Owner's Manual

16.5 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

Model No. 917.271141





- Assembly
- Operation
- Maintenance
- Repair Parts



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

CAUTION:

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

1-800-659-5917

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

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

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WARRANTY

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

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts and oil filters.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, including but not limited to, damage caused by towing objects beyond the capability of the riding equipment, impacting objects that bend the frame or crankshaft, or over speeding the engine.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the deck clear of flammable debris, or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within thirty (30) days of its purchase date.
- Riding equipment used for commercial or rental purposes.
- LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. Warranty service is available free of charge by taking your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States. TO LOCATE THE NEAREST SEARS SERVICE CENTER OR TO SCHEDULE IN-HOME WARRANTY SERVICE, SIMPLY CONTACT SEARS AT 1-800-4-MY-HOME This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

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

SAFETY RULES

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

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

SLOPE OPERATION

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

DO:

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

DO NOT:

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

CHILDREN

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

SARETY RULES

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

SERVICE

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





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



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

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

SAFETY RULES

ALook for this symbol to point out important safety precautions. It means CAU-TIONIII BECOME AWAREIII 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.

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

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

AWARNING: 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

and the second	
GASOLINE CAPACITY AND TYPE:	UNLEADED
OIL TYPE (API-SF/SG/SH):	SAE 10W30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	4.0PINTS
SPARK PLUG: (GAP: .030")	1
GROUND SPEED (MPH):	FORWARD: 5.5 REVERSE: 2.4
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 AMPS @3600 RPM
BATTERY:	AMP/HR: 30 MIN, CCA: 240 CASE SIZE:U1R
BLADE BOLT TORQUE:	27-35 FT. LBS

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

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

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

REPAIR AGREEMENT

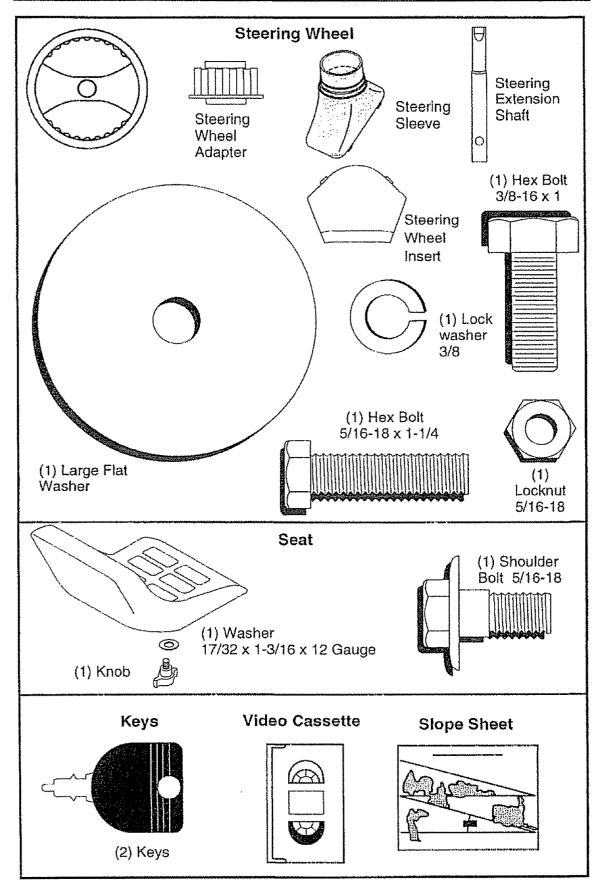
A Repair Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

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

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

UNASSEMBLED PARTS



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

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

(1) Tire pressure gauge

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

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

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

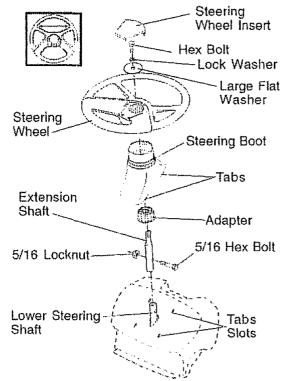
- Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.
- Place tabs of steering boot over tab slots in dash and push down to secure.

INSTALL STEERING WHEEL

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

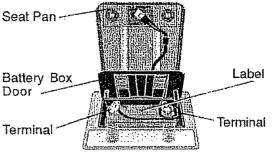
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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



HOW TO SET UP YOUR TRACTOR CHECK BATTERY

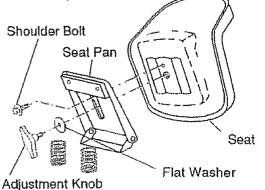
- Lift seat pan to raised position and open battery box door.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in MAINTENANCE section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

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



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

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

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

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

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

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

8

CHECK TIRE PRESSURE

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

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

CHECK DECK LEVELNESS

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

ALL BELTS

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

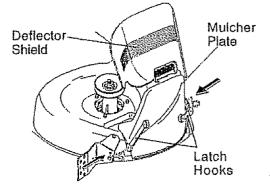
CHECK BRAKE SYSTEM

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

INSTALL MULCHER PLATE (If previously removed)

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

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



TO CONVERT TO BAGGING OR DISCHARGING

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

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

4CHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT. PLEASE REVIEW THE FOLLOWING CHECKLIST:

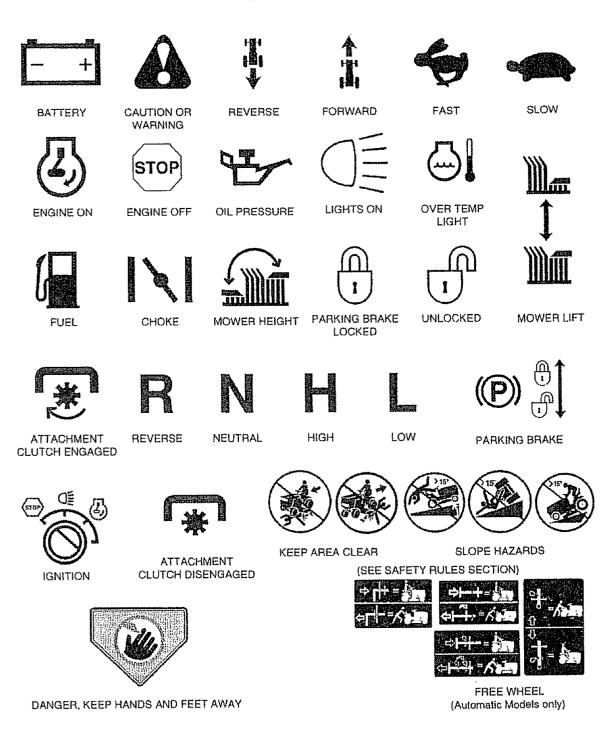
- 3 All assembly instructions have been completed.
- 3 No remaining loose parts in carton.
- 3 Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- 3 Seat is adjusted comfortably and tightened securely.
- 3 All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- 3 Be sure mower deck is properly leveled side-to-side/front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- 3 Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- 3 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:

- 3 Engine oil is at proper level.
- 3 Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- 3 Become familiar with all controls their location and function. Operate them before you start the engine.
- 3 Be sure brake system is in safe operating condition.
- 3 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
- g section of this manual).

OPERATION

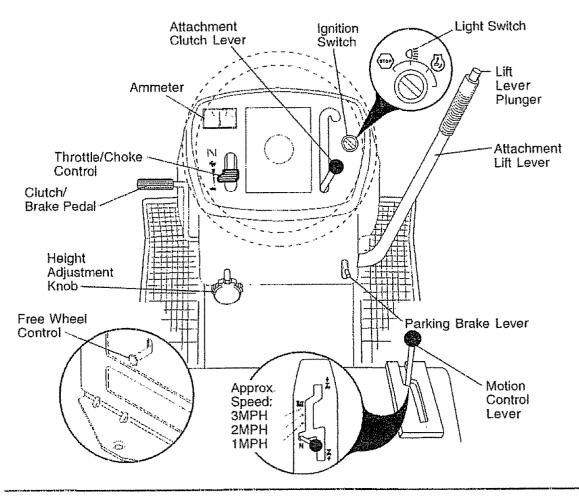
These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



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.

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

ATTACHMENT CLUTCH LEVER - Used to engage the mower blades, or other attachments mounted to your tractor. ATTACHMENT LIFT LEVER - Used to raise, lower, and adjust the mower deck or other attachments mounted to your tractor.

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

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower cutting height. MOTION CONTROL LEVER - Selects the speed and direction of tractor. FREEWHEEL CONTROL - Disengages transmission for pushing or slowly towing the tractor with the engine off. IGNITION SWITCH - Used for starting and stopping the engine.

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

LIGHT SWITCH - Turns the headlights on and off.

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

THROTTLE/CHOKE CONTROL - Used for starting and controlling engine speed.

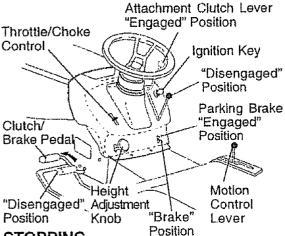


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

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



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.

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

TO USE THROTTLE CONTROL

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACKWARD

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

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

TO ADJUST MOWER CUTTING HEIGHT

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

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

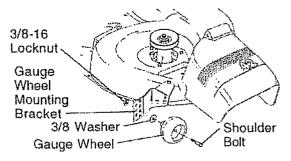
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

TO ADJUST GAUGE WHEELS

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

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

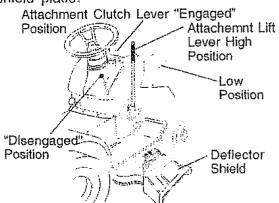


TO OPERATE MOWER

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

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

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



TO OPERATE ON HILLS

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

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

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

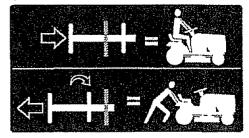
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

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

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control out and down into the slot and release so it is held in the disengaged position.
- Do not push or low 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.
- Unthread and remove oil fill cap/ dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

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

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

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

TO START ENGINE

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

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

AUTOMATIC TRANSMISSION WARM UP

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

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

PURGE TRANSMISSION

A CAUTION: 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.

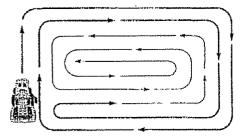
- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control 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 now ready for normal operation.

MOWING TIPS

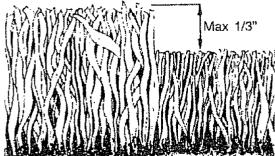
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to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



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1 - Change more often when operating under a heavy load or in high ambient temperatures

2 - Service more offen when operating in dirty or dusty conditions

3 - Il aquipped with al filter, change oil every 50 hours 4 - Replace blades more often when moving 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.

