Owner's Manual

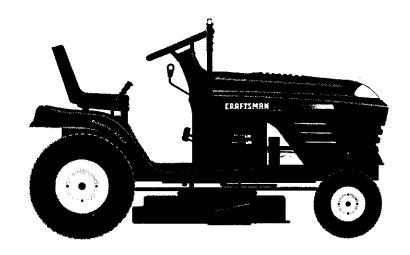
CRAFTSMAN

20.5 HP **ELECTRIC START 42" MOWER AUTOMATIC** LAWN TRACTOR

Model No. 917.270840



- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts





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

CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment.

For answers to your questions about this product, Call:

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

Sears, Roebuck and Co., Hoffman Estates, IL 60179

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts, etc.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Riding equipment used for commercial or rental purposes.

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. In-home warranty service on your Craftsman riding equipment is available at no charge for 30 days from the date of purchase. Please contact your nearest service center. After 30 days from the date of purchase, warranty service is available by taking your Craftsman riding equipment to your nearest Sears Service Center. (In-home warranty service will still be available after 30 days from the date of purchase but a standard trip charge will apply). This warranty applies only while this product is in the United States. This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

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SAFETY RULES

GENERAL OPERATION

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

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

2

SAFETY RULES

- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

SLOPE OPERATION

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

DO:

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

DO NOT:

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.

- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

CHILDREN

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

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

SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices.
 Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.

SAFETY RULES

- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut.
 Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently.
 Adjust and service as required.











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

- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

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

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

AWARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR	
OIL TYPE (API-SF/SG/SH):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)	
OIL CAPACITY:	3.0 PINTS	
SPARK PLUG: (GAP: .030")	Champion RJ19LM OR J19LM	
VALVE CLEARANCE: INTAKE: .00500		
	EXHAUST: .009011	
GROUND SPEED (MPH):	FORWARD: 0 - 5.5 REVERSE: 0 - 2.4	
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI	
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS	
BATTERY:	AMP/HR:30 MIN. CCA:240 CASE SIZE: U1R	
BLADE BOLT TORQUE:	2735 FT. LBS.	

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

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Authorized Service Center. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

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

MAINTENANCE AGREEMENT

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

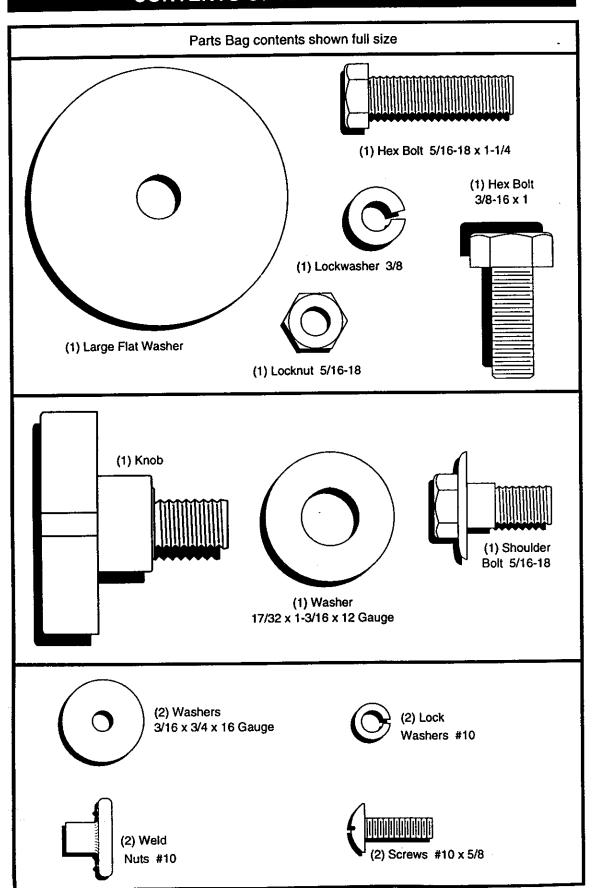
CUSTOMER RESPONSIBILITIES

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

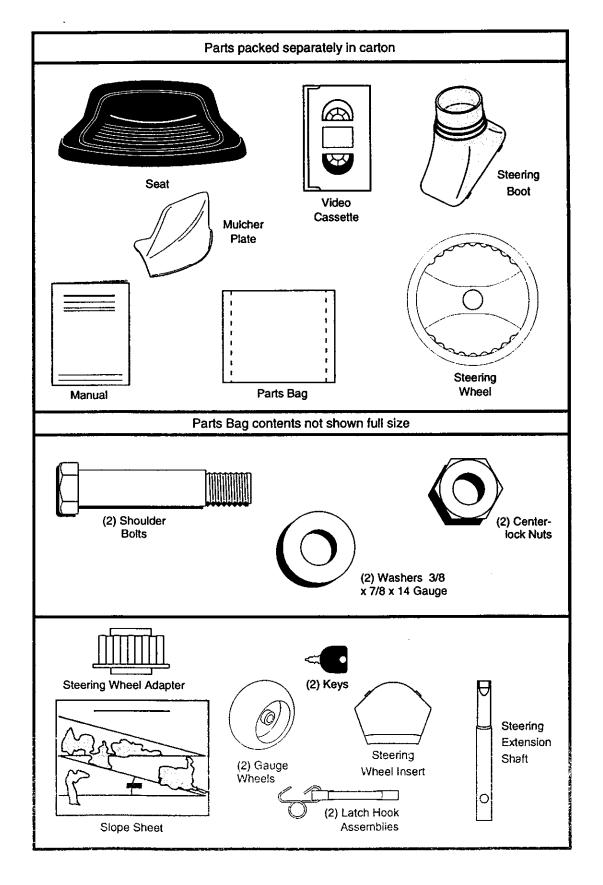
AWARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester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

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Othe states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center (See REPAIR PARTS section of this manual).

CONTENTS OF HARDWARE PACK



CONTENTS OF HARDWARE PACK



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench
- (1) 3/4" Socket w/
- (1) 3/4" wrench
- drive rachet

driver

- (2) 1/2" wrench
- (1) Phillips Screw-
- (1) Utility knife
- (1)Pliers
- (1) Tire pressure gauge

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

- Remove all accessible loose parts and parts boxes from shipping carton (See
- 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 ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

IMPORTANT: Tighten bolt and nut securely to 18-22 ft. lbs. torque.

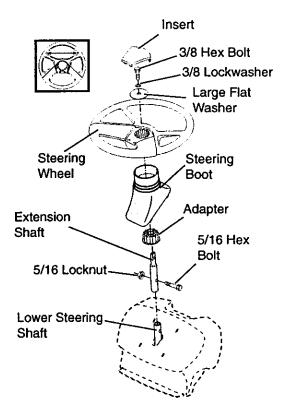
Place tabs of steering boot over tab slots in dash and push down to secure.

INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Slide steering wheel adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.

- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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

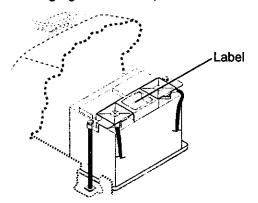


TO ROLL TRACTOR OFF SKID (See Operation section for location and function of controls)

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

HOW TO SET UP YOUR TRACTOR CHECK BATTERY

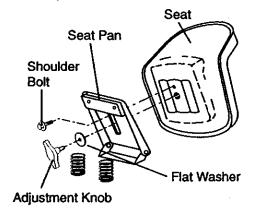
- · Lift hood to raised position.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in MAINTE-NANCE section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

- · Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt. Tighten shoulder bolt securely.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down:
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.



INSTALL MULCHER PLATE

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

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

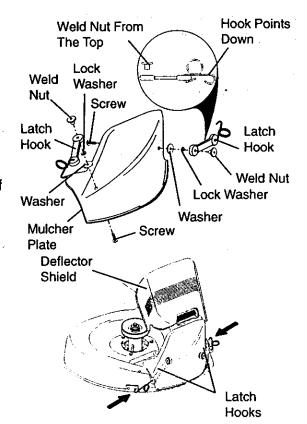
- Tighten hardware securely.
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

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

TO CONVERT TO BAGGING OR DISCHARGING

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

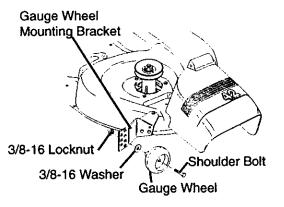
NOTE: It is not necessary to change blades. The mulcher blades are designed for discharging and bagging also.



ASSEMBLE GAUGE WHEELS TO MOWER DECK

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

- Assemble 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.



CHECK TIRE PRESSURE

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

 Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 5 of this manual.

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments sectoin 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

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



REVERSE



NEUTRAL



HIGH



LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED











KEEP AREA CLEAR

SLOPE HAZARDS (SEE SAFETY RULES SECTION)





FREE WHEEL (Automatic Models only)

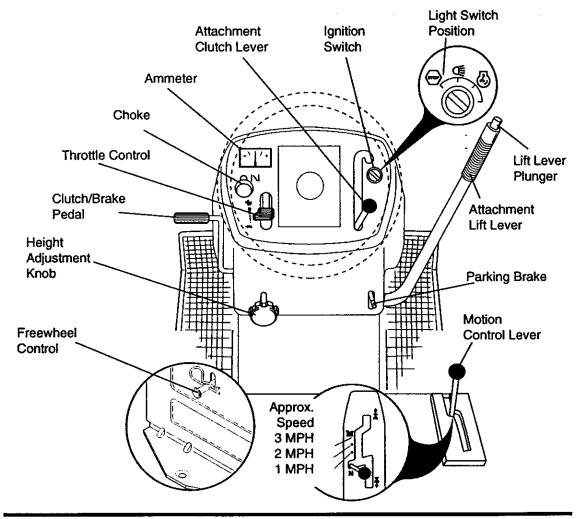


DANGER, KEEP HANDS AND FEET AWAY

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

LIGHT SWITCH: Turns the headlights on and off.

CHOKE CONTROL: Used when starting a cold engine.

THROTTLE CONTROL: Used to control 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.



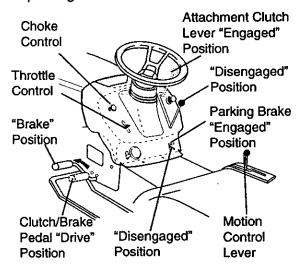
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

HOW TO USE YOUR TRACTOR

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

TO SET PARKING BRAKE

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



STOPPING

MOWER BLADES -

 To stop mower blades, move attachment clutch lever 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.

