



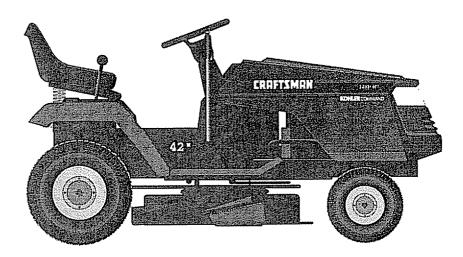
MODEL NUMBER 917.257552 OWNER'S MANUAL

- Assembly
- Operation
- Customer Responsibilities
 Service and Adjustments
- Repair Parts



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CAUTION: Read and follow all safety rules and instructions before operating this equipment.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.



SAFETY RULES Safe Operation Practices for Ride-On Mowers



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.

I. GENERAL OPERATION

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

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-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.

III. CHILDREN

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

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

IV. SERVICE

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



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



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs. **CONGRATULATIONS** on your purchase of a Sears 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/Department. We have competent, welltrained 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 unit properly. Always observe the "SAFETY RULES".

MODEL	
NUMBER	917.257552

SERIAL

NUMBER

DATE OF PURCHASE ____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

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

PRODUCT SPECIFICATIONS

HORSEPOWER:	14.0
GASOLINE CAPACITY AND TYPE:	5 QUARTS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 10W-30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/ FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: 040")	CHAMPION RC12YC
VALVE CLEARANCE:	INTAKE: .0015"0030" EXHAUST: .0020"0035"
GROUND SPEED (MPH):	FORWARD: 1st 102 2nd 1.35 3rd 2.10 4th 3.14 5th 4.00 6th 5.12 REVERSE: 1.58
TIRE PRESSURE:	FRONT: 14 PSI REAR: 12 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BLADE BOLT TORQUE:	30-35 FT. LBS.

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

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

LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

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

This Warranty does not cover:

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

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge. Sears will replace the battery at no charge.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE RIDING EQUIPMENT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

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

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, ILLINOIS 60179

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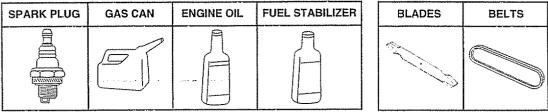
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ACCESSORIES AND ATTACHMENTS

These accessories and attachments were available through most Sears retail outlets and service centers when the tractor was purchased. Most Sears stores can order these items for you when you provide the model number of your tractor.

ENGINE

MAINTENANCE



PERFORMANCE

Sears offers a wide variety of attachments that fit your tractor. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication; however, it may change in future years - more attachments may be added, changes may be made in these attachments, or some may no longer be available or fit your model. Contact your nearest Sears store for the accessories and attachments that are available for your tractor.

Most of these attachments do not require additional hitches or conversion kits (those that do are indicated) and are designed for easy attaching and detaching.

AERATOR promotes deep root growth for a healthy lawn. Tapered 2.5-inch steel spikes mounted on 10-inch diameter discs puncture holes in soil at close intervals to let moisture soak in. Steel weight tray for increased penetration.

BAGGER lets you collect grass clippings and leaves for a healthier, neater looking lawn. Two Permanex containers hold 30-gallon plastic bags.

BUMPER protects front end of tractor from damage.

CARTS make hauling easy. Variety of sizes available, plus accessories such as side panel kits, tool caddy, cart cover, protective mat and dolly.

CORING AERATOR takes small plugs out of soil to allow moisture and nutrients to reach grass roots. 36-inch swath. 24 hardened steel coring tips. 150 lb. capacity weight tray.

EASY OIL DRAIN VALVE makes oil changes easier, faster.

FRONT NOSE ROLLER canters in front of mower deck to reduce chances of "scalping" on uneven terrain.

GANG HITCH lets you tow 2 or 3 pull-behind attachments at once, such as sweepers, dethatchers, aerators (not for use with rollers, carts or other heavy attachments).

GAUGE WHEELS on both sides of the mower deck reduce chances of "scalping" on uneven terrain. For mower decks not so equipped.

MULCH RAKE/DETHATCHER loosens soil and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring tine teeth. Useful to prepare bare areas for seeding. Available for front or rear mounting. HIGH PERFORMANCE REEL-ACTION SPRING TINE DETHATCHER covers 36-inch wide path and tosses thatch into large hopper. Mounts behind tractor.

MULCHING CLOSE-OUT PLATE KIT, once installed, lets you mulch, discharge or bag clippings (bagger optional) without changing blades. For models not equipped as 3-in-1 Convertible mowers. See "MOWER" in the Repair Parts section of this manual.

RAMP TOPS AND FEET let you load and unload tractor from a pickup truck. Use with 2 x 8 or 2 x 10 lumber.

ROLLER for smoother lawn surface. 36-inch wide, 18-inch diameter water-tight drum holds up to 390 lbs. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum.

SNOW BLADE for snow removal only. 14-inch high, 48-inch wide blade clears 42-inch path when angled left or right. Raises, lowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with tire chains and wheel weights and/or rear drawbar weight.)

SNOWTHROWER has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains and wheel weights and/or rear drawbar weight.)

SPRAYERS use 12-volt DC electric motor that connects to the tractor battery or other 12-volt source. Includes booms for automatic spraying and hand held wand for spot spraying. Wand has adjustable spray pattern. For applying herbicides, insecticides, fungicides and liquid fertilizers.

SPREADER/SEEDERS make seeding, fertilizing, and weed killing easy. Broadcast spreaders are also useful for granular deicers and sand.

SWEEPERS let you collect grass clippings and leaves.

TILLER has 5 hp engine and 36-inch swath to prepare seed beds, cultivate and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard or garden tractor. Simply hook up to the tractor drawbar and go! **Optional accessories** convert unit for dethatching, aerating, hilling... without tools.

TIRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction.

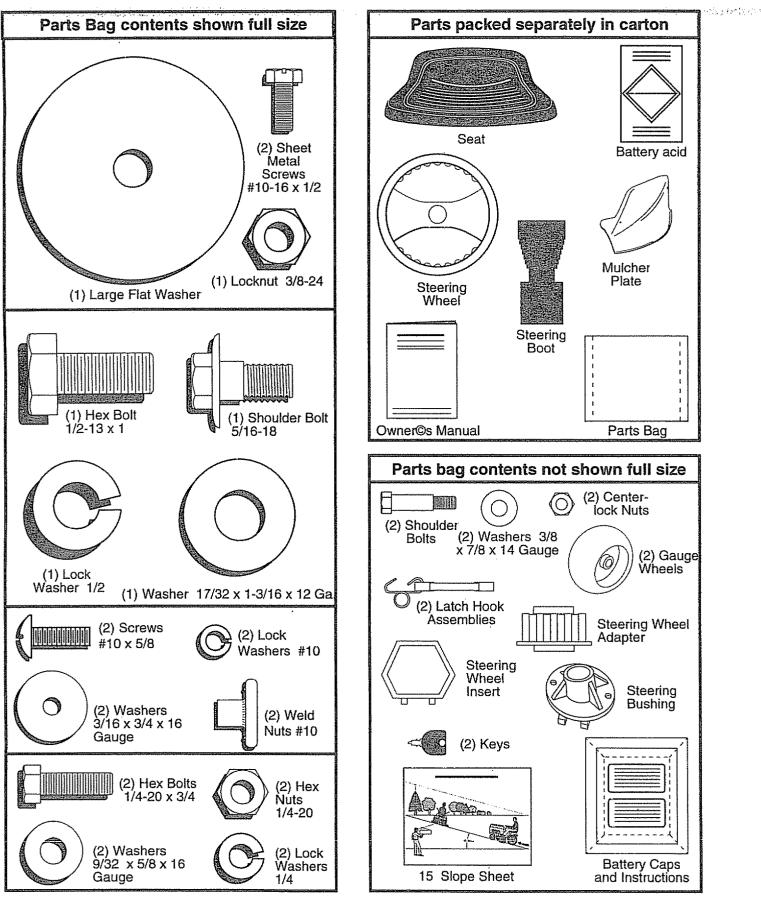
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. **Optional accessories include:** tinted/ tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top.

VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

WEIGHT BRACKET for drawbar for snow removal applications. Uses (1) 55 lb. weight.

WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials

CONTENTS OF HARDWARE PACK



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 5/16" wrench 3/4" Socket w/drive ratchet
- (2) 7/16" wrenches Tire pressure gauge
- (1) 1/2" wrench Phillips Screwdriver
- (1) 9/16" wrench Utility knife

When right or left hand is mentioned in this manual, it means 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 cartons from carton (See page 6).
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Check for any additional loose parts or cartons and remove.

BEFORE ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL (See Fig. 1)

- Slide the steering bushing over the steering shaft.
- Raise steering shaft forward until screw holes in dash line up with steering bushing. Install two (2) sheet metal screws and tighten securely.
- Position steering boot over steering shaft.
- Place tabs of steering boot over tab slots in dash and push down to secure.
- Slide steering wheel adapter onto upper steering shaft.
- Position front wheels of the tractor so they are pointing straight forward
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Assemble large flat washer and 3/8-24 locknut and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- · Remove protective plastic from tractor hood and grill.

IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.

TO ROLL TRACTOR OFF SKID (See Fig. 8)

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

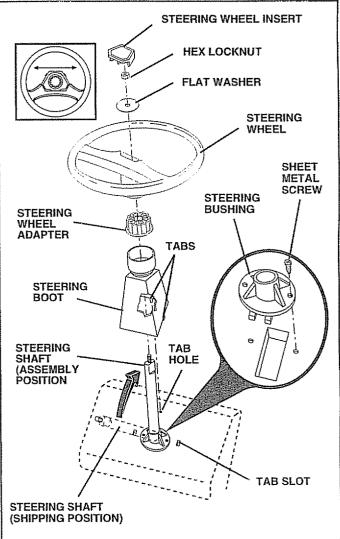


FIG. 1 HOW TO SET UP YOUR TRACTOR

PREPARE BATTERY (See Figs. 2A and 2B)



CAUTION: Wear eye and face shield.

Wash hands or clothing immediately if accidentally in contact with battery acid.

Do not smoke. Fumes from charged battery acid are explosive.

Read the instructions included with the battery vent caps. Always wear gloves, clothing and goggles to protect your hands, skin and eyes.

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.

- · See instructions packed with vent caps in parts bag.
- Remove cardboard packing from seat pan, raise seat pan and open battery box door.

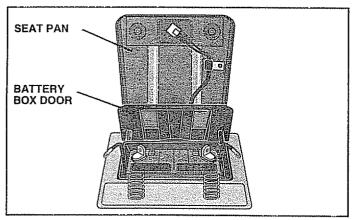
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- ASSEMBLY
- Remove battery from tractor to fill with acid and charge.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- Allow battery to stand and settle for at least thirty minutes. After standing, check the battery cell acid level. If below the vent wells, add more acid until the correct level is reached.

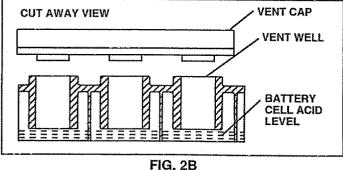
While battery is standing (after adding acid) and later, while battery is being charged, continue with assembly of tractor.

IMPORTANT: TO MAXIMIZE THE LIFE OF YOUR BATTERY, IT IS NECESSARY THAT THE BATTERY BE CHARGED BEFORE USE. FAILURE TO CHARGE BATTERY CAN RESULT IN A SHORTENED BATTERY LIFE

- Charge battery at a rate of 6 amperes for 1 hour. Use a 12 volt battery charger. Observe all safety precautions required for battery charging.
- Check the acid level after the battery is charged. If the acid has fallen below the correct level, add distilled or iron free water.
- Install the vent caps to cover the vent wells. Wash the top of the battery with water to remove any acid, then wipe dry.
- Check battery case for leakage to make sure that no damage has occurred in handling.
- Dispose of excess battery acid. Neutralize acid for disposal by adding it to two gallons of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
- Follow instructions on how to install battery.







INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment bolt.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt.
- Assemble adjustment bolt, lock washer and flat washer ۰ loosely. Do not tighten.
- Tighten shoulder bolt securely.
- 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 bolt securely.

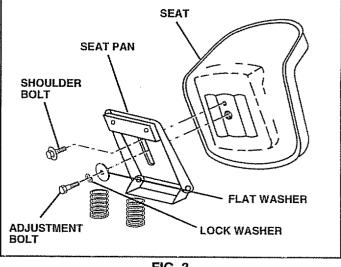


FIG. 3

CHECK TIRE PRESSURE

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

Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 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.