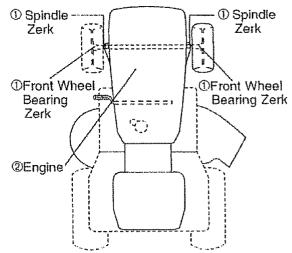
5 - If equipped with adjustable system

Not required if equipped with maintenance free battery
 Tighten front axle pivot bolt to 35 ft -lbs maximum

The second second second second

Do not overlighten

LUBRICATION CHART



①General Purpose Grease
②Refer to Maintenance "Engine" Section
IMPORTANT: Do not oil or grease the pivot points which have special nylon bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

OPERATOR PRESENCE SYSTEM

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

- The engine should not start unless the clutch/brake pedal is fully depressed and attachement 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

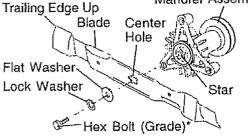
- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.

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 Assembly



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

TO SHARPEN BLADE

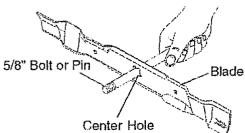
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

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

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

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



BATTERY

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

- Keep battery and terminals clean.
- · Keep battery bolts tight.
- · Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.

NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

TO CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

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

V-BELTS

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

TRANSAXLE COOLING

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

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

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

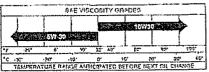
TRANSAXLE PUMP FLUID

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

ENGINE

LUBRICATION

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



Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one 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 "PRODUCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.



CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

AIR FILTER

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

Service air cleaner more often under dusty conditions.

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

TO SERVICE PRE-CLEANER

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

TO SERVICE CARTRIDGE

• Replace a dirty, bent, or damaged cartridge.

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

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

MUFFLER

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

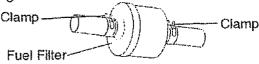
SPARK PLUGS

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

IN-LINE FUEL FILTER

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

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



CLEANING

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

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

SERVICE AND ADJUSTMENTS

A CAUTION: Before performing any service or adjustments:

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

TRACTOR

TO REMOVE MOWER

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

- Place attachment clutch in "DISEN-GAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Remove small retainer spring, and lift clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide out of bracket.
- 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.

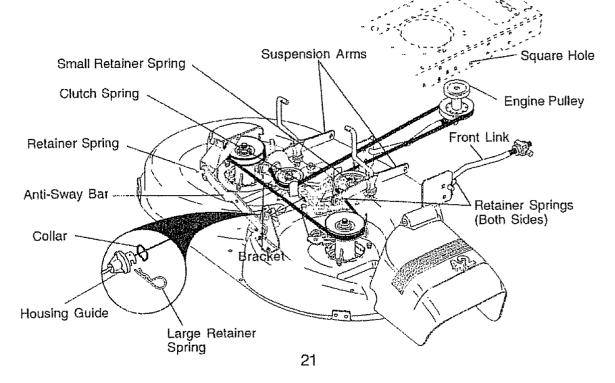
IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links and hook the clutch spring Into square hole in frame.

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.

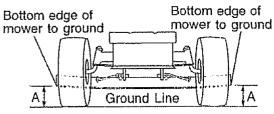
TO LEVEL MOWER HOUSING

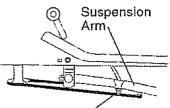
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.



SIDE-TO-SIDE ADJUSTMENT

- · Raise mower to its highest position.
- 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.





Lift Link Adjustment Nut

FRONT-TO-BACK ADJUSTMENT

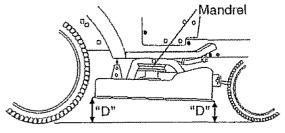
IMPORTANT: Deck must be level side-to side. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

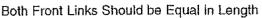
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

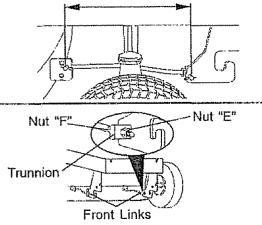
Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.

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







TO REPLACE MOWER BLADE DRIVE BELT

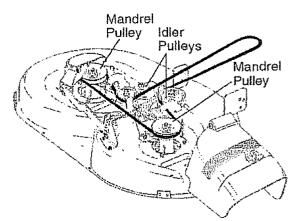
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

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

BELT INSTALLATION -

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



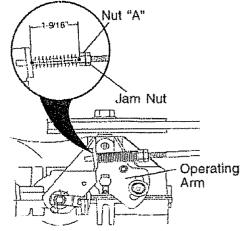
TO ADJUST BRAKE

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

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

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

With Parking Brake "Engaged"

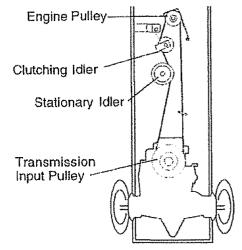


Do not touch this nut. If further brake adjustment is necessary contact your nearest authorized service center/department

TO REPLACE MOTION DRIVE BELT

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

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



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.

TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT

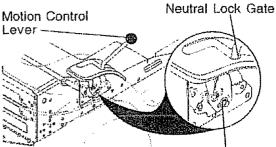
The motion control lever has been preset at the factory and adjustment should not be necessary.

- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment bolt.

 Move motion control lever to the neutral (N) (lock gate) position.

• Tighten adjustment bolt securely. NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position. After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:

- · Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- · Tighten adjustment bolt securely.
- · Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.



Adjustment Bolt

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.

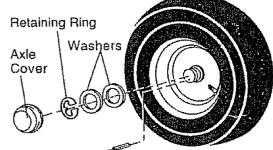
FRONT WHEEL TOE-IN/CAMBER

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/department.

TO REMOVE WHEEL FOR REPAIRS

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

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.



Square Key (Rear Wheel Only)

TO START ENGINE WITH A WEAK BATTERY

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

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

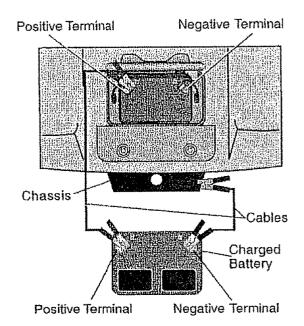
If "jumper cables" are used for emergency starting, follow this procedure: **IMPORTANT**: Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

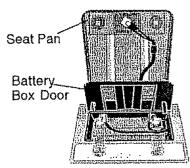


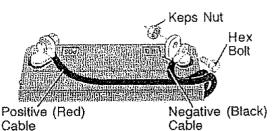
REPLACING BATTERY

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 seat pan to raised position and open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and carefully remove battery from tractor.
- Install new battery with terminals in same position as old battery.
- First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.
- Close battery box door.





TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

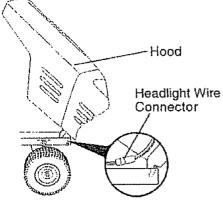
 Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

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

TO REMOVE HOOD AND GRILL ASSEMBLY

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



ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any 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 from slow to choke position. Slowly move lever from choke to fast position.
- Check to see if hole in throttle lever and hole in speed control bracket are aligned.
- If holes are not aligned, loosen cable clamp screw and align the holes by inserting a pencil or a 1/4" drill bit through both holes.
- Pull throttle cable up to remove slack and tighten cable clamp screw. Remove alignment pencil or drill bit.

TO ADJUST CARBURETOR

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

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

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

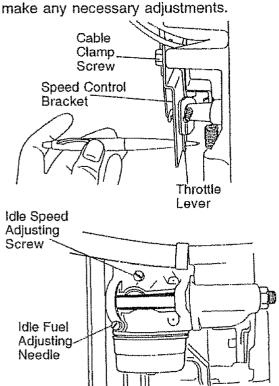
NOTE: The carburetor on this engine is low emission. It is equipped with an idle fuel adjusting needle with a limiter cap, which allows some adjustment within the limits allowed by the cap. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the adjusting needle.

- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- Start engine and allow to warm for five minutes. Make adjustments with engine running and shift/motion control lever in neutral (N) position.

- Idle speed setting With throttle control lever in slow position, engine should idle at 1750 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting With throttle control lever in slow position, turn idle fuel adjustment needle in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

 Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle fuel adjusting needle out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly. High speed stop is factory adjusted. Do not adjust - damage may result. **IMPORTANT:** Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest AUTHO-RIZED service center/department, which has proper equipment and experience to



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

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

TRACTOR

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

- Clean entire tractor (See "CLEANING" in the Maintenance section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- 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.