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

THROTTLE CONTROL

Always operate engine at full throttle.

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

CHOKE CONTROL

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

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

TO MOVE FORWARD AND BACKWARD

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

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

NOTE: The effort to move the motion control lever will reduce after the first few hours of use. This is normal.

TO ADJUST MOWER CUTTING HEIGHT

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

- Turn knob clockwise (C) to raise cutting height.
- Turn knob counterclockwise (೨) to lower cutting height.

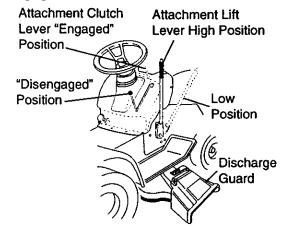
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- 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 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.



TO OPERATE ON HILLS

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

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

- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

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

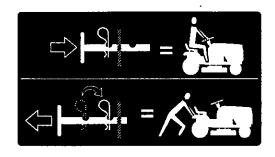
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

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

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control knob out and hold in position by inserting retainer spring into forward hole of control rod.
- 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 ATTACHMENTS

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

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with tractor on level ground.
- ground.
 Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, 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 fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

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

WARM WEATHER STARTING (50° F AND ABOVE)

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

COLD WEATHER STARTING (50° F AND BELOW)

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

AUTOMATIC I RANSMISSION WARM-UP

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

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

PURGE TRANSMISSION

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

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

IMPORTANT: Should 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) position,
 slowly disengage clutch/brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds.
 Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

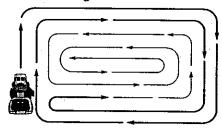
NOTE: During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- Move motion control lever to neutral (N) position. Shut off engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine.
 After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Slowly move motion control lever forward; after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.
- Your tractor is now purged and ready for normal operation.

MOWING TIPS

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

- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower the best cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

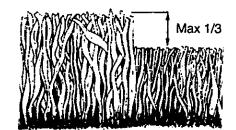


MULCHING MOWING TIPS

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

• The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.

- Avoid cutting your lawn when it is wet.
 Wet grass tends to form clumps and
 interferes with the mulching action. The
 best time to mow your lawn is the early
 afternoon. At this time the grass has
 dried and the newly cut area will not be
 exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades. For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



MAINTENANCE

CUSTOMER RESPONSIBILITIES

AS	MAINTENANCE SCHEDUL LL IN DATES YOU COMPLETE GULAR SERVICE	.E	EFORE	EACHUS EVERY 8	HOURS WERY ?	S HOURS VERY S	HOUP HOUP	S HOUR OD HOUR WERY S	EASON EFORE	STORAL SER	VICE	DAT	res
	Check Brake Operation	7	V										
	Check Tire Pressure	V	~										
т	Check Operator Presence and Interlock Systems	V										_	
R	Check for Loose Fasteners	1				1/7		1					
A	Sharpen/Replace Mower Blades			1.									
C	Lubrication Chart			V				1			·		
ó	Check Battery Level			V ₆				1		\sqcap			_
Ř	Clean Battery and Terminals			1				~					
	Check Transaxle Cooling			1									
	Adjust Blade Belt(s) Tension			T		1/5		1					
	Adjust Motion Drive Belt(s) Tension					1/5							
	Check Engine Oil Level	1	V										
	Change Engine Oil			1,2,3				1					
Е	Clean Air Filter			1/2									
N	Clean Air Screen			1/2									
G	Inspect Muffler/Spark Arrester				1								
l i	Replace Oil Filter (If equipped)			T -		1,2							
N	Clean Engine Cooling Fins					1/2							
_	Replace Spark Plug		1			V	1				`		
	Replace Air Filter Paper Cartridge	- f		<u> </u>		1/2							
	Replace Fuel Filter			1	\Box		1						

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

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.

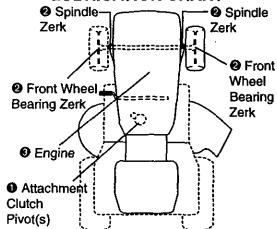
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

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.

- 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 overtighten.

LUBRICATION CHART



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

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

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TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 3 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.

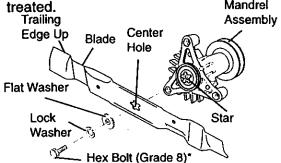
BLADE REMOVAL

- 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. Mandrel



TO SHARPEN BLADE

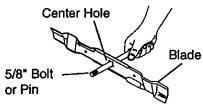
NOTE: We do not recommend sharpening blade but if you do, be sure the blade is balanced.

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

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

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

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



BATTERY

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

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour. TO CLEAN BATTERY AND TERMINALS Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.
- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum ielly.
- Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manual).

V-BELTS

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

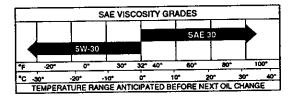
TRANSAXLE COOLING

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

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

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

TRANSAXLE PUMP FLUID



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

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 tem-

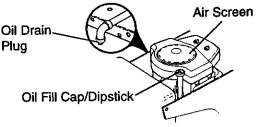
NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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

TO CHANGE ENGINE OIL

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PROD-UCT SPECIFICATIONS" on page 3 of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.



CLEAN AIR SCREEN

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn 21 dried gum fibers.

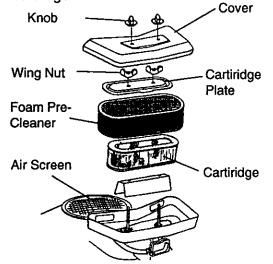
AIR FILTER

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.

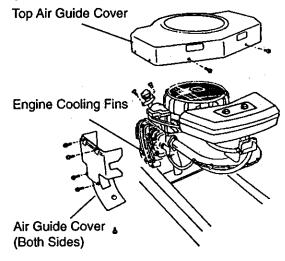
- Remove knob(s) and cover.
 TO SERVICE PRE-CLEANER
- · Slide foam pre-cleaner off cartridge.
- · Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace precleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).
 TO SERVICE CARTRIDGE
- · Remove wing nuts and cartridge plate.
- Carefully remove cartridge to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge plate, wing nuts, precleaner, cover and secure with knob(s).

IMPORTANT: Petroleum solvents, such as kerosene, are not to be used to clean the cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.



ENGINE COOLING FINS

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Air guide covers must be removed. Remove side panels and hood (See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments section of this manual).



MUFFLER

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

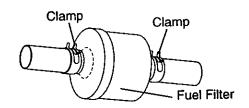
SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 5 of this manual.

IN-LINE FUEL FILTER

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

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



CLEANING

Clean engine, battery, seat, finish, etc. of all foreign matter.

- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

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

SERVICE AND ADJUSTMENTS

ACAUTION: Before performing any service or adjustments:

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

TO REMOVE MOWER

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

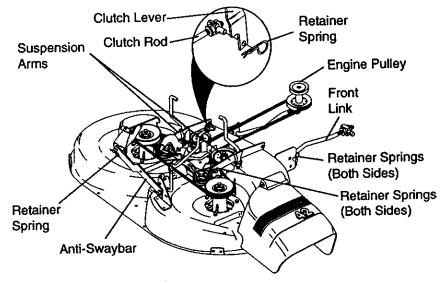
- Place attachment clutch in "DISEN-GAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- · Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Disconnect anti-swaybar from chassis bracket by removing retainer 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

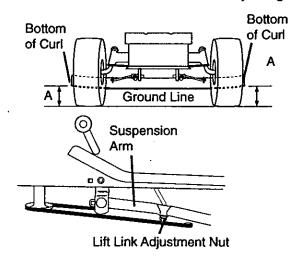
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS"). If tires are over or underinflated, you will not properly adjust your mower.

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

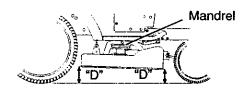
IMPORTANT: Deck must be level side-toside. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

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.

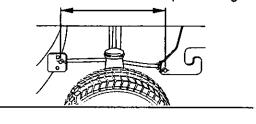
Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

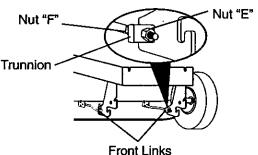
· Before making any necessary adjust-

- ments, 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.



Both Front Links Should be Equal in Length





TO REPLACE MOWER BLADE DRIVE BELT (See Illustration Next Page)

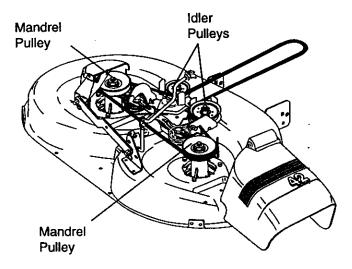
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

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.

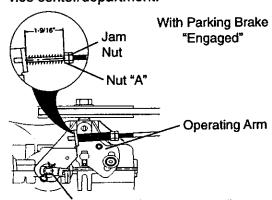


TO ADJUST BRAKE

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.

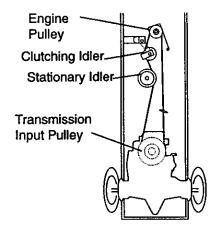


Do Not touch this nut. If further brake adjustment is necessary contact your nearest authorized service center/department

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.)
- 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 downward from around engine pulley.
- Install new belt by reversing above procedure.



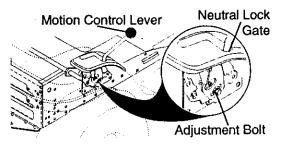
TO ADJUST MOTION CONTROL LEVER

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

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.

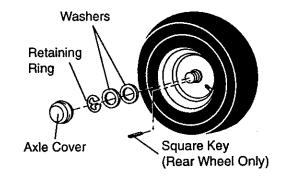
FRONT WHEEL TOE-IN/CAMBER

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 kev.
- · Replace washers and snap retaining ring securely in axle groove.
- · Replace axle cover.

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



TO START ENGINE WITH A WEAK BATTERY

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

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

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

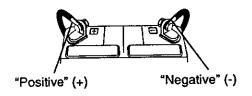
IMPORTANT: Your tractor Is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use 26 your tractor battery to start other vehicles.

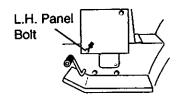
TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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





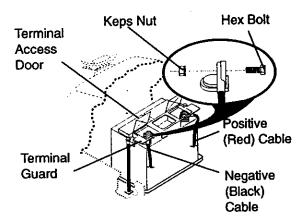
REPLACING BATTERY

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

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

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

- remaining hex bolt and keps nut. Tighten securely.
- Close terminal access doors.
- Close hood.



TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

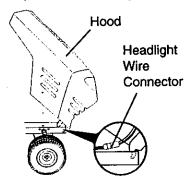
Check wiring. See electrical wiring diagram in the Repair Parts section of this manual.

TO REPLACE FUSE

Replace with 30 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 procedures.



ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE

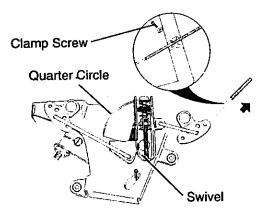
The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

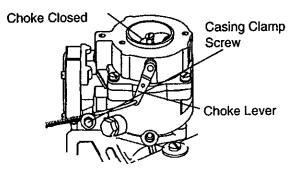
- With engine not running, move throttle control lever to fast position.
- Check that swivel is against side of quarter circle. If it is not, loosen cable clamp screw and pull cable back until swivel is against quarter circle. Tighten cable clamp screw securely.

TO ADJUST CHOKE CONTROL

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

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





TO ADJUST CARBURETOR

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

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

PRELIMINARY SETTING

- Be sure you have a clean air filter, and the throttle control cable and choke are adjusted properly (see above).
- With engine off turn idle mixture screw in (clockwise) closing it finger tight and then turn out (counterclockwise) 1-1/4 to 1-1/2 turns.

FINAL SETTING

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/ motion control lever in neutral (N) position.
- With throttle control lever in slow position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.

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

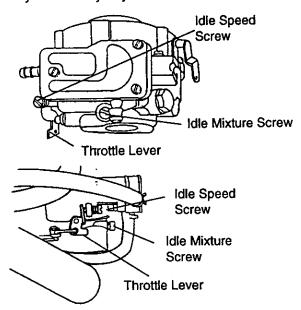
Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM. Release throttle lever.

ACCELERATION TEST

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

High speed stop is factory adjusted. Do not adjust - damage may result. IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the

engine-governed high speed needs adjusting, contact your nearest authorized service center/department, which has proper equipment and experience to make any necessary adjustments.



STORAGE

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

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

TRACTOR

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

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

BATTERY

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

ENGINE

FUEL SYSTEM

IMPORTANT: It is important to prevent gum 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. 	 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.
	Carburetor out of adjustment. Engine valves out of adjustment.	See "To Adjust Carburetor" in Service and Adjustments section. Contact an authorized service center.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section. Contact an authorized service center.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	 Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. 	 Set in "Higher Cut" position/reduce speed. Adjust throttle control.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Loss of power (cont'd)	Build-up of grass, leaves and	Clean underside of mower hous-
•	trash under mower.	ing.
	Dirty air filter. .	Clean/replace air filter.
	Low oil level/dirty oil.	Check oil level/change oil.
	Faulty spark plug.	Clean and regap or change
		spark plug.
	Dirty fuel filter.	Replace fuel filter.
	Stale or dirty fuel.	Drain fuel tank and refill with
		fresh gasoline.
	Water in fuel.	Drain fuel tank and carburetor,
		refill tank with fresh gasoline and
		replace fuel filter.
	Spark plug wire loose.	Connect and tighten spark plug:
		wire.
	Dirty engine air screen/fins.	Clean engine air screen/fins.
	Dirty/clogged muffler.	Clean/replace muffler.
	Loose or damaged wiring.	Check all wiring.
	Carburetor out of adjustment.	See "To Adjust Carburetor" in
		Service and Adjustments
	1	section.
	Engine valves out of adjust-	Contact an authorized service
	ment.	center.
Excessive vibration	Worn, bent or loose blade.	Replace blade. Tighten blade
		bolt.
	Bent blade mandrel.	Replace blade mandrel.
	Loose/damaged part(s).	Tighten loose part(s). Replace
		damaged parts.
Engine continues to	Faulty operator-safety pres-	Check wiring, switches and con-
run when operator	ence control system.	nections. If not
leaves seat with at-		corrected, contact an authorized
tachment clutch		service center/
engaged		department.
Poor cut - uneven	Worn, bent or loose blade.	Replace blade. Tighten blade
		bolt.
	Mower deck not level.	Level mower deck.
	Buildup of grass, leaves, and	Clean underside of mower hous-
	trash under mower.	ing.
	Bent blade mandrel.	Replace blade mandrel.
	Clogged mower deck vent	Clean around mandrels to open
	holes from buildup of	vent holes.
	grass, leaves, and trash	
	around mandrels.	
Mower blades will not	Obstruction in clutch mecha-	Remove obstruction.
rotate	nism.	
	Worn/damaged mower drive	Replace mower drive belt.
	belt.	
	Frozen idler pulley.	Replace idler pulley.
	Frozen blade mandrel.	Replace blade mandrel.
Poor grass discharge	Engine speed too slow.	Place throttle control in "FAST"
		position.
	Travel speed too fast.	Shift to slower speed.
	-	I - Alleus areas to day before moss
	Wet grass.	Allow grass to dry before mowing.

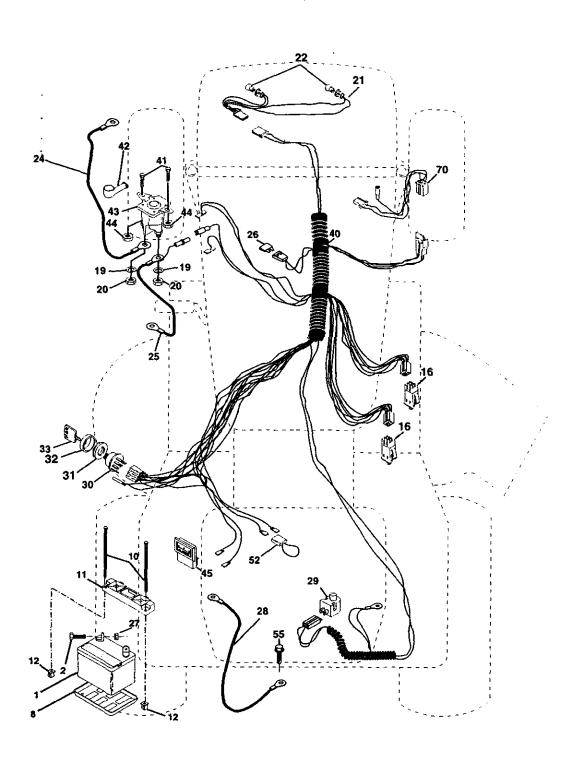
TROUBLESHOOTING CHART

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.270840

ELECTRICAL

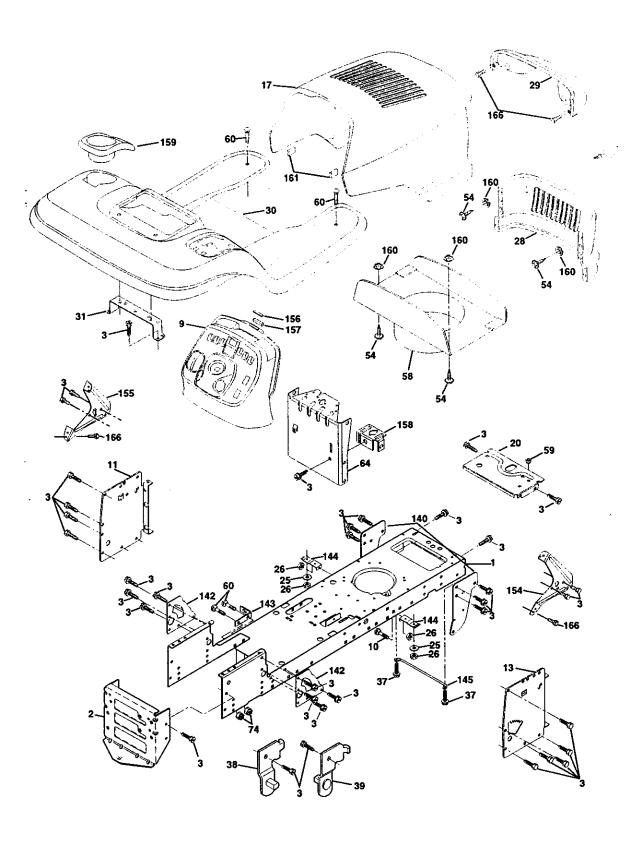


TRACTOR - - MODEL NUMBER 917.270840

ELECTRICAL

KEY	PART	·
NO.	NO.	DESCRIPTION
1	163465	Battery
2	74760412	Bolt, Hex 1/4-20 x 3/4
8	7603J	Tray, Battery
10	145211	Bolt, 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
19	STD551125	Washer, Lock 1/4
20	73350400	Nut, Hex, Jam 1/4-20
21	166182	Harness, Light Socket (w/4152J)
22	4152J	Light Bulb
24	4799J	Cable, Battery
25	146148	Cable, Battery
26	166180	Fuse
27	73510400	Nut Keps Hex 1/4-20 Unc
28	145491	Cable, Ground
29	121305X	Switch, Seat
30		Switch, Ignition 4 Position
	124211X	Nut, Ignition
	141226	Cover, Ignition Switch
	109310X	Key, Molded, Craftsman
40	166145	Harness, Ignition
41	71110408	Bolt Blk Fin Hex 1/4-20 UNC x 1/2
42	131563	Cover, Terminal
_	168327	Solenoid
	73640400	Nut Keps Blk Hex 1/4-20 UNC
45	121433X	Ammeter Rectangular 6 Amp
_	141940	Protection Wire Loop (Hour Meter)
	17490508	Screw Thdrol 5/16-18 x 1/2
70	· -	Harness Engine B&S
		dimensions given in U.S. inches
1 inch	= 25.4 mm	