ASSEMBLY

INSTALL BATTERY (See Figs. 4 and 5)



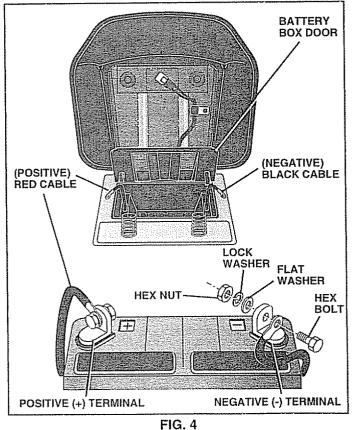
CAUTION: Do not short battery terminals. Before installing battery, remove metal bracelets, wristwatch bands, rings, etc.

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

- Lift seat to raised position.
- Open battery box door.
- Be sure battery drain tube is attached to battery box.
- Lower battery into battery box with battery terminals toward front of tractor.
- First connect RED battery cable to positive (+) terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Close battery box door.

Open battery box door for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging .



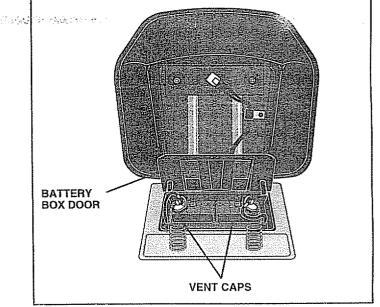
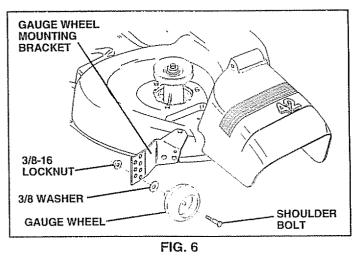


FIG. 5

ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 6)

Assemble gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height (See "TO AD-JUST 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.



ASSEMBLY

INSTALL MULCHER PLATE (See Figs.7A & 7B)

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

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

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



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

TO CONVERT TO BAGGING OR DISCHARGING

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

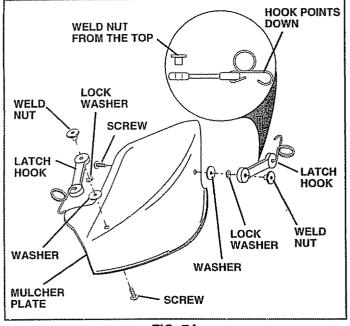


FIG. 7A

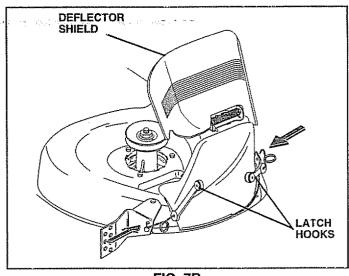


FIG. 7B

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

KNOWYOURTRACTOR

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

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

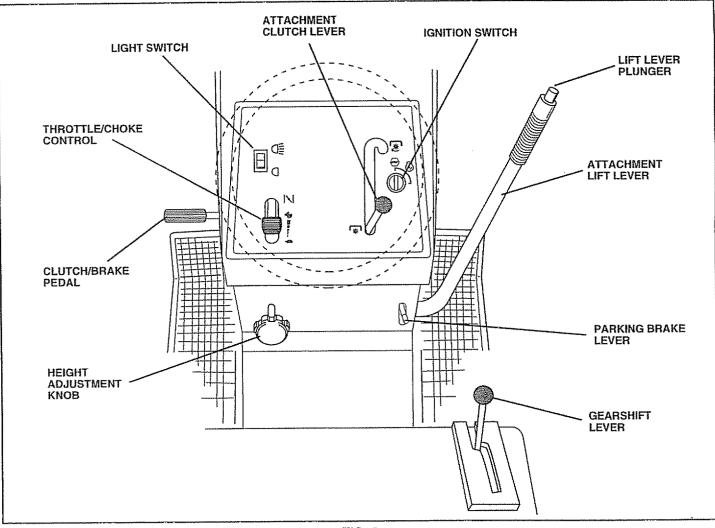


FIG. 8

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

ATTACHMENT CLUTCH LEVER - Used to engage mower blades or other attachments mounted to your tractor.

ATTACHMENT LIFT LEVER - Used to raise and lower 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 height.

LIGHT SWITCH - Turns the headlights on and off.

GEARSHIFT LEVER - Selects the speed and direction of the tractor.

IGNITION SWITCH - Used to start and stop the engine.

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

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

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

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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 the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 9)

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 "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.

STOPPING (SEE FIG. 9)

MOWER BLADES -

 Move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to neutral (N) position.

ENGINE -

• Move throttle control to slow (-) position.

- 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.

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 (See Fig. 9)

Always operate engine at full throttle.

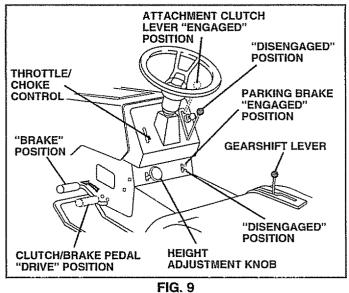
- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

TO MOVE FORWARD AND BACKWARD (See Fig. 9)

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift lever to desired position.
- · Slowly release clutch/brake pedal to start movement.

IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.



TO ADJUST MOWER CUTTING HEIGHT (See Fig. 9)

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

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

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

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

TO OPERATE MOWER (See Fig. 10)

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.



CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the discharge guard in place.

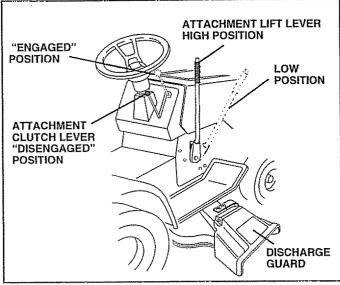


FIG. 10

TO OPERATE ON HILLS



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 gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly

TO TRANSPORT

- Raise attachment lift to highest position with attachment lift control.
- When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

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.).

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 17)

- 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 Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life).

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

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.



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 (See Fig. 9)

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

- Depress clutch/brake pedal and set parking brake.
- Place gearshift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control lever to choke (|\|) position for cold engine start. For warm engine start, move throttle control to fast () position.
- 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 engine does not start after several attempts, move throttle control to fast (4) position, wait a few minutes and try again.
- When engine starts, move throttle control to desired position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

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.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TOLEVEL 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 machine. 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 (See Fig. 11).
- 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.

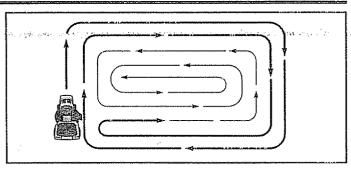


FIG. 11

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 (See Fig. 12). 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.

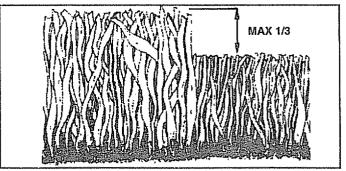


FIG. 12

FIL AS	AINTENANCE SCHEDULE L IN DATES YOU COMPLETE GULAR SERVICE	B	107.2 107.2	ACHU ACHU RST 21	SE AS	HOURS	SHOURS VERY SC	HOUR	3 HOUR JO HOUR VERY B	S EASON EFORE	SER	GE VICE	E DA	TES
	Check Brake Operation	8/		Bree					L		ļ		ļ	
	Check Tire Pressure	V		6/						<u> </u>			ļ	
T	Check for Loose Fasteners	6/				• • •	6/7		6/			ļ	ļ	
R	Sharpen/Replace Mower Blades				64							ļ	<u> </u>	
A C	Lubrication Chart				6M				6/			ļ	ļ	
Ť	Check Battery Level/Recharge				6		ļ		ļ	<u> </u>	ļ	ļ	<u> </u>	
0	Clean Battery and Terminals				Base				V		ļ		ļ	ļ
R	Check Transaxle Cooling				6/					Į	<u> </u>			
	Adjust Blade Belt(s) Tension				ļ		6 5					<u> </u>	ļ	
	Adjust Motion Drive Belt(s) Tension						15						ļ	
	Check Engine Oil Level	V		6/									ļ	
	Change Engine Oil		61		1.2.3		<u> </u>		V	<u></u>			ļ	
E	Clean Air Filter				V 2				L					
EN	Clean Air Screen				1/2							<u> </u>		
G	Inspect Muffler/Spark Arrester					6/						ļ	-	ļ
1	Replace Oil Filter (If equipped)						6/1,2			_	<u> </u>	1	1	
N	Clean Engine Cooling Fins						V 2							
E	Replace Spark Plug						M	5/		<u> </u>	_	_		
	Replace Air Filter Paper Cartridge						V 2					<u> </u>		
	Replace Fuel Filter							V						

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

2 - Service more often when operating in dirty or dusty conditions.

3 - If equipped with oil filter, change oil every 50 hours

4 - Replace blades more often when mowing in sandy soil

5 - If equipped with adjustable system

6 - Not required if equipped with maintenance-free battery 7 - Tighten front axle pivot bolt to 35 fl -lbs. maximum.

Do not overtighten

GENERAL RECOMMENDATIONS

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

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

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

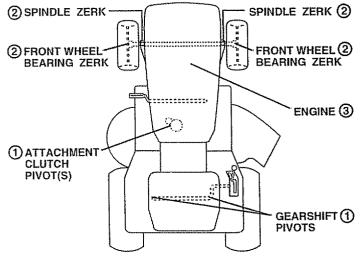
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

12.1

- Check engine oil level.
- Check brake operation.
- Check tire pressure
- Check for loose fasteners.

LUBRICATION CHART



() SAE 30 OR 10W30 MOTOR OIL

(2) GENERAL PURPOSE GREASE

③REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRI-CANTS 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, POW-15 DERED 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 "PROD-UCT SPECIFICATIONS" on page 3 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

BLADE CARE

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

BLADE REMOVAL (See Fig. 13)

- 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.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

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

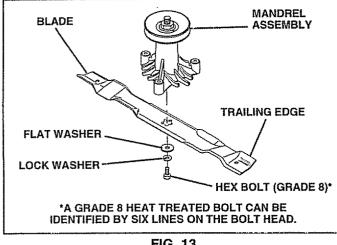


FIG. 13

TO SHARPEN BLADE (See Fig. 14)

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. **16**

- 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.)
- 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.

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

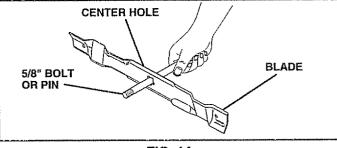


FIG. 14

BATTERY (See Fig. 15)

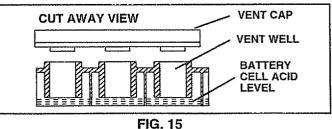
Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- Acid solution level in each battery cell should be even with bottoms of vent wells. Add only distilled or iron free water if necessary. Do not overfill.
- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep vent caps tight and small vent holes in caps open.
- Recharge at 6 ampères for 1 hour.

TO CLEAN BATTERY AND TERMINALS

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

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- · 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 "INSTALL BATTERY" in the Assembly 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

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

ENGINE

LUBRICATION

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

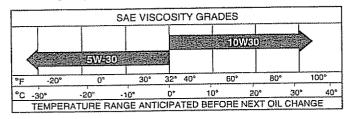


FIG. 16

NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after the first two hours of operation and every 50 hours thereafter 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 (See Figs.16 & 17)

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

- 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" on page 3 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.

AIR FILTER (See Fig. 17)

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.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

- Gently tap the flat side of the paper cartridge to dislodge dirt. Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge. Replace a dirty, bent, or damaged cartridge.
- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Reassemble air cleaner, wing nut, cover and tighten knob securely.

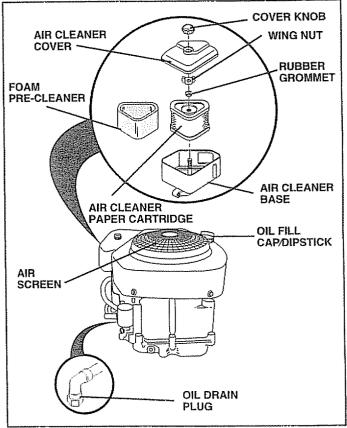


FIG. 17

CLEAN AIR SCREEN (See Fig. 17)

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.

