Inspect Muffler/Spark Arrester				1								
	Replace Oil Filter (If equipped)					1/12							
ÌΈ	Clean Engine Cooling Fins					1/2							
l	Replace Spark Plug		L.,,			1	1						
Ì	Replace Air Filter Paper Cartridge					1/2							
L	Replace Fuel Filter						/						

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions
- Replace blades more often when mowing in sainty soil
- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free battery
 7 Tighten front axle pivot bolt to 35 ft,-lbs, maximum.
- Do not overtighter

GENERAL RECOMMENDATIONS

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

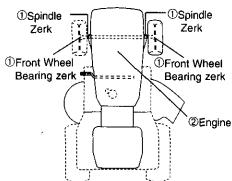
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

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

LUBRICATION CHART



- ①General Purpose Grease
- ②Refer to Maintenance "ENGINE" Section

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

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TRACTOR

Always observe safety rules when performing any maintenance.

BRAKĚ OPERATION

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

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

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

OPERATOR PRESENCE SYSTEM

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

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

BLADE CARE

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

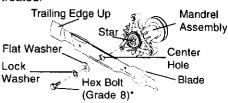
BLADE REMOVAL

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

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

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

IMPORTANT: Blade bolt is Grade 8 heat treated.



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

TO SHARPEN BLADE

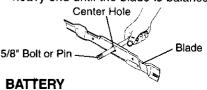
NOTE: We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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

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

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

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



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

19 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 AD-JUSTMENTS section of this manual).

V-BELTS

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

TRANSAXLE COOLING

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

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. 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.

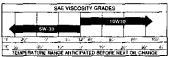
TRANSAXLE PUMP FLUID

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, SG, or SH. Select the oil's SAE viscosity grade according to your expected operating temperature.



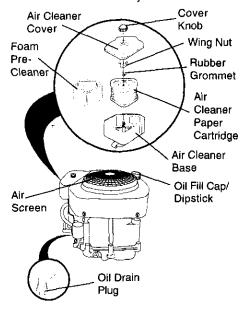
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Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick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

TO CHANGE ENGINE OIL

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

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

- · Remove knob and cover.
- Remove wing nut and air cleaner from base.

TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- · 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.

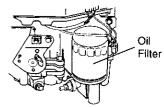
NOTE: Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge.

- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Reassemble air cleaner, wing nut, cover and tighten knob securely.

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.

- Drain oil from engine crankcase (See "TO CHANGE ENGINE OIL" in this section of this manual, through step remove drain plug).
- Remove oil filter and wipe off filter adapter.
- Apply a thin coating of new engine oil to the rubber gasket on replacement oil filter.
- Install replacement oil filter on filter adapter. Turn oil filter clockwise until rubber gasket contacts the filter adapter, then tighten filter an additional 1/2 turn.
- Fill crankcase with new oil (See "TO CHANGE ENGINE OIL" in this section of this manual). For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
- Start the engine and check for oil leaks.
 Correct any leaks before placing engine into full operation.



MUFFLER

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

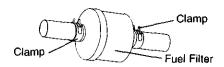
SPARK PLUGS

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

IN-LINE FUEL FILTER

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

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



CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.

Protect painted surfaces with automotive type wax.

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

SERVICE AND ADJUSTMENTS

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

TRACTOR

TO REMOVE MOWER

Mower will be easier to remove from the right side of tractor.

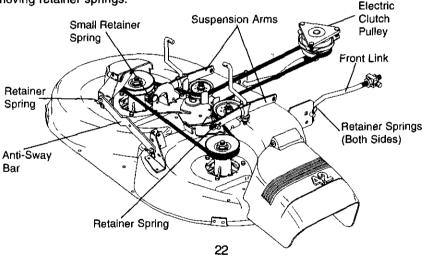
- Place attachment clutch switch in "DIS-ENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- · Roll belt off electric clutch pulley.
- Disconnect anti-sway bar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.

 Raise lift lever to raise suspension arms. Slide mower out from under tractor

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

TO INSTALL MOWER

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.



TO LEVEL MOWER HOUSING

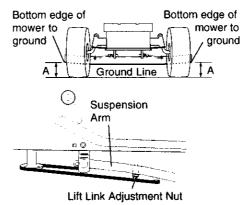
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS"). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT

- · Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

NOTE: Each full turn of adjustment nut will change mower height about 1/8".

· Recheck measurements after adjusting.



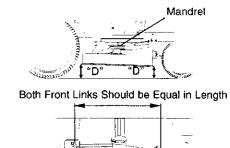
FRONT-TO-BACK ADJUSTMENT

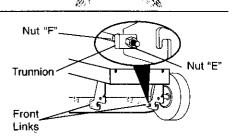
IMPORTANT: Deck must be level side-toside. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

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

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

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links.
 Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links.
- · Recheck side-to-side adjustment.





TO REPLACE MOWER BLADE DRIVE BELT

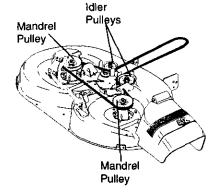
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual).
- Work belt off both mandrel pulleys and idler pulleys.
- · Pull belt away from mower.

BELT INSTALLATION -

- Install new belt in reverse order of removal.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower in reverse order of removal instructions.



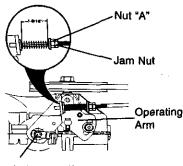
TO ADJUST BRAKE

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

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

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

With Parking Brake "Engaged"

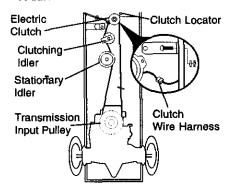


Do Not touch this nut. If further brake adjustment is necessary contact your nearest authorized service center/department

TO REPLACE MOTION DRIVE BELT

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- · Disconnect clutch wire harness.
- · Remove clutch locator.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Pull belt toward front of tractor and remove downwards from around electric clutch.
- Install new belt by reversing above procedure.



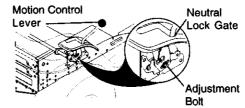
TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT

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

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

 NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

 After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:
- · Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- · Tighten adjustment bolt securely.
- Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.



TRANSMISSION REMOVAL/REPLACE-MENT

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

TO ADJUST STEERING WHEEL ALIGN-MENT

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

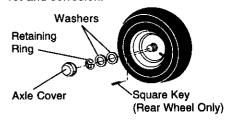
FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center.

TO REMOVE WHEEL FOR REPAIRS

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

NOTÉ: 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

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

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

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

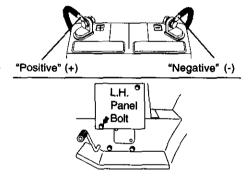
IMPORTANT: Your tractor is equiped with a 12 volt negative grounded system. The other vehical must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE OR-DER -

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

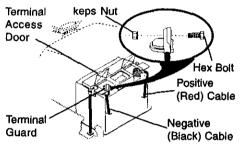


REPLACING BATTERY

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

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

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



TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

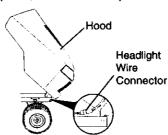
· Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

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

TO REMOVE HOOD AND GRILL AS-**SEMBLY**

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



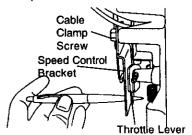
ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE

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

- · With engine not running, move throttle control lever from slow to choke position. Slowly move lever from choke to fast posi-
- · Check to see if hole in throttle lever and hole in speed control bracket are aligned.
- If holes are not aligned, loosen cable clamp screw and align the holes by inserting a pencil or a 1/4" drill bit through both holes.
- Pull throttle cable up to remove slack and tighten cable clamp screw. Remove alignment pencil or drill bit.



TO ADJUST CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows: In general, turning the adjusting needles in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture. IMPORTANT: Damage to the needles and

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

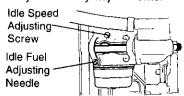
NOTE: The carburetor on this engine is low emission. It is equipped with an idle fuel adjusting needle with a limiter cap, which allows some adjustment within the limits allowed by the cap. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the adjusting needle.

- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- Start engine and allow to warm for five minutes. Make adjustments with engine running and shift/motion control lever in neutral (N) position.
- Idle speed setting With throttle control lever in slow position, engine should idle at 1750 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting With throttle control lever in slow position, turn idle fuel adjustment needle in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.

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

High speed stop is factory adjusted. Do not adjust - damage may result.

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



STORAGE

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

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

TRACTOR

Remove mower from tractor for winter storage. This will allow you to clean it thoroughly. Remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Maintenance section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

BATTERY

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

ENGINE

FUEL SYSTEM

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

Also, experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

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

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

ENGINE OIL

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

CYLINDER(S)

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

OTHER

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

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

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
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 an authorized service center/department.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty 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.

TROUBLESHOOTING CHART

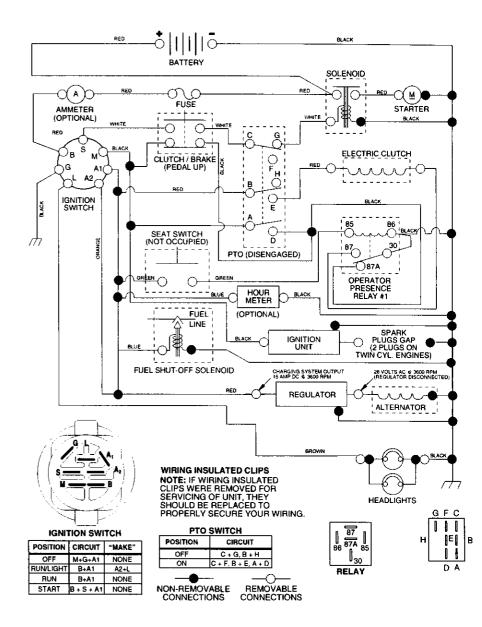
PROBLEM	CAUSE	CORRECTION
Loss of power Continued	Faulty spark plug.Dirty fuel filter.Stale or dirty fuel.	Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline.
	Water in fuel.	Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.
	Spark plug wire loose.Dirty engine air screen/fins.	Connect and tighten spark plug wire. Clean engine air screen/fins.
	Dirty/clogged muffler.Loose or damaged wiring.	Clean/replace muffler. Check all wiring.
	 Carburetor out of adjustment. Engine valves out of adjustment. 	See "To Adjust Carburetor" in Service Adjustments section Contact an authorized service center/department.
Excessive vibration	Worn, bent or loose blade.Bent blade mandrel.	Replace blade. Tighten blade bolt. Replace blade mandrel.
	Loose/damaged part(s).	Tighten loose part(s). Replace damaged parts.
Engine continues to run when operator leaves seat with attach- ment clutch engaged	 Faulty operator-safety presence control system. 	Check wiring, switches and connections. If not corrected, contact an authorized service center/department.
Poor cut - uneven	Worn, bent or loose blade.	Replace blade. Tighten blade bolt.
	 Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes.
Mower blades will not rotate	Obstruction in clutch mechanism. Worn/damaged mower drive	Remove obstruction. Replace mower drive belt.
	belt. • Frozen idler pulley. • Frozen blade mandrel.	Replace idler pulley. Replace blade mandrel.
Poor grass discharge	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.	Level mower deck. Check tires for proper air pressure.

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TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION		
Poor grass discharge (Contn)	 Worn, bent or loose blade. Buildup of grass, leaves, and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes.		
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s). Check/replace light switch. Check wiring and connections. Replace fuse. 		
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	Replace battery. Check/clean all connections. Replace regulator. Replace alternator.		
Loss of Drive	 Freewheel control in "disengaged" position. Motion drive belt worn, damaged or broken. Air trapped in transmission during shipment or servicing. 	 Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission. 		
Engine "backfires" when turning engine "OFF"	Engine throttle control at "SLOW" position for 30 seconds before stopping engine.	Move throttle control to not set "SLOW" position and allow to idle for 30 seconds before stopping engine.		

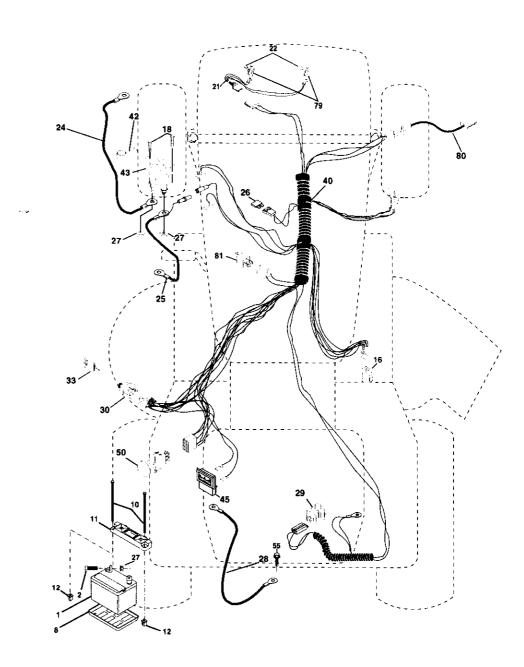
SCHEMATIC



REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.272220

ELECTRICAL

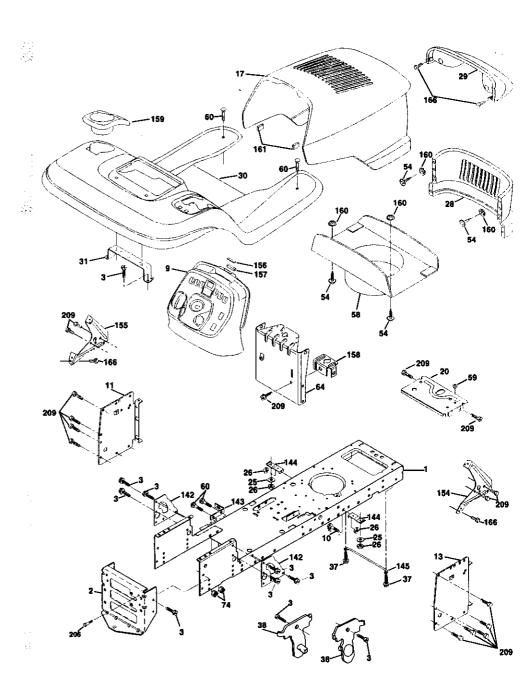


ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	163465	Battery
2	74760412	Bolt, Hex 1/4-20 x 3/4
8	7603J	Tray, Battery
10	145211	Bolf, Btr Front 1/4-20 x 7-1/2
11	150109	Holddown Battery Front Mount
12	145769	Nut, Push Nylon Battery Front 1/4
16	153664	Switch Interlock Push-In
18	17720408	Bolt Blk Fin Hex 1/4-20 UNC x 1/2
21	166184	Harness, Light
22	4152J	Light Bulb
24	8860R	Cable, Battery
25	146148	Cable, Battery
26	166180	Fuse
27	73510400	Nut Keps Hex 1/4-20 UNC
28	145491	Cable, Ground
29	160784	Switch, Seat
30	163968	Switch, Ignition
33	140403	Key, Molded, Craftsman
40	170233	Harness, Ignition
42	131563	Cover, Terminal
43	145673	Solenoid
45	122822X	Ammeter Rectangular 15 Amp
50	169416	Switch Pto 3 Pdt Red Delta
55	17490508	Screw Thdrol 5/16-18 x 1/2
79	163996	Socket, Light Bulb
80	146685	Harness Clutch EVX
81	109748X	Relay Asm