STORAGE

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

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

TROUBLESHOOTING CHART

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

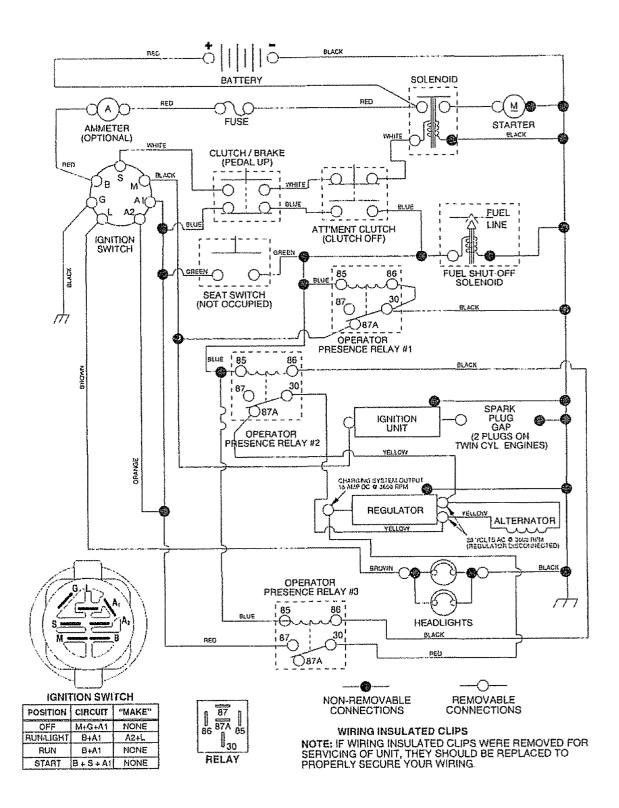
TROUBLESHOOTING CHART

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

TROUBLESHOOTING CHART

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

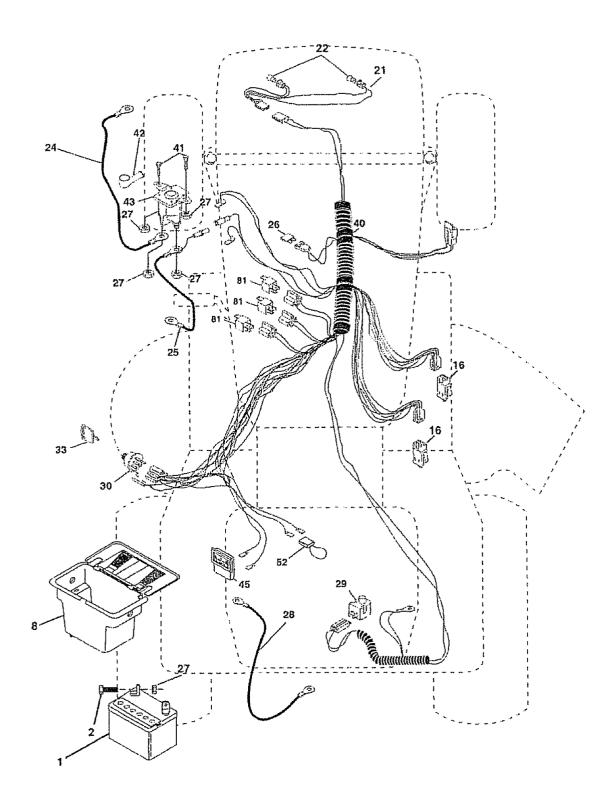
SCHEMATIC



REPAIR PARTS

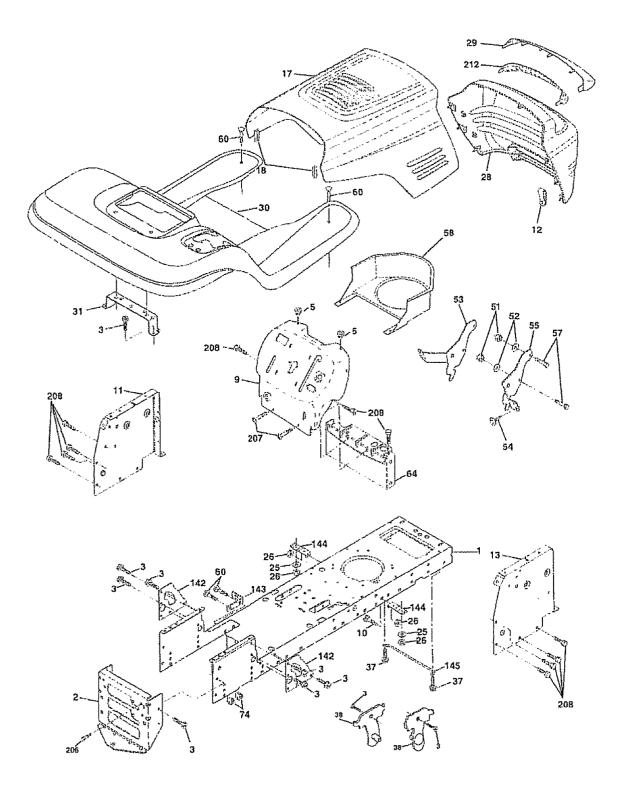
TRACTOR -- MODEL NUMBER 917.271141

ELECTRICAL



KEY PART NO. NO. DESCRIPTION Battery Bolt, Hex 1/4-20 x 3/4 1 163465 2 74760412 B 156417 Case Battery Switch Interlock 16 161343 Hamess, Light Socket (w/4152J) 21 166182 22 4152J Light Bulb Cable, Battery Cable, Battery 24 4799J 25 26 146147 166180 Fuse Fuse Nut Keps Hex 1/4-20 Unc Cable, Ground Switch, Seat Switch, Ignition Key, Molded Harness, Ignition Bolt Blk Fin Hex 1/4-20 UNC x 1/2 27 73510400 28 4207J 29 160784 30 163968 33 140403 40 170219 41 71110408 Cover, Terminal 42 131563 43 145673 Solenoid 45 122822X Ammeter Protection Wire Loop (Hour Meter) 52 141940 81 109748X **Relay Asm**

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

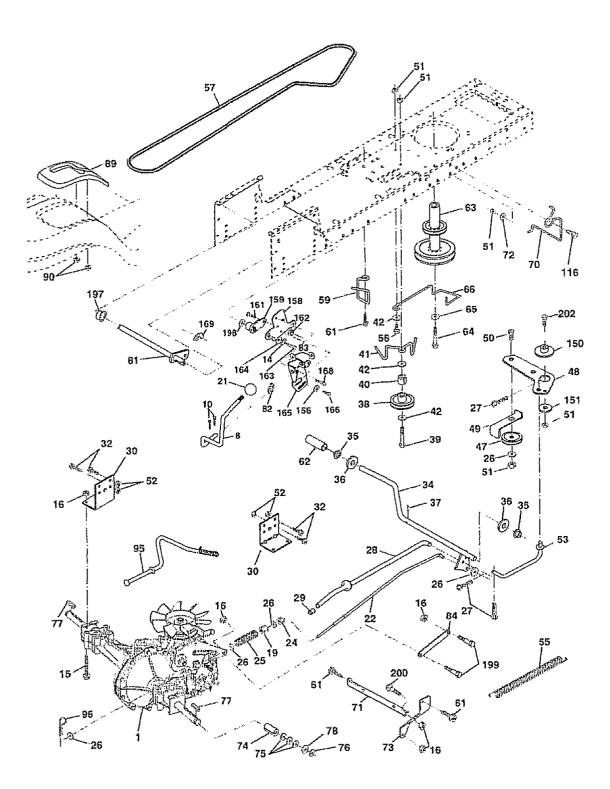


TRACTOR -- MODEL NUMBER 917.271141 CHASSIS AND ENCLOSURES

KEY PART NO. NO.	DESCRIPTION
1 169830	Chassis
2 169061	Drawbar
3 17060612	Screw 3/8-16 x 3/4
5 155272	Bumper Hood/Dash
9 168337X013	Dash
10 STD533710	Bolt, Carriage 3/8-16 x 1
11 155927	Panel, Dash, LH
12 145660	Clip Tinnerman Grille P/L
13 172108	Panel, Dash, RH
17 144983X558	Hood Assembly
18 126938X	Bumber Hood
20 156437	Plate Mlg Battery Fuel Tank
23 124028X	Bushing, Snap, Nylon, Fuel Line
25 19131312	Washer 13/32 x 13/16 x 12 Gauge
26 STD541437	Locknut, Hex. with Insert 3/8-16 UNC
28 156725X558	Grille/Lens Asm.
29 155217X599	Lens, Grille
30 164919X558	Fender/Footrest
31 139976	Bracket, Fender/Support
37 17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38 169834	Pivot Bracket Assembly, LH, Mower, Rear
51 73800400	Nut Lock W/Insert 1/4 - 20 UNC Washer 9/32 X 7/8 X 16 Ga
52 19091416	Bracket Grille Pickoff LH
53 145201 54 161464	Screw, Hex Wshd #8-18 x 7/8
55 145202	Bracket Grille Pickoff RH
57 STD552507	Bolt FinHex 1/4 -20 UNC X 75
58 150127	Air Duct
60 72140606	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64 154798	Dash Lower STLT
74 STD541437	Nut Crownlock 3/8-16 UNC
142 165867	Plate Reinforcement STLT
143 154966	Bracket Swaybar Chassis
144 154207	Bracket Footrest STLT
145 156524	Rod Pivot Chassis/Hood
206 170165	Boll Shoulder 5/16-18TT
207 17670508	Screw Thdrol 5/16-18 x 1/2
208 17670608	Screw Thdrol 3/8-16 x 1/2
212 165919	Insert Lens Reflective
5479J	Plug Button