ENGINE OIL FILTER (See Fig. 18)

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

- Drain oil from engine crankcase (See "TO CHANGE ENGINE OIL" in this section of this manual, through step remove drain plug).
- Remove oil filter and wipe off filter adapter.
- Apply a thin coating of new engine oil to the rubber gasket on replacement oil filter.
- Install replacement oil filter on filter adapter. Turn oil filter clockwise until rubber gasket contacts the filter adapter, then tighten filter an additional 1/2 turn.
- Fill crankcase with new oil (See "TO CHANGE EN-GINE OIL" in this section of this manual). For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Start the engine and check for oil leaks. Correct any leaks before placing engine into full operation.

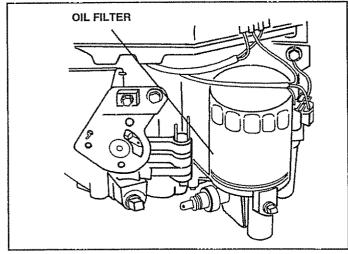


FIG. 18

MUFFLER

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

SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

IN-LINE FUEL FILTER (See Fig. 19)

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.

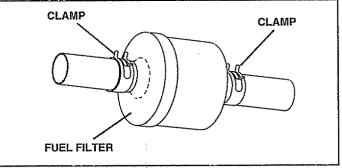


FIG. 19

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.

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- Depress clutch/brake pedal fully and set parking brake.
- Place gearshift 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 (See Fig. 20)

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

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Disconnect anti-sway bar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER IS TO BE MOUNTED TO THE TRACTOR, THE R.H. AND L.H. SUSPENSION ARMS MUST BE REMOVED FROM TRACTOR.

TO INSTALL MOWER (See Fig. 20)

- 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.

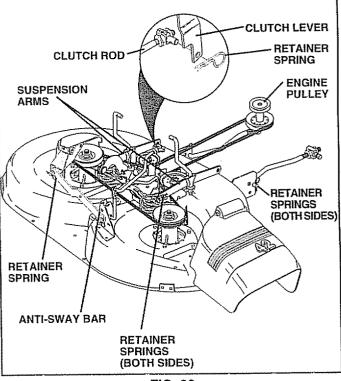


FIG. 20

TO LEVEL MOWER HOUSING

Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" on page 3 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 21 and 22)

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

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

• Recheck measurements after adjusting.

FRONT-TO-BACK ADJUSTMENT (See Figs. 23 and 24)

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.

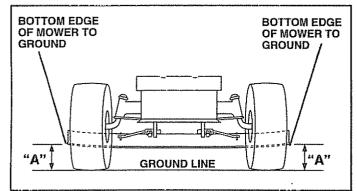


FIG. 21

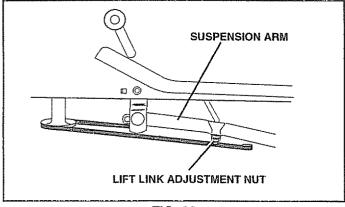


FIG. 22

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/4" to 3/4" 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 1/4" to 3/4" 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 1/4" to 3/4" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.
- · Recheck side-to-side adjustment.

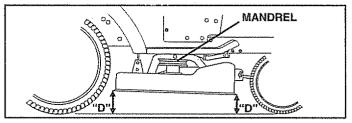
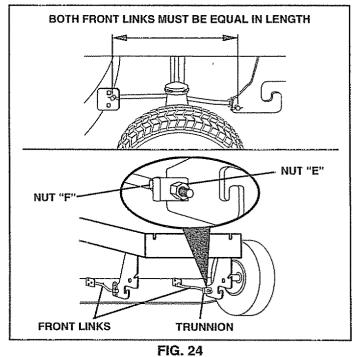


FIG. 23



TO REPLACE MOWER BLADE DRIVE BELT

(See Fig. 25) The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

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

BELT INSTALLATION -

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

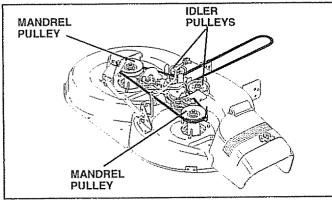


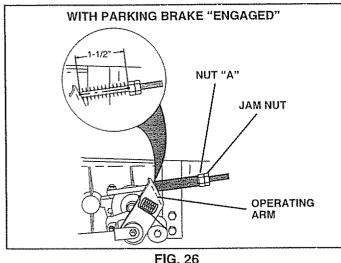
FIG. 25

TO ADJUST BRAKE (See Fig. 26)

Your tractor is equipped with an adjustable brake system which is mounted on the right 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 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". 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.

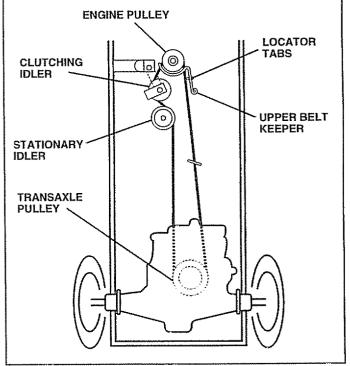


TO REPLACE MOTION DRIVE BELT (See Fig. 27)

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 upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.

IMPORTANT: MAKE SURE UPPER BELT KEEPER IS POSITIONED PROPERLY BETWEEN LOCATOR TABS.





TO ADJUST STEERING WHEEL ALIGNMENT

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 (See Fig. 28)

- 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.

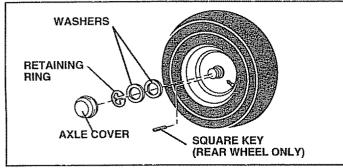


FIG. 28

TO START ENGINE WITH A WEAK BATTERY (See Fig. 29)



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

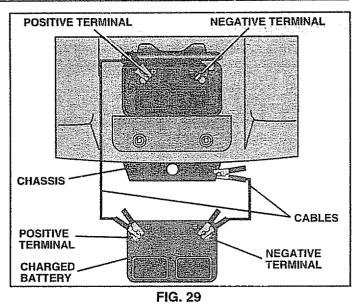
IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

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 NEGA-TIVE (-) 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.



TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

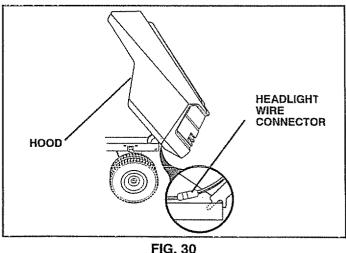
 Check wiring. See electrical wiring diagram in the Repair Parts section of this manual.

TO REPLACE FUSE

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

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 30)

- 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

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 31)

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 (See Fig. 32)

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** (counter-clockwise) 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.

PRELIMINARY SETTING -

- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- With engine off turn idle fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 turn.

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- 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 adjusting needle in (clockwise) until engine begins to die and then turn out (counterclockwise) approximately 1/8 to 1/4 turn to obtain best low speed performance.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

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

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

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/ DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

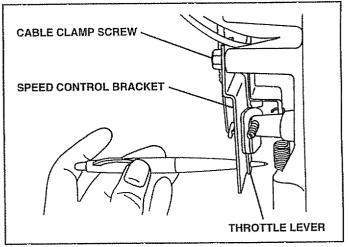


FIG. 31

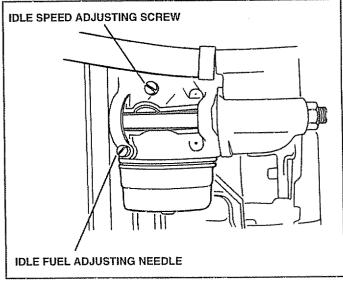


FIG. 32

STORAGE

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



CAUTION: Never store the tractor with gasoline in the tank inside a building where 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 Customer Responsibilities 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 Customer Responsibilities 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 Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- · Be sure battery drain tube is securely attached.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

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

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

ENGINE OIL

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

CYLINDERS

- 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 POINTS

ROBLEM Comprehenses		
Vill not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. 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. Contact an authorized service center/department. Contact an authorized service center/department.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	 Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 		 Set in "Higher Cut" position/reduce speed. Adjust throttle control. 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 carburetor, 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. Contact an authorized service center/department.
Excessive vibration	 Worn, bent or loose blade Bent blade mandrel. Loose/damaged part(s). 	 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.

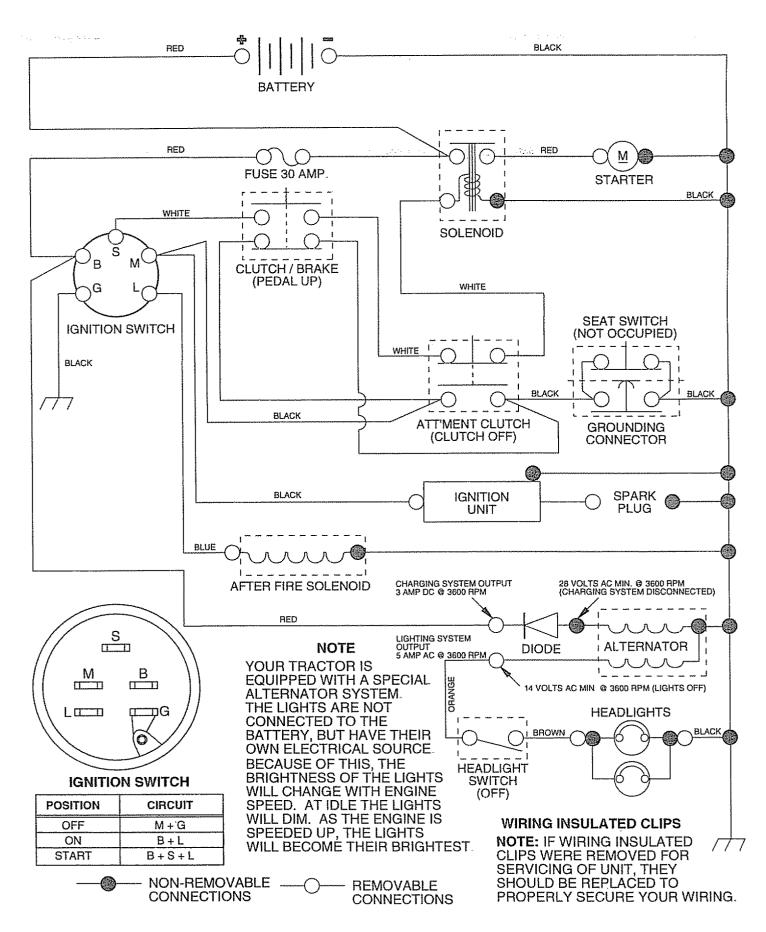
TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1. 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 holes from buildup 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.
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.
Engine "backfires" when turning engine "OFF"	 Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	 Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

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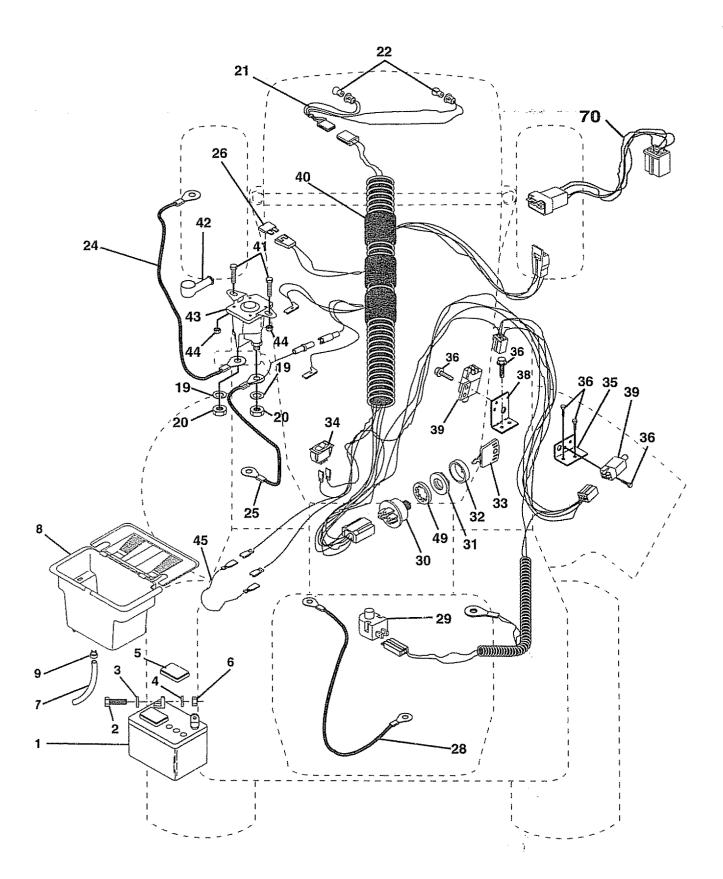
TRACTOR - - MODEL NUMBER 917.257552