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

TRACTOR -- MODEL NUMBER 917.272220 CHASSIS AND ENCLOSURES

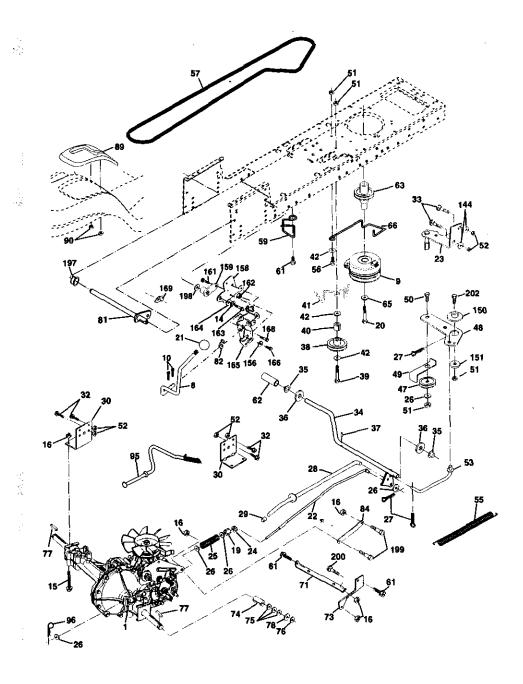


TRACTOR -- MODEL NUMBER 917.272220 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1	169830	Chassis
2	169061	Drawbar
3	17060612	Screw, 3/8-16 x 3/4
9	161566X614	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 1
11	167203	Panel, Dash, LH
13	167202	Panel, Dash, RH
17	161023X612	Hood Assembly
20	162026	Plate Battery STYT
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Locknut, Hex, with Insert 3/8-16 UNC
28	160564X612	Grille
29	174886	Lens, Grille
30	164919X612	Fender/Footrest
31	139976	Bracket, Fender/Support
37	17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38	169834	Bracket Asm Pivot Mower Rear
54	161464	Screw Hex Wshd 8-18 x 7/8
58	161236	Duct Hood
59	110436X	Bushing, Snap, Split
60	STD533707	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64	162025	DashLowerSTYT
74	STD541437	Nut Crownlock 3/8-16 UNC
142	165867	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	154207	Bracket Footrest STLT
145	156524	Rod Pivot Chassis/Hood
154 155	161897	Bracket Dash Rh Bracket Dash Lh
	161900	Striker Plate
156 157	163805 163806	Magnet YTGT
158	162037	Parking Brake Bkrt
159	155123X614	Cupholder Stl
160	162967	Fastner Nutpal
161	164655	Pinch-Welt Hood
166	164863	HWHDH:-Lo. #13-16 x 3/4
206	170165	Bolt Shoulder 5/16-18
200	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
203	174818	Plug. Button

-- 174818 Plug, Button

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



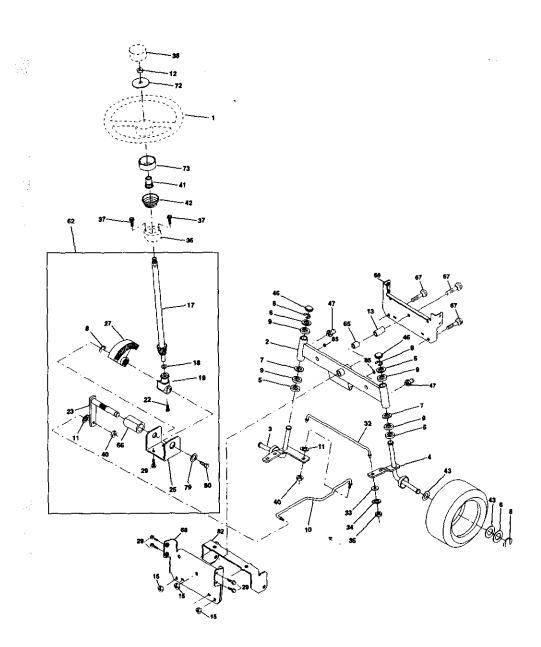
TRACTOR -- MODEL NUMBER 917.272220

GROUND DRIVE

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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown)	59	169691	Keeper, Center Span
		Hydro gear Model 314-0510	61	17060612	Screw 3/8-16 x 3/4
8	165866	Rod Shift Fender Adjust Lt	62	8883R	Cover, Pedal
9	145028	Clutch Elec Evx	63	145868	Pulley, Clutch
10	76020416	Pin Cotter 1/8 x 1 CAD	65	10040700	Washer
14	10040400	Washer Lock Hvy Helical	66	154778	Keeper Belt Engine
15	74490544	Bolt Hex Flghd 5/16-18 Gr. 5	71	169183	Strap Torque Lh
16	73800500	Nut Lock Hex W/Ins. 5/16-18	73	169182	Strap Torque Rh
40	70000000	Unc	74	137057	Spacer, Axle
19	73800600	Nut Lock Hex W/Wsh 3/8-16	75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
00	450000	Unc	76	12000001	E-Ring
20 21	150280 174779	Bolt Hex 7/16-20 x 4-1/4 5 Ga.	77	123583X	Key, Square
22		Knob, Deluxe 1/2-13	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
23	169498 171258	Rod, Brake Hydro	81	165596	Shaft Asm. Cross Tapered
23 24	73350600	Bracket Asm Clutch Mtg Nut, Hex Jam 3/8-16 Unc	82 83	165711	Spring Torsion T/A
25	106888X	Spring, Brake Rod	83 84	19171216	Washer 17/32 x 3/4 x 16 Ga.
26	19131316	Washer	89	169594	Link Transaxle
27	76020412	Pin Cotter 1/8 x 3/4 CAD.	90	164890X614	Console, Shift
28	145204	Rod, Parking Brake	95	124346X 170201	Nut Self-Thd Wsh-hd 1/4 Zinc
29	71673	Cap, Parking Brake	96	4497H	Control Bypass Retainer Spring 1" Zinc/Cad
30	169592	Bracket, Transaxle	144	19111016	Washer 11/32 x 5/8 x 16 Ga.
32	74760512	Bolt Hex Hd 5/16-18 Unc x 3/4	150	165850	Bushing Bellcrank Grd Drive
33	72140506	Bolt Rdhd Sqnk	151	19133210	Washer 13/32 x 2 x 10 Ga.
		5/16-18 Unc x 3/4	156	166002	Washer Srited 5/16ID x 1.125
34	155071	Shaft, Foot Pedal	158	165589	Bracket Shift Mount
35	120183X	Bearing, Nylon	159	165494	Hub Tapered Flange Shift Lt
36	19211616	Washer	161	72140406	Bolt Rdhd Sgnk 1/4-20 x 3/4
37	1572H	Pin, Roll			Gr 5
38	131494	Pulley, Idler, Flat	162	73680400	Nut Crownlock 1/4-20 Unc
39	74760644	Bolt	163	74780416	Bolt Hex Fin
40	4470J	Spacer, Split			1/4-20 Unc x 1 Gr 5
41	165838	Keeper, Belt Idler	164	19091010	Washer 5/8 x .281 x 10 Ga.
42	19131312	Washer 13/32 x 13/16 x 12	165	165623	Bracket Pivot Lever
		Gauge	166	166880	Screw 5/16-18 x .561
47	127783	Pulley, Idler, V-Groove	168	165492	Bolt Shoulder 5/16-18 x .561
48	154407	Bellcrank Clutch Grnd Drw Stl	169	165580	Plate Fastening Lt
49	123205X	Retainer, Belt	197	169613	Nyliner Snap-In 5/8" ID
50	74760624	Bolt	198	169593	Washer Nyl 7/8 ID x .105"
51	73680600	Nut Crownlock 3/8-16 UNC	199	169612	Bolt Shoulder 5/16-18 Unc
52 53	73680500	Nut, Crownlock 5/16-18 Unc	200	72140508	Bolt Rohd Sqnk 5/16-18 Unc x
55 55	105710X	Link, Clutch	202	72110612	Bolt Carr Sh 3/8-16 x 1-1/2 Gr.
55 56	105709X 74760620	Spring, Return, Clutch	NOTE	All component	dimensions alves in LLS inches
57	140294	Bolt Hex 3/8-16 x 1-1/4 V-Belt, Ground Drive	HOIE	1 inch = 25.4	dimensions given in U.S. inches
0,	170237	V-Dell, Glound Dave		. 11011 - 20.4	******