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

GROUND DRIVE



36

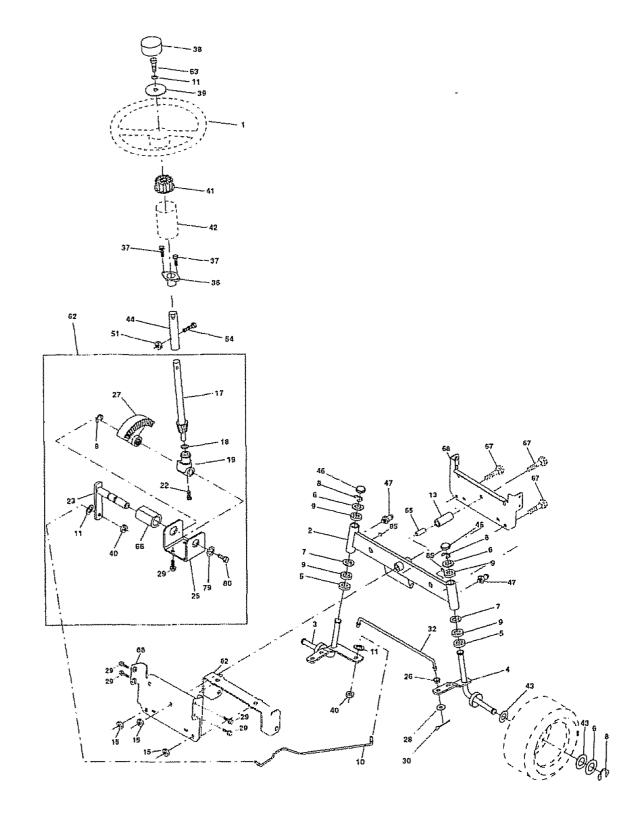
TRACTOR - - MODEL NUMBER 917.271141

GROUND DRIVE

KE NO	• • • • • •	DESCRIPTION	KEY NO.
			71 16
1		Transaxle Hydro Gr 314-0510	72 19
	405000	(See Breakdown) Rod Shift Fender Adjust	73 16
8	165866 STD561210	Pin Cotler 1/8 x 1 CAD	74 16
10 14	10040400	Washer Lock Hvy Helical	75 12
15	74490544	Bolt Hex FLGHD 5/16-18 GR.5	76 ST
16	STD541431	Nut Lock Hex W/Ins. 5/16-18 unc	77 12
19	STD541437	Nut Lock Hex W/Wsh 3/8-16 unc	78 12
21	130564	Knob, Deluxe 1/2-13	81 16
22	169498	Rod, Brake Hydro	82 16
24	73350600	Nut, Hex Jam 3/8-16 Unc	83 19
25	106888X	Spring, Brake Rod	84 16
26	STD551037	Washer	89 16
27	STD561210	Pin Cotter 1/8 x 3/4 CAD	90 12
28	145204	Rod, Parking Brake	95 17
29	71673	Cap, Parking Brake	96 44
30	169592	Bracket, Transaxle	116 72
32	74760512	Boll Hex Hd 5/16-18 Unc x 3/4	150 16
34	155071	Shaft, Foot Pedal	151 19
35	120183X	Bearing, Nylon	156 16
36	19211616	Washer	158 16
37	1572H	Pin, Roll	159 16
38	131494	Pulley, Idler, Flat	161 72
39	72110622	Bolt	162 73 163 74
40	4470J	Spacer, Split	163 74
41 42	165838	Keeper, Belt Idler Washer 13/32 x 13/16 x 12 Ga	165 16
42	19131312 127783	Pulley, Idler, V-Groove	166 16
48	154407	Bellcrank Clutch Grnd Drv STL	168 16
49	123205X	Retainer, Belt	169 16
50	STD523715	Bolt	197 16
51	STD541437	Nut Crownlock 3/8-16 UNC	198 16
52	STD541431	Nut, Crownlock 5/16-18 Unc	199 16
53	105710X	Link, Cluich	200 72
55	105709X	Spring, Return, Clutch	202 72
56	STD523712	Bolt Hex 3/8-16 x 1-1/4	
57	140294	V-Belt, Ground Drive	NOTE
59	169691	Keeper, Center Span	11
61	17060612	Screw 3/8-16 x 3/4	
62	8883R	Cover, Pedal	
63	140186	Pulley, Engine	
64		Bolt Hex 7/16-20 x 4 Gr. 5	
65	STD551143	Washer	
66	154778	Keeper Bell Engine Hydro	
70	134683	Guide Belt RH Engine	

PART	
NO.	DESCRIPTION
169183	Strap Torque Lh
19132012	Washer 13/32 x 1-1/4 x 12 Ga
169182	Strap Torque Rh
169496	Spacer, Split
121749X	Washer 25/32 x 1-1/4 x 16 Ga.
STD581075	E-Ring
123583X	Key, Šquare
121748X	Washer 25/32 x 1-5/8 x 16 Ga.
165596	Shaft Asm Cross
165711	Spring Torsion
19171216	Washer 17/32 x 3/4 x 16 Ga.
169594	Link Transaxle
164890X428	Console, Shift
124346X	Nut Self-Thd Wsh-hd 1/4 Zinc
170201	Control Bypass
4497H	Retainer Spring 1" Zinc/Cad
72110610	Bolt Carr. 3/8-16 x 1.25
165850	Bushing Belicrank Grd Drive
19133210	Washer 13/32 x 2 x 10 Ga.
166002	Washer Srited 5/16ID x 1.125
165589	Bracket Shift Mount
165494	Hub Tappered Flange Shift Lt
72140406	Bolt Rond Sqnk 1/4-20 x 3/4 Gr. 5
73680400	Nut Crownlock1/4-20 Unc
74780416	Boll Hex Fin 1/4-20 Unc x 1 Gr. 5 Washer 5/8 x .281 x 10 Ga
19091010	Bracket Pivot Lever
165623	Screw 5/16-18 x 5/8
166880 165492	Bolt Shoulder 5/16-18 x .561
165580	Plate Fastening Lt
169613	Nyliner Snap-In
169593	Washer Nyliner
169612	Bolt Shoulder 5/16-18UNC
72140508	Bolt RDHD SQNK 5/16-18UNC x 1
72110612	Boll Carr SH 3/8-16 x 1-1/2Gr.5
1 Sec 1 1 1 1 1 1 1 1 1	where where we have here a structure

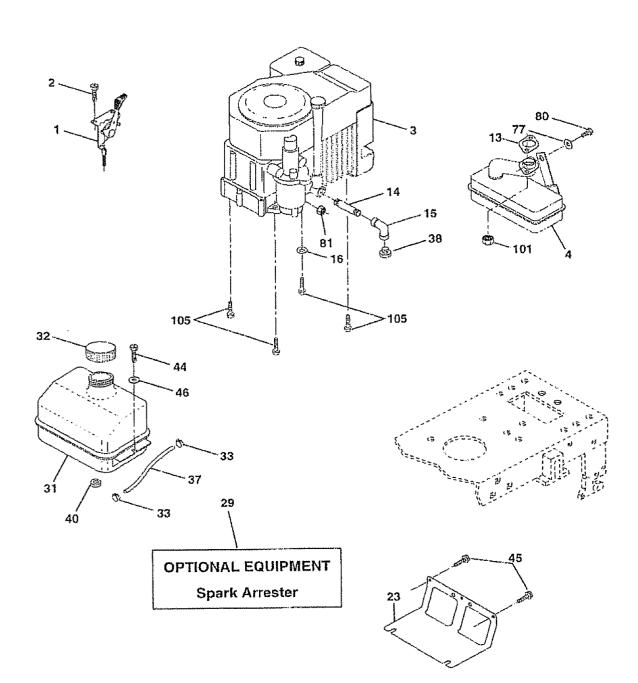
NOTE: All component dimensions given in U.S. Inches 1 Inch = 25.4 mm



TRACTOR -- MODEL NUMBER 917.271141 STEERING ASSEMBLY

KEY PART NO. NO.	DESCRIPTION
1 139768	Steering Wheel
2 154427	Front Axle Assembly
3 169840	Spindle Assembly, L.H.
4 169839	Spindle Assembly, R H.
5 6266H	Bearing, Race, Thrust, Hardened
6 121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7 19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8 12000029	Ring, Klip
9 3366R	Bearing, Steering Column
10 169832	Link, Drag
11 STD551137	Washer, Lock
13 136518	Spacer, Bearing, Front Axle
15 145212	Nut, Hexflange Lock
17 156546	Shaft Assembly, Steering
18 57079	Washer, Thrust 515 x 750 x 033
19 160395	Support, Shaft
22 165857 23 165851	Screw hex Wshhd Torx
23 165851 25 154406	Piltman Shaft Assembly Bracket, Steering
26 126847X	Bushing, Link, Drag
27 136874	Gear, Sector
28 19131416	Washer 13/32 x 7/8 x 16 Gauge
29 17060612	Screw 3/8-16 x 3/4
30 STD561210	Pin
32 130465	Rod, Tie
36 155099	Bushing, Steering
37 152927	Screw TT #I0-32 x 5 x 3/8 Flange
38 139769	Insert, Steering Wheel
39 19133812	Washer 13/32 x 2-3/8 x 12 Gauge
40 STD541537	Lock Nut Center 3/8-24 UNF
41 100711L	Adaptor, Steering Wheel
42 145054X428	Boot, Steering Dash P/L MII 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 54 74780520	Nut Lock Hx W/Ins 5/16-18 UNC Bolt Fin Hex 5/16-18 UNC x 1-1/4
54 74780520 62 167902	Kit, Steering Assembly, Service
63 74780616	Bolt Fin Hex 3/8-16 unc. x 1 Gr. 5
65 160367	Spacer Brace Axle
66 154404	Bearing Arm Pillman
67 72140618	Bolt Rdhd Sq 3/8-16 Unc x 2-1/4
68 169827	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
82 169835	Bracket Susp Chassis Front
85 133835	Fastener Christmas Tree

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

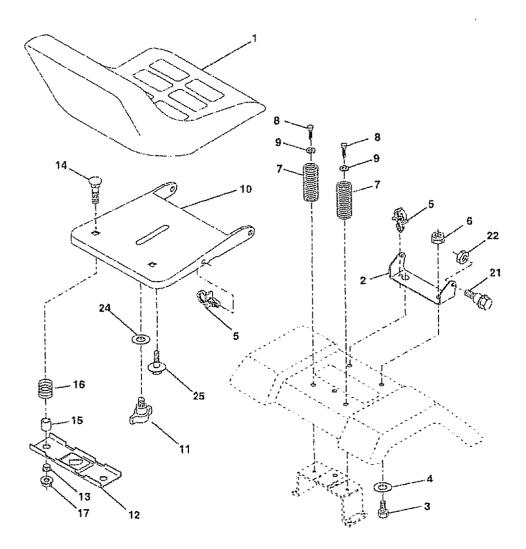


KEY PART NO. NO.	DESCRIPTION
1 162152	Control Throt 1 Ch
2 17720410	Screw Hex Thd Cut 1/4-20x5/B T
3	Engine (See Breakdown) Kohler Model No. CV16.5S-43527
4 159420	Muffler
13 12-041-03	Gasket
14 13280328	Nipple, Pipe 3/8 NPT x 3-1/2
15 13200300	Elbow, Std 90 Degree 3/8-18 Npt
16 STD551237	Washer
23 169837	Shield, BRN/DBR Guard
29 137180	Arrestor, Spark
31 109202X	Tank, Fuel
32 158990	Cap Assembly, Fuel Tank, Vented
33 123487X	Clamp Hose Blk
37 137040	Line Fuel
38	Plug Oil Drain (See Engine Breakdown)
40 124028X	Bushing, Snap, Fuel Line
44 17490412	Screw, Hex Washer Head, Thd. Roll 1/4-20 x 3/4
45 17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
46 19091416	Washer, 9/32 x 7/8 x 16 Guage
77 19101216	Washer 5/16 x 3/4 x 16 Guage
80 74760508	Bolt, Hex Hd 5/16-18 Unc x 1/2
81 73510400	Nut, Keps Hex 1/4-20 Unc
101 M73030800	Nul Flange MB-1 25
105 17120616	Screw 3/8-16 x 1
NOTE: All comp	onent dimensions given in U.S. inches

1 inch = 25.4 mm

KEY PART NO. NO.