SCHEMATIC



TRACTOR - - MODEL NUMBER 917.257552

ELECTRICAL



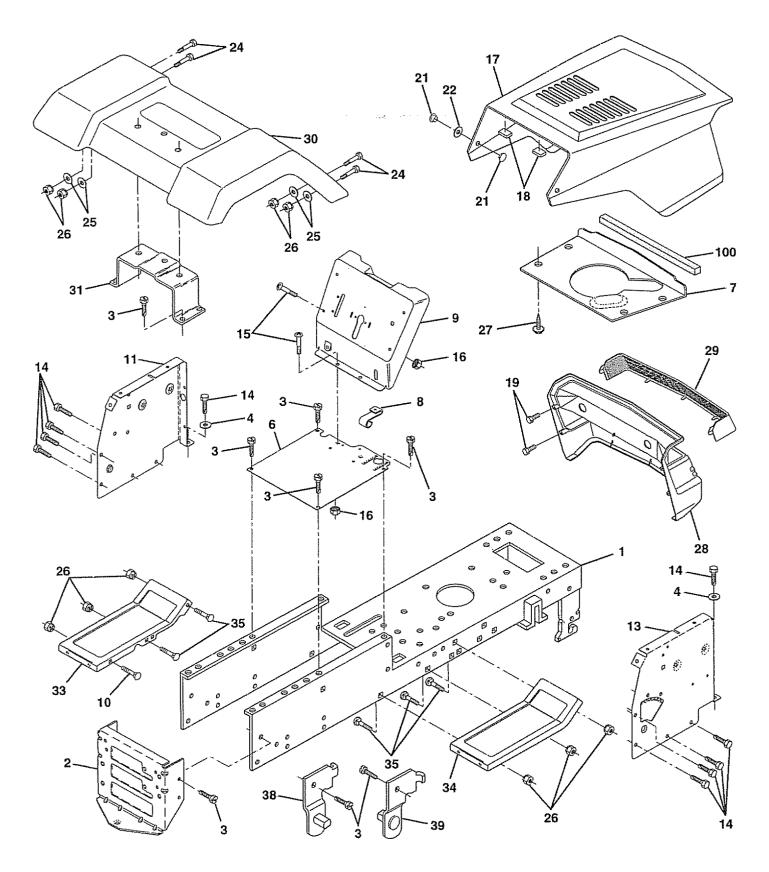
TRACTOR - - MODEL NUMBER 917.257552

	KEY NO.	PART NO.	DESCRIPTION
- 1 w 1 - 4 4 4	ី។	121265X	Battery, 12 Volt, 25 Amp 1/4-20 UNC x 1/2
	2 3	74760412	Bolt, Hex Head 1/4-20 unc x 3/4
	3 4	STD551025 STD551125	Washer Washer
	5	121264X	Caps, Battery
	5 6	STD541025	Nut
	7	109238X	Tube, Plastic, 12"
	8 9	129965 109596X	Box, Battery Clamp, Hose
	19		Washer, Lock
	20	73350400	Nut, Hex, Jam 1/4-20 UNC
	21	136850	Harness, Light Socket
	22	4152J	(Includes Kēy # 33) Bulb, Light
	24	4799J	Cable, Battery, 6 Gauge, Red, 11"
	25	146147	Cable, Battery, 6 Gauge, Red
		108824X	Fuse, 30 Amp
		4207J	Cable, Ground, 6 Gauge, Black, 12"
	29 30	121305X	Switch, Plunger Switch, Ignition
	31	144921 140400	Nut, Ignition
	32	141226	Cover, Key Switch
			Key, Ignition
	34	110712X	Switch, Light
	35 36	108236X STD601005	Bracket, Clutch Switch Screw
		140336	Bracket, Interlock Switch
		109553X	Switch, Interlock, Clutch, 4 Terminal
		146057	Harness, Ignition
	41 42	71110412 131563	Bolt, Hex Head, Fin. 1/4-20 x 3/4 Cover, Terminal, Red
	43	145673	Solenoid
	44	73800400	Nut Lock w/Insert 1/4-20 UNC
		140844	Adapter Ammeter Rectangular
	49 70	11151000 142621	Washer Lock Internal 5/8 Harness Engine
	10	142021	натеза спуше

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

TRACTOR - - MODEL NUMBER 917.257552

CHASSIS AND ENCLOSURES



TRACTOR - - MODEL NUMBER 917.257552

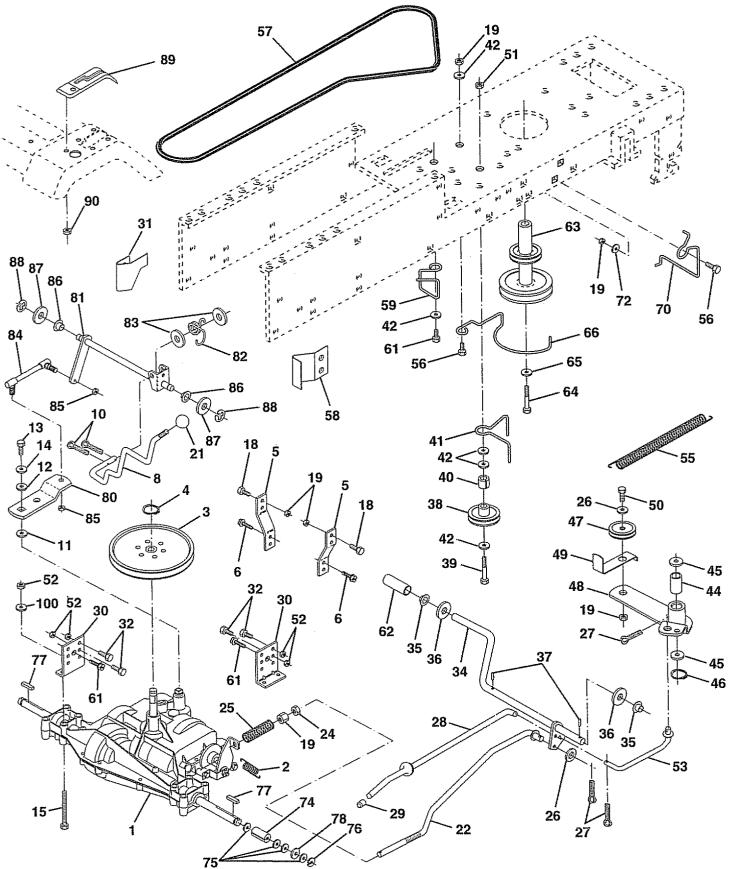
CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
t	145501	Chassis Assembly
2 3 4	140356	Drawbar
3	17490612	Screw, Thd. Roll. 3/8-16 x 3/4
4	19131216	Washer 13/32 x 3/4 x 16 Gauge
6 7	145206	Saddle
7	126842X	Shield Ht Hood Kohl/Dia. Engine
8	126471X	Clip,Insulator
9	140637X013	Dash Balt Carriege 0/0 16 x 0/4
10	72140608 135464	Bolt, Carriage 3/8-16 x 3/4 Panel, Dash, L.H.
	126276X	Panel, Dash, R.H.
	17490608	Screw Thdrol 3/8-16 x 1/2
15	74180512	Screw, Machine, Truss Head
,0	14100012	5/16-18 UNC x 3/4
16	STD541431	Nut
	131445X459	Hood Assembly
18	126938X	Bumper, Hood
19	17521312	Screw, Sitd Hex Hd W/PL Washer
21	122933X	Rivet, Ratchet, Nylon
22	124479X	Washer, Nylon .28 x .75 x .19
24	STD523710	Bolt
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Nut
27	17030814	Screw Spiderloc Hex Hd #8 x 7/8
28	140137	Grill
	124029X 140001X459	Lens, Headlight Bar, Clear Fender
31		Bracket, Fender
33	145244X459	Footrest, L.H.
34	145243X459	Footrest, R.H.
35	STD533707	Bolt
38		Pivot Bracket Assembly, L.H.
39	139887	Pivot Bracket Assembly, R.H.
	105037X	Strip Foam 18"
	5479J	Plug, Button
NOT	E: All compon	ent dimensions given in U.S. inches

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

TRACTOR - - MODEL NUMBER 917.257552

DRIVE



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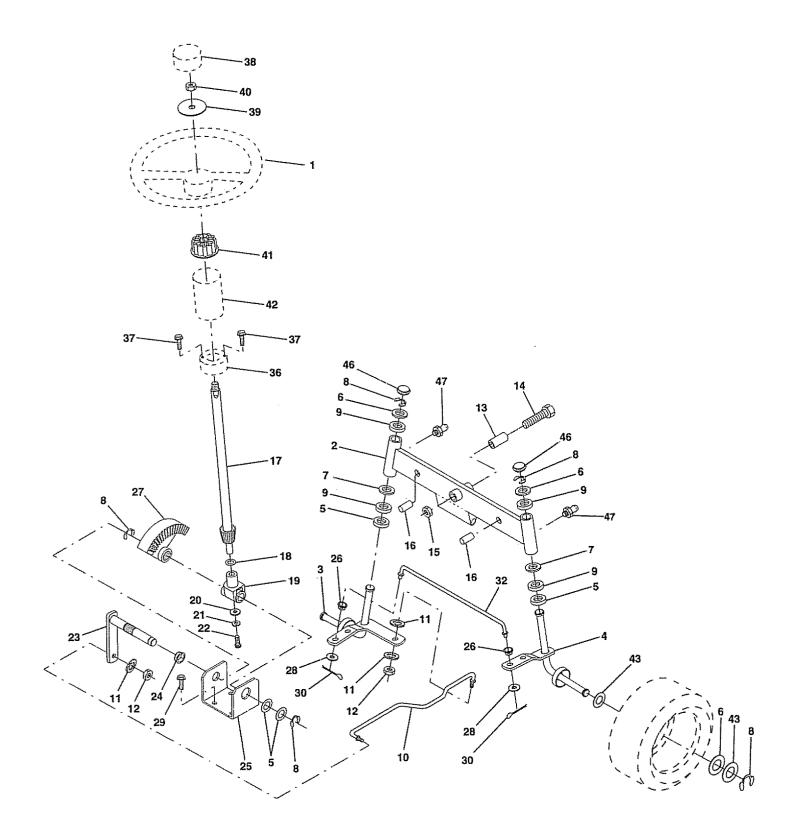
TRACTOR - - MODEL NUMBER 917.257552

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
11 12 13 14 15 18 19 21 22 24 25 26 27	142603 146682 123666X 12000028 121520X 17490512 141003 76020416 105701X 19151216 74550412 STD551125 74780544 STD523710 STD541237 106933X 130804 STD541237 106888X STD551037 STD561210 145204 124236X 130807 127275X STD551062 STD571810 123674X STD551062 STD571810 123674X STD551062 STD571810 123674X STD523727 4470J 109070X 19131312 105706X 110812X	Transaxle, Dana, 6 Speed, Model Number 4360-79 Spring, Extension, Brake Pulley, Transaxle Ring, Retainer Strap, Torque Screw, Thd., Roll. 5/16-18 x 3/4 Lever, Shift Pin, Cotter Washer, Shift Plate Washer, Shift Plate Washer 15/32 x 3/4 x 16 Gauge Bolt, 1/4-28 UNF Gr 8 w/Patch Washer Bolt, Hex Head 5/16-18 x 2-3/4 Bolt Nut Knob Rod, Brake Nut Spring, Brake Rod Washer Pin Rod, Parking Brake, Red Bracket, Transaxle Keeper, Belt, L.H. Bolt Shaft Assembly, Foot Pedal Bearing, Nylon Washer Roll Pin Pulley, Idler, Flat Bolt Spacer, Split .395 x .59 Keeper, Belt, Retainer Washer 13/32 x 13/16 x 12 Gauge Bearing, Nylon Washer, Hardened	48 49 50 51 52 53 55 56 57 58 9 62 63 64 56 60 72 74 75 77 78 81 82 88 88 88 90	STD541431 105710X 105709X STD523712 130801 127274X 140312 17490612 8883R 140186 M747810100 STD551143 129921 134683 19132012 109502X 121749X STD581075 123583X 121748X 131488 136932 123782X 19171216	Pulley, Idler, V-Groove, Plastic Bellcrank Assembly Retainer, Belt Bolt Nut Nut, Crownlock 5/16-18 UNC Link, Clutch Spring, Clutch Return Bolt, Fin Hex 3/8-16 x 1-1/4 V-Belt, Ground Drive Keeper, Belt, Ground Drive Keeper, Belt, Center Span Screw, Thd., Roll. 3/8-16 x 3/4 Cover, Pedal Pulley, Engine Bolt, Hex Washer Keeper, Belt, Engine, L.H. Guide, Mower Drive Belt, R.H. Washer 13/32 x 1-1/4 x 12 Gauge Spacer, Split .80 x .94 Washer 25/32 x 1-1/4 x 16 Gauge E-Ring Key, Square 2.0 x .1845/.1865 Washer 25/32 x 1-5/8 x 16 Gauge Arm, Shift Shaft Assembly Spring, Torsion Washer 17/32 x 3/4 x 16 Gauge Tie Rod Nut, Nylock Bushing, Pivot Washer E-Ring Console, Shift, 6 Speed, N/Ignition Nut, Self-Threading, Washer Hd 1/4 Washer 11/32 x 3/4 x 16 Ga.
46	12000039	Ring, Klip	TON	E: All compon 1 inch = 25	ent dimensions given in U.S. inches .4 mm

