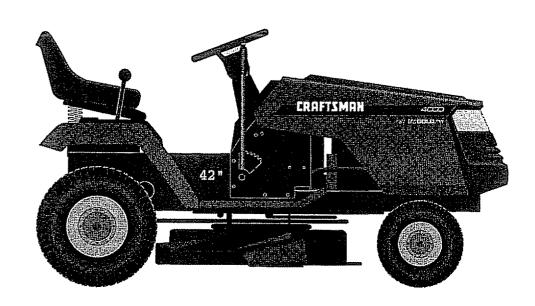
SEARS

MODEL NUMBER 917.257643 OWNER'S MANUAL

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





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



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 comers, 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, well-trained technicians and the proper tools to service or repair this unit.

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	917.257643
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DATEOFPUR	CHASE
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DATE OF PUF	RECORD BOTH SERIAL NUMBER AND RCHASE AND KEEP IN A SAFE PLACE 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 unit.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

PRODUCT SPECIFICATIONS

FERNACI OF MOI	1 10/11/01/10
HORSEPOWER:	15.0
GASOLINE CAPACITY AND TYPE:	5 QUARTS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RJ-19LM STD361458
VALVE CLEARANCE:	INTAKE:005"007" EXHAUST:009"011"
GROUND SPEED (MPH):	FORWARD: 1st 1.02 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.

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

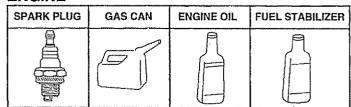
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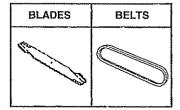
ACCESSORIES AND ATTACHMENTS

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 line 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, 42-inch wide blade clears 38-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 wel/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.

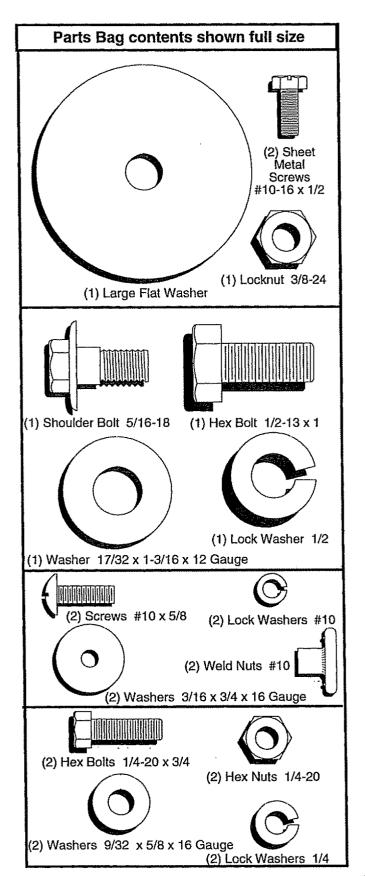
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. Optional accessories include: tinted/tempered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

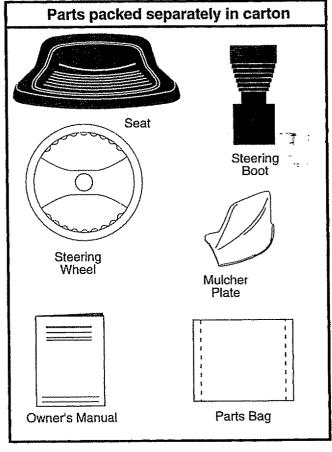
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

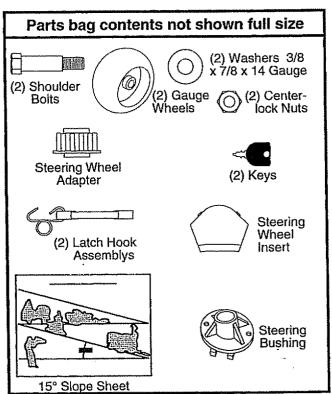
WEIGHT BRACKET for drawbar for snow removal applications. Uses (1) 55 lb. weight.

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

CONTENTS OF HARDWARE PACK







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

(1) 3/4" Socket w/drive rachet

(2) 7/16" wrenches

Phillips Screwdriver

(1) 1/2" wrench

Tire pressure gauge

(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.

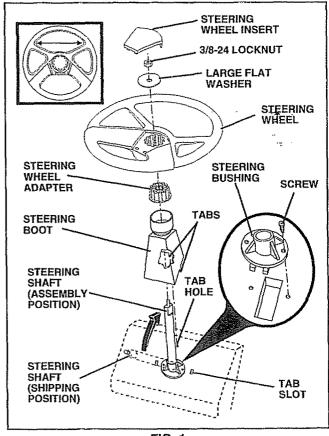


FIG. 1

TO ROLL TRACTOR OFF SKID (See Fig. 8)

Raise attachment lift lever to its highest position.

- Release parking brake by depressing clutch/brake nedal.
- Place gearshift lever in neutral (N) position.
- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

CONNECT BATTERY (See Figs. 2 and 3)



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

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

- · Lift seat pan to raised position.
- Open battery box door.
- Be sure battery drain tube is attached to battery box.
- Remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- 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 .

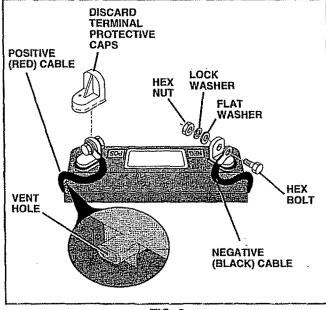


FIG. 2

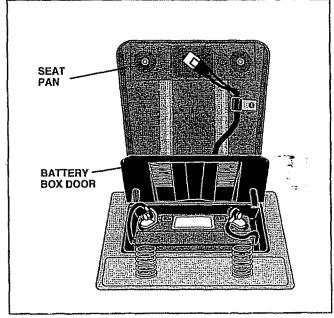


FIG. 3

INSTALL SEAT (See Fig. 4)

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 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.