12

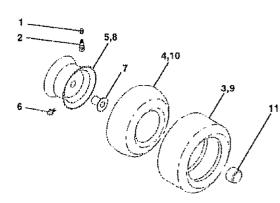


Y PART D. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
140123 140551 71110616 19131610 145006 STD541437 124181X 17000616 19131614 155925 166369 121246X	Seal 3450 Blk/blk Craftsman Bracket Pnt Plvot Seat (blk) Bolt Fin Hex 3/8-16unc X 1 Washer 13/32 X 3/4 X 10 Ga Clip Push In Hinged Nut Hex Lock w/ins 3/8-16 unc Spring Seat Cprsn 2 250 Blk Zl Screw 3/8-16 x 1.5 SMGML Washer 13/32 X 1 X 14 Ga Pan Pnt Seat (blk) Knob Seat Bracket Pnt Mounting Switch	13 121248X 14 72050412 15 134300 16 121250X 17 123976X 21 171852 22 STD541431 24 19171912 25 127018X NOTE: All compo 1 inch = 2	Bushing Snap Bik Nyl 50 ld Bolt Rdhd Sht Nk 1/4-20x1-1/2 Spacer Split 28 X 96 Zinc Spring Cprsn 1 27 Bik Pnt Nut Lock 1/4 Lge Fig Gr 5 Zinc Bolt Shoulder 5/16-18 Unc-2A Nut Hex Lock w/Ins 5/16-18 Washer 17/32 X 1-3/16 X 12 Ga. Bolt Shoulder 5/16-18 X 62 nent dimensions given In U.S. Inches 25.4 mm

Inches

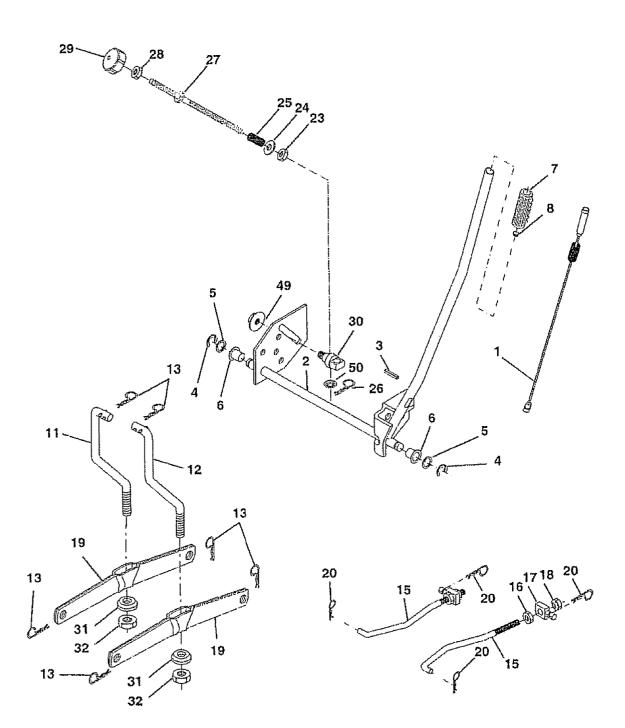
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 156439 2 163205 3 171698 4 171699 5 168920 6 133644 7 171765 9 163204 11 156811 13 146046 14 163263	Decal Fender Danger Sears Decal Fend Auto Sears Gold Decal Hood Rh Craitsman Decal Hood Lh Craitsman Decal Engine Decal Maint Customer Sears Dom Decal Replacement Srs Decal Replacement Srs Decal Fender Craftsman Gold Decal Fender STLTH Oper Inst E/S Decal V-belt Dr Sch Tractor E Decal Dash Panel	15 160396 19 138047 20 166887 22 149516 169210 138311 165800X428 165799X428 174250 174251	Decal Mower Drive Schematic Decal, Battery Diehard Sears Decal Deck Mower EZ3 Decal Battery Decal By Pass Lt Hydro Decal Lift Handle Pad Footrest Lh STLT Pad Footrest Rh STLT Manual, Owner's (English) Manual, Owner's (Spanish)

WHEELS & TIRES



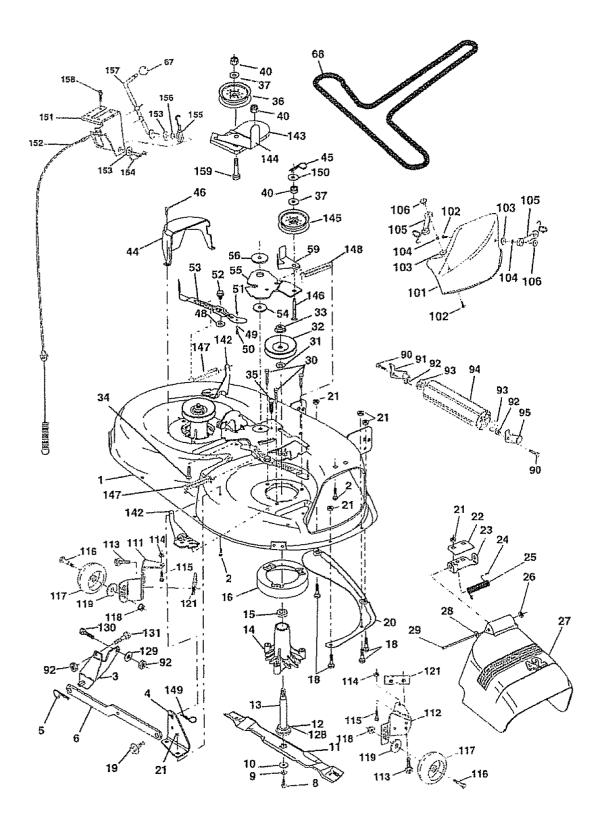
KE NO	Y PART	DESCRIPTION
1	59192	Valve Cap, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front Tire
		(Not Provided, Service Item Only)
5	106732X427	Rim, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim, Rear
9	122082X	Tire, Rear
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



KEY PART NO. NO.	DESCRIPTION
1 159460	Lift Lever Inner Wire Asm
2 159471	Shaft Asm. Lift
3 105767X	Pin Groove
4 12000002	ERing
5 19211621	Washer 21/32 x 1 x 21 Ga.
6 120183X	Bearing Nylon
7 125631X	Grip Handle Fluted
8 122365X	Bullon Plunger Red
11 139865	Link Lift L.H.
12 139866	Link Lift R.H.
13 STD624008	Retainer Spring
15 173288	Link Front
16 73350800	Nut Jam Hex 1/2-13 Und
17 130171	Trunnion
18 73800800	Locknut, Hex, with Washer Insert 1/2-13 Unc
19 139868	Arm Suspension Rear
20 163552	Retainer Spring
23 110807X	Nut, Special
24 19131016	Washer 13/32 x 5/8 x 16 Ga.
25 2876H	Spring Detained Clin
26 169484	Retainer Clip Red Adjust 1 10
27 126971X	Rod, Adjust Lift Nut, Hex Jam 3/8-16 UNC
28 73350600 29 138057	Knob, Infinite Height Adjustment
29 138057 30 150233	Trunnion, Inf. Helght
31 140302	Bearing, Pvt. Lift. Spherical
32 73540600	Nul Crownlock 3/8-24
49 145212	Nut, Hex Flange Lock
50 110452X	Nut, Push Phos &-Oll
	the first the the first first