TRACTOR - - MODEL NUMBER 917.270840 CHASSIS AND ENCLOSURES

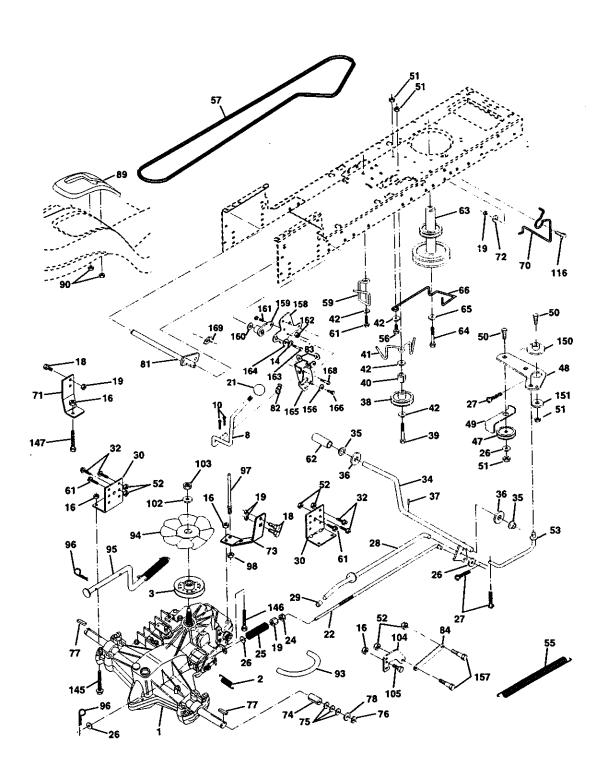


TRACTOR - - MODEL NUMBER 917.270840 CHASSIS AND ENCLOSURES

KEY	PART	
NO.	NO.	DESCRIPTION
1	165583	Chassis
2	140356	Drawbar
3	17490612	Screw, Thd., Roll. 3/8-16 x 3/4 Type TT
9	163976	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 1
11	163455	Panel, Dash, LH
13	163456	Panel, Dásh, RH
17	161023X558	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	160564X558	Grille, MS-558
29	161235	Lens, Grille
30	154791X558	Fender/Footrest
31	139976	Bracket, Fender/Support
37	17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38	139886	Pivot Bracket Assembly, LH, Mower, Rear
39	139887	Pivot Bracket Assembly, RH, 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	Dash Lower STYT
74	STD541437	Nut Crownlock 3/8-16 UNC
140	158418	Bracket Suspension Front
142	165867	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	154207	Bracket Footrest STLT
145	156524	Rod Pivot Chassis/Hood
154	161897	Bracket Dash Rh
155	161900	Bracket Dash Lh
156	163805	Striker Plate
157	163806	Magnet YTGT
158	162037	Parking Brake Bkrt
159		Cupholder Stl Blk
160	162967	Fastner Nutpal
161	164655	Pinch-Welt Hood
166	164863	HWHDH:-Lo. #13-16 x 3/4

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

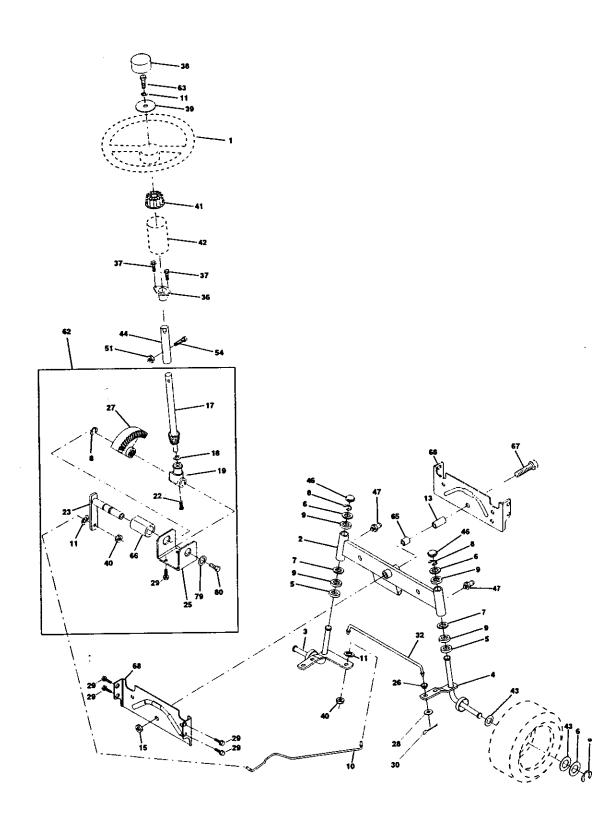
GROUND DRIVE



GROUND DRIVE

Transaxle (See Breakdown) Hydro Gr 319-0650 To 121749X Washer 25/32 x 1-1/4 x 16 Gauge To STD581075 To STD581076 To STD581075 To STD581075 To STD581075 To STD581075 To STD581210 To STD581075 To STD581210 To STD581075 To STD581210 To STD581210 To STD581075 To STD581210 To STD581077 To STD581210 To STD58108 To STD581077 To STD581210 To STD58108 To STD581075 To STD581077 To STD581210 To STD58108 To STD581075 To STD581071	
Hydro Gr 319-0650 75 121749X Washer 25/32 x 1-1/4 x 16 Gauge 76 STD581075 E-Ring 8 165866 Rod Shift Fender Adjust 77 123583X Key, Square 10 STD561210 Pin Cotter 1/8 x 1 CAD 78 121748X Washer 25/32 x 1-5/8 x 16 Gauge 8 10040400 Washer Lock Hvy Helical 15 74490544 Bolt Hex Flghd 5/16-18 Gr. 5 81 165591 Shaft Asm Cross Tapered 650 20 Spring Torsion 82 165711 Washer 17/32 x 3/4 x 16 Gauge 81 165591 Shaft Asm Cross Tapered 650 20 Spring Torsion 82 165711 Washer 17/32 x 3/4 x 16 Gauge 82 165711 Washer 17/32 x 3/4 x 16 Gauge 83 19171216 Washer 17/32 x 3/4 x 16 Gauge 84 165815 Link Transaxle 0650 LT/YT/ST 84 165815 Link Transaxle 0650 LT/YT/ST 85 19 STD541437 Nut Lock Hex W/Wsh 3/8-16 Washer 21/32 x 1-1/4 x 16 Gauge 82 165711 Washer 17/32 x 3/4 x 16 Gauge 84 165815 Link Transaxle 0650 LT/YT/ST 85 19 STD541437 Nut Lock Hex W/Wsh 3/8-16 Washer 21/32 x 1-1/4 x 16 Gauge 85 19212016 Washer 21/32 x 1-1/4 x 16 Gauge 86 71208 Bushing 97 19212016 Washer 21/32 x 1-1/4 x 16 Gauge 97 19212016 Wa	
3 143995 Pulley, Transaxle 76 STD581075 E-Ring 8 165866 Rod Shift Fender Adjust 77 123583X Key, Square 10 STD561210 Pin Cotter 1/8 x 1 CAD 78 121748X Washer 25/32 x 1-5/8 x 16 14 10040400 Washer Lock Hvy Helical 15 74490544 Bolt Hex Flghd 5/16-18 Gr. 5 16 STD541431 Nut Lock Hex W/Ins. 5/16-18 Unc 82 165711 Spring Torsion 18 STD523710 Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5 81 165815 Link Transaxle 0650 LT/YT/S1 19 STD541437 Nut Lock Hex W/Wsh 3/8-16 86 71208 Bushing Unc 87 19212016 Washer 21/32 x 1-1/4 x 16 Gr. 19 130564 Knob, Deluxe 1/2-13 88 12000008 Ring Klip #5304-62 1 130564 Knob, Deluxe 1/2-13 89 164890X428 Console, Shift 106888X Spring, Brake Rod 91 74780536 Bolt Fin Hex 5/16-18 x 2-1/4 STD551037 Washer 92 74780524 Bolt Fin Hex 5/16-18 x 2-1/4 STD561210 Pin Cotter 1/8 x 3/4 CAD. 93 142564 Line Fuel Hydro 4" 130 130807 Bracket, Transaxle 96 4497H Retainer Spring 1" Zinc/Cad	
8 165866 Rod Shift Fender Adjust 77 123583X Key, Square 10 STD561210 Pin Cotter 1/8 x 1 CAD 78 121748X Washer 25/32 x 1-5/8 x 16 14 10040400 Washer Lock Hvy Helical 15 74490544 Bolt Hex Fighd 5/16-18 Gr. 5 16 STD541431 Nut Lock Hex W/Ins. 5/16-18 Unc 82 165711 Spring Torsion 18 STD523710 Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5 84 165815 Link Transaxle 0650 LT/YT/S1 19 STD541437 Nut Lock Hex W/Wsh 3/8-16 Unc 87 19212016 Washer 21/32 x 1-1/4 x 16 Gr. 21 130564 Knob, Deluxe 1/2-13 88 12000008 Ring Klip #5304-62 22 145627 Rod, Brake Hydro 89 164890X428 Console, Shift 24 73350600 Nut, Hex Jam 3/8-16 Unc 90 124346X Nut Self-Thd Wsh-hd 1/4 Zinc 25 106888X Spring, Brake Rod 91 74780536 Bolt Fin Hex 5/16-18 x 2-1/4 26 STD551037 Washer 92 74780524 Bolt Fin Hex 5/16-18 x 2-1/4 27 STD561210 Pin Cotter 1/8 x 3/4 CAD. 93 142564 Line Fuel Hydro 4" 28 145204 Rod, Parking Brake 94 140462 Fan, Hydro 7" 29 124236X Cap, Parking Brake 95 144643 Control Bypass Hydro 20" Tirc 30 130807 Bracket, Transaxle 96 4497H Retainer Spring 1" Zinc/Cad	
STD561210	
10	
15 74490544 Bolt Hex Flghd 5/16-18 Gr. 5 16 STD541431 Nut Lock Hex W/lns. 5/16-18 Unc 18 STD523710 Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5 19 STD541437 Nut Lock Hex W/Wsh 3/8-16 Unc 19 STD541437 Nut Lock Hex W/Wsh 3/8-16 Unc 20 82 165711 Spring Torsion Washer 17/32 x 3/4 x 16 Ga. 84 165815 Link Transaxle 0650 LT/YT/ST 86 71208 Bushing Unc 87 19212016 Washer 21/32 x 1-1/4 x 16 Ga. 87 19212016 Washer 21/32 x 1-1/4 x 16 Ga. 88 12000008 Ring Klip #5304-62 29 145627 Rod, Brake Hydro 20 89 164890X428 Console, Shift 24 73350600 Nut, Hex Jam 3/8-16 Unc 25 106888X Spring, Brake Rod 26 STD551037 Washer 27 STD561210 Pin Cotter 1/8 x 3/4 CAD. 28 145204 Rod, Parking Brake 29 124236X Cap, Parking Brake 30 130807 Bracket, Transaxle 30 4497H Retainer Spring 1" Zinc/Cad	
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29 124236X Cap, Parking Brake 95 144643 Control Bypass Hydro 20" Tire 30 130807 Bracket, Transaxle 96 4497H Retainer Spring 1" Zinc/Cad	
30 130807 Bracket, Transaxle 96 4497H Retainer Spring 1" Zinc/Cad	00
	50
40/00#	
34 130071 Shanif Cott Gail	
35 120183X Bearing, Nylon 98 73510600 Nutriceps Hex 3/8-16 Onc 36 19211616 Washer 100 19111216 Washer 11/32 x 3/4 x 16 Ga.	
37 1572H Pin, Roll 102 141322 Washer Bellville .501D x	
38 131494 Pulley Idler Flat 1.50D	
39 STD523727 Bolt 103 73940800 Nut Hex Jam Toplock 1/4-20	
40 4470 I Spacer Split Uni	
41 165838 Keeper, Belt Idler 104 140156 Am, Control Hydro	4
42 19131312 Washer 13/32 x 13/16 x 12 105 71070516 Screw Cap Hex 5/16 x 18 x 106 74780520 Bolt Fin Hex 5/16-18 Unc x 10 106 Fin Hex 5/16-1	
Gauge 1/4	1-
43 19111012 Washer 11/32 x 5/8 x 12 Ga.	
47 127/83 Pulley, toller, V-Groove 144 10111016 Washer 11/32 x 5/8 x 16 Ga	
46 154407 Beliciatik Ciulcii Girio Divote 450 165050 Ruebing Relicrank Grd Drive	
49 123205X Retainer, Belt 150 165650 Busining Beliatik Cit of Market 151 19133210 Washer 13/32 x 2 x 10 Ga.	
51 STD541437 Nut Crownlock 3/8-16 UNC 156 166002 Washer Street 5/16ID x 1.12	5
52 STD541431 Nut Crownlock 5/16-18 Unc 15/ 153236 Boil Shoulder 5/16-18 Unc	2A
53 105710V Link Chitch 158 165589 Bracket Shift Mount	
55 105709X Spring, Return, Clutch 159 165494 Hub Tappered Hange Shift L	
56 STD523712 Bolt Hex 3/8-16 x 1-1/4 160 19292016 Washer 29/32 x 1-1/4 x 16 G	
57 140294 V-Belt Ground Drive 161 72140406 Bolt Rand Sqnk 1/4-20 x 3/4	Gr
59 140312 Keeper, Center Span 162 73680400 Nut Crownlock1/4-20 Unc	
61 17490612 Screw Thdrol. 3/8-16 x 3/4 Ty. 162 73680400 Nut Crownlock1/4-20 Unc 163 74780416 Bolt Hex Fin 1/4-20 Unc x 1 (Gr
5	٠.
62 8883R Cover, Pedal 164 19091010 Washer 5/8 x 281 x 10 Ga	
63 140186 Pulley, Engine 165 165623 Bracket Pivot Lever	
64 71170764 BOIL HEX 7/16-20 X 4 GI. 5 166 166880 Screw 5/16-18 x 5/8	
65 51057143 Washer 168 165492 Bolt Shoulder 5/16-18 x .561	
66 154778 Keeper Belt Engine Hydro 169 165580 Plate Fastening Lt 70 134683 Guide Belt RH Engine 169 165580 Serger Them 2/9 16 17478	_
74 440450 Ctrop Torque I h Lludro 19/20"T 1/1 1/490608 SCIEW I I UI DI 3/0"10 X 1/2 1)	
72 19132012 Washer 13/32 x 1-1/4 x 12 Ga. NOTE: All component dimensions given in 0.3. Inches	:S
73 156347 Strap Torque Rh Hydro 0650 1 inch = 25.4 mm	