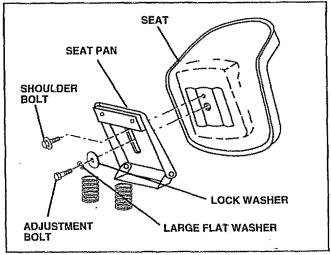


FIG. 4

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.

ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 5)

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.

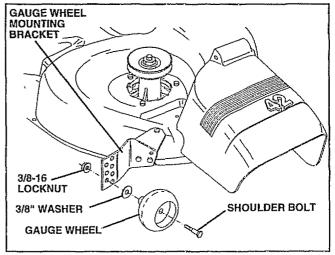


FIG. 5

INSTALL MULCHER PLATE (See Figs. 6 & 7)

 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.

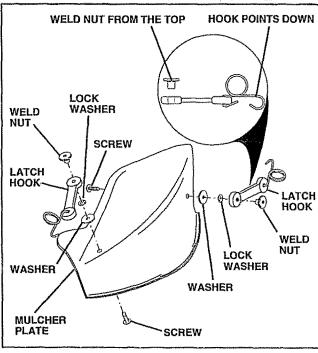


FIG. 6

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.

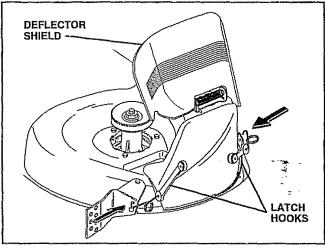


FIG. 7

✓ 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.

KNOW YOUR TRACTOR

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

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

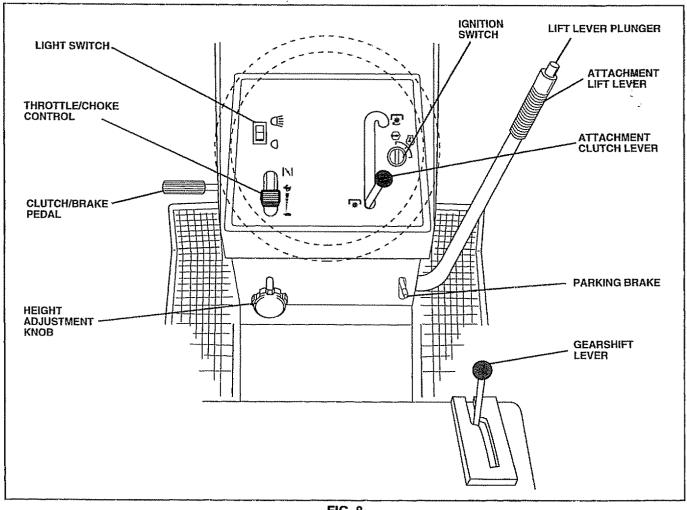


FIG. 8

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

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

LIGHT SWITCH: Turns the headlights on and off.

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

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

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

GEARSHIFT LEVER: Selects the speed and direction of tractor.

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

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

IGNITION SWITCH: Used for starting and stopping the engine.

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



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 for over the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 9)

- 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 vehicle 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.

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

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

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 and range shift levers 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

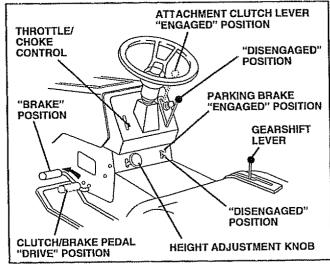


FIG. 9

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 () 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.

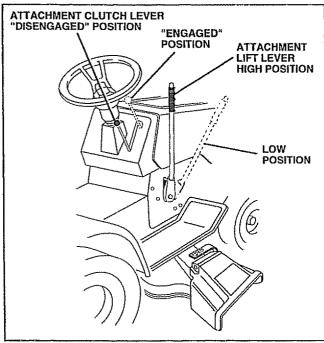


FIG. 10

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. 16)

- 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.
- Remove oit fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the 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 starting 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 (
 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 "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimrning.
- 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.

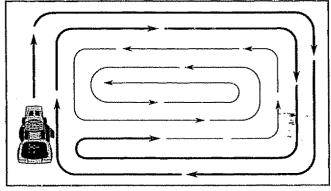


FIG. 11

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 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.

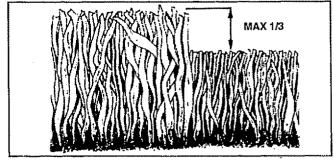


FIG. 12

FIL AS	AINTENANCE SCHEDULE L IN DATES YOU COMPLETE GULAR SERVICE		EFORE	RST2	SE HOURS	HOURE VERY 2	SHOUPS SHOUPS VERY SO	HOUR'S VERY Y	3 HOUP NO HOUP VERY SY	S ON ASON	SER	GE VICE	DA	TES
	Check Brake Operation	V		4										
	Check Tire Pressure	V		0/										
I	Check for Loose Fasteners	6/							9/					
RA	Sharpen/Replace Mower Blades				6 /4									- 1773
Ĉ	Lubrication Chart				0/				6					,
Ť	Clean Battery and Terminals				0,				6/					
0	Check Transaxle Cooling				8									
R	Adjust Blade Belt(s) Tension						8							
	Adjust Motion Drive Belt(s) Tension						6 5							
	Check Engine Oil Level	6		4										
	Change Engine Oil		6/		0/1,2,3				6/					
E	Clean Air Filter				6 /2									
N	Clean Air Screen				6 /2									
G	Inspect Muffler/Spark Arrester					6								
L.	Replace Oil Filter (If equipped)		,				1,2							
NE	Clean Engine Cooling Fins						6 /2							
	Replace Spark Plug						6/	6/						
	Replace Air Filter Paper Cartridge						1 /2							
	Replace Fuel Filter							4						

- 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.

GENERAL RECOMMENDATIONS

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

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

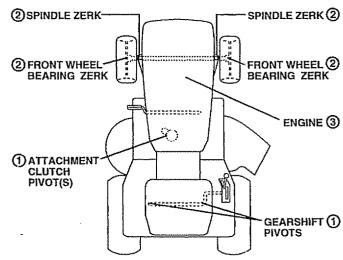
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

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

LUBRICATION CHART



- (1) SAE 30 OR 10W30 MOTOR OIL
- (2) GENERAL PURPOSE GREASE
- (3) REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

- Maintain proper air pressure in all tires (See "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.