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



TRACTOR - - MODEL NUMBER 917.271141

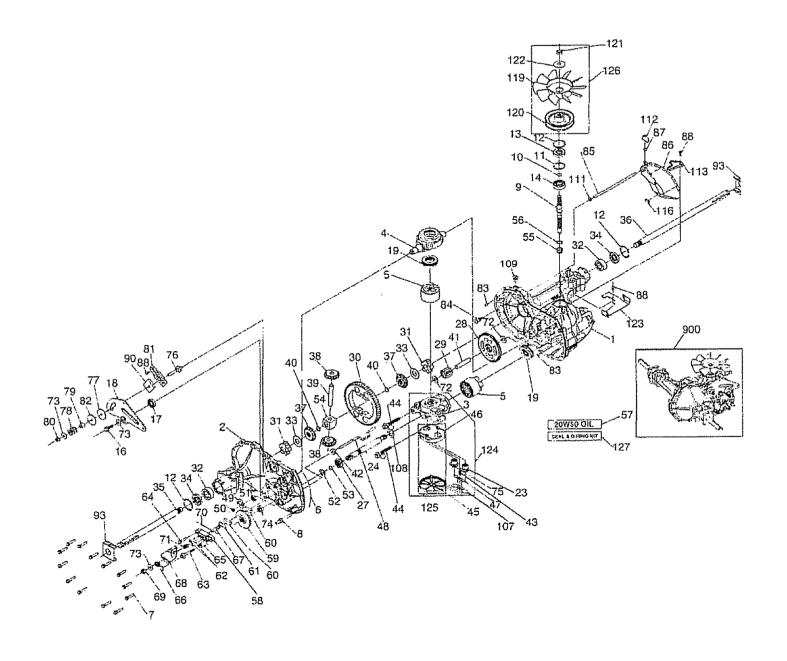
MOWER DECK

	Y PABT	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	165892	MowerHousing	94 132264	RollerNose
2	STD533107	Bolt	95 132273	Bracket Asm Noseroller AH
3	138017	Bracket Assembly,Sway	101 136420	Cover Mulching 42" Black
0	100017	Bar,Front	102 71161010	Screw Truss Hd Phil10-24 x5/8
4	165460	Bracket Sway Bar 38/42"	103 19061216	Washer#10
5	STD624008	Retainer Spring	104 STD551110	Washer Lock
6	130832	Arm, Suspension, Rear	105 160793	Latch Asm Bagger
8	850857	Bolt, Hex 3/8-24 x 1 25 Gr 8	106 2029J	NutWeld
9	STD551137	Washer, Lock	111 155197	Bracket Gauge, Wheel LH
ŤO	140296	Washer, Hardened	112 155198	Bracket, Gauge, Wheel RH
11	134149	Blade, Mulching	113 17060512	Screw 5/16-18 x 3/4
12	129895	Bearing, Ball	114 73510500	Nut, Hex Keps 5/16-18 UNC
13	137645	Shaft Assembly, Mandrel,	115 72110504	Bolt, Carriage 5/16 UNC x 1/2
		Vented (Incl. Key Number 6)	116 4898H	Bolt, Shoulder
14	128774	Housing, Mandrel, Vented	117 165746	Wheel, Gauge
15	110485X	Bearing, Ball, Mandrel	118 73930600	Nut, Crownlock 3/8-16
16	140329	Stripper, Vented Mower Deck	119 19121414	Washer 13/32 x 7/8 x 14 Ga.
18	72140505	Bolt, Carriage 5/16-18 x 5/8	121 143723	Bracket
19	132827	Boll, Shoulder	128 153390	Washer Felt
20	159770	Ballle, Vortex	129 19131312	Washer 13/32 x 13/16 x 12 Ga.
21	STD541431	Nut, Crownlock 5/16-18 UNC	130 STD523710	Bolt, Fin Hex 3/8-16 unc x 1 Gr.5
22	134753	Sliffener Bracket	131 STD533710	Bolt Rdhd Sqnk 3/8-16 UNC x 1
23	131267	Bracket, Deflector	142 165890 143 157109	Arm Spring Brake Mower Bracket Arm Idler 42"
24	105304X	Cap, Sleeve	143 157 109	Keeper Belt 42" Clutch Cable
25	123713X	Spring, Torslon, Deflector	145 165888	Pulley Idler Flat
26	110452X	Nut, Push	146 165891	Bolt Carraige Idler
27 28	130968X428	Shleid, Deflector Washer 11/32 x 5/8 x 16 Ga	147 131335	Spring Extension
29	19111016 131491	Rod, Hinge	148 169022	Spring Return Idler
30	157722	Screw Thdrol Rolling Wsh Hd	149 165898	Retainer Spring Yellow Zinc
31	129963	Washer, Spacer	150 19091216	Washer 9/32 x 3/4 x 16 Ga
32	153535	Pulley, Mandrel	151 169670	Bracket Clutch
33	137266	Nul, Toplock, Flanged	152 169676	Cable Clutch 42"
34	STD533717	Bolt	153 169674	Washer flat 3/8" Type B
35	133835	Fastner, Christmas Tree	154 169675	Spring Retainer
36	131494	Pulley, Idler, Flat	155 169671	Spring Relention Lever
37	19131316	Washer 13/32 x 13/16 x 16 Ga.	156 169672	Spacer
40	STD541437	Nut, Crownlock 3/8-16 UNC	157 169669	Rod Clutch
44	140088	Guard, Mandrel, L.H.	158 17720410	Screw Hex Thd Cul 1/4-20 x 5/8
45	STD624003	Retainer	159 STD533717	Bolt Rdhd Sqn 3/8-16 Unc x 1-3/4
46	137729	Screw. Thd. Roll 1/4-20 x 5/8	130794	Mandrel Assembly (Includes Key
48	133944	Washer, Hardened	1 corres	Numbers 8-10, 12-15, 31 and 32)
49	155066	Roller Assembly, Cam Follower	169583	Mower Deck, Complete (Std deck order separately mulcher plate
50	131340	Bolt, Shoulder #10-24 Grade 5		components key nos. 101-106)
51	STD541410	Locknut Balt Shoulder 5/15-19 LINC		components key nos. To 1-100)
52 53	139888 131845	Bolt, Shoulder 5/16-18 UNC Arm Assembly, Pad, Brake	NOTE: All compo	nent dimensions given in U.S.Inches
54	133943	Washer, Hardened	1 inch = 2	
55	155046	Arm, Idler		
56	165723	Spacer, Retainer		
59	141043	Guard, Tuv Idler		
67	149846	Knob Custom Oval		
68	144959	V-Bell		
90		Boll Fin Hex 3/8-16 Unc x 1		
91	132274	Bracket Asm Noseroller LH		
92		Locknut, Hex W/Wsh 3/8-16 unc		
02		Weeber 17/99 x 7/8 x 16 Ge		

93 19171416 Washer 17/32 x 7/8 x 16 Ga.

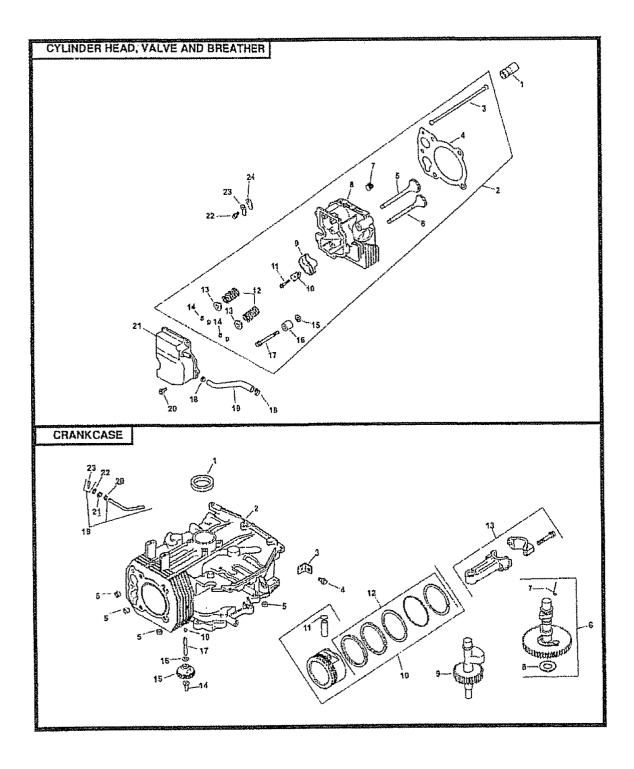
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TRACTOR - - MODEL NUMBER 917.271141 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 314-0510

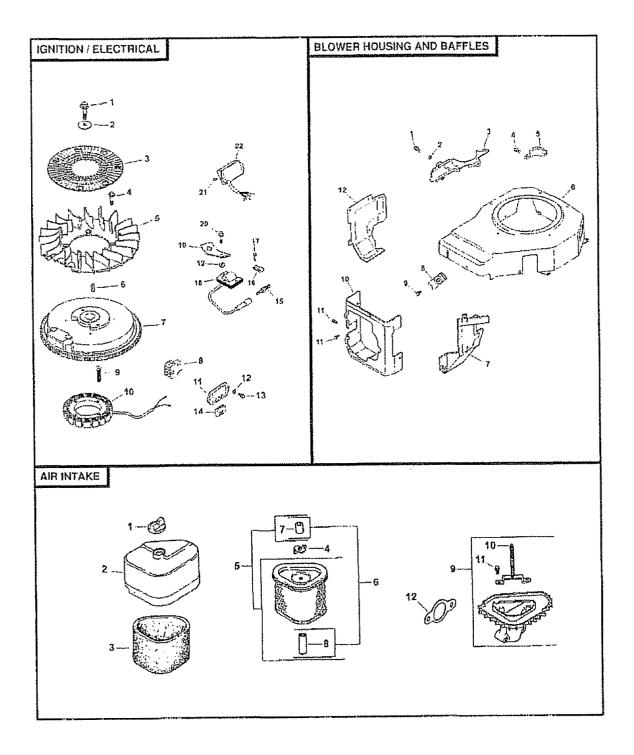
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	170351	Main Housing, Assembly	58	170407	Brake Yoke
2	170352	Side Housing, Assembly	59	170408	Rotor, Brake
3	170353	Center Section, Assembly	60	142883	Brake Puck Puck Plate レンスのもの之
4	170354	Swashplate, Trunion	61	4 2881 142887	Brake Actuating Pin
5	169898	Machined Block - Assembly	62 63	170410	Hfhcs 1/4-20x2 W/
6	170355	Sealant 10.5 Oz	00	110410	Patch,SpecialFlange
7	170356	Hex Flange Screw 1/4-20 X	64	142892	Bolt, 1/4-20 X 1 W/Patch
		1.25	65	170411	Spacer
8	170357	Stud, 5/16-24 Hex Double	66	170412	Spring, Brake Arm Blas
0	470050	End Shaft Input	67	170413	Sq. Hd. Bolt 5/16-24-Ribbed Arm, Brake
9 10	170358 170359	Shaft, Input RIng - Retaining	68 69	170414 170415	Slotled Hex Nut 5/16-24
11	170360	Spacer	70	170416	Cotter Pin 3/32 X 3/4
12	169870	Ring - Retaining	71	170417	Compression Spring Brake
13	170361	Seal, Llp .67 X 1.58 X .276			Anti-Drag
14	169869	Ball Brg 17mm Id X 40mm	72	170418	Washer, Ht
10	170000	Od X 12mm Hex Flange Head Screw	70	140004	.5 I.D. X 1 O.D. X .032 Flat - Washer
16	170362	5/16-24X0.75	73	142884	11/32 LD. X 7/8 O.D
17	170363	Lip Seal 18 X 32 X 7	74	170419	Oil Seal .625 X 1.0 X .25
18	170364	Arm, Control	75	170420	Check Plug Assembly, .027,
19	150771	Bearing, 30x52x13 Thrust			Washer
23	170365	Check Plug Assembly,	76	170421	Stud, 5/16-24 Friction Pack
~ 4	170000	Washer	77	170422	Puck, .330 X 1.50 X .0975
24 27	170366 170367	Shaft, Motor Gear - Pinion, 13t	78 79	142969 142980	Spring, Helical Comp Spacer
28	170368	101/48t Gear	80	150778	Hex Lock Nut 5/16-
29	170369	Gear, 10t Jackshaft	00		24Unjf(Nylon Insert)
30	170370	60t Bull Gear	81	170423	Wedge, Friction Pack
31	170371	Sleeve Bearing	82	170424	Clip, Washer
20	170000	.75 X 1.575 X .625	00	101100	.316x1.50x.1046 (Plated)
32	170389	SleeveBearing(Outboard) .75x1.750x.625	83 84	161162 170425	Pin, Standard Headless Fitting, 5/16 Sae 5/32 Tube
33	142991	Washer,	85	170426	Hose, Expansion Tank
~~		3/4 ld X 1-1/2 Od X 13 Thk	86	170427	Expansion Tank
34	170390	Llp Seal Axle Seal	87	170424	Cap - Poppet Valve
35	170391	Shaft, Axle .75 X 11.39	88	170429	Bolt, Self Tapping
36	170392	(Key, R.H.) Shaft, Axle 75 X 16.99	90	170430	10-32 X 1/2 Puck, Inner Wedge
30	110392	(Key, L.H.)	93	170430	Spring Clip - Housing Thrust
37	150792	Miter Gear (Splined)		170432	Deflector
38	150793	Miler Gear 15t (0.5 ld)	108		Washer, Motor Shaft
39	150809	Shaft			.71idx1 15odx 030thk
40	170393	Ring, Spiral Retaining		170434	Plug, Sae #6
41 42	170394 170395	Pin, Jackshaft Magnet, Ring	111	170435 170436	O-Ring .07 X .301 I.D. Shield, Vent
43	170396	Spring, Bypass	113		Bracket, Support Expan
44	150797	Hydro Mtg Screw			sion Tank
		3/8-24 X 2.5 Long	116	170438	Silicon Sponge
45	170397	Filter		170439	Fan, 7 In
46	170398	Base, Filter Actuator, Bypass	120	170440 170441	Pulley Hex Lock Nut 1/2-20 (Nylon
47 48	170999 170400	Rod, Bypass Actuator	121	170441	Insert)
49	170401	Arm, Bypass	122	170442	Washer, Belleville
50	170202	Retaining Ring .250 External		170443	Belt Keeper
51	170403	Seal, Llp .741 X .250 X .250	124		Center Section-Filter-
		To			Bypass Assembly
52	170404	Flat Washer,	125		Filter Assembly
50	170405	5/8 ld X 1 0 Od X .05 Thk	126	170446	Fan - Pulley Service
53 54	170405 170406	Retaining Ring Bearing, Center Block	127	170447	Assembly Seal - O-Ring Kit
55	142977	Spring - Helical Compression	900		Transaxle Complete
56	142978	Washer			
57	150798	20w-50 Oil			onent dimensions given in U.S.
			inch	es 1 inch = 2	0,4 IIIM