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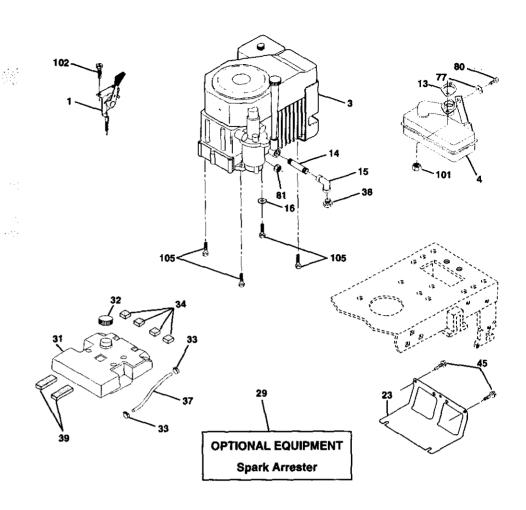


TRACTOR - - MODEL NUMBER 917.272220 STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	159944X614	Steering Wheel
2	154427	Axle Assembly STMP Dropped STL
3	169840	Spindle Assembly, L.H.
4	169839	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8	12000029	Ring, Klip
9	3366R	Bearing, Steering Column
10	169832	Draglink
11	STD551137	Washer, Lock
12	73940800	Nut Hex Jam Toplock 1/2-20 Unf
13	136518	Spacer Brg Axle Front
15 17	145212 156543	Nut Hexflange Lock
18	57079	Shaft Assembly, Steering Washer, Thrust .515 x .750 x .033
19	160395	Support, Shaft
22	165857	Screw Hex Wshhd Torx
23	165851	Pittman Shaft Assembly
25	154406	Bracket, Steering
27	136874	Gear, Sector
29	17060612	Screw, 3/8-16 x 3/4
32	171888	Rod, Tie
33	19111216	Washer 11/32 x 3/4 x 16 Ga/
34	STD551131	Washer Lock Hvy Spr. 5/16
35	73810500	Locknut 5/16-24 Únf
36	155105	Bushing, Steering
37	152927	Screw
38	159946X614	Insert, Steering Wheel
40	STD541537	Gripco Nut
41	159945	Adaptor, Steering Wheel
42	163888X614	Boot, Steering Shaft
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
46	121232X	Cap, Spindle
47	6855M	Fitting, Grease
62	167905	it Steering Asm Service
65	160367	Spacer Brace Axle
66	154404	Bearing Arm Pittman
67	72140618	Bolt Rdhd Sq 3/8-16 UNC x 2-1/4
68 72	169827	Axle, Brace Washer 9/16 ld x 1-1/2Od 11 G Zin
72 73	19182411	
73 79	160135X614 19132012	Steering Sleeve Extension
80	74950612	Washer 13/32 x 1-1/4 x 12 Ga
82	169835	Bolt Hex Nylon 3/8-16 x 3/4 Bracket Susp Chassis Front
85	133835	Fastner Christmas Tree
00	100000	i damei Cililatilida i lee

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

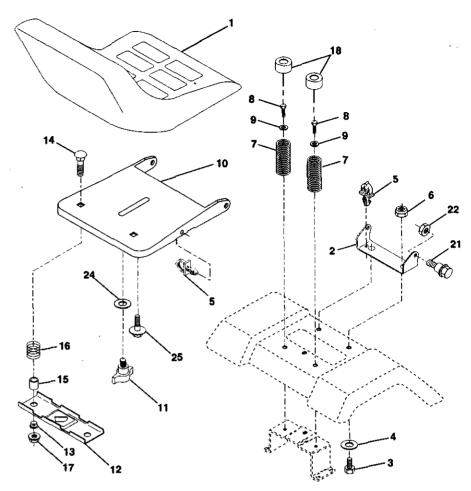
ENGINE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	164091	Control, Throttle/Choke	37	8543R	Line, Fuel
3		Engine, (See Breakdown) Kohler Model No. CV491-27501	38		Plug, Oil Drain (See Engine Breakdown)
4	174667	Muffler	39	109227X	Pad Idler 1.75 x .75 x .06
13	12-041-03	Gasket Kohler	45	17000612	Screw Hex Wsh Thdr
14	13280328	Nipple, Pipe 3/8 NPT x 3-1/2			3/8-16 x 3/4
15	13200300	Elbow, Standard 90°, 3/8-18	7 7	19101216	Washer 5/16 x 3/4 x 16 Ga.
		NPT	80	74760508	Bolt Hex Hd 5/16-18 Unc x 1/2
16	STD551237	Washer	81	73510400	Nut Keps Hex 1/4-20Unc
23	169837	Shield Brn/Dbr Guard	101	M73030800	Nut Flan-ge M8-1.25 Non-Lk
29	137180	Arrestor, Spark			Zinc
31	157103	Tank, Fuel	102	164863	Screw Hwhd Hi-Lo #13-16 x 3/4
32	161696	Cap, Fuel Gauge	105	17120616	Screw 3/8-16 x 1
33	123487X	Clamp, Hose	NOTE	: All component	dimensions given in U.S. inches
34	106082X	Pad Spacer 1 x 1 x 1 Blk		4 5-6 05 4	

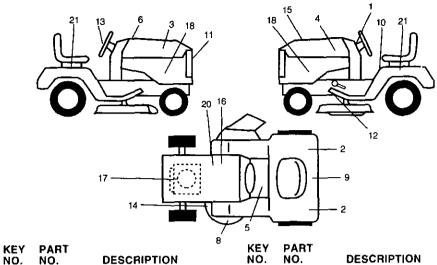
TRACTOR -- MODEL NUMBER 917.272220

SEAT ASSEMBLY



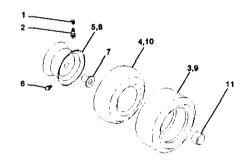
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	174785	Seat	14	72050412	Bolt, Carriage 1/4-20 x 1-1/2
2	140551	Bracket, Pivot, Seat	15	121249X	Spacer, Split
3	71110616	Bolt	16	123740X	Spring
4	19131610	Washer 13/32 x 1 x 10 Gauge	17	123976X	Locknut, Flange 1/4 Grade 5
5	145006	Clip, Push-In Hinged	18	124238X	Cap Spring Seat
6.	STD541437	Nut	21	171852	Bolt, Shoulder 5/16-18 UNC
7	124181X	Spring, Seat	22	STD541431	Nut
8	17000616	Screw 3/8-16 x 1-1/2	24	19171912	Washer 17/32 x 1-3/16 x 12
9	19131614	Washer 13/32 x 1 x 14 Gauge			Gauge
10	155925	Pan, Seat Emboss QCK Conn.	25	127018X	Bolt, Shoulder 5/16-18 x .62
11 12 13	166369 121246X 121248X	Knob Seat Bracket, Switch Mounting Bushing, Snap	NOTE:	All component 1 inch = 25.4	dimensions given in U.S. inches mm

DECALS



NO.	NO.	DESCRIPTION	ÑŌ.	NO.	DESCRIPTION
1	174868	Decal, Dash, Stealth	15	174899	Decal Replc
2	106202X	Reflector Tail Light	16	138047	Decal, Battery Diehard
3	174860	Decal, Hood, R.H.	17	171736	Decal, Hp Engine
4	174861	Decal, Hood, L.H.	18	174864	Decal, Panel Side
5	164088	Decal Brake Clutch Stealth	20	149516	Decal, Battery Dngr/Psn Eng
6	133644	Decal, Customer Maintenance	21	163205	Decal, Fender Side
8	172331	Decal, Mower Heavy Duty		138311	Decal, Lift Handle
9	163204	Decal, Fender, Craftsman		165800X614	Pad Footrest LH STLT
10	156439	Decal, Fender Danger		165799X614	Pad Footrest RH STLT
11	174865	Decal, Grille		169210	Decal, By Pass Lt Hydro
12	146046	Decal, V-Belt Drive Schematic		174747	Owner's Manual, English
13	174866	Decal Strg Wheel		174748	Owner's Manual, Spanish
14	160396	Decal, V-Belt Schematic			

WHEELS & TIRES

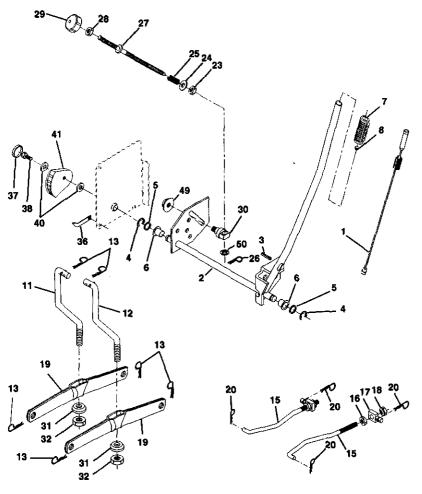


KEY NO.	PART NO.	DESCRIPTION
1	59192	Valve Cap, Tire
2	65139	Stem, Valve
3	170455	Tire, Front
4	59904	Tube, Front Tire
	16	(Not Provided, Service Item Only)
5	106732X612	Rim, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X612	Rim, Rear
9	170456	Tire, Rear
10	7152J	Tube, Rear Tire
		(Not Provided, Service Item Only)
11	104757X612	Cap, Axle
	144334	Sealant, Tire 10 oz.