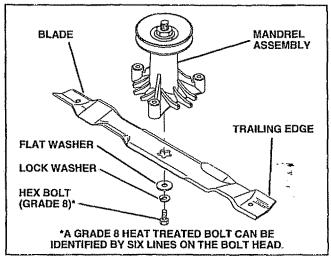


FIG. 13

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.
- 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.

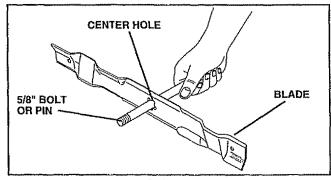


FIG. 14

BATTERY

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

- Keep battery and terminals clean.
- · Keep battery bolts tight.
- Keep small vent holes open (See "CONNECT BAT-TERY" in the Assembly section of this manual).
- Recharge at 6-10 amperes for 1 hour.

TO CLEAN BATTERY AND TERMINALS

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

- Open battery box door.
- 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 "CONNECT 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.

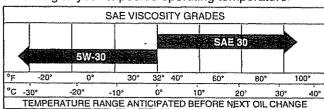


FIG. 15

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 25 hours thereafter or at least once a year if the tractor is not used for 25 hours in one year.

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

TO CHANGE ENGINE OIL (See Figs. 15 and 16)

Determine temperature range expected before oil change. All oil must meet API service classification SFor 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. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

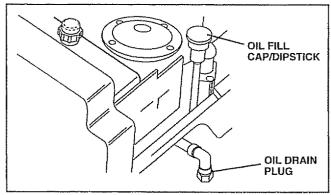


FIG. 16

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(s) and cover.

TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).

TO SERVICE CARTRIDGE

- · Remove cartridge nut.
- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, nut, precleaner, cover and secure with knob(s).

IMPORTANT: PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

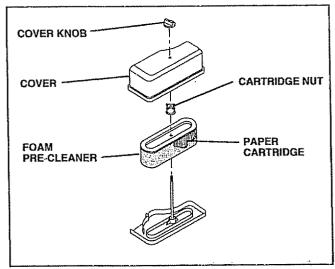


FIG. 17

CLEAN AIR SCREEN (See Fig. 18)

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.

ENGINE COOLING FINS (See Fig. 18)

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating.

- Remove screws from blower housing and lift housing and dipstick tube assembly off engine.
- Cover oil fill opening to prevent entry of dirt.
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.
- To reassemble, reverse above procedure.

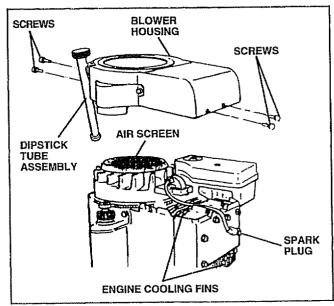


FIG. 18

MUFFLER

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

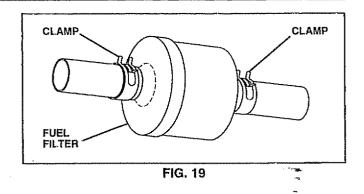
SPARK PLUGS

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.



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.

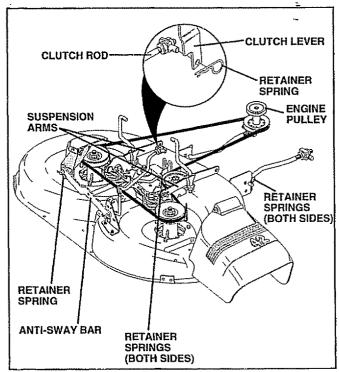


FIG. 20

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: Three full turns of adjustment nut will change mower height about 1/8".

Recheck measurements after adjusting.

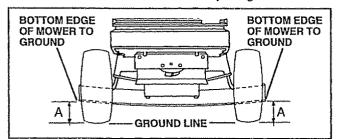


FIG. 21

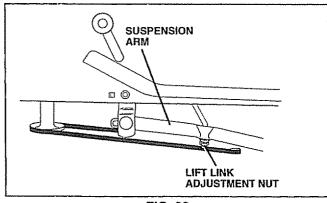


FIG. 22

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-TOSIDE.

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.

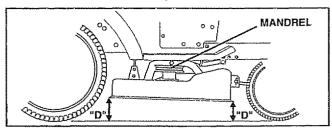
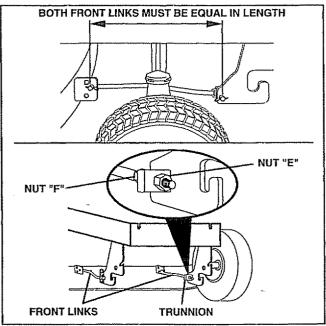


FIG. 23



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 -

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- · Roll belt off engine pulley.
- · Work belt off both mandrel pulleys and idler pulley.
- 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.

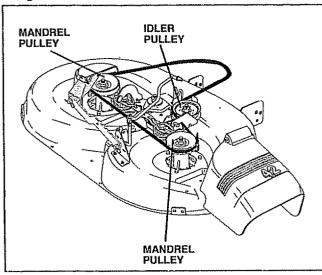


FIG. 25

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", disengage parking brake, loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Engage parking brake and recheck distance.
- 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.

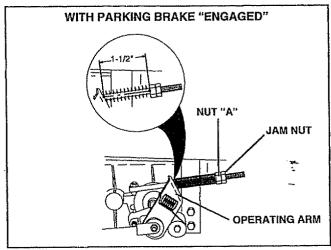


FIG. 26

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.

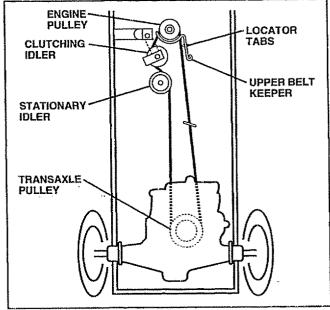


FIG. 27

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.