CYLINDER HEAD/VALVE/BREATHER

CRANKCASE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	25-351-01-S 12-755-81-S	Lifter, valve (2) Kit, cylinder head (Includes 3-18,	1 2	12-032-03-S Block, cylinder	Seal, crankshaft (Use Short Block 12 522 46)
		Gaskets 12 041 01-S	3	12-445-02-S	Strap, lifting
		(Qty. 2), 12 041 02-S, & 12 041 03-S)	4	M-839025-S	Screw, hex. flange M8x1.25x25
З	12-411-01-S	Rod, push (2)	5	12-380-17-S	Dowel, locating (4)
4	12-041-10-S	Gasket, cyllnder head	6	12-755-49-S	Kit, camshaft (Includes 7,8)
5	12-017-01-S	Valve, intake (Std.)	7	12-089-31-S	Spring, actuating
•	12-017-02-S	Valve, intake (.25)	8	12-422-08-S	Shim, camshaft (A.R.) blue
6	12-016-01-S	Valve, exhaust (Std.) Valve, exhaust (.25)		12-422-09-S	Shim, camshaft (A.R.)
7	12-016-02-S X-75-23-S	Plug, allen hd. pipe 1/8"		12-422-10-S	red Shim, camshaft (A.R.)
8	12-318-19-S	Cylinder Head			vellow
9	25-186-01-S	Arm, rocker (2)		12-422-11-S	Shim, camshaft (A.R.)
10	12-599-03-S	Pivot, rocker arm (2)			green
11	M-640034-S	Screw, hex. flange M6xI.0x34 (2)		12-422-12-S	Shim, camshaft (A.R.) gray
12	12-089-01-S	Spring, valve (2)		12-422-13-5	Shim, camshaft (A.R.)
13	12-173-01-S	Cap, valve spring (2)		0 70 001 0	black Shim, camshaft (A.R.)
14	12-755-03-S	Kit, retainer (2)		12-422-07-S	white
15	12-468-05-S	Washer, plain 13/32"	0	12-144-27-S	Shaft, balance
16	12-112-13-S	Spacer, head bolt exhaust port	9 10	12-874-07-S	Piston w/Ring Set
17	12-086-15-S	Screw, hex. flange M10x1.5x81 (5)	şψ	12 014 07 0	(Std.) (Includes 11-12)
18	X-426-9-S	Clamp, hose (2)		12-874-11-S	Piston w/Ring Set (.08
19	12-326-03-S	Hose, breather			mm)
20	M-645020-S	Screw, hex. flange M6x1.0x20 (5)		12-874-08-S	Piston w/Ring Set (.25)
21	12-096-07-S	Cover, valve w/nipple		12-874-09-S	Piston w/Ring Set
22	M-545010-S	Screw, hex. flange M5x0.8x10	11	12-018-02-S	(.50) Retainer, piston pln
23	12-018-01-S	Retainer, breather			(2)
		reed	12	12-108-07-S	Ring Set (Std.)
24	12-402-02-S	Reed, breather		12-108-08-S 12-108-09-S	Ring Set (.25) Ring Set (.50)
	11 1 11/5°CD ATED		12	12-108-09-5 12-067-05-S	Connecting Rod (std.)
NOT	ILLUSTRATED		13	12-067-06-S	Connecting Rod (.25)
	12 041 01-S 12 041 03-S	Gasket, carburetor (2) Gasket, exhaust manifold	14	12-380-01-S	Pin, governor
	12 041 03-3 12 041 02-S	Gasket, air filter base	14	12 000 01 0	regulating
	12 041 02-0	Guaret, un mer buoc	15	12-043-05-S	Gear, governor
			16	M-631005-S	Washer, plain 6mm
			17	12-144-02-S	Shaft, governor gear
			18	52-139-09-S	Plug, cup
			19	12-755-64-S	Klt, gov. cross shaft w/clip (Includes 24)
			20	X-25-102-S	Washer, plain 1/4"
			21	12-032-01-S	Seal, governor cross shaft
			22	M-631015-S	Washer, plain 6mm
			23	12-154-05-S	Clip, hitch pin



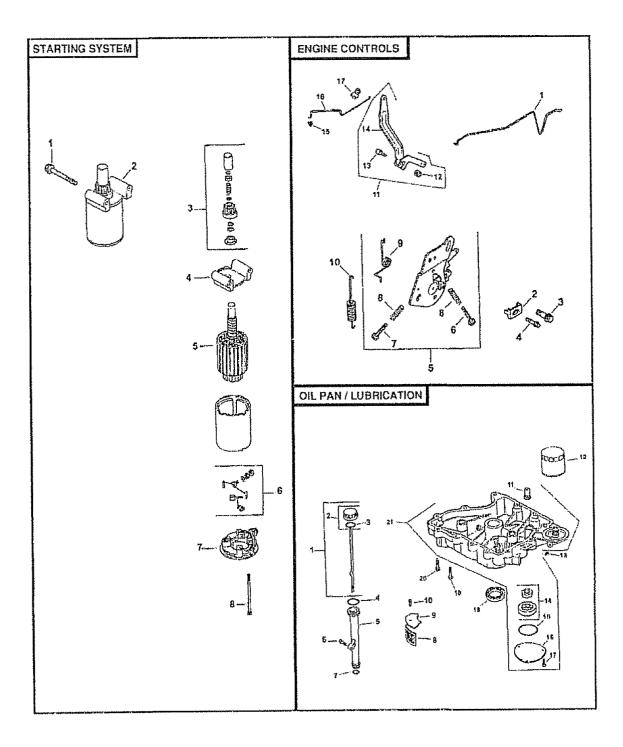
IGNITION/ELECTRICAL

BLOWER HOUSING & BAFFLES

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	12-086-14-S	Screw, hex₊ flange M10x1.5x46	1	M-545010-S	Screw, hex. flange M5x0.8x10 (5)
2	12-468-03 - S	Washer, plain 3/8"	2	24-468-10-S	Washer, plain 1/4"
3	24-162-03-S	Screen, grass	3	12-146-07-S	Plate, blower housing
4	25-086-47-S	Bolt, shoulder M6X1.0X16 (4)	4	M-550010-S	Screw, hex. flange M5x0.8x10 (2)
5	12-157-03-S	Fan	5	24-096-05-S	Cover, pinion
6	X-42-15-S	Кеу	6	12-027-76-S	Housing, blower
7	12-025-35-S	Flywheel	7	12-063-05-S	Baffle, intake side
8	12-155-09-S	Connector	8	25-154-02-S	Clip, mounting (3)
9	M-548025-S	Screw, hex. cap M5x0.8x25 (2)	9	12-086-37-S	Screw, captive washer M5 X0.8 X20
10	12-085-09-S	Stator			(3)
11	41-403-09-S	Regulator, rectifier	10	12-063-08-S	Baffle, cylinder head
12	X-22-11-S	Washer, lock 1/4" (2)	11	M-645016-S	Screw, hex. flange
13	M-639016-S	Screw, hex. flange			M6x1.0x16 (2)
		M6x1.0x16 (2)	12	12-063-01-S	Baffle, cylinder
14	236602-S	Connector			
15	12-132-02-S	Spark Plug			
16	X-728-1-S	Clip, cable	AIR I	INTAKE/FILTRAT	ION
17	M-545010-S	Screw, hex. flange			
		MEUD BUID (D)	3794117	PART	
			KEY	FADU	
18	12-584-14-S	M5x0.8x10 (2) Module, Ignition		NO.	DESCRIPTION
18 19	12-584-14-S 12-452-02-S	Module, Ignition Terminal	NO.		DESCRIPTION
18 19 20		Module, Ignition			DESCRIPTION Knob, air cleaner cover
19	12-452-02-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2)	NO.	NO.	Knob, air cleaner
19 20	12-452-02-5 12-086-35-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head	NO. 1	NO. 25-341-03-S	Knob, air cleaner cover
19 20	12-452-02-5 12-086-35-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2)	NO. 1 2	NO. 25-341-03-S 12-096-24-S	Knob, air cleaner cover Cover, air cleaner
19 20 21	12-452-02-S 12-086-35-S M-461013-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head	NO. 1 2 3	NO. 25-341-03-S 12-096-24-S 12-083-12-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed	NO. 1 2 3 4	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S ILLUSTRATED	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed	NO. 1 2 3 4	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Klt air cleaner
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed advance Harness, wiring	NO. 1 2 3 4 5	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S 12-083-10-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Kit air cleaner element (Incl's 6-8)
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S ILLUSTRATED 12 176 45-S 12 176 44-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed advance Harness, wiring Harness, wiring	NO. 1 2 3 4 5 6	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S 12-083-10-S 12-743-12-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Kit air cleaner element (Incl's 6-8) Filter, element
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S ILLUSTRATED 12 176 45-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed advance Harness, wiring Harness, wiring Lead, black (6" - 12	NO. 1 2 3 4 5 6 7	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S 12-083-10-S 12-743-12-S 230046-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Klt air cleaner element (Incl's 6-8) Filter, element (Includes 7&8)
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S ILLUSTRATED 12 176 45-S 12 176 44-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed advance Harness, wiring Harness, wiring Lead, black (6" - 12 gauge- insulated	NO. 1 2 3 4 5 6	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S 12-083-10-S 12-743-12-S 230046-S 12-032-11-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Kit air cleaner element (Incl's 6-8) Filter, element (Includes 7&8) Seal, breather Seal 1-7/16"
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S ILLUSTRATED 12 176 45-S 12 176 44-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed advance Harness, wiring Harness, wiring Lead, black (6" - 12 gauge- insulated grip barrel eyelet	NO. 1 2 3 4 5 6 7 8	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S 12-083-10-S 12-743-12-S 230046-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Kit air cleaner element (Incl's 6-8) Filter, element (Includes 7&8) Seal, breather Seal 1-7/16 [#] Base, air cleaner
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S ILLUSTRATED 12 176 45-S 12 176 44-S 24 518 12-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed advance Harness, wiring Lead, black (6" - 12 gauge- insulated grip barrel eyelet terminals) Clip, cable	NO. 1 2 3 4 5 6 7 8	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S 12-083-10-S 12-743-12-S 230046-S 12-032-11-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Kit air cleaner element (Incl's 6-8) Filter, element (Includes 7&8) Seal, breather Seal 1-7/16"
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S ILLUSTRATED 12 176 45-S 12 176 44-S 24 518 12-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed advance Harness, wiring Lead, black (6" - 12 gauge- insulated grip barrel eyelet terminals)	NO. 1 2 3 4 5 6 7 8 9	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S 12-083-10-S 12-743-12-S 230046-S 12-032-11-S 12-094-07-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Kit air cleaner element (Incl's 6-8) Filter, element (Includes 7&8) Seal, breather Seal 1-7/16" Base, air cleaner (Includes 10,11) Stud, mounting plate
19 20 21 22	12-452-02-S 12-086-35-S M-461013-S 12-584-12-S ILLUSTRATED 12 176 45-S 12 176 44-S 24 518 12-S	Module, Ignition Terminal Screw, hex. socket M5x0.8x20 (2) Screw, pan head M4.2x13 (2) Module, speed advance Harness, wiring Lead, black (6" - 12 gauge- insulated grip barrel eyelet terminals) Clip, cable	NO. 1 2 3 4 5 6 7 8 9 10	NO. 25-341-03-S 12-096-24-S 12-083-12-S 12-100-08-S 12-083-10-S 12-743-12-S 230046-S 12-032-11-S 12-094-07-S 12-072-04-S	Knob, air cleaner cover Cover, air cleaner Precleaner, element Wing Nut Klt air cleaner element (Incl's 6-8) Filter, element (Includes 7&8) Seal, breather Seal 1-7/16" Base, air cleaner (Includes 10,11) Stud, mounting plate M6X1.0X75 Screw, #10 Hi-Lo