TRACTOR - - MODEL NUMBER 917.270840 STEERING ASSEMBLY

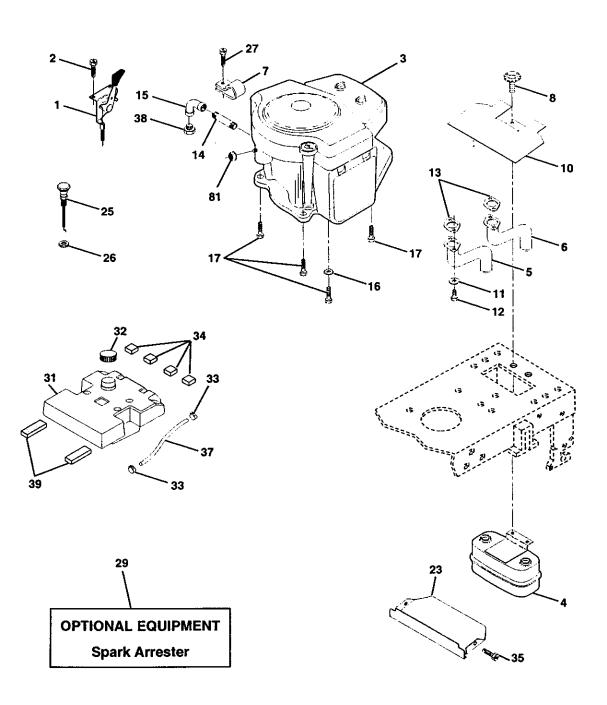


STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	139768	Steering Wheel
2	154427	Front Axle Assembly
3	156483	Spindle Assembly, L.H.
4	157473	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	156438	Link, Drag
11	STD551137	Washer, Lock
13	154779	Spacer, Bearing, Front Axle
15	73901000	Nut, Lock, Flange 5/8-11 UNC
17	156546	Shaft Assembly, Steering
18	57079	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
26	126847X	Bushing, Link, Drag
27	136874	Gear, Sector
28	19131416	Washer 13/32 x 7/8 x 16 Gauge
29	17490612	Screw, Thd., Roll. 3/8-16 x 3/4
30	STD561210	Pin
32	130465	Rod, Tie
36	155099	Bushing, Steering
37	152927	Screw TT #10-32 x 5 x 3/8 Flange
38	139769	Insert, Steering Wheel
39	19133808	Washer 13/32 x 2-3/8 x 8 Gauge
40	STD541537	Gripco Nut
41	100711L	Adaptor, Steering Wheel
42	145054	Boot, Steering Dash P/L Mtl Blk
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
44	153720	Extension Steering Non-Adjust
46	121232X	Cap, Spindle
47	6855M	Fitting, Grease
51	73800500	Nut Lock Hx W/lns 5/16-18 UNC
54	74780520	Bolt Fin Hex 5/16-18 UNC x 1-1/4
62	156594	Kit, Steering Assembly, Service
63	74780616	Bolt Fin Hex 3/8-16 unc. x 1 Gr. 5
65	154780	Spacer Axle
66	154404	Bearing Arm Pittman
67	74781044	Bolt Fin Hex 5/8-11unc x 2-3/4
68	154429	Brace Axle
79	19132012	Washer 13/32 x 1-1/4 x 12 Ga
80	74950612	Bolt Hex Nylon 3/8-16 x 3/4

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

ENGINE

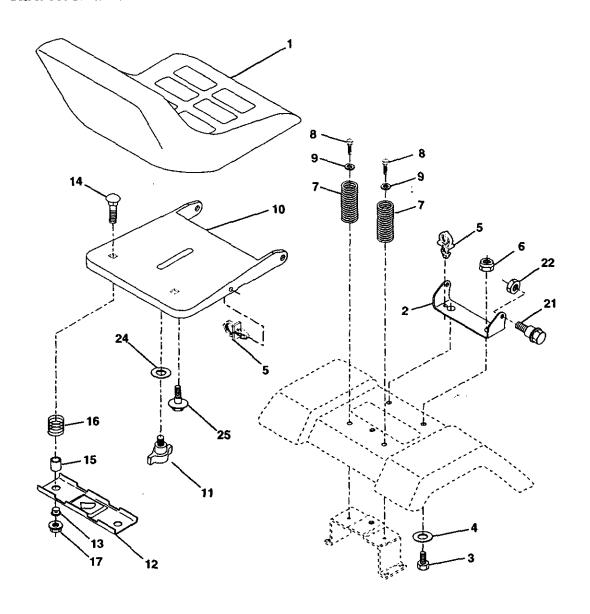


ENGINE

KEY NO.	PART '	DESCRIPTION
1	162152	Control Throt Paddle 32 22
2	17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3	17720410	
4	149723	Engine (See Breakdown) Briggs Model No. 461707-0145-E1 Muffler Exhaust
5	144069	Exhaust Asm. Left
6	144068	Exhaust Asm. Right
7	138129	Clamp Tube Double Engine
8	150176	Bolt 5/16 - 18 UNC X 3/4 W/Sems
10	145552	Heat Shield Lt
11	STD551125	Washer Lock Hvy. Helical 1/4
12	STD522507	Bolt Fin Hex 1/4-20 x 3/4
13	272250	Gasket Muffler
14	13280336	Nipple Pipe 4-1/2*
15	13200300	Elbow Std 90 Degree 3/8-18 Npt
16	STD551237	Washer Lock Ext Tooth 3/8
17	17490624	Screw Thdrol 3/8-16x1-1/2 Tytt
	159880	Shield Browning/Debris Guard
25	145996	Control Choke
26	73920600	Nut Keps 3/8-24 Unf
27	152927	Screw TT #10-32 x 5 x 3/8 Flange
29	137180	Arrestor Spark
31	157103	Tank Fuel 3 50 Rear
32	161696	Cap Fuel Guage STLT
33	123487X	Clamp Hose Blk
34	106082X	Spacer Pad
35	17490512	Screw Thdrol 5/16-18 x 3/4 TYT
37	8543R	Line Fuel
38		Plug Oil Drain (Order From Engine Manufacturer)
39	109227X	Pad Idler 1.75 x .75 x .06
40	3645J	Bushing
41	139277	Stem Tank Fuel
81	128861	Nut, Flange 1/4-20 Starter Nut

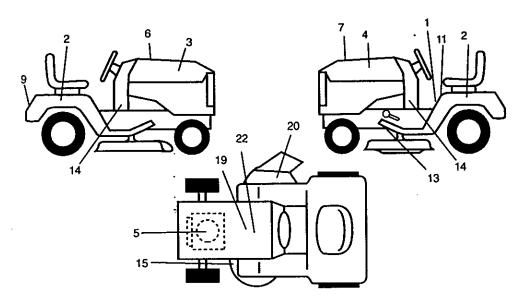
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