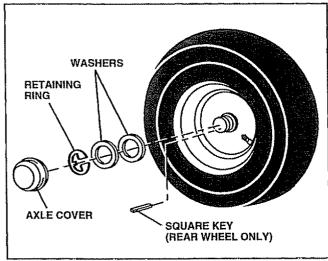


FIG. 28

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.

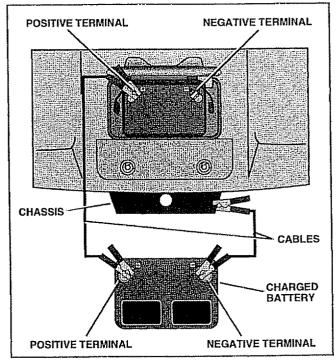


FIG. 29

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 procedures.

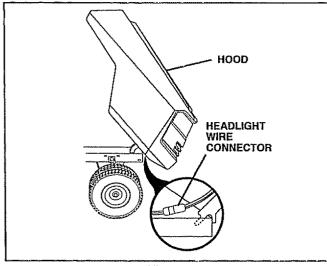


FIG. 30

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 (N) position. Slowly move lever from choke (N) to fast (♠) position.
- Check that holes "A" in governor control lever and hole in governor plate line-up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.

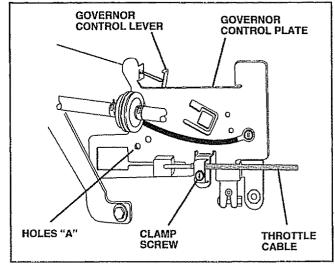


FIG. 31

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 idle mixture valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLE VALVE AND THE SEAT IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).
- With engine off turn idle mixture valve in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 full 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.
- Move throttle control lever to slow (
) position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture valve in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn valve to a point midway between those two positions. Release throttle lever.

ACCELERATION TEST -

Move throttle control lever from slow (<) to fast (
 position. If engine hesitates or dies, turn idle mixture valve 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.

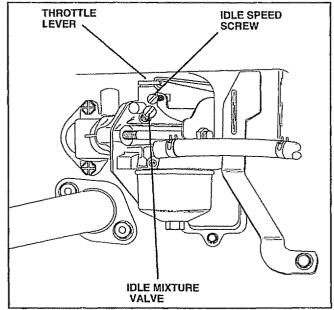


FIG. 32

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

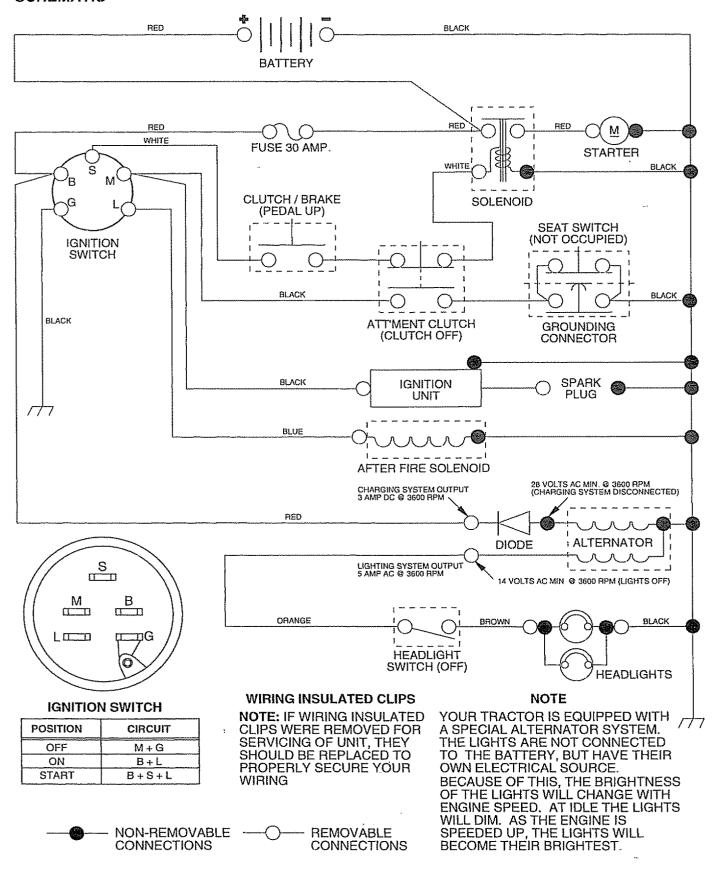
PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment.	1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring. 9. Contact an authorized service facility.
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 luel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. Contact an authorized service facility. Contact an authorized service facility.
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). 	1. Depress clutch/brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. Contact an authorized service facility.
Engine clicks but will not start	Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter.	1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.
Loss of power	1 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. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11 Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	 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 facility. Contact an authorized service facility.
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	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service facility.			
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. Wom/darnaged 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)	1. Switch is "OFF". 2. Bulb(s) burned out 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.	1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.			
Battery will not charge	1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator.	1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. 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.			