TRACTOR - - MODEL NUMBER 917.257552

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 917.257552

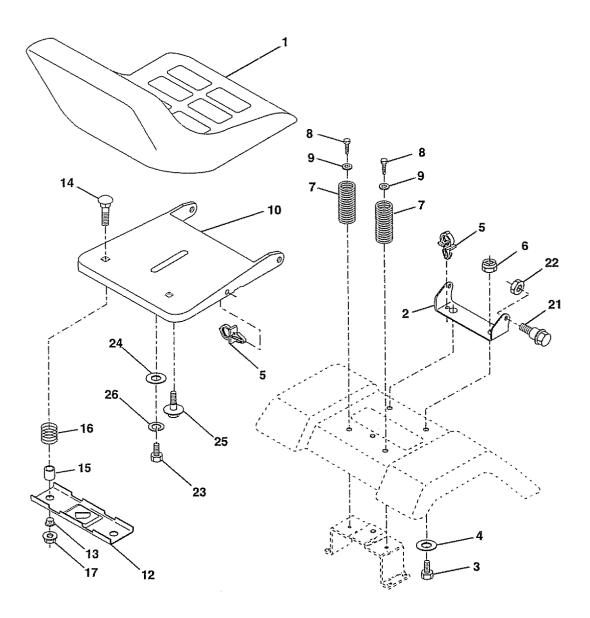
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
12345678901123456789	121472X 142033 135227 135228 6266H 121748X 19272016 1200029 3366R 130468 STD551137 73610600 110438X 74011056 73901000 132624 132614 57079 124035X	Steering Wheel Front Axle Assembly Spindle Assembly, L.H. Spindle Assembly, R.H. Bearing, Race, Thrust, Hardened Washer 25/32 x 1-5/8 x 16 Gauge Washer 27/32 x 1-1/4 x 16 Gauge Ring, Klip Bearing, Steering Column Link, Drag Washer, Lock Nut, Hex, Fin. 3/8-24 UNF Spacer, Bearing, Front Axle Bolt, Hex Head 5/8-11 UNC x 3-1/2 Nut, Lock, Flange 5/8-11 UNC Pin, Axle 5/8 x 1.55/1.54 Shaft Assembly, Steering Washer, Thrust .515 x .750 x .033 Support, Shaft
	126684X STD551125 71070410	Washer, Shim 1/4 x 5/8 x .062 Washer Screw, Hex Socket Head 1/4-20 x 5/8
23 24 25 26 27 28 20 32 37 38 30 41 42 46 47	127501 109816X 124036X 126847X 136874 19131416 17490612 STD561210 130465 132196 STD611005 126805X 19133808 STD541537 104820X 124417X 121749X 121232X 6855M	Pittman Shaft Assembly Nyliner, Snap-In Bracket, Steering Bushing, Link, Drag Gear, Sector Washer 13/32 x 7/8 x 16 Gauge Screw, Thd., Roll. 3/8-16 x 3/4 Pin Rod, Tie Bushing, Steering Screw Insert, Steering Wheel Washer 13/32 x 2-3/8 x 8 Gauge Gripco Nut Adaptor, Steering Wheel Boot, Steering Shaft Washer 25/32 x 1-1/4 x 16 Gauge Cap, Spindle Fitting, Grease

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

TRACTOR - - MODEL NUMBER 917.257552

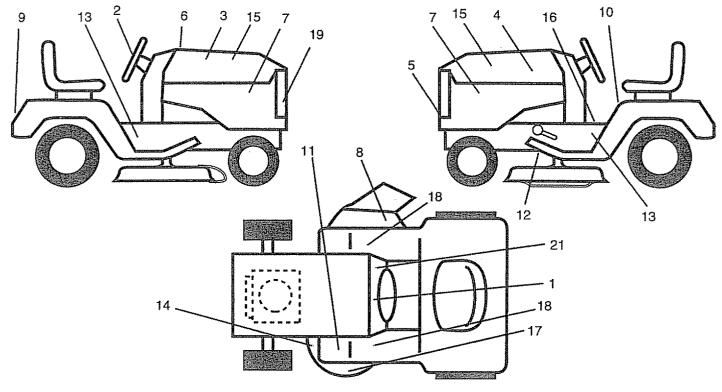
SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 12 13	140123 140551 STD523710 19131610 145006 STD541437 124181X 17490616 19131614 140552 121246X 121248X	Seat Bracket, Pivot, Seat Bolt Washer 13/32 x 1 x 10 Gauge Clip, Push-In Hinged Nut Spring, Seat Screw, Thd., Roll. 3/8-16 x 1 Washer 13/32 x 1 x 14 Gauge Pan, Seat Bracket, Switch Mounting Bushing, Snap	15 16 17 21 22 23 24 25 26	134300 121250X 123976X 139888 STD541431 74780814 19171912 127018X STD551150	Spacer, Split .28 x .88 Spring Locknut, Flange 1/4 Grade 5 Bolt, Shoulder 5/16-18 UNC Nut Bolt, Hex Head, Fin. 1/2-13 x 7/8 Grade 5 Washer 17/32 x 1-3/16 x 12 Gauge Bolt, Shoulder 5/16-18 x .62 Washer, Lock
14	72050411	Bolt, Carriage 1/4-20 x 1-3/8		1 inch = 25	

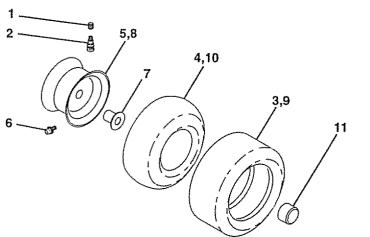
TRACTOR - - MODEL NUMBER 917.257552

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11	138955 132266 143735 143736 132674 133644 142241 133178 128314 137537 4900J	Decal, Operating Instruction Decal, Insert Strg Std Auto USA Decal, Hood, R.H. Decal, Hood, L.H. Decal, Grill, LT4000 Decal, Customer Maintenance Decal, Side Panel Decal, Mower, 3 In One Decal, Fender, Craftsman Decal, Caution, English Decal, Clutch/Brake, English	13 14 15 16 17 18 19 21	131473 136832 142244 140837 133179 145245 131265 138836 138311 145247 147289	Decal, Chassis, 6 Speed/42" Decal, V-Belt Schematic Decal, Insert Hood 14HP OHV Decal, Parking Brake Saddle Decal, Mower QC System Pad Footrest Rbr Sg. Craftsman 95 Decal, Lightbox, Grill Decal, Dash Lawn Tractor Slt Decal, Lift Handle Fastner Pop-In Footrest Owner's Manual, English
12	146046	Decal, V-Belt Drive Schematic		147291	Owner's Manual, Spanish

WHEELS & TIRES



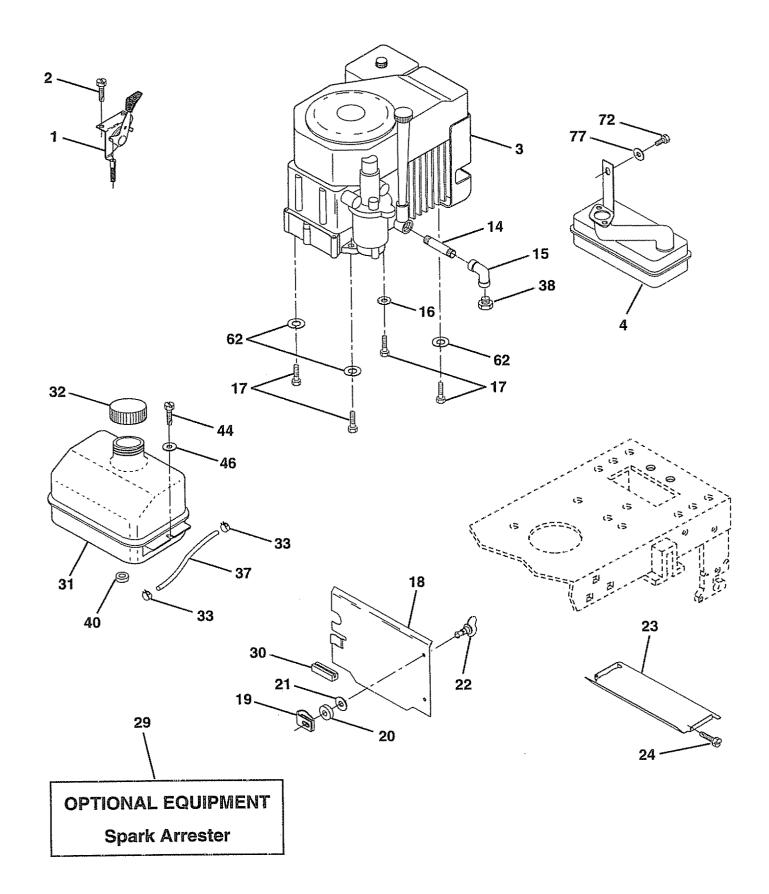
KEY NO.	PART NO.	DESCRIPTION
1	59192	Valve Cap, Tire
2 3	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front Tire
		(Not Provided, Service Item Only)
5	106732X427	Rim, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim, Rear
9	106268X	Tire, Rear
10	7152J	Tube, Rear Tire
		(Not Provided, Service Item Only)
11	104757X	Cap, Axle

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TRACTOR - - MODEL NUMBER 917.257552

ENGINE



TRACTOR - - MODEL NUMBER 917.257552

ENGINE

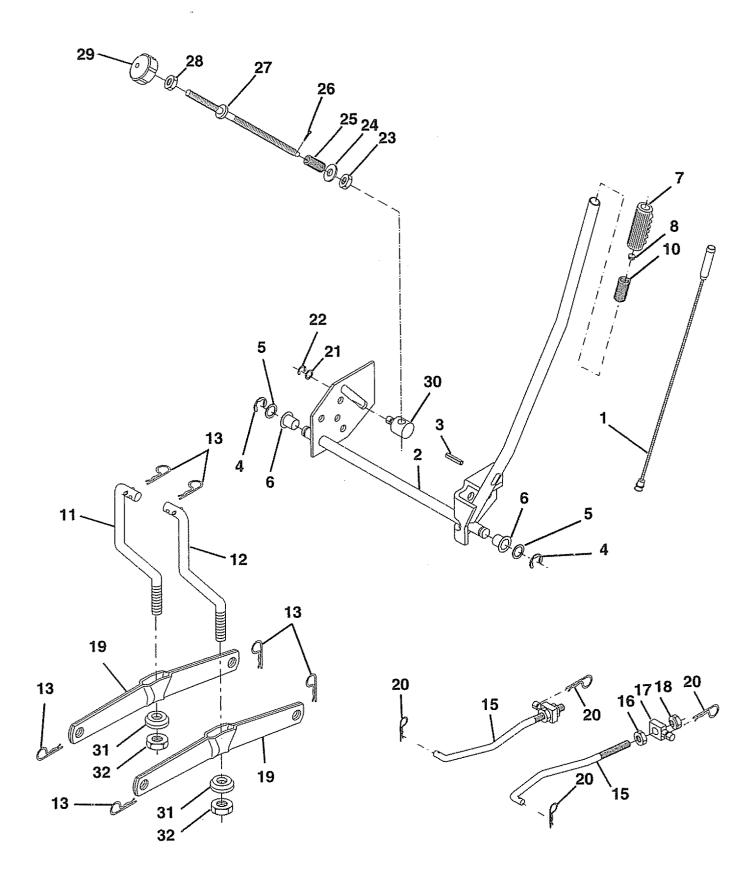
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KEY NO.	PART NO.	DESCRIPTION
1 2	132760 17720410	Control, Throttle Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
3 4 15 16 17 8 9 21 22 24 9 31 23 33 33 33	137510 137350 13280328 13200300 STD551225 M740108025 136718 105839X 105838X STD551025 123650X 128953X STD601005 137180 127057X 109202X 123549X 123487X	Engine, Kohler, Cmd-L 14 Dual V N/F Muffler Nipple, Pipe 3/8 NPT x 3 Elbow, Standard 90°, 3/8-18 NPT Washer Bolt, Hex Shield, Heat Receptacle, 1/4 Turn Retainer, 1/4 Turn Washer Stud, 1/4 Turn Shield, Heat Screw Arrestor, Spark Strip, Foam Tank, Fuel Cap Assembly, Fuel Tank, Vented Clamp, Hose
37 38	137040	Line, Fuel Plug, Oil Drain
40 44	124028X 17490412	(Order From Engine Manufacturer) Bushing, Snap, Fuel Line Screw, Hex Washer Head, Thd., Roll. 1/4-20 x 3/4
46 62 72 77		Washer 9/32 x 7/8 x 16 Gauge Washer, Lock Bolt, Hex Hd 5/16-18 Unc x 1/2 Washer 5/16 x 3/4 x 16 Ga.