SEAT ASSEMBLY



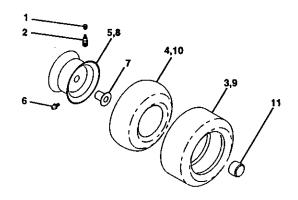
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140123	Seat 3450 Blk/blk Craftsman	12	121246X	Bracket Pnt Mounting Switch
2	140551	Bracket Pnt Pivot Seat (blk)	13	121248X	Bushing Snap Blk Nyl 50 Id
3	74760616	Bolt Fin Hex 3/8-16unc X 1	14	72050412	Bolt Rdhd Sht Nk 1/4-20x1-1/2
4	19131610	Washer 13/32 X 3/4 X 10 Ga	15	134300	Spacer Split 28 X 96 Zinc
5	145006	Clip Push In Hinged	16	121250X	Spring Cprsn 1 27 Blk Pnt
6	STD541437	Nut Hex Lock w/lns 3/8-16 Unc	17	123976X	Nut Lock 1/4 Lge Flg Gr 5 Zinc
7	124181X	Spring Seat Cprsn 2 250 Blk Zi	21	153236	Bolt Shoulder 5/16-18 Unc-2A
8	17490616	Screw Thdrol 3/8-16 X 1 Ty-tt	22	STD541431	Nut Hex Lock w/lns 5/16-18
9	19131614	Washer 13/32 X 1 X 14 Ga	24	19171912	Washer 17/32 X 1-3/16 X 12 Ga.
10	155925	Pan Pnt Seat (blk)	25	127018X	Bolt Shoulder 5/16-18 X 62
11	166369	Knob Seat		All component th = 25.4 mm	dimensions given in U.S. inch-

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	156439	Decal Fender Danger Sears	14	166927	Decal Dash Panel
2	163205	Decal Fend Auto Sears Gold	15	160396	Decal Mower Drive Schematic
3	163200	Decal Hood Rh Craftsman	19	138047	Decal, Battery Diehard Sears
4	163202	Decal Hood Lh Craftsman	20	166887	Decal Deck Mower EZ3
5	273503	Decal HP Engine	22	149516	Decal Battery
6	133644	Decal Maint Customer		138311	Decal Lift Handle
-		Sears Dom		142341	Decal, Drawbar Cntrl. Mvt.
7	167181	Decal Replacement Srs			Hyd. Lt.
9	163204	Decal Fender Craftsman Gold		154515	Pad Footrest Lh STLT
11	156811	Decal Fender STLTH Oper		154516	Pad Footrest Rh STLT
		Inst E/S		166711	Manual, Owner's (English)
13	146046	Decal V-belt Dr Sch Tractor E		166712	Manual, Owner's (Spanish)

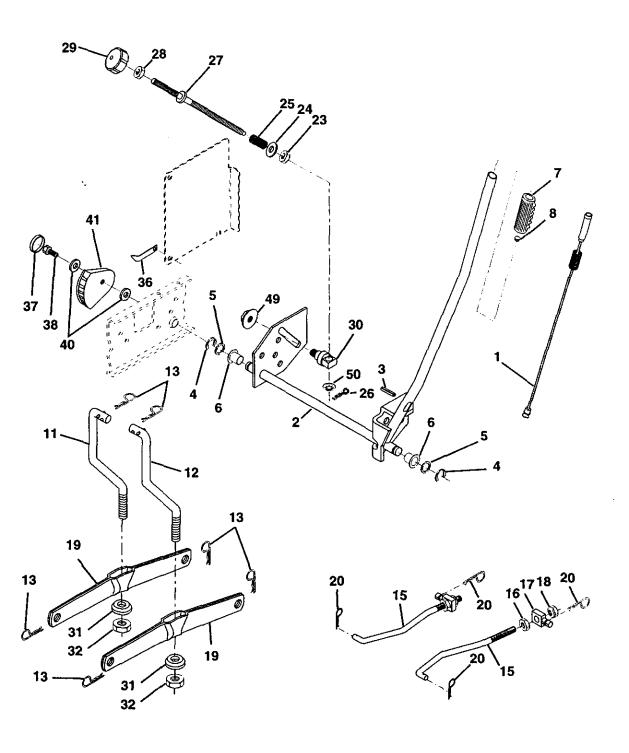
WHEELS & TIRES



KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Valve Cap, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front Tire
		(Not Provided, Service Item Only)
5	106732X427	Rim, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim, Rear
9	122082X	Tire, Rear
10	7152J	Tube, Rear Tire
		(Not Provided, Service Item Only)
11	104757X	Cap, Axle
	144334	Sealant, Tire (10 oz. Tube)

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

LIFT ASSEMBLY

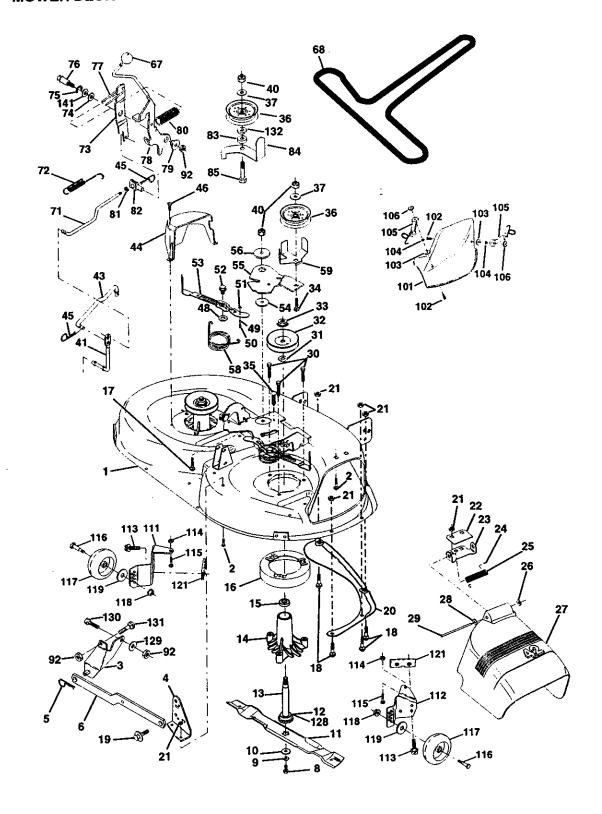


LIFT ASSEMBLY

KEY	PART	
NO.	NO.	DESCRIPTION
1	159460	Lift Lever Inner Wire Asm.
2	159471	Shaft Asm. Lift
3 -	105767X	Pin Groove
4 -	: 12000002	E Ring
5	19211621	Washer 21/32 x 1 x 21 Ga.
6	120183X	Bearing Nylong
7	125631X	Grip Handle Fluted
8	122365X	Button Plunger Read
11	139865	Link Asm Lift L.H.
12	139866	Link Asm Lift R.H.
13	STD624008	Retainer Spring
15	127218	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	73680800	Nut Lock W/Wsh 1/2-13 Unc
19	139868	Arm Suspension Mower
20	163552	Retainer Spring
	110807X	Nut, Special
24	19131016	Washer 13/32 x 5/8 x 16 Ga.
25	2876H	Spring
	76020308	Pin, Cotter 3/32 x 1/2
	126971X	Rod, Adjust Life
_	73350600	Nut, Hex Jam 3/8-16 UNC
	138057	Knob, Infinite Height Admustment
	150233	Trunnion, Inf. Height
31		Bearing, Pvt. Lift. Spherical
32		Nut Crownlock 3/8-24
	155097	Pointer Height Indicator
	123935X	Plug Hole Blk 1.485/1.515 Dia
	17490512	Screw Thdrol 5/16-18 x 3/4
	19112410	Washer 11/32 x 1-1/2 x 10 Ga
	155098	Indicator Height Stlt
-	145212	Nut, Hex Flange Lock
50	110452X	Nut, Push Phos. & Oil

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

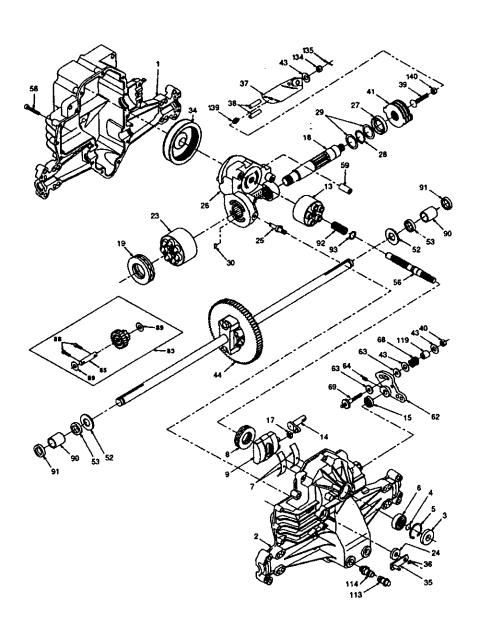
MOWER DECK



MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	164961	Mower Housing	59	141043	Guard, Tuv Idler (94)
2	STD533107	Bolt	67	162113	Knob Custom Oval
3	138017	Bracket Assembly, Sway Bar,	68	144200	V-Belt
_		Front	71	142427	Rod, Clutch, Primary, with Nibs
4	138440	Bracket Assembly, Sway Bar	72	131870	Spring, Return
5	STD624008	Retainer Spring	73	127847	Arm, Clutch, Secondary
6	130832	Arm, Suspension, Rear	74	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	75	12000029	Ring, Klip
9	STD551137	Washer, Lock	76	128903	Bolt, Shoulder 3/8-16 UNC x
10	140296	Washer, Hardened		407045	1.44
11	134149	Blade, Mulching	77	127845	Keeper, Spring
12		* Bearing, Ball	78	160570	Arm, Clutch, Primary
13	137645	Shaft Assembly, Mandrel,	79	127498	Bushing, Large, Brass
14	128774	Vented (Incl. Key Number 6)	80	153701	Spring, Mower Clutch
15	110485X	Housing, Mandrel, Vented	81	73350600	Nut, Hex Jam 3/8-16 UNC
16	140329	Bearing, Ball, Mandrel Stripper, Vented Mower Deck	82	142028	Trunnion Adj. 94
17	72110610	Bolt, Carriage 3/8-16 x 2-1/4	83	120958X	Washer Sintered
18	72140505	Bolt, Carriage 5/16-18 x 5/8	84	156084	Keeper Belt Idler
19	132827	Bolt, Shoulder	85 92	72140620 STD541437	Bolt Carriage 3/8-16 x 2-1/2
20	159770	Baffle, Vortex	92	S10541437	Locknut, Hex W/Wsh 3/8-16 UNC
21	STD541431	Nut, Crownlock 5/16-18 UNC	101	136420	Cover Mulching 42" Black
22	134753	Stiffener Bracket	102	71161010	Screw Truss Hd Phil10-24 x5/8
23	131267	Bracket, Deflector	103	19061216	Washer #10
24	105304X	Cap, Sleeve	104	STD551110	Washer Lock
25	123713X	Spring, Torsion, Deflector	105	160793	Latch Asm Bagger
26	110452X	Nut, Push	106	2029J	Nut Weld
27	130968	Shield, Deflector	111	155197	Bracket Gauge, Wheel LH
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	112	155198	Bracket, Gauge, Wheel RH
29	131491	Rod, Hinge	113	17490512	Screw Thdrol 5/16-18 x 3/4
30	157722	Screw Thdrol Rolling Wsh Hd	114	73510500	Nut, Hex Keps 5/16-18 UNC
31	129963	Washer, Spacer	115	72110504	Bolt, Carriage 5/16 UNC x 1/2
32	153535	Pulley, Mandrel	116	4898H	Bolt, Shoulder
33	137266	Nut, Toplock, Flanged	117	165746	Wheel, Gauge
34	STD533717	Bolt	118	73930600	Nut, Crownlock 3/8-16
35	133835	Fastner, Christmas Tree	119	19121414	Washer 13/32 x 7/8 x 14 Ga.
36	131494	Pulley, Idler, Flat	121	143723	Bracket
37	19131316	Washer 13/32 x 13/16 x 16 Ga.	128	153390	Washer Felt
40	STD541437	Nut, Crownlock 3/8-16 UNC	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
41	133551	Rod, Pivot, with Nibs	130	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1
43	140083	Rod, Clutch, Secondary, w/Nibs			Gr. 5
44	140088	Guard, Mandrel, L.H.	131	STD533710	Bolt Rdhd Sqnk 3/8-16 UNC x 1
45	STD624003	Retainer	132	19132203	Washer 13/32 x 1-3/8 x 3 Ga.
46	137729	Screw, Thd. Roll 1/4-20 x 5/8	141	6266H	Washer Thrust .75 x 1.230
48	133944	Washer, Hardened		130794	Mandrel Assembly (Includes
49	155066	Roller Assembly, Cam Follower			Key Numbers 8-10, 12-15, 31
50	131340	Bolt, Shoulder #10-24 Grade 5		104000	and 32) Mower Deck, Complete (Std
51	STD541410	Locknut		164963	deck - order separately mulcher
52	139888	Bolt, Shoulder 5/16-18 UNC			plate components key nos. 101-
53	131845X900	Arm Assembly, Pad, Brake			106)
54	133943	Washer, Hardened			ŕ
55	155046	Arm, Idler		•	dimensions given in U.S.inches
56 50	122052X	Spacer, Retainer	1 ic	nch = 25.4 mm	
58	140086	Spring, Torsion Brakes 42"			