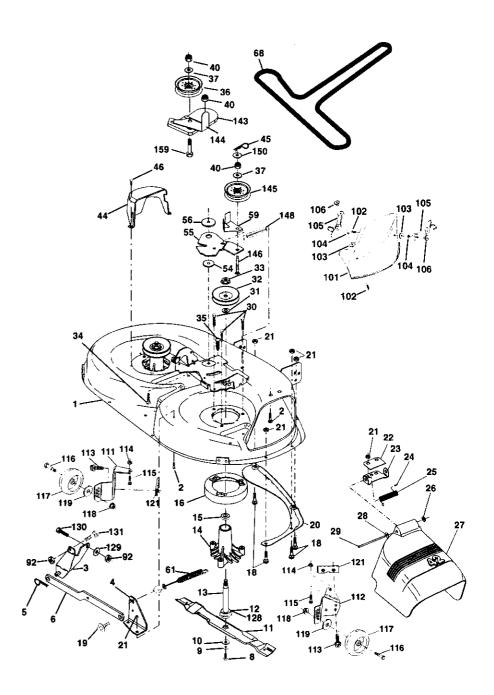
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 917,272220

LIFT ASSEMBLY



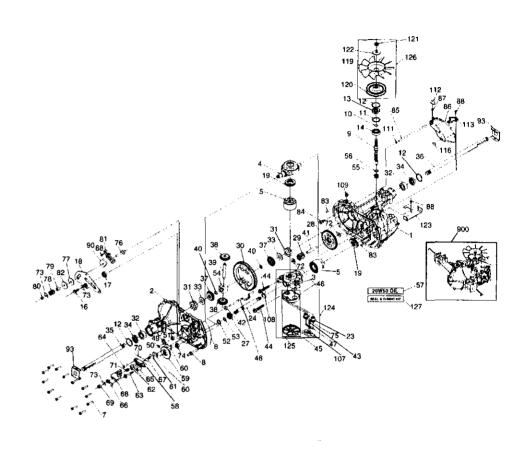
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	159461	Lift Lever Inner Wire Assembly	24	19131016	Washer 13/32 x 5/8 x 16 Ga.
2	159476	Shaft Assembly, Lift	25	164024	Spring Comp Infinite
3	138284	Pin, Groove	26	169484	RetainerClip
4	12000002	E-Ring	27	164543	Rod Adj Lift Zinc
5	19211621	Washer 21/32 x 1 x 21 Gauge	28	73350600	Nut Hex Jam 3/8-16 unc
6	120183X	Bearing, Nylon	29	138057	Knob Infin 3/8-16 und Bik Sym
7	125631X	Grip, Handle, Fluted	30	150233	Trunnion Infin Height
8	122365X	Button, Plunger, Red	31	169865	Bearing, Pvt, Lift
11	139865	Link, Lift, L.H.	32	73540600	Nut, Crownlock 3/8-24
12	139866	Link, Lift, R.H.	36	155097	Pointer Height Indicator
13	4939M	Retainer Spring	37	123935X	Plug Hole
15	173288	Link, Front	38	17060516	Screw 5/16-18 x 1
16	73350800	Nut, Hex, Jam 1/2-13 UNC	40	19112410	Washer 11/32 x 1-1/2 x 10 Ga
17	130171	Trunnion	41	155098	Indicator Height Stit
18	73800800	Nut Lock w/wsh 1/2-13 UNC	49	145212	Nut Hex/Large Lock
19	139868	Arm, Suspension, Rear	50	110452X	Nut Push Phos & Oil
20	163552	Retainer Spring	NOTE	· All componen	t dimensions given in U.S. inches
23	110807X	Nut Special		1 inch = 25.4	



TRACTOR -- MODEL NUMBER 917.272220

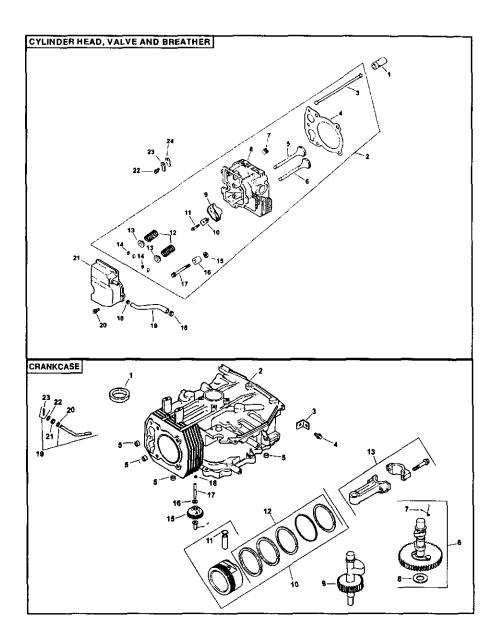
MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165892X613	Mower Deck Assembly, 42"	55	155046X613	Arm, Idler
2	STD533107	Bolt	56	122052X	Spacer, Retainer
3	138017	Bracket Assembly, Sway Bar,	59	173442	Guard, TUV Idler
		Front	61	174882	Spring Ext Elect Clutch 42"
4	165460X613	Bracket Sway Bar 38/42" Deck	68	144959	Dck V-Belt
5	STD624008	Retainer Spring	101	136420	MulcherCover
ő	130832X431	Arm, Suspension, Rear	102	71081010	Screw
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	103	19061216	Washer #10
9	STD551137	Washer, Lock	104	STD551110	Washer, Lock
10	140296	Washer, Hardened	105	160793	Latch Assembly, Bagger
11	134149	Blade, Mulching	106	2029J	Nut, Weld
12	129895	Bearing, Ball	111	155197X613	Bracket, Gauge, Wheel L.H.
13	137645	Shaft Assembly, Mandrel,	112	155198X613	Bracket, Gauge, Wheel R.H.
		Vented (Includes Key	113	17060514	Screw Tapping 5/16-18 Unc
		Number 12)	114	STD541431	Nut, Hex, Keps 5/16-18 UNC
14	128774	Housing, Mandrel, Vented	115	72110504	Bolt, Carriage 5/16 UNC x 1/2
15	110485X	Bearing, Ball, Mandrel	116	4898H	Bolt, Shoulder
16	140329	Stripper, Vented Mower Deck	117	165746	Wheel, Gauge
18	72140505	Bolt, Carriage 5/16-18 x 5/8	118	73930600	Nut, Centerlock 3/8-16
19	132827	Bolt, Shoulder	119	STD551037	Washer 3/8 x 7/8 x 14 Gauge
20	159770X431	Baffle, Vortex	121	173986	Bracket
21	STD541431	Nut Crownlock 5/16-18 UNC	125	76020816	Pin Cotter 1/4 x 1 Plated
22	134753X613	Stiffener Bracket	128	153390	Washer Felt Page 1985
23	131267X613	Bracket, Deflector	129	19131312	Washer 13/32 x 13/16 x12 Ga.
24	105304X	Cap, Sleeve	130	STD523710	Bolt, Fin Hex 3/8-16 UNC x1
25	123713X	Spring, Torsion, Deflector			Gr. 5
26	110452X	Nut, Push	131	STD533710	Bolt, Rdhd Sqnk 3/8-16UNCx 1
27	130968X428	Shield, Deflector	143	157109X613	Bracket Arm Idler 42"
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	144	173441	Keeper Belt 42" Clutch Cable
29	131491	Rod, Hinge	145	173437	Pulley Idler Flat
30	157722	Screw Thdrol Washer Head	146	173443	Bolt Carriage Idler
31	129963	Washer, Spacer	148	169022	Spring Return Idler
32	173436	Pulley, Mandrel	149	165898	Retainer Spring Yellow Zinc
33	137266	Nut, Toplock, Flanged	150	19091216	Washer 9/32 x 3/4 x 16 Ga.
34	STD533717	Bolt Christman Trans	159	72140614	Bolt Ridhd Sqn
35	133835	Fastner, Christmas Tree		100704	3/8-16 UNC x 1- 3/4
36	173438	Pulley, Idler, Flat		130794	Mandrel Assembly (includes
37	STD551037	Washer 13/32 x 13/16 x 16			Key Numbers 8-10, 12-15, 31
40	CTD641407	Gauge		174872	and 32)
40 44	STD541437 140088	Nut Crownlock 3/8-16 UNC Guard, Mandrel, L.H.		1/40/2	Mower Deck, Complete (Standard Deck, Order
45	STD624003	Retainer			Separately Mulcher Plate and
45 46	137729	Screw, Thd. Roll 1/4-20 x 5/8			Gauge Wheel Components,
49	155066	Roller Assembly, Cam Follower			Key Nos. 101-106 and 111-
50	131340	Bolt, Shoulder #10-24 Gr. 5			121)
51	STD541410	Locknut	NATE	. All	· •
54	133943	Washer, Hardened	NOIE	: All componen 1 inch = 25.4	t dimensions given in U.S. inches mm