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

TRACTOR - - MODEL NUMBER 917.257552

MOWER LIFT



TRACTOR - - MODEL NUMBER 917.257552

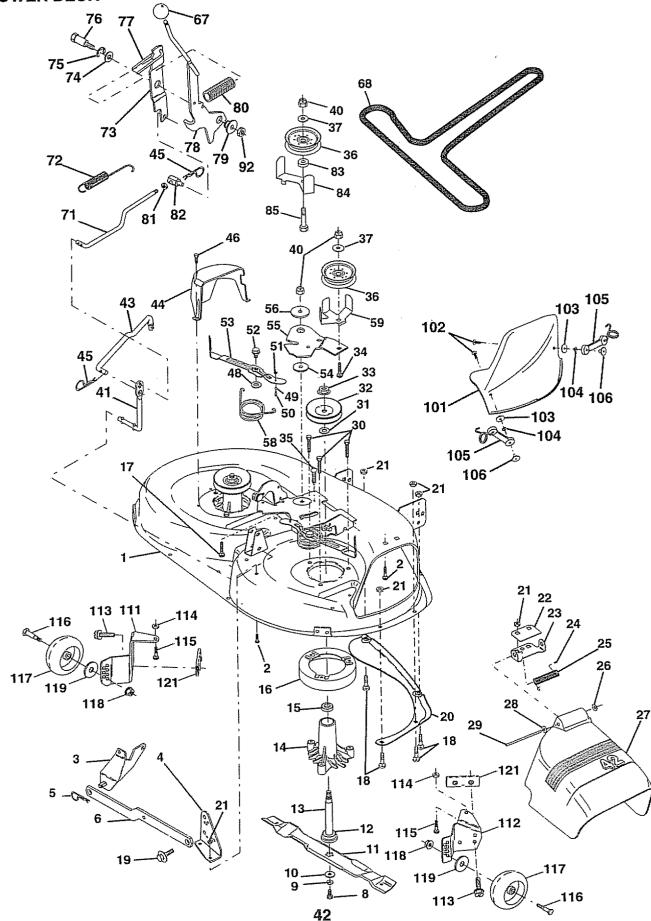
MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
12 13 15 16 17	136973 122507X 105767X 12000002 19211621 120183X 125631X 12265X 122512X 139865 139866 4939M 127218 73350800 130171 73800800	Lift Lever Inner Wire Assembly Shaft Assembly, Lift Pin, Groove E-Ring Washer 21/32 x 1 x 21 Gauge Bearing, Nylon Grip, Handle, Fluted Button, Plunger, Red Spring Link, Lift, L.H. Link, Lift, R.H. Retainer Spring Link, Front Nut, Hex, Jam 1/2-13 UNC Trunnion Locknut, Hex, with Washer Insert
22 23 24 25 26 27 28 29 30 31		1/2-13 UNC Arm, Suspension, Rear Retainer Spring Washer 15/32 x 3/4 x 16 Gauge Ring, Klip Nut, Special Washer 13/32 x 5/8 x 16 Gauge Spring Pin, Cotter 3/32 x 1/2 Rod, Adjust, Lift Nut, Hex, Jam 3/8-16 UNC Knob, Infinite Height Adjustment Trunnion, Depth Stop Bearing Pvt. Lift Spherical Nut Crownlock 3/8-24

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

TRACTOR - - MODEL NUMBER 917.257552

42" MOWER DECK



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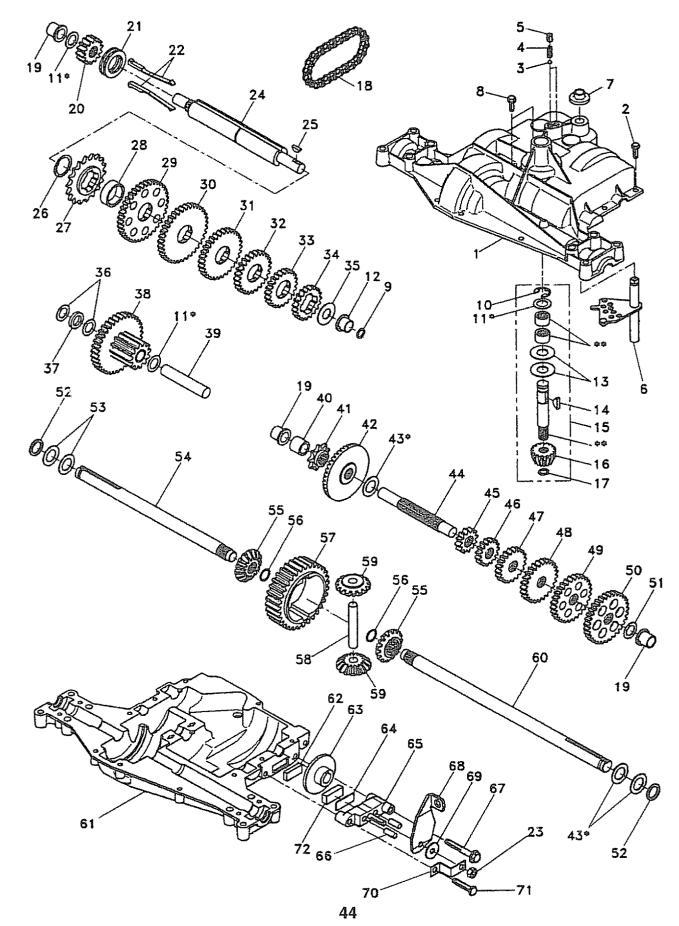
TRACTOR - - MODEL NUMBER 917.257552

42" MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
$\begin{array}{c} 16 \\ 17 \\ 18 \\ 20 \\ 22 \\ 23 \\ 24 \\ 25 \\ 27 \\ 28 \\ 20 \\ 31 \\ 32 \\ 33 \\ 35 \\ 37 \\ 41 \\ 43 \end{array}$	144393 STD533107 138017 138440 STD624008 130832 850857 STD551137 140296 134149 129895 137645 128774 110485X 140329 72110610 72140505 132827 136888 STD541431 134753 131267 105304X 123713X 110452X 130968 19111016 131491 138776 129963 129861 137266 STD533717 133835 131494 STD551037 STD541437 133551 140083 140088 STD624003 137729 133944 133940 131340 STD541410 139888 131845	Mower Housing Bolt Bracket Assembly, Sway Bar, Front Bracket Assembly, Sway Bar Retainer Spring Arm, Suspension, Rear Bolt, Hex 3/8-24 x 1.25 Grade 8 Washer, Lock Washer, Hardened Blade, Mulching Bearing, Ball Shaft Assembly, Mandrel, Vented (Includes Key Number 6) Housing, Mandrel, Vented Bearing, Ball, Mandrel Stripper, Vented Mower Deck Bolt, Carriage 3/8-16 x 2-1/4 Bolt, Carriage 5/16-18 x 5/8 Bolt, Shoulder Baffle, Vortex Nut, Crownlock Stiffener Bracket Bracket, Deflector Cap, Sleeve Spring, Torsion, Deflector Nut, Push Shield, Deflector Washer 11/32 x 5/8 x 16 Gauge Rod, Hinge Screw Thdrol Hex Head Zinc Mwr Washer, Spacer Pulley, Mandrel Nut, Toplock, Flanged Bolt Fastner, Christmas Tree Pulley, Idler, Flat Washer 13/32 x 1 x 12 Gauge Nut Rod, Pivot, with Nibs Rod, Clutch, Secondary, with Nibs Guard, Mandrel, L.H. Retainer Screw, Thd. Roll 1/4-20 x 5/8 Washer, Hardened Roller Assembly, Cam Follower Bolt, Shoulder #10-24 Grade 5 Locknut Bolt, Shoulder 5/16-18 UNC Arm Assembly, Pad, Brake	58 59 67 68 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 92 102 103 104 105 106 111 112 113 115 116 7 112 7 3 7 4 7 5 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	140084 122052X 140086 141043 106932X 144200 142427 131870 127847 121748X 12000029 128903 127845 140334 127498 128759 73350600 142028 120958X 144394 72140620 STD541437 136420 71161010 19061216 STD551110 130758 2029J 140353 132262 17490512 73510500 72110504 137644 133957 73930600 STD551037 143723 130794 145411	Arm, Idler Spacer, Retainer Spring Torsion Brakes 42" Guard Tuv Idler (94) Knob, Round 3/8-16 UNC V-Belt Rod, Clutch, Primary, with Nibs Spring, Return Arm, Clutch, Secondary Washer 25/32 x 1-5/8 x 16 Gauge Ring, Klip Bolt, Shoulder 3/8-16 UNC x 1.44 Keeper, Spring Arm, Clutch, Primary Bushing, Large, Brass Spring, Mower Clutch Nut, Hex Jam 3/8-16 Unc Trunnion, Adj. 94 Washer Sintered Keeper Belt Idler Fixed Bolt, Carriage 3/8-16 x 2-1/2 Gr. 5 Nut Mulcher Cover Screw Washer #10 Washer, Lock Latch Assembly, Bagger Nut, Weld Bracket, Gauge, Wheel L.H. Bracket, Gauge, Wheel L.H. Screw Thdrol 5/16-18 x 3/4 Nut, Hex, Keps 5/16 UNC x 1/2 Bolt, Shoulder Wheel, Gauge Nut, Centerlock 3/8-16 Washer 3/8 x 7/8 x 14 Ga. Bracket, Extruded Gauge Wheel Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32) Mower Deck, Complete (Standard Deck, Does Not Include Mulching, Key Nos. 101-106 and Gauge Wheel Components, Key Nos. 111- 121)
54	133943	Washer, Hardened		1 inch = 25	0.4 MM