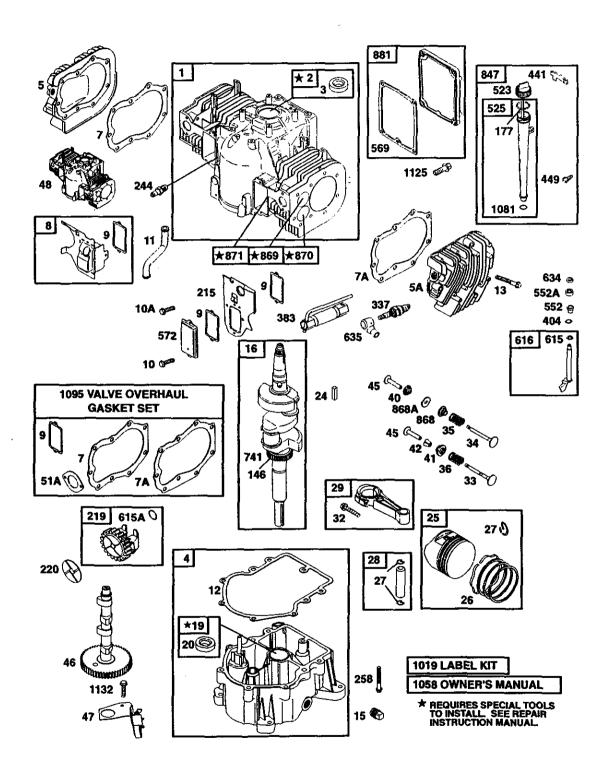
TRACTOR - - MODEL NUMBER 917.270840 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 319-0650



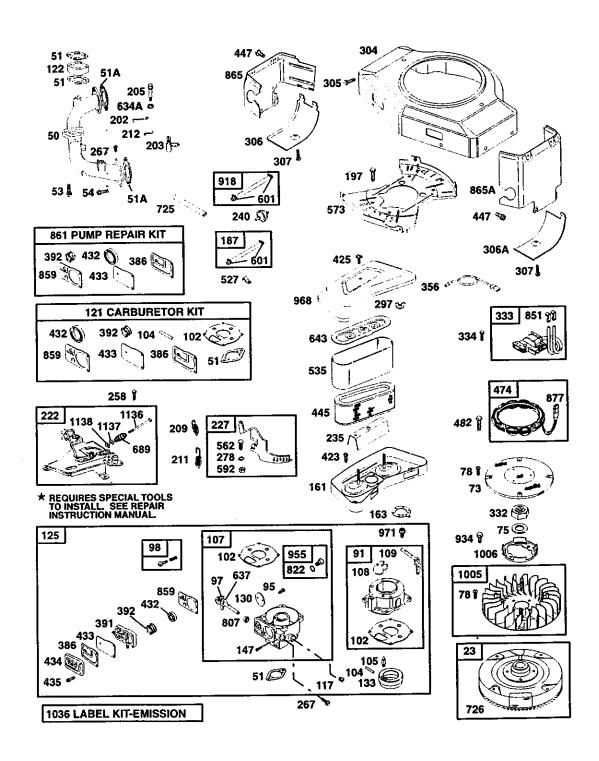
TRACTOR - - MODEL NUMBER 917.270840 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 319-0650

KEY	PART		KEY	PART	DECODIDEION
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	142930	Housing, Lower	43	142884	Washer 7/16 x 7/8 x .060
2	142931	Assembly, Upper Housing	44	150829	Differential Assembly
3	142932	Seal, Lip	52	142991	Washer 3/4 x 1.5 x .13
4	142932	Ring, Wire Retaining	53	142961	Seal .75 x 1.25 x .250
5	142928	Ring, Retaining	56	142963	Shaft, Input
6	142934	Bearing, Shaft Ball	58	142964	Bolt 1/4-20 x 1.38
7	142934	Bearing, Gradle	59	142965	Pin .5 OD x .43 ID x .750
8	150771	Bearing, Chaole Bearing, Thrust 30 x 52 x 13	62	142966	Arm, Control
9	142937	Swashplate, Variable	63	142967	Puck, Dampener
13	142937	Block, Cylinder Assembly	64	142920	Set Screw
14	142939	Arm, Trunnion	68	142969	Spring
15	142939	Seal, Lip	- 69	144610	Stud 5/16-24
17	142941	Guide, Slot	83	142971	Jackshaft Assembly
18	150772	Shaft, Motor	85	150806	Jackshaft
19	150772	Bearing, Thrust 42 x 68 x 16	88	142973	Screw, Cap
23	142944	Block, Cylinder Assembly	89	142974	Washer 7/16 x 1 x 1/2
23	142945	Seal, Lip 10 x 25 x 7	90	142975	Sleeve Bearing
25	142945	Actuator, Bypass	91	142976	Seal, Wiper
26	150774	Center Section Assembly Kit	92	142977	Spring, Block
27	142948	Seal, Lip 26 x 42 x 8	93	142978	Washer, Block Thrust
28	142946	Ring, Retaining	113	142917	Cap, Vent Assembly
29	142950	Washer 26 x 35 x 1	114	142918	Fitting, O-Ring Assembly
30	150787	Plate, Bypass	119	142980	Spacer
34	142951	Oil Filter Element	134	144607	Nut, Castle 5/16-24
35	142952	Am, Bypass	135	144608	Pin, Cotter
36	142953		139	150775	Spring, Compression
37	142954	Ring, Retaining Arm, Actuating	140	150776	Nut, Hex 5/16-24
38	142954	Pin, Actuating			
39	150777	Bolt 5/16-24 x 1-3/4	NOTE	: All compon	ent dimensions given in U.S. inches
40	150777	Locknut, Hex 5/16-24 UNJC		1 inch = 25.	
41	142958	Brake Rotor/Stator Kit			
41	142330	DIAKE NUIVI/SIAIVI NII			•

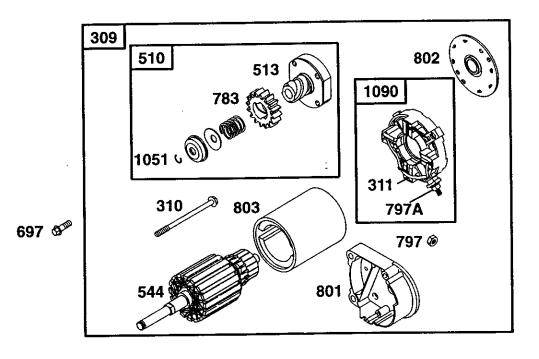
TRACTOR - - MODEL NUMBER 917.270840 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1

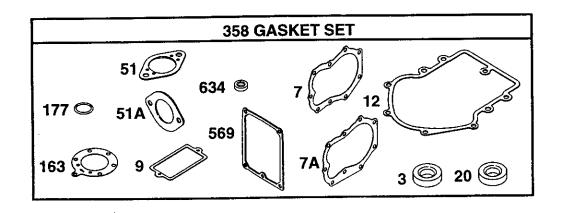


TRACTOR - - MODEL NUMBER 917.270840 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1



TRACTOR - - MODEL NUMBER 917.270840 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1