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

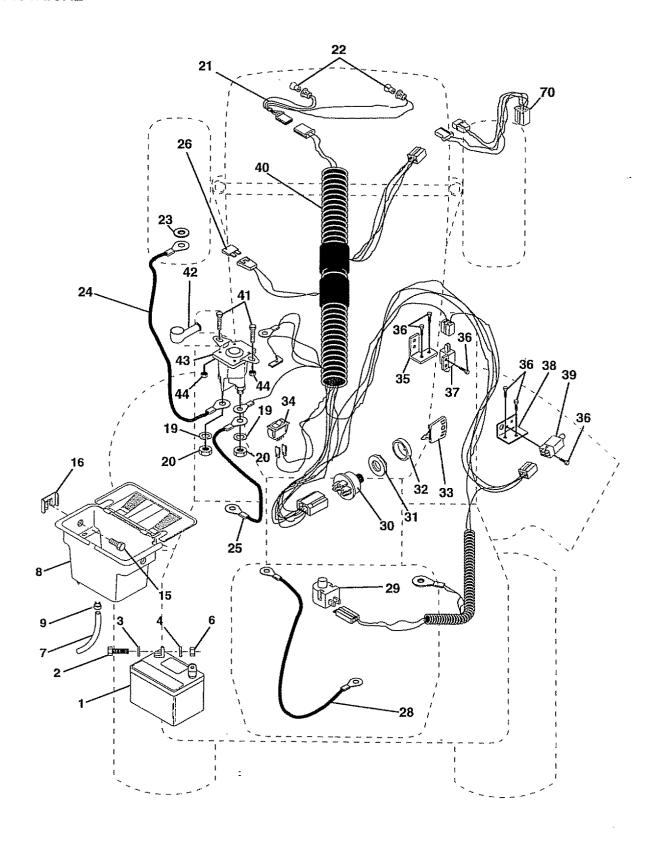
SCHEMATIC



REPAIR PARTS

15 HP 42" TRACTOR -- MODEL NUMBER 917.257643

ELECTRICAL



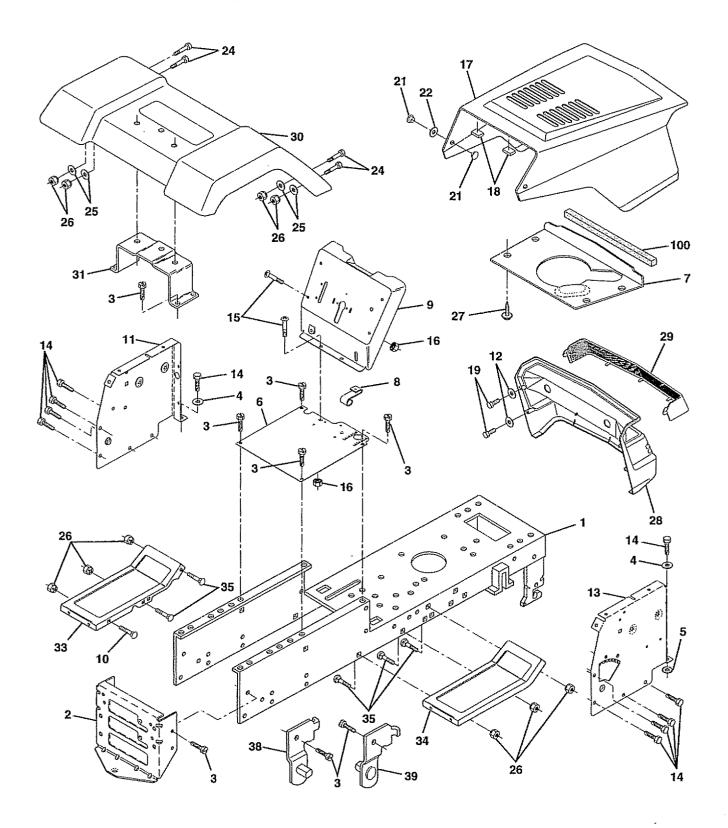
15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 6 7 8 9 15 16 19 20 21	73350400	Battery Service W/Caps Bolt, Hex Head 1/4-20 unc x 3/4 Washer Washer Washer Nut Tube, Plastic, 12" Case, Battery W/2 Holes W/Brty Clamp, Hose Screw Cap Hex Nylon 3/8-16 x 1 Nut Clip Fast 3/8 Washer, Lock Nut, Hex, Jam 1/4-20 UNC Harness, Light Socket
22 23 24 25 26 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	4152J STD551225 4799J 124503X 108824X 4207J 121305X 144921 140400 141226 140403 110712X 108236X STD601005 104445X	(Includes Key # 33) Bulb, Light Washer Cable, Battery, 6 Gauge, Red, 11" Cable, Battery, 6 Gauge, Red, 45" Fuse, 30 Amp Cable, Ground, 6 Gauge, Black, 12" Switch, Plunger Switch, Ignition Nut, Ignition Cover, Key Switch Key, Ignition Switch, Light Bracket, Clutch Switch Screw Switch, Interlock, Clutch, 2 Terminal Bracket, Interlock Switch Switch, Interlock, Clutch, 4 Terminal Harness, Ignition Bolt, Hex Head, Fin. Cover, Terminal, Red Solenoid Nut Keps Hex 1/4-20 UNC

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

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643 CHASSIS AND ENCLOSURES



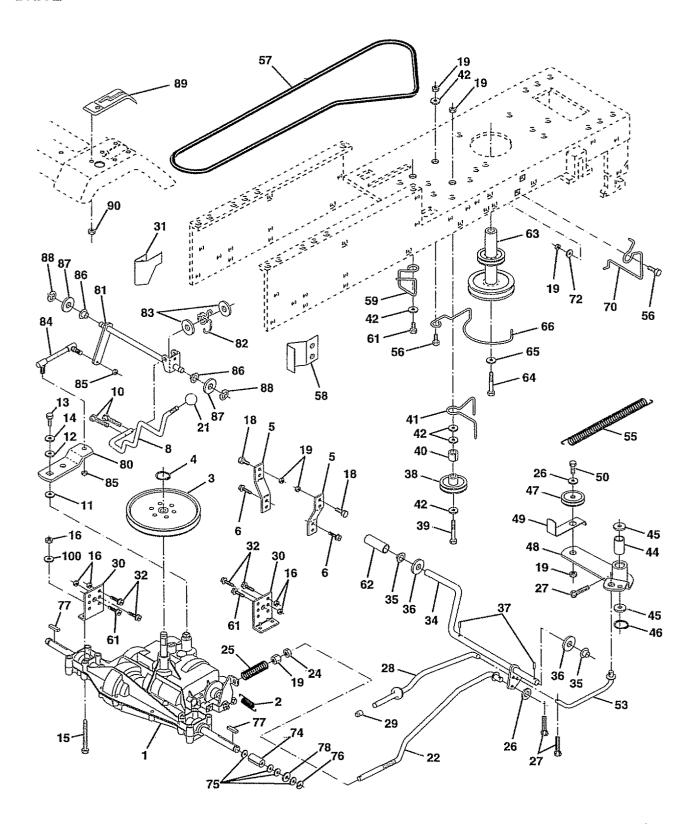
15 HP 42" TRACTOR - - MODEL NUMBER 917.257643 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1	140341	Chassis Assembly
2	140356	Drawbar
2 3 4 5	17490612	Screw, Thd. Roll. 3/8-16 x 3/4
4	19131216	Washer 13/32 x 3/4 x 16 Gauge
5	11050600	Washer, Lock, External Tooth
6	140169	Saddle
7	126842X	Shield Ht Hood Kohl/Dia Engine
8	126471X	Clip Insulator .406 Mtg Hole
9	140637X013	Dash
10 11	72140608 135464	Bolt, Carriage 3/8-16 x 3/4 Panel, Dash, L.H.
12	11030400	Washer Lock 1/4 Int/Ext Tooth
13	126276X	Panel, Dash, R.H.
14	17490608	Screw Thdrol 3/8-16 x 1/2
15	74180512	Screw, Machine, Truss Head
		5/16-18 UNC x 3/4
16	STD541431	Nut
17	131445X459	Hood Assembly
18	126938X	Bumper, Hood
19	17521312	Screw, Sltd. Hex Hd. w/Pl Washer
21	122933X	Rivet, Ratchet, Nylon
22	124479X	Washer, Nylon .28 x .75 x .19
24	STD523710	Bolt
25 26	19131312 CTD541437	Washer 13/32 x 13/16 x 12 Gauge Nut
20 27	STD541437 17030808	Screw Spiderlock Hex Hd #8-1/2
28		Grill
29	124029X	Lens, Headlight Bar, Clear
30	140001X459	Fender
31	136619	Bracket, Fender
33	105465X459	Footrest, L.H.
	105464X459	Footrest, R.H.
35		Bolt
	139886	Pivot Bracket Assembly, L.H.
	139887	Pivot Bracket Assembly, R.H.
	105037X	Strip Foam 18"
* -	5479J	Plug, Button