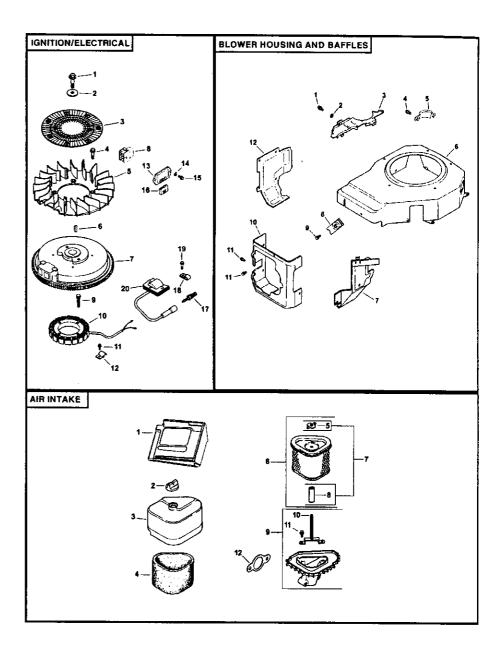
TRACTOR -- MODEL NUMBER 917.272220 HYDRO GEAR TRANSAXLE -- MODEL NUMBER 314-0510

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170351	Main Housing, Assembly	59	170408	Rotor, Brake
2	170352	Side Housing, Assembly	60	142883	Brake Puck
3	170353	Center Section, Assembly	61	142881	Puck Plate
4	170354	Swashplate, Trunion Machined	62	142887	Brake Actuating Pin
5	169898	Block - Assembly	63	1 704 10	Hfhcs 1/4-20x2 W/
6	170355	Sealant 10.5 Oz			Patch,SpecialFlange
7	170356	Hex Flange Screw	64	142892	Bolt, 1/4-20 X 1 W/Patch
		1/4-20 X 1.25	65	170411	Spacer
8	170357	Stud, 5/16-24 Hex Double End	66	170412	Spring, Brake Arm Bias
9	170358	Shaft, Input	67	170413	Sq. Hd. Bolt 5/16-24-Ribbed
10	170359	Ring - Retaining	68	170414	Arm, Brake
11	170360	Spacer	69	170415	Slotted Hex Nut 5/16-24
12	169870	Ring-Retaining	70	170416	Cotter Pin 3/32 X 3/4
13 14	170361 169869	Seal, Lip .67 X 1.58 X .276 Ball Brg 17mm ld X 40mm Od	71	170417	Compression Spring Brake Anti-Drag
16	170362	X 12mm	72	170418	Washer, Ht
10		Hex Flange Head Screw 5/16-24X0.75	73	142884	.5 I.D. X 1 O.D. X .032 Flat - Washer 11/32 i.D. X 7/8
17	170363	Lip Seal 18 X 32 X 7			O.D
18	170364	Arm, Control	74	170419	Oil Seal .625 X 1.0 X .25
19	150771	Bearing, 30x52x13 Thrust	75	170420	Check Plug Assembly, .027,
23	170365	Check Plug Assembly, Washer			Washer
24	170366	Shaft, Motor	76	170421	Stud, 5/16-24 Friction Pack
27	170367	Gear - Pinion, 13t	77	170422	Puck, .330 X 1.50 X .0975
28	170368	10t/48t Gear	78	142969	Spring, Helical Comp
29	170369	Gear, 10t Jackshaft	79	142980	Spacer
30	170370	60t Bull Gear	80	150778	Hex Lock Nut
31	170371	Sleeve Bearing	0.4	470400	5/16-24Unjf(Nylon Insert)
32	170389	.75 X 1.575 X .625 SleeveBearing(Outboard)	81 82	170423 170424	Wedge, Friction Pack Clip, Washer .316x1.50x.1046
		.75x1.750x.625			(Plated)
33	142991	Washer,	83	161162	Pin, Standard Headless
		3/4 id X 1-1/2 Od X .13 Thk	84	170425	Fitting, 5/16 Sae 5/32 Tube
34	170390	Lip Seal Axle Seal	85	170426	Hose, Expansion Tank
35	170391	Shaft, Axle .75 X 11.39 (Key,	8 6	170427	Expansion Tank
	470000	R.H.)	87	170424	Cap - Poppet Valve
36	170392	Shaft, Axle .75 X 16.99 (Key,	88	170429	Bolt, Self Tapping 10-32 X 1/2
		L.H.)	90	170430	Puck, Inner Wedge
37	150792	Miter Gear (Splined)	93	170431	Spring Clip - Housing Thrust
38	150793	Miter Gear 15t (0.5 td)	107	170432	Deflector
39	150809	Shaft	108	170433	Washer, Motor Shaft
40	170393	Ring, Spiral Retaining	109	170434	.71idx1.15odx.030thk
41	170394	Pin, Jackshaft	111	170434	Plug, Sae #6
42 43	170395 170396	Magnet, Ring	112	170436	O-Ring .07 X .301 I.D. Shleld, Vent
43 44	150797	Spring, Bypass Hydro Mtg Screw 3/8-24 X 2.5	113	170437	Bracket, Support Expansion
		Long			Tank
45	170397	Filter	116	170438	Silicon Sponge
46	170398	Base, Filter	119	170439	Fan, 7 In.
47	170999	Actuator, Bypass	120	170440	Pulley
48	170400	Rod, Bypass Actuator	121	170441	Hex Lock Nut 1/2-20 (Nylon
49	170401	Arm, Bypass			Insert)
50	170202	Retaining Ring .250 External	122	170442	Washer, Belleville
51	170403	Seal, Lip .741 X .250 X .250 Tc	123 124	170443 170444	Belt Keeper Center Section-Filter-Bypass
52	170404	Flat Washer,			Assembly
=0	170405	5/8 ld X 1.0 Od X .05 Thk	125	170445	Filter Assembly
53	170405	Retaining Ring	126	170446	Fan - Pulley Service Assembly
54	170406	Bearing, Center Block	127	170447	Seal - O-Ring Kit
55	142977	Spring - Helical Compression	128	173165	Kit, Expansion Tank
56	142978	Washer	900	166768	Transaxle Complete
57 50	150798	20w-50 Oil	MATE	. All somes-	ant dimonologe diver in LLC inch
58	170407	Brake Yoke	NOIE	1 inch = 25	ent dimensions given in U.S. inches .4 mm