NOT ILLUSTRATED

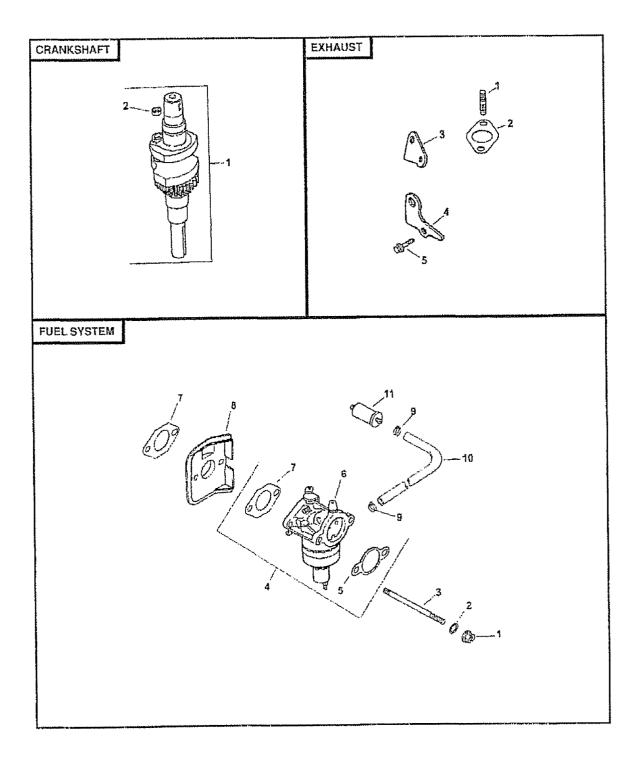
12 113 53-S Decal, air cleaner



STARTING SYSTEM

ENGINE CONTROLS

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	M-839070-S	Screw, hex. flange	1	12-079-07-S	Linkage, choke
		M8x1_25x70 (2)	2	12-237-01-S	Clamp, cable
2	25-098-07-S	Starter assembly	3	24-086-43-S	Screw, hex. flange
A		(Includes 3-8)	4	M-664020-S	Screw, lobed socket
3	12-755-54-S	Kit, drive end			M6x1.0x20 (2)
4	12-227-18-S	Cap, drive end	5	12-536-10-S	Control, speed
5	12-170-05-S	Armature		,	assembly
6	12-221-01-S	Kit, brush & spring			(Includes 6-9)
7	12-227-13-S	Cap, commutator end	6	M-443025-S	Screw, pan head
8	12-211-01-S	Bolt, hex. flange 1/4-			M4x0.7x25
U		20x4-5/8 (2)	7	M-443020-S	Screw, pan head
			•		M4x0.7x20
OIL F	AN/LUBRICATIO	N	8	12-089-11-S	Spring, choke (2)
4,4° 1444	7300 a 0 a 11 0 7 11 0	••	9	12-089-23-S	Spring, choke return
KEY	PART		10	12-089-24-S	Spring, governor
NO.	NO.	DESCRIPTION	11	12-755-83-S	Kit, governor lever
11.7 -			• •		(Includes 12-14)
1	12-038-01-S	Dipstick assembly	12	12-100-07-S	Nut, hex flange
,	,20000,0	(Includes 2-3)			1/4 - 20*
2	25-755-13-S	Kit, oil fill cap	13	52-211-04-S	Bolt, 1/4 - 20 X 1*
		(Includes 3)	14	12-090-28-S	Lever, governor
3	12-153-03-S	O-Ring, oll fill cap	15	25-158-08-S	Bushing, throttle
4	12-153-02-S	O-Ring, upper oil fill			linkage
		tube	16	12-079-01-S	Linkage, throttle
5	12-123-04-S	Tube, oil fill	17	25-158-11-S	Bushing, throttle
6	M-645025-S	Screw, hex. flange			linkage
		M6x1 0x25			
7	12-153-01-S	O-Ring, lower oll fill			
		tube			
8	25-162-07-S	Screen, oil pickup			
9	12-096-03-S	Cover, oil pickup			
		screen			
10	M-545016-S	Screw, hex. flange			
		M5x0.8x16			
11	25-462-09-S	Valve, oil pressure			
		relief			
12	52-050-02-S	Filter, oil			
13	X-75-10-S	Plug, sq. hd. solid 3/8"			
14	12-393-01-S	Pump, oil			
15	12-153-06-S	O-Ring, oil pump			
*0	10 000 04 C				
16	12-096-34-S	Cover, oil pump			
17	M-545016-S	Screw, hex. flange M5x0.8x16 (3)			
10	12-032-03-S	Seal, oil (P.T.O. end)			
18		Screw, hex. flange			
19	24-086-16-S	M8x1.25x45 (11)			
20	24-086-17-S	Screw, hex. flange			
20	44-VUU" I / "O	M8x1 25x45			
21	12-199-56-S	Assembly,Pan, oil			
<i>L</i> 1		(Incl. 11,14-17)			
		Trease relative relation			



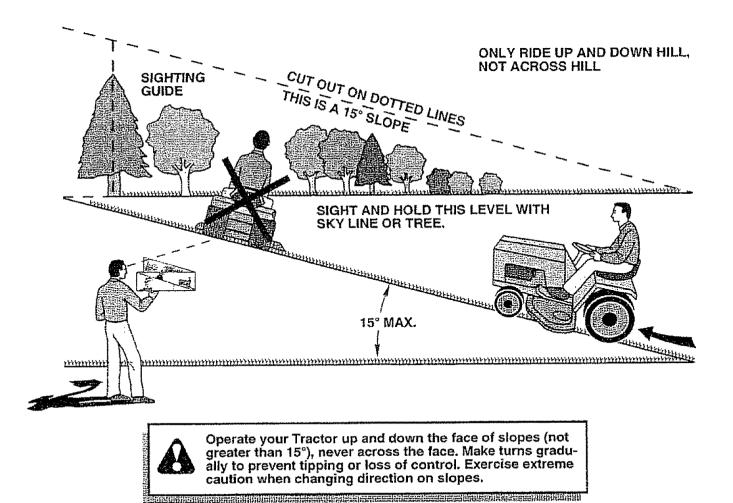
FUEL SYSTEM

CRANKSHAFT

			Olim		
KEY NO.	PART NO.	DESCRIPTION	KEY	PART	
			NO.	NO.	DESCRIPTION
1	M-641060-S	Nut, hex. flange			
		M6x1.0 (2)	1	12-014-37-S	Crankshaft (Includes
2	X-22-11-S	Washer, lock 1/4"			2)
3	M-629116-S	Stud M6x1.0x116 (2)	2	12-139-01-S	Plug, cup
4	12-853-94-S	Kit, carburetor w/			
		gasket (Includes	EXH/	AUST .	
		6,7,8 qty 1 12-454-			
		03-S, 25-452-20-S)	KEY		
5	12-041-02-S	Gasket, air cleaner	NO.	NO	DESCRIPTION
6	12-053-94	Carburetor assembly			
		(For information only	1	25-072-04-S	Stud, M8x1.25x33-1/
		not available	~	10 041 00 0	2" (2)
		separately) (Includes Kit, float 12-757-	2	12-041-03-5	Gasket, exhaust manifold (2)
		02-S,	3	12-126-11-S	Bracket muffler
		Kit, carburetor repair	4		Srap, lifting
		12 -757- 03-S, Kil,	5	M-645025-S	Srew, hex. flange
		Solenoid repair 12-			M6xL0x25 (2)
		757-33-S)			
7	12-041-01-S	Gasket, carburetor	NOT	ILLUSTRATED	
		(2)		12-522-46	Short Block
8	12-265-04-S	Deflector, heat		12-755-82-S	Gasket Set
9	X-426-09-S	Clamp, hose (2)			
10	25-353-10-S	Line, fuel 9"	NOTI		dimensions given in
11	25-050-03-S	Filter, fuel in-line		U.S. inches 1 inc	h = 25.4 mm
NOT	ILLUSTRATED	Clip ophio			
	47-154-01-S	Clip cable			

47-154-01-S	Clip cable
M-561010-S	Screw, thread
	forming M5X0.8X10
12-757-02-S	Kit, float
12-757-03-S	Kit, carburetor repair
12-041-01-S	Gasket, carburetor
12-041-02-5	Gasket, air cleaner
12-041-05-S	Gasket, bowl
12-041-06 - S	Gasket, bowl screw
12-032-06-S	Seal, solenoid
12-757-33-S	Kit, solenoid repair
12-041-06-S	Gasket, bowl screw
12-454-03-S	Tie cable
25-452-20-S	Terminal

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