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

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

DRIVE



15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

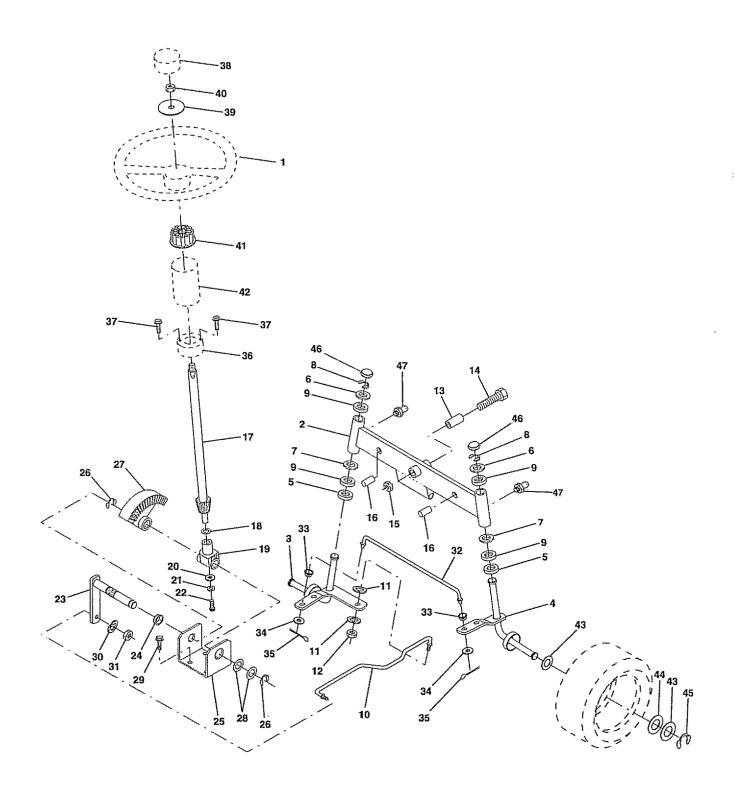
DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	142603	Transaxle, Dana, 6 Speed, Model Number 4360-79	45 46	110812X	Washer, Hardened
2	110422X	Spring, Extension, Brake	40 47	12000039 127783	Ring, Klip Pulley, Idler, V-Groove, Plastic
3	123666X	Pulley, Transaxle	48	123789X	Bellcrank Assembly
4 5	12000028	Ring, Retainer		123205X	Retainer, Belt
5 6	121520X 17490512	Strap, Torque Screw, Thd., Roll. 5/16-18 x 3/4	50 53	STD523715 105710X	Bolt Link, Clutch
8	141003	Lever, Shift		105710X 105709X	Spring, Clutch Return
10	76020416	Pin, Cotter	56	STD523712	Bolt Fin Hex 3/8-16 x 1-1/4
11	105701X	Washer, Shift Plate		130801	V-Belt, Ground Drive
12 13	19151216 71040412	Washer 15/32 x 3/4 x 16 Gauge		127274X	Keeper, Belt, R.H.
13	/1040412	Bolt, Hex Head, Fin. 1/4-28 UNF x 3/4 Grade 8		140312 17490612	Keeper, Belt, Center Span Screw, Thd., Roll. 3/8-16 x 3/4
14	STD551125	Washer		8883R	Cover, Pedal
15	74780544	Bolt, Hex Head 5/16-18 x 2-3/4	63	140186	Pulley, Engine
16	STD541431	Nut, Crownlock 5/16-18 UNC	64	71170764	Bolt, Hex Head, Fin.
18 19	STD523710 STD541437	Bolt Nut	ee	OTDEE4440	7/16-20 x 4 Grade 5
20	17490512	Screw, Thd., Roll. 3/8-16 x 3/4	65 66	STD551143 129921	Washer Keeper, Belt, Engine, L.H.
21	106933X	Knob		134683	Guide, Mower Drive Belt, R.H.
22	130804	Rod, Brake	72	19132012	Washer 13/32 x 1-1/4 x 12 Gauge
24	STD541237	Nut	74	109502X	Spacer, Split .80 x .94
25 26	106888X STD551037	Spring, Brake Rod Washer	75 76	121749X STD581075	Washer 25/32 x 1-1/4 x 16 Gauge E-Ring
27	STD561210	Pin		123583X	Key, Square 2.0 x .1845/.1865
28	140448	Rod, Parking Brake		121748X	Washer 25/32 x 1-5/8 x 16 Gauge
29	124236X	Cap, Parking Brake, Red		131488	Arm, Shift
30	130807	Bracket, Transaxle	81	136932	Shaft Assembly
31 32	127275X STD523107	Keeper, Belt, L.H. Bolt	82 83	123782X 19171216	Spring, Torsion Washer 17/32 x 3/4 x 16 Gauge
34	122424X	Shaft Assembly, Foot Pedal	84	132182	Tie Rod
35	120183X	Bearing, Nylon	85	73530400	Nut, Nylock
36	STD551062	Washer	86	71208	Bushing, Pivot
37	STD571810	Roll Pin		19212016	Washer
38 39	123674X STD523727	Pulley, Idler, Flat Bolt	88 89	12000008 139964	E-Ring Console, Shift, 6 Speed, N/Ignition
40	4470J	Spacer, Split .395 x .59	90	124346X	Nut, Self-Threading, Washer Hd 1/4
41	109070X	Keeper, Belt, Retainer		19111216	Washer 11/32 x 3/4 x 16 Ga.
42	19131312	Washer 13/32 x 13/16 x 12 Gauge	NIO.	PM. All	and diamonalogo short in 11.0 inches
44	105706X	Bearing, Nylon	NO	I E: All compor 1 inch = 25	nent dimensions given in U.S. inches
				1 111011 = 20	rat Hilli