TRACTOR - - MODEL NUMBER 917.257552

DANA TRANSAXLE - MODEL NUMBER 4360-79



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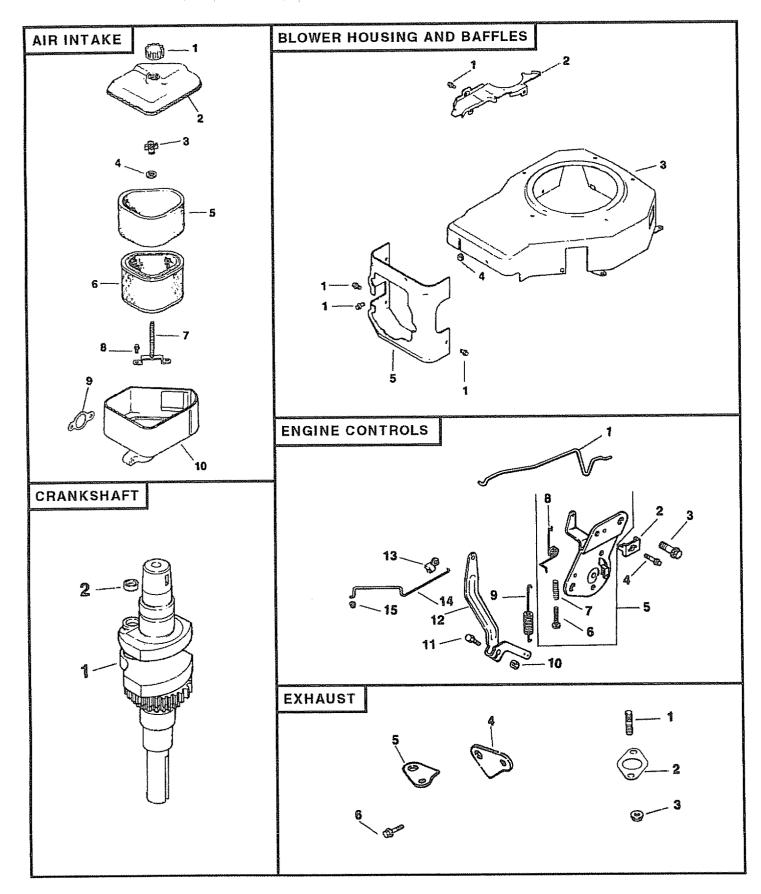
TRACTOR - - MODEL NUMBER 917.257552

DANA TRANSAXLE - MODEL NUMBER 4360-79

	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1 2	142671 2274J	Housing, Upper Screw, Self-Tapping, Large 1/4-20 x 734	41 42 43	105928X 110084X 134394	Sprocket, 9 Teeth Gear, Bevel, 42 Teeth * Assembly, Kit, Shim, 750 Shaft
345678901123456789	142673 120415X 142674 138234 110078X 105909X 105910X 105911X	1/4-20 x .734 Ball, Detent Spring, Detent Screw, Set Kit, Shifter Assembly Boot, Shifter Screw, Tapping w/Sealer Square Ring Ring, Retaining * Assembly, Kit, Shim .625 Shaft Bearing, Flange Washer, Plain .632 x 1.38 x .046 Key, Woodruff, #9 Assembly, Kit, Input Shaft Pinion, Bevel, 14 Teeth Ring, Retaining Chain, 24 Pitches Bearing, Flange	47 48 50 51 52 53 54 55 56 57 58 59 60	120473X 142678 142679 120407X 106589X 120408X 105937X 2226J 134401 2264J 120474X 110081X 105941X 110071X 120952X 110082X 120475X	* Assembly, Kit, Shim .750 Shaft Shaft, Drive Gear, Spur, 12 Teeth Gear, Spur, 15 Teeth Gear, Spur, 20 Teeth Gear, Spur, 25 Teeth Gear, Spur, 28 Teeth Gear, Spur, 28 Teeth Washer, Plain .632 x 1.00 x .060 Washer, Neoprene Washer, Plain .758 x 1.25 x .031 Axle, L.H. Gear, Miter, 15 Teeth Ring, Retaining Gear, Spur, 32 Teeth Shaft, Cross Gear, Miter, 15 Teeth Axle, R.H.
20 21 22 23	142675 138246 138236 73810500	Gear, Špur, 14 Teeth Collar, Clutch Assembly, Kit, Clutch Keys Locknut 5/16-24	61 62 63 64	142680 120961X 7294J 108989X	Housing, Lower Puck, Friction Disc, Brake Spacer
24 25 26 27	142676 2244J 105916X 120470X	Shaft, Intermediate Key, Woodruff, #61 Ring, Retaining Sprocket, 18 Teeth	66 67	120953X 120954X 134799	Jaw, Brake Pin, Dowel Screw, Self-Tapping, Large 5/16-18 x 2.25
28 29 30 31 32	110070X 142677 142681 120405X 108980X	Spacer Gear, Spur, 37 Teeth Gear, Spur, 35 Teeth Gear, Spur, 30 Teeth Gear, Spur, 25 Teeth	68 69 70 71	138244 108996X 120956X 106596X	Lever, Actuating Washer, Plain .321 x 1.00 x .055 Bracket, Anti-Rotation Screw, Self-Tapping, Large 5/16-18 x 1.44
33 34 35	120406X 134796 105925X	Gear, Spur, 22 Teeth Gear, Spur, 19 Teeth Washer, Plain .640 x 1.37 x .061	72 73	120951X 120416X	Puck, Friction Grease
36 37	2232J 108978X	Washer, Plain .632 x 1.00 x .026 Spacer .630 x 1.00 x .169	*		ations to maintain proper clearances
38 39 40	110079X 124639X 120472X	Assembly, Gear, Combination of 12 Teeth and 35 Teeth Shaft, Idler Spacer .635 x .875 x .755		Order Key No. E: All component 1 inch = 25.	ent dimensions given in U.S. inches

TRACTOR - - MODEL NUMBER 917.257552

KOHLER ENGINE - - MODEL NUMBER CV14S, TYPE NUMBER 1452



TRACTOR - - MODEL NUMBER 917.257552

KOHLER ENGINE - - MODEL NUMBER CV14S, TYPE NUMBER 1452

AIR INTAKE

KEY NO.	PART NO.	DESCRIPTION
7 8 9	12 100 01 X-25-63 12 083 08 12 083 05 12 072 03 12 086 01 12 041 02	Knob, Air Cleaner Cover Cover, Air Cleaner Wing Nut Washer, Plain 1/4 Precleaner Element Element, Air Cleaner Stud, Mounting Plate Screw, Mounting Plate Stud Gasket, Air Cleaner
10	12 094 01	Base, Air Cleaner

NOT ILLUSTRATED

Decal, Air Cleaner -- 12 113 27

EXHAUST

KEY NO.	PART NO.	DESCRIPTION
1	M-0829033	Stud, Exhaust Manifold M8 x 1.25 x 20 (2)
2	12 041 03	Gasket, Exhaust Manifold
3	M-0841080	Nut, Muffler Mounting M8 x 1.25 (2)
4	12 126 11	Bracket, Muffler
5	12 445 01	Strap, Lifting
6	M-0645025	Screw, Lifting Strap
		M6 x 1.0 x 25 (2)
	12 522 01	Short Block
	12 755 01	Gasket Set

CRANKSHAFT

KEY PART

NO. NO. DESCRIPTION

1	12 014 02	Crankshaft
2	12 139 01	Plug, Cup

BLOWER HOUSING AND BAFFLES

KEY PART NO. NO.

DESCRIPTION

- Screw, Mounting M5 x 0.8 x 10 (12) Plate, Blower Housing SM-0545010 1 2
 - 12 146 07
- 12 027 14 3 4
- Housing, Blower Grommet, Blower Housing Baffle, Cylinder Head 12 313 03
- 5 12 063 08

NOT ILLUSTRATED

Decal, Horsepower -- 12 113 28

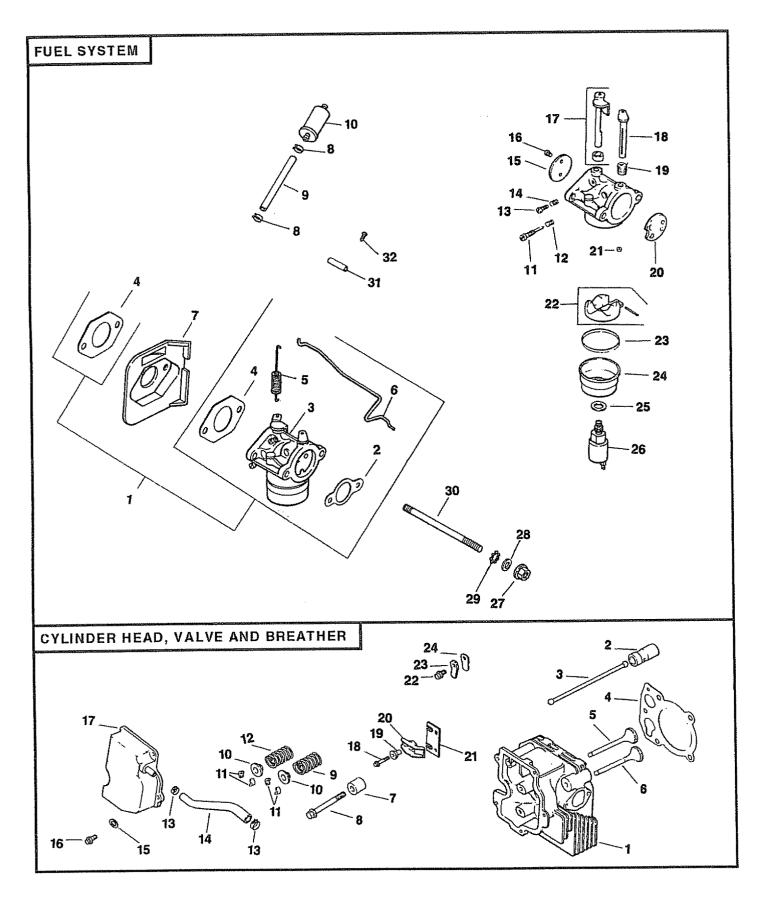
ENGINE CONTROLS

KEY PART

NO.	NO.	DESCRIPTION
1	12 079 07	Linkage, Choke
2	12 237 01	Clamp, Cable
3	SM-0645016	Screw, Hex Head M6 x 1.0 x 16 (2)
2 3 4 5	SM-0545016	Screw, Cable Clamp
5	12 536 01	Control, Speed Assembly (Includes
		Key Numbers 6 through 8)
6	SM-0443025	Screw
7	12 089 11	Spring, Choke Adjust
7 8 9	12 089 04	Spring, Choke Return
9	12 089 19	Spring, Governor
	SM-0641060	Nut, Governor Arm M6 x 1.0
11	SM-0642025	Screw, Governor Arm
		M6 x 1.0 x 25
12	12 090 05	Lever, Governor
13	25 158 11	Bushing
	12 079 01	Linkage, Throttle
	25 158 08	Bushing

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

TRACTOR - - MODEL NUMBER 917.257552 KOHLER ENGINE - - MODEL NUMBER CV14S, TYPE NUMBER 1452



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KOHLER ENGINE - - MODEL NUMBER CV14S, TYPE NUMBER 1452

FUEL SYSTEM

CYLINDER HEAD, VALVE AND BREATHER

	PART NO.	DESCRIPTION	KEY No,	PART NO.
1	12 853 26	Kit, Carburetor	1	12 318
2 3	12 041 02	(Includes Key Numbers 2 thru 6) Gasket, Air Cleaner	2 3	12 351 12 411
3	12 053 32	Carburetor Assembly	4	12 041
		(For Information Only - Not Available Separately)	5	12 017 12 017
		(Includes Key Numbers 11 thru 26)	6	12 016
4 5	12 041 01 12 089 04	Gasket, Carburetor (2)		12 016
6	12 079 07	Spring, Choke Return Linkage, Choke	7 8	12 112 12 086
7	12 265 01	Deflector, Heat		
8 9	X-426-9 25 353 02	Clamp, Hose (2) Fuel Line, 3"	9 10	12 089 12 173
10	25 050 02	Filter, Fuel	11	12 755
11	12 368 01	Needle, Idle, Fuel Adjust	12	12 089
12 13	12 089 09 12 086 04	Spring, Idle Fuel Screw, Idle Speed Adjust	13 14	X-426-9
14	12 089 09	Spring, Idle Speed	15	12 326 12 468
15	12 146 03	Plate, Throttle	16	SM-064
16 17	25 086 27 12 144 09	Screw, Throttle Plate (2) Shaft, Throttle with Lever and Seal	17	10 000
	12 144 08	Shaft, Choke	18	12 096 M-0640
19	12 089 10	Spring, Choke Return	19	24 194
20 21	12 146 02 12 337 01	Plate, Choke Jet, Main	20	24 186
22	12 757 02	Kit, Float	21 22	12 146 SM-054
23	12 041 05	Gasket, Bowl		
24 25	12 104 01 12 041 06	Bowl, Fuel Gasket, Bowl Retainer Screw	23 24	12 018
26	12 757 09	Kit, Solenoid Assembly	24	12 402
27 28 29 30	SM-0641060 X-25-63 X-22-11 M-0629122 12 431 01 12 086 07	Nut, Carburetor M6 x 1.0 (2) Washer, Plain 1/4 Washer, Internal Tooth 1/4 Stud, Carburetor M6 x 1.0 x 110 (2) Sleeve, Insulating Screw, Ground Wire	ΝΟΤΙ	E: All co 1 incl