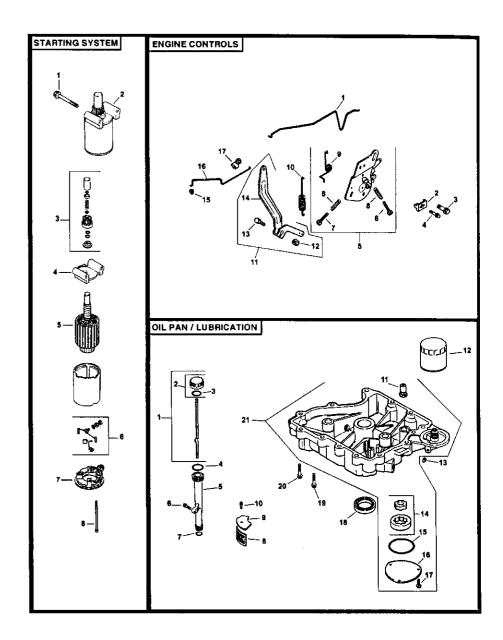


CYLINDER HEAD/VALVE/BREATHER			CRANKCASE		
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	25-351-01-S 12-755-94-S	Lifter, valve (2) Kit, cylinder head (includes 4,6-17, Gaskets 12 041 01-	1 2	12-032-03-S 12-522-49	Seal, crankshaft Block, cyfinder (Use Short Block)
2	12-411-03-S	S (Qty. 2), 12 041 02-S, 12 041 03-S, & 12 041 08-S)	3 4	12-445-02-S M-839025-S	Strap, lifting Screw, hex. flange M8x1.25x25
3 4 5	12-041-10-S 12-017-01-S	Rod, push (2) Gasket, cylinder head Valve, intake (Std.)	5 6	12-380-17-S 12-755-49-S	Dowel, locating (4) Kit, camshaft (Includes 7&8)
6	12-017-02-S 12-016-01-S 12-016-02-S	Valve, intake (.25) Valve, exhaust (Std.) Valve, exhaust (.25)	7 8	12-089-31-S 12-422-08-S	Spring, actuating Shim, camshaft (A.R.) blue
7 8 9	X-75-23-S 12-318-36-S 25-186-01-S	Plug, allen hd. pipe 1/8" Cylinder Head Arm, rocker (2)		12-422-09-S 12-422-10-S	Shim, camshaft (A.R.) red Shim, camshaft (A.R.) yellow
10 11	12-599-03-S M-640034-S	Pivot, rocker arm (2) Screw, hex. flange M6xl.0x34 (2)		12-422-11-S 12-422-12-S	Shim, camshaft (A.R.) green Shim, camshaft (A.R.) gray
12 13 14	12-089-34-S 12-173-01-S 12-755-03-S	Spring, valve (2) Cap, valve spring (2) Kit, retainer (2)	9	12-422-13-S 12-422-07-S 12-144-28-S	Shim, camshaft (A.R.) black Shim, camshaft (A.R.) white Shaft, balance
15 16	12-468-05-S 12-112-13-S	Washer, plain 13/32" Spacer, head bolt exhaust port	10	12-874-07-S 12-874-11-S	Piston w/Ring Set (Std.) (Includes 11-12) Piston w/Ring Set (.08 mm)
17 18	12-086-15-S \$x-426-9-S	Screw, hex. flange M10x1.5x81 (5)	11	12-874-08-S 12-874-09-S 12-018-02-S	Piston w/Ring Set (.25 mm) Piston w/Ring Set (.50 mm) Retainer, piston pin (2)
19 20	12-326-03-S M-645020-S	Clamp, hose (2) Hose, breather Screw, hex. flange	iż	12-108-07-S 12-108-08-S 12-108-09-S	Ring Set (Std.) Ring Set (.25) Ring Set (.50)
21 22	12-096-07-S M-545010-S	M6x1.0x20 (5) Cover, valve w/nipple Screw, hex. flange	13 14	12-067-11-S 12-067-06-S 12-380-01-S	Connecting Rod (Std.) Connecting Rod (.25)
23 24	12-018-01-S 12-402-02-S	M5x0.8x10 Retainer, breather reed Reed, breather	15 16	12-043-05-S M-631005-S	Pin, governor regulating Gear, governor Washer, plain 6mm
			17 18 19	12-144-02-S 52-139-09-S 12-755-64-S	Shaft, governor gear Plug, cup Kit, gov. cross shaft w/clip
			20 21	X-25-102-S 12-032-01-S	(Includes 23) Washer, plain 1/4" Seal, governor cross shaft
			22 23	M-631015-S 12-154-05-S	Washer, plain 6mm Clip, hitch pin

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



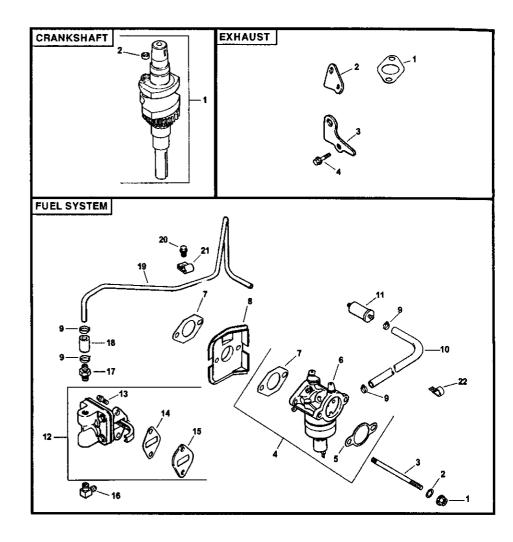
IGNITION/ELECTRICAL		BLOWER HOUSING & BAFFLES			
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	12-086-14-S	Screw, hex. flange M10x1.5x46	1	M-545010-S	Screw, hex. flange M5x0.8x10 (6)
2	12-468-03-S	Washer, plain 3/8"	2	24-468-10-S	Washer, plain 1/4"
2	24-162-03-S	Screen, grass	3	12-146-07-S	Plate, blower housing
4	25-086-47-S	Bolt, shoulder M6X1.0X16 (4)	4	M-550010-S	Screw, hex. flange M5x0.8x10
5	12-157-03-S	Fan	5	24-096-05-S	Cover, pinion
5 6 7	X-42-15-S	Kev	6	12-027-76-S	Housing, blower
7	12-025-15-S	Flywheel	7	12-063-18-S	Baffle, intake side
8	12-155-09-S	Connector	8	25-154-02-S	Clip, mounting (3)
9	M-548025-S	Screw, hex. cap M5x0.8x25 (2)	9	12-086-37-S	Screw, captive washerM5 X0.8 X20 (3)
10	237878-S	Stator (Includes Screw, hex.	10	12-063-17-S	Baffle, cylinder head
, 0	20,0.00	cap X-67-51-S (4) & Terminal	11	M-645016-S	Screw, hex. flange
		25 452 01-S (2)	• • •	M 040010 0	M6x1.0x16 (2)
11	M-545020-S		12	12-063-01-S	Baffle, cylinder
()	M-545020-5	Screw, hex. flange		LLUSTRATED	Danie, Cymidei
12	12-154-06-S	M5x0.8x20 (2) Clip, cable (2)	NOT	M-541050-S	Nut, hex. flange M5x0.8
13	41-403-09-S			MI-04 1000-0	IAUT, HEY, HANGE MOYO'S
	X-22-11-S	Regulator, rectifier - 15 amp	AID II	NTAKE/FILTRA	TION
14		Washer, lock 1/4"	AIR II	AINVENUELLIUM	1104
15	M-639016-S	Screw, hex. flange	KEY	PART	
40	000000	M6x1.0x16 (2)	NO.	NO.	DESCRIPTION
16	236602-8	Connector		12-281-01-S	
17	12-132-02-S	Spark Plug	1		
18	X-728-1-S	Clip, cable (2)	2	25-341-03-S	Knob, air cleaner cover
19	M-545010-S	Screw, hex. flange	3	12-096-24-S	Cover, air cleaner
	🎓	M5x0.8x10 (2)	4	12-083-12-5	Precleaner, element
20	12-584-04-S	Module, ignition	5	12-100-08-\$	Wing Nut
NOT	ILLUSTRATED	•	6	12-083-10-S	Kit air cleaner element
	12-176-45-S	Hamess, wiring			(Includes 5-8)
	12-176-44-S	Harness, wiring	7	12-743-12-5	Filter, element (Includes
	24-518-12-S	Lead, black (6" - 12 gauge-			5&8)
		insulated grip barrel eyelet	8	12-032-11-\$	Seal 1-7/16"
		terminals)	9	12-094-07-S	Base, air cleaner (Includes
	12-518-35-S	Lead, white (36" -18 gauge			11812)
		- fully insulated push on and	10	12-072-04-5	Stud, mounting plate
		uninsulated socket			M6X1.0X75
	X-67-51-S	terminals) Screw, hex.cap 10-24 X 3/4*	11	12-086-01-S	Screw, #10 Hi-Lo thread forming (2)
		(4) 25-452-01-S	12	12-041-02-S	Gasket, air cleaner
		Terminal (22" - 22 gauge		ILLUSTRATED	
		1/4" uninsiplated male.		12-113-53-S	Decal, air cleaner
		(side) locking, push on tab)			Dovai, all Gours
		(4)	NOTE		ent dimensions given in U.S. ch = 25.4 mm