REPAIR PARTS

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

STEERING ASSEMBLY



15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

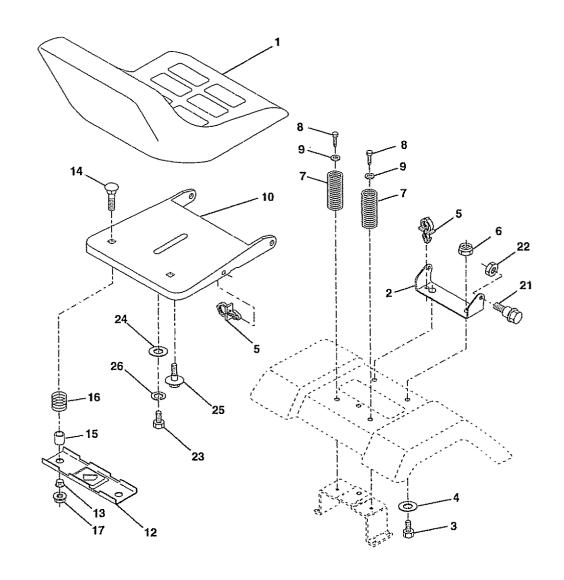
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 1 12 3 4 5 6 7 8 9 10 1 12 3 14 5 6 7 8 9 20 1 22 22 22 22 22 22 22 22 22 22 22 22 2	73901000 132624 132614 57079	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 Washer, Shim 1/4 x 5/8 x .062 Washer Screw, Hex Socket Head
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	127501 109816X 124036X 12000029 136874 6266H 17490612 STD551137 73610600 130465 126847X 19131416 STD561210 132196 STD611005 139769 19133808 STD541537 104820X 124417X 121749X 121748X 12000029 121232X 6855M	1/4-20 x 5/8 Pittman Shaft Assembly Nyliner, Snap-In Bracket, Steering Ring, Klip Gear, Sector Bearing, Race, Thrust, Hardened Screw, Thd., Roll. 3/8-16 x 3/4 Washer, Lock Nut, Hex, Fin. 3/8-24 UNF Rod, Tie Bushing, Link, Drag Washer 13/32 x 7/8 x 16 Gauge Pin 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 Washer 25/32 x 1-5/8 x 16 Gauge Ring, Klip Cap, Spindle Fitting, Grease

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

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

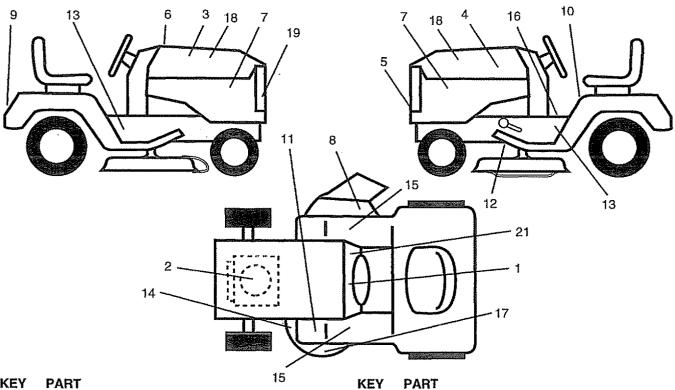
SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	127438X	Seat	15	134300	Spacer, Split .28 x .88
2	140551	Bracket, Pivot, Seat	16	121250X	Spring
3	STD523710	Bolt	17	123976X	Locknut, Flange 1/4 Grade 5
4	19131610	Washer 13/32 x 1 x 10 Gauge	21	139888	Bolt, Shoulder 5/16-18 UNC
5	140407	Clip, Push-In .375 x .250	22	STD541431	Nut
6	STD541437	Nut	23	74780814	Bolt, Hex Head, Fin.
7	124181X	Spring, Seat			1/2-13 x 7/8 Grade 5
8	17490616	Screw, Thd., Roll. 3/8-16 x 1	24	19171912	Washer 17/32 x 1-3/16 x 12 Gauge
9	19131614	Washer 13/32 x 1 x 14 Gauge	25	127018X	Bolt, Shoulder 5/16-18 x .62
10	140552	Pan, Seat	26	STD551150	Washer, Lock
12	121246X	Bracket, Switch Mounting			•
13	121248X	Bushing, Snap	NOT	F. All compon	ent dimensions given in U.S. inches
14	72050411	Bolt, Carriage 1/4-20 x 1-3/8		1 inch = 25	