NOT ILLUSTRATED

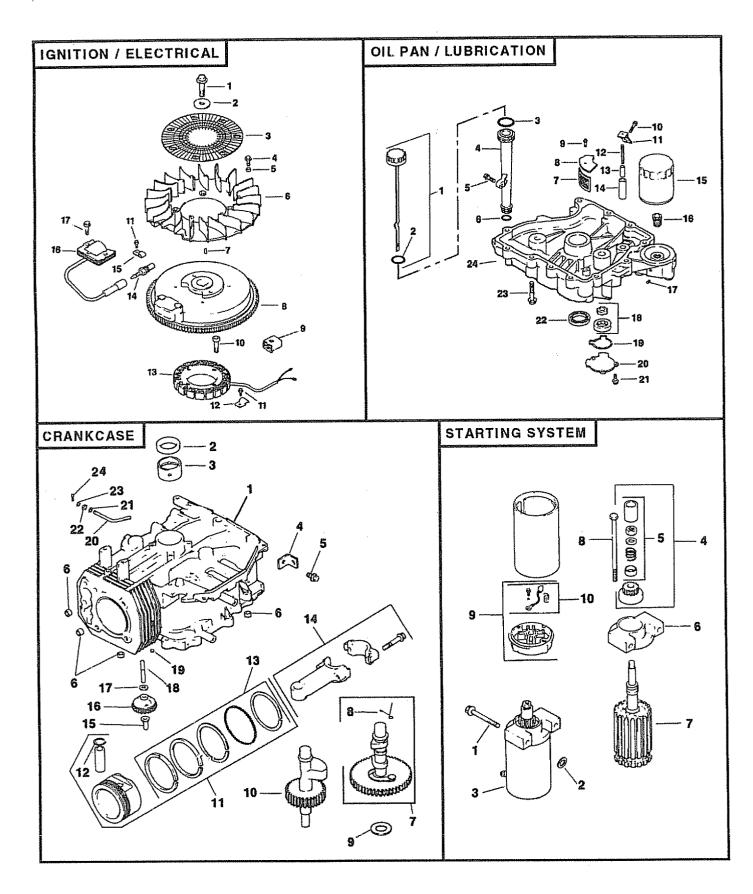
 12 757 03	Kit, Carburetor Repair
12 755 09	Kit, High Altitude Jet
 12 518 05	Lead, Solenoid, Black, 5", 14
	Gauge, Uninsulated Push-On Tabs
 41 518 34	Lead, Ground, Green, 5", 18 Gauge
	Insulated Grip Barrel Eyelets

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NO.	NO.	DESCRIPTION
1	12 318 02 12 351 01	Head, Cylinder Lifter, Valve (2)
2 3 4 5	12 411 01	Rod, Push (2)
4	12 041 08	Gasket, Cylinder Head
5	12 017 01	Valve, Intake, Standard Size
6	12 017 02 12 016 01	Valve, Intake, .25" Oversize
0	12 016 02	Valve, Exhaust, Standard Size Valve, Exhaust, .25" Oversize
7	12 112 13	Spacer, Head Bolt Exhaust Port
8	12 086 15	Screw, Cylinder Head
0	10 000 15	M10 x 1.5 x 80 (5)
9 10	12 089 15 12 173 01	Spring, Exhaust Valve Cap, Valve Spring (2)
11	12 755 03	Kit, Retainer (2)
12	12 089 01	Spring, Intake Valve
13	X-426-9	Clamp, Hose (2)
	12 326 03 12 468 05	Hose, Breather
16	SM-0645020	Washer, Flat Screw, Valve Cover
	0111 00 10020	M6 x 1.0 x 20 (5)
17	12 096 07	Cover, Valve with Nipple
18		Screw, Rocker Arm M6 x 1 x 34 (2)
19 20	24 194 01 24 186 01	Ball, Rocker Pivot (2) Arm, Rocker (2)
	12 146 13	Plate, Guide
22	SM-0545010	Screw, Breather Reed Retainer
~~	10.010.01	M5 x 0.8 x 10
23 24	12 018 01 12 402 01	Retainer, Breather Reed
24	12 402 01	Reed, Breather

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

TRACTOR - - MODEL NUMBER 917.257552 KOHLER ENGINE - - MODEL NUMBER CV14S, TYPE NUMBER 1452



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KOHLER ENGINE - - MODEL NUMBER CV14S, TYPE NUMBER 1452

IGNITION / ELECTRICAL

CRANKCASE

IGNITION / ELECTRICAL				CRANKCASE		
	Y PART NO.	DESCRIPTION		PART NO.	DESCRIPTION	
1	12 086 14	Screw, Flywheel M10 x 1.5 x 45.8	1		Block, Cylinder (Use Short Block,	
2	12 468 03	Washer, Flywheel	_		Part Number 12 522 01)	
3	12 162 01 M 0620016	Screen, Grass	2 3	12 032 03	Seal, Crankshaft	
4 5	M-0639016 12 112 01	Screw, Fan M6 x 1 x 13 (4) Spacer, Fan (4)	3	12 030 01	Bearing, Crankshaft, Standard (Flywheel End)	
6	12 157 02	Fan		12 030 02	Bearing, Crankshaft .25" oversize	
7	X-42-15	Key		12 030 03	Bearing, Crankshaft 50" oversize	
8	12 025 25	Flywheel Assembly	4	12 445 02	Strap, Lifting	
9 10	41 155 02 M 0548025	Connector Serow, Stater Mounting	5	M-0839025 12 380 03	Screw, Lifting Strap M8 x 1.25 x 22	
10	M-0548025	Screw, Stator Mounting M5 x 0.8 x 25 (4)	7	12 010 04	Dowel, Locating (4) Camshaft Assembly (Includes #8)	
11	SM-0545010	Screw, Stator Harness Clip	8	12 089 18	Spring, Actuating	
		M5 x 0.8 x 10 (2)	9	12 422 08	Shim, Camshaft	
12	12 154 02	Clip, Stator Harness		12 422 09	Shim, Camshaft (as required)	
13 14	12 085 03 12 132 02	Stator Assembly, 15 Amp Spark Plug		12 422 10 12 422 11	Shim, Camshaft (as required)	
15	X-728-1	Clip, Cable		12 422 12	Shim, Camshaft (as required) Shim, Camshaft (as required)	
16	12 584 01	Module, Ignition		12 422 13	Shim, Camshaft (as required)	
17	SM-0545020	Screw, Ignition Module		12 422 07	Shim, Camshaft (as required)	
NO.	ILLUSTRATE	M5 x 0.8 x 20 (2)		12 144 04 12 874 01	Shaft, Balance	
140	12 518 01	Lead, White, Ground To Kill (19",	11	12 874 01	Piston w/Ring Set, Standard Piston w/Ring Set .25" oversize	
	1201001	18 Gauge, Fully Insulated Push-on		12 874 03	Piston w/Ring Set .50" oversize	
		Tab and Uninsulated Push-on Tab		12 018 02	Retainer, Piston Pin (2)	
		Terminals)	13	12 108 01	Ring Set, Standard	
	55 755 01	Kit, Diode		12 108 02 12 108 03	Ring Set .25" oversize Ring Set .50" oversize	
OIL	PAN / LUBRIC	ATION	14	12 067 01	Connecting Rod, Standard	
				12 067 02	Connecting Rod .25" oversize	
	(PART	DECODIDEION		12 380 01	Pin, Governor Regulating	
NO.	NO.	DESCRIPTION	16	12 043 05 SM-0631005	Gear, Governor Assembly Washer, Governor Gear Thrust	
1	12 038 01	Dipstick Assembly (Includes #2)		12 144 02	Shaft, Governor Gear	
2	12 153 03	O-Ring, Dipstick	19	52 139 09	Plug, Cup	
3	12 153 02	O-Ring, Upper Oil Fill Tube	20	12 144 01	Shaft, Governor Cross	
4 5	12 123 04 SM-0545020	Tube, Oil Fill Screw, Oil Fill Tube M5 x 0.8 x 20	21	SM-0631015 12 032 01	Washer, Governor Shaft	
6	12 153 01	O-Ring, Lower Oil Fill Tube		X-25-102	Seal, Governor Cross Shaft Washer, Plain 1/4	
7	12 162 02	Screen, Oil Pickup	24	12 380 04	Pin, Governor Hitch	
	8 12 096 03 Cover, Oil Pickup Screen			DTINO OVOTE	B Ó	
10				STARTING SYSTEM		
11	12 126 02	Bracket M10 x 1.5 x 25 Bracket Oil Rump Palief Value		' PART NO.	DESCRIPTION	
12	12 089 03	Bracket, Oil Pump Relief Valve Spring, Oil Pump Relief Valve	NO.	NO.	DESCRIPTION	
13	12 462 01	Piston, Oil Pump Relief Valve	1	M-0839070	Screw, Bendix Starter	
14	12 208 01	Body, Oil Pump Relief Valve	_		M8 x 1.25 x 70 (2)	
15 16	12 050 01 12 136 01	Filter, Oil Adapter, Oil Filter	2 3	12 468 01	Washer (2)	
17		Adapter, Oil Filter Plug, Square Head, Solid 3/8 NPTF	4	12 098 05 12 755 12	Starter Bendix (Includes #4-10) Kit, Drive (Includes Key Number 5)	
18	12 393 01	Oil Pump Assembly	5	12 755 06	Kit, Drive Parts	
19	12 032 04	O-Ring, Oil Pump Cover	6	12 227 01	Cap, Drive End	
20	12 096 02 SM 0545016	Cover, Oil Pump	7	12 170 02	Armature	
21	SM-0545016	Screw, Oil Pump Cover M5 x 0.8 x 16 (3)	8 9	12 086 02 12 243 01	Screw, Hex Flange Cap, Commutator End	
22	12 032 03	Seal, Oil (P.T.O. End)	9		(Includes Key Number 10)	
23	SM-0839045	Screw, Oil Pan M8 x 1.25 x 45 (12)	10		Kit, Brush	
24	12 199 33	Pan, Oil		LLUSTRATE	D Lubricant, Starter	
			* *	52 357 UT	LUURANI, SIANAE	

- - 52 357 01 Lubricant, Starter

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

51

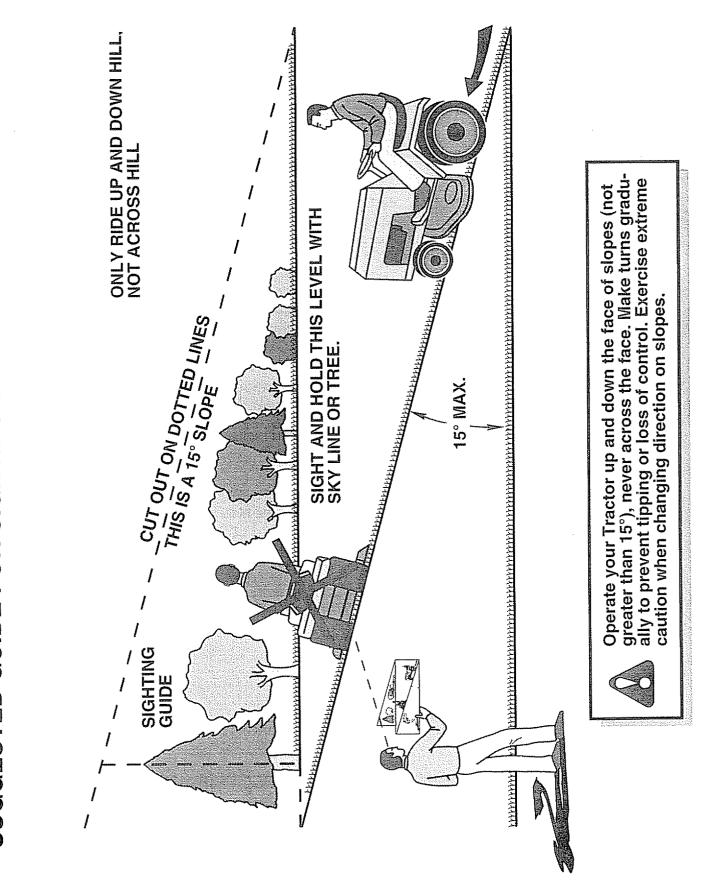
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SERVICE NOTES

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5



OWNER'S MANUAL

MODEL NO. 917.257552

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All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center/Department and most Retail Stores.

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