ENGINE CONTROLS

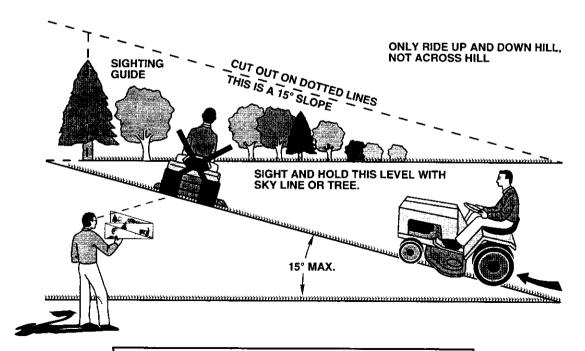
STARTING SYSTEM

STARTING STSTEM				ENGINE CONTROLS			
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION		
1	M-839070-S	Screw, hex. flange	1	12-079-11-S	Linkage, choke		
		M8x1.25x70 (2)	2	12-237-01-S	Clamp, cable		
2	25-098-07-S	Starter assembly (Includes 3-8)	3	24-086-43-\$	Screw, thread forming M5x0.8x16		
3	12-755-54-\$	Kit, drive end	4	M-664020-S	Screw, lobed socket		
4	12-227-18-S	Cap, drive end			M6xl.0x20 (2)		
5	12-170-05-S	Armature	5	12-536-10-S	Control, speed assembly		
6	12-221-01-8				(Includes 6-9)		
7	12-227-13-\$		6	M-443025-S	Screw, pan head		
8	12-211-01-8			•	M4x0.7x25		
		1/4-20x4-5/8 (2)	7	M-443020-S	Screw, pan head M4x0.7x20		
OILP	AN/LUBRICAT	ION	8	12-089-11-S	Spring, choke (2)		
			9	12-089-23-S	Spring, choke return		
KEY	PART		10	12-089-24-S	Spring, governor		
NO.	NO.	DESCRIPTION	11	12-755-83-S	Kit, governor lever (Includes 12-14)		
1	12-038-01-8	Dipstick assembly (Includes	12	12-100-07-S	Nut, hex flange 1/4 - 20"		
		2-3)	13	52-211-04-S	Bolt, 1/4 - 20 X 1"		
2	25-755-13-S	Kit, oil fill cap (Includes 3)	14	12-090-28-S	Lever, governor		
3	12-153-03-S	O-Ring, oil fill cap	15	25-158-08-S	Bushing, throttle linkage		
4	12-153-02-S	O-Ring, upper oil fill tube	16	12-079-10-S	Linkage, throttle		
5	12-123-04-\$	Tube, oil fill	17	25-158-11-5	Bushing, throttle linkage		
6	M-645025-S	Screw, hex. flange			_ united through		
		M6x1.0x25	NOTE	E: All compone	nt dimensions given in U.S.		
7	12-153-01-S	O-Ring, lower oil fill tube			h = 25.4 mm		
8	25-162-07-S	Screen, oil pickup			–		
9	12-096-03-S	Cover, oil pickup screen					
10	M-545016-S	Screw, hex. flange					
		M5x0.8x16					
11	25-462-09-5	Valve, oil pressure relief					
12	52-050-02-S						
13	X-75-10-S	Plug, sq. hd. solid 3/8"					
14	12-393-01-S	Pump, oil					
15	12-153-06-S	O-Ring, oil pump cover					
16	12-096-34-S	Cover, oil pump					
17	M-545016-S	Screw, hex. flange					
•	0 .00 .0 0	M5x0.8x16 (3)					
18	12-032-03-8	Seal, oil (P.T.O. end)					
19	24-086-16-\$						
		M8x1.25x45 (11)					
20	24-086-17-S	Screw, hex. flange					
		M8x1.25x45					
21	12-199-56-S	Assembly, oil pan (incl. 11,14-17)					
		- r					



FUEL SYSTEM			CRANKSHAFT		
KEY NO.	PART NO.	DESCRIPTION		PART	DECORIDATION
1 2 3	M-641060-S X-22-11-S M-629116-S	Nut, hex. flange M6x1.0 (2) Washer, lock 1/4" Stud M6x1.0x116 (2)	NO. 1 2	NO. 12-014-57-S 25-139-27-S	DESCRIPTION Crankshaft (Includes 2) Plug. cup
4	12-853-95-S	Kit, carburetor w/gasket (Includes 5-7, (qty 1) Tie, cable 12-454-03-S, Terminal 25-452-20-S)	EXHAUST		
				PART	
5 6	12-041-02-S 12-053-107	Gasket, air cleaner Carburetor assembly	NO.	NO.	DESCRIPTION
		(For information only not available separately)	1	12-041-03-\$	Gasket, exhaust manifold (3)
		(Includes Kit, float 12-757- 02-S, Kit, carburetor repair 12-757- 03-S, Kit, Solenoid repair 12-757-33-S)	2 3 4	12-126-11-S 12-445-06-S M-645025-S	Bracket muttler Srap, lifting Srew, hex. flange M6xl.0x25 (2)
7 8	12-041-01-S 12-265-06-S	Gasket, carburetor (2) Deflector, heat		12-522-49 12-755-82-S	Short Block Gasket Set
9 10	X-426-9-S 52-353-22-S	Clamp, hose (6) Line, fuel	NOTE	E: All compone	nt dimensions given in U.S.
iĭ	25-050-03-S	Filter, fuel in-line	.,,	inches 1 inch	1 = 25.4 mm
12	12-559-01-S	Kit, fuel pump (Includes 13-			
13 🖠	►M-645020-S	Screw, hex. flange M6x1.0x20 (2)			
14	25-041-09-S	Gasket, fuel pump (2)			
15	12-112-05-S	Spacer, fuel pump			
16 17	25-155-02-S 25-326-03-S	Connector, 90 degree hose Connector, straight hose			
18	12-353-01-S	Line, fuel 1.25			
19	12-123-19-S	Line, fuel			
20	M-545010-S	Screw, hex. flange M5x0.8x10			
21	12-154-01-S	Clip			
22	47-154-01-S	Clip cable			
NOT	ILLUSTRATED	Line fiel 0.7			
	41-353-18-S M-561010-S	Line, fuel 2.7 Screw, thread forming M5X0.8X10			
	12-757-02-S	Kit, float			
	12-757-03-S	Kit, carburetor repair			
	12-041-01-S	Gasket, carburetor			
	12-041-02-S	Gasket, air cleaner			
	12-041-05-S	Gasket, bowl			
	12-041-06-S	Gasket, bowf screw			
	12-032-06-S 12-757-33-S	Seal, solenoid Kit, solenoid repair			
	12-757-33-3 12-041-06-\$	Gasket, bowl screw			
	12-454-03-\$	Tie cable			
	25-452-20-S	Terminal			
	12-518-37-5	Lead, red, (37" 20 gauge-			
		insulated socket and			
		uninsulated socket			
		terminals)			

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

G

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