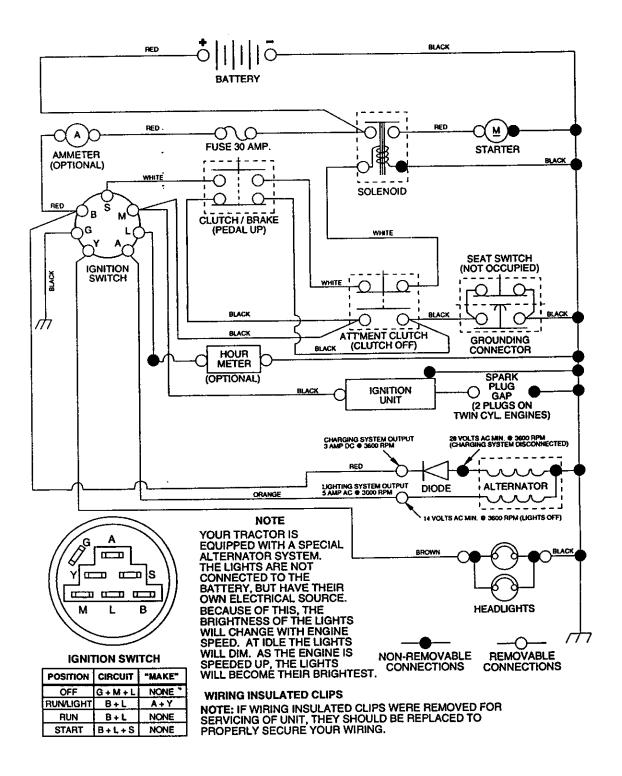
BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	498583	Cylinder Assembly	91	693483	Body Assembly-Upper
2	399265	Bushing/Seal Kit	95	690718	Screw (Throttle Valve)
3	91086	★ Seal-Oil	97	693485	Shaft-Throttle
4	493304	Sump-Engine	98	807923	Kit-Idle Speed
5	214517	Head-Cylinder #1	102	693509	Gasket-Carburetor Body
5 A	214518	Head-Cylinder #2	104	693506	Pin-Float Hinge
7	271867	★◆ Gasket-Cylinder Head #1	105	692078	Valve-Float Needle Party Assamble Levels
7A	271868	★◆ Gasket-Cylinder Head #2	107	693482	Body Assembly-Lower Valve-Choke
8	495754	Breather Assembly (Cylinder #1)	108 109	693505 693498	Shaft-Choke
9	27803	★◆ Gasket-Breather	117	693538	Jet-Main
10	94382	: Screw (Breather Assembly)	117	693500	Jet-Main (High Altitude)
10A	94380	Screw (Breather Cover)	121	491539	Carburetor Kit
11	280225	Tube-Breather	122	281411	Spacer
	273390	★ Gasket-Crankcase (.015" Thick,	125	693479	Carburetor
		Std.)	130	693504	Valve-Throttle
	271188	★ Gasket-Crankcase (.005" Thick)	133	693512	Float-Carburetor
	271189	★ Gasket-Crankcase (.009" Thick)	146	94196	Key-Timing
13	94565	Screw (Cylinder Head)	147	693508	Jet-Pilot
15	94239	Plug-Oil Drain	161	496599	Base-Air Cleaner
16	690666	Crankshaft Bushing	163	271411	★ Gasket-Air Cleaner
19 20	399264 291675	★ Seal-Oil	177	271170	★ Seal-O-Ring
23	491180	Flywheel	187	299146	Line-Fuel (Cut to Required Length)
24	222698	Key-Flywheel	197	95063	Screw (Back Plate)
25	499180	Piston Assembly (Standard)	202	262683	Link-Mechanical Governor
	499181	Piston Assembly (.010 "O.S.)	203	280997	Crank-Bell
	499182	Piston Assembly (.020" O.S.)	205	93971	Screw (Bell Crank)
	499183	Piston Assembly (.030" O.S.)	209	262352	Spring-Governor
26	499184	Ring Set, Piston (Standard)	211	261563	Spring-Governor
	499285	Ring Set, Piston (.010 "O.S.)	212	693985	Link-Throttle
	499186	Ring Set, Piston (.020 "O.S.)	215	224816	Guide-Air
	499187	Ring Set, Piston (.030 "O.S.)	219	394348	Gear-Governor
27	263129	Lock-Piston Pin	220	222773	Washer-Thrust (Governor Gear)
28	498319 498320	Pin Assembly, Piston (Std.)	222	491282	Bracket-Control
	490320	Pin Assembly-Piston (.005" O.S.)	227	491297	Lever-Governor
29	498314	Rod-Connecting (Standard)	235 240	224995 394358	Shield-Fuel Spray Filter-Fuel
	498541	Rod-Connecting (.020 U.S.)	240	230318	Connector-Hose (Pulse Line)
32	95017	Screw (Connecting Rod)	258	94930	Screw (Engine Sump)
33	390420	Valve-Exhaust (Include(s):	267	93897	Screw (Casing Clamp)
	494553	Keeper-Valve (Ref. No. 42))	278	94942	Washer (Governor Lever)
34	691302	Valve-Intake	297	94289	Nut-Wing (Air Filter Retainer)
35	65906	Spring-Valve (Intake)	304	691390	Housing-Blower
36	26828	Spring-Valve (Exhaust)	305	690960	Screw (Blower Housing)
40	221596	Retainer-Valve (Exhaust)	306	222846	Shield-Cylinder
41	292260	Retainer-Valve (Exhaust)	306A	223734	Shield-Cylinder
42	494553	Keeper-Valve	307	94930	Screw (Cylinder Shield)
45 46	261368	Tappet-Valve	309	497596	Motor-Starter
46 47	214487 393415	Camshaft Slinger-Oil	310	94003	Bolt (Starter Motor)
48	498542	Short Block	311	497608	Brush Set
50	213290	Manifold-Intake	332 333	230674	Nut (Flywheel) Armature-Magneto
51	271412	★● Gasket-Intake	333	394891 94731	Screw (Magneto Armature)
51A	270884	★◆ Gasket-Intake	337	802592	Plug-Spark
53	93970	Screw (Carburetor)	356	494705	Wire-Stop
54	93208	Screw (Intake Manifold)	358	495868	Gasket Set
73	691438	Screen-Rotating	383	89838	Wrench-Spark Plug
75	222511	Washer (Flywheel)	386	693490	●+ Gasket-Pump
78	691134	Screw (Flywheel Fan)	391	693487	Body-Pump
			55		

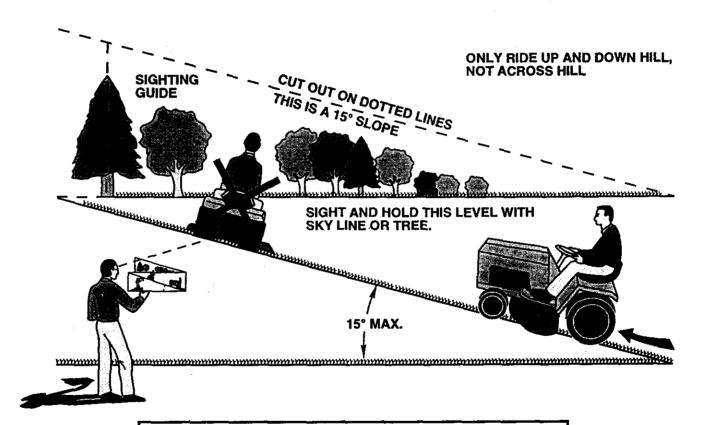
BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1

KEY NO.	PART NO.	· DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
392	693491	●+ Spring-Pump Diaphragm	871	261961	Bushing-Guide (Exhaust)
404	223882	Washer (Governor Crank)		231218	Bushing-Guide (Intake)
423	94674	Screw (Air Cleaner Base)	877	393456	Wire-Alternator
425	94823	Screw (Air Cleaner Cover)	881	495901	Plate-Cover
432	693492	●+ Cap-Spring	918	393815	Hose-Vacuum (Cylinder-To-
433	693489	Diaphragm-Fuel Pump			Impulse Pump)(Cut to Required
434	693493	Cover-Diaphragm			Length)
435	693494	Screw (Diaphragm Cover)	934	94627	Screw (Fan Retainer)
441	222875	Bracket-Oil Fill	955	693513	Plug-Carburetor
445	394019	Filter-Air	968	225008	Cover-Air Cleaner
447	93343	Screw (Air Guide Cover)	971	805540	Screw (Upper Body To Lower
449	94882	Screw (Oil Fill Bracket)			Body)
474	93474	Alternator	1005	498157	Fan-Flywheel
482	93621	Screw (Alternator)	1006	224901	Retainer-Fan
510	497606	Drive-Starter	1019	496726	Label Kit
513	398003	Clutch-Drive	1036	499382	Label Kit-Emission
523	494947	Dipstick	1051	263080	Ring-Retaining
525	495348	Tube-Oit Fill	1058	273688	Owner's Manual
527	223167	Clamp-Tube	1081	280860	★ Seal-O-Ring Retainer-Brush
535	272490	Filter-Air	1090	497605	Gasket Set-Valve Overhaul
544	97603	Armature-Starter	1095	498047	
552	262332	Bushing (Governor Crank)	1125	94724	Screw (Cover Plate)
552A	262331	Bushing (Governor Crank)	1132	94675	Screw (Oil Slinger) Screw (Governor, Control Rod)
562	93853	Bolt-Carriage (Governor Lever)	1136	94297	Washer (Governor, Control
569	272645	★ Gasket-Base	1137	220680	Rod)
572	222892	Cover-Breather (Cylinder #2)	1138	94298	Nut (Governor, Control Rod
573	491304	Plate-Back			145-E1Replacement Engine
592	92278	Nut (Governor Lever)		400707 0	140 E I topidoomont Engine
601	95162	Clamp-Hose	*	Included in	n Gasket Set, Ref Number 358.
615	94296	Retainer (Governor Crank)	ê		Carburetor Kit, Ref Number 121.
615A	93898	Retainer-Governor Shaft	•		n Value Overhaul Kit, Ref Number
616	491530	Crank-Governor	•		1095.
634	491287	★ Seal-Governor Shaft	+	Included is	n Fuel Pump Kit, Ref Number 861
634A	271013	Washer-Foam		★ ●◆ +	
635	66538	Boot-Spark Plug	NOTE	: All compo	nent dimensions given in U.S. inches
637	693510	Washer-Seal	1 inch	= 25.4 mm	
643	496700	Retainer-Air Filter			
689	262337	Spring-Friction			
697	93585	Screw (Drive Cap)			
725	280866	Shield-Heat			
726	91362	Gear-Ring			
741	262989	Gear-Timing			
783	693059	Gear-Starter			
797	94010	Nut (Starter Terminal)			
797A	693167	Nut (Starter Terminal)			
801	394860	Cap-Drive			
802	497607	Cap-End			
803	497604	Housing-Starter			
807	693511	Spacer Washer-Seal (Throttle Shaft)			
822	693497	Dipstick/Tube Assembly			
847	495715	Terminal-Cable			
851 860	493880	Diaphragm-Fuel Pump			
859 861	693488 393397	Kit-Fuel Pump			
865	224774	Cover-Air Guide			
865A		Cover-Air Guide Cover-Air Guide			
868		Seal-Valve			
868A		Seal-Valve			
869		Seat-Valve (Intake)			
870		Seat-Valve (Exhaust)			
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SCHEMATIC



SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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

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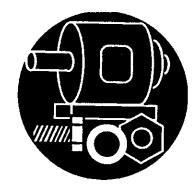
For the location of a Sears Parts and Repair Center in your area Call 24 hours a day, 7 days a week 1-800-488-1222

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

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- Product Type
 Part Number

- Model Number Part Description











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