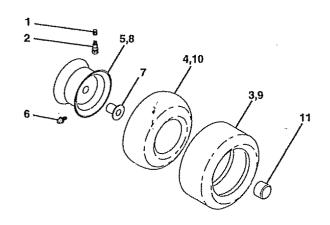
15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	138955	Decal, Operating Instruction	13	131473	Decal, Chassis, 6 Speed/42"
2	142239	Decal, B&S Diamond IC/Gold OHV	14	136830	Decal, V-Belt Schematic
3	143735	Decal, Hood, R.H.	15	105466X	Decal, Pad Footrest Rbr Sq
4	143736	Decal, Hood, L.H.			Craftsman
5	132674	Decal, Grill, LT4000	16	140837	Decal, Parking Brake Saddle
6	133644	Decal, Customer Maintenance	17	133179	Decal, Mower QC System
7	142235	Decal, Side Panel, IC Gold	18	142234	Decal, Ins. Hood 15HP OHV White
8	133178	Decal, Mower, 3 In One	19	131265	Decal, Lightbox, Grill
9	128314	Decal, Fender, Craftsman	21	138836	Decal, Dash Lawn Tractor Slt
10	137537	Decal, Caution, English	Dec 100	138311	Decal, Lift Handle
11	4900J	Decal, Clutch/Brake, English		144176	Owner's Manual, English
12	109199X	Decal, V-Belt Drive Schematic		144422	Owner's Manual, Spanish

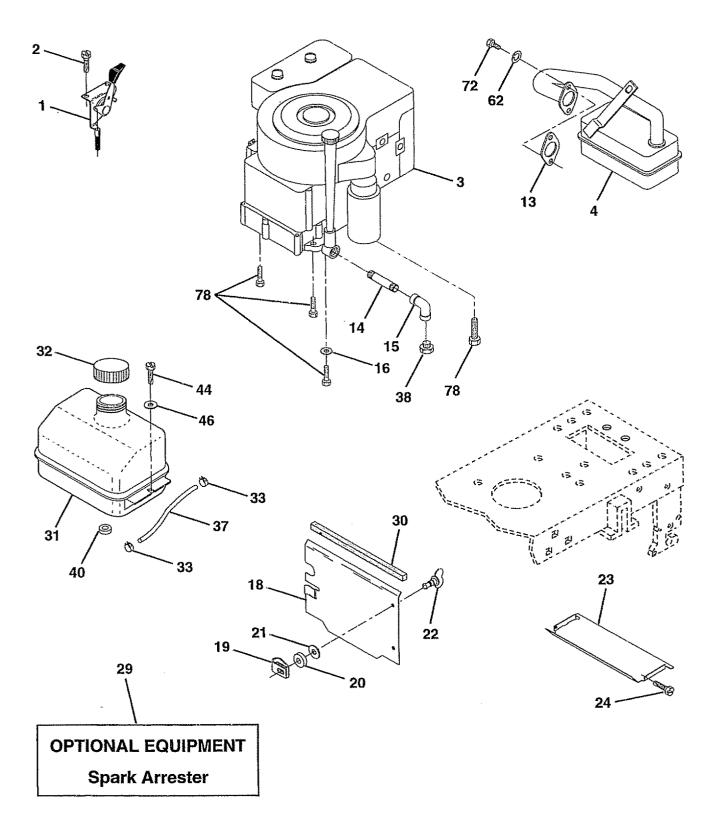
WHEELS & TIRES



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
5 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
		• •

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

ENGINE



15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

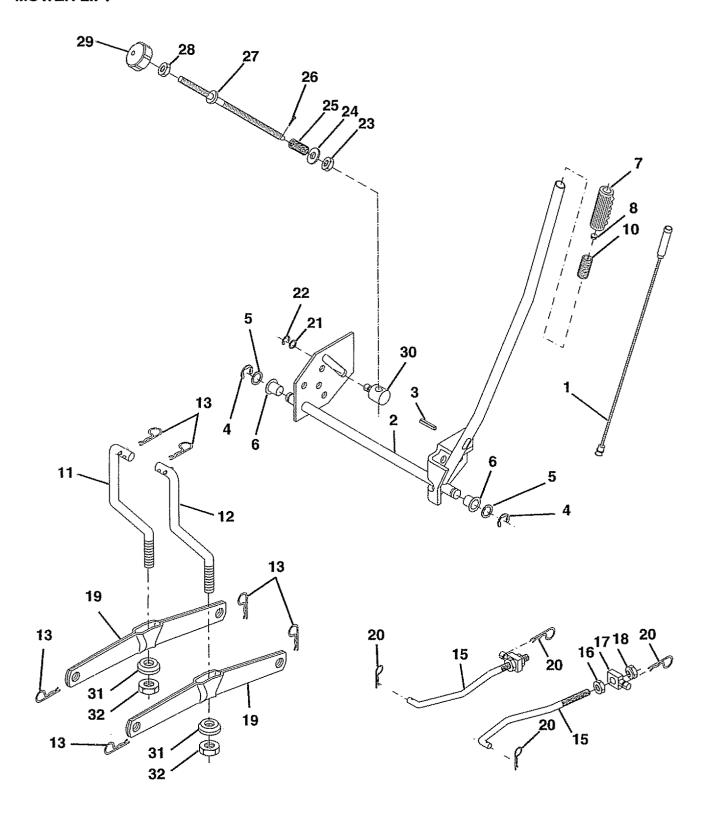
ENGINE

KEY NO.	PART NO.	DESCRIPTION
1 2	132759 17720410	Control, Throttle Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
3	140590	Engine; B&S, 15Hp Diamond Turbo Screen Model No. 28N707, Type NO. 0160-01
4	137352	Muffler
13	125593X	Gasket, Exhaust
14	13280324	Nipple, Pipe 3/8 NPT x 3
	13200300	Elbow, Standard 90°, 3/8-18 NPT
16	STD551237	Washer
18	136718	Shield, Heat
19	105839X	Receptacle, 1/4 Turn
	105838X	Retainer, 1/4 Turn
21		Washer
	123650X 128953X	Stud, 1/4 Turn
	STD601005	Shield, Heat Screw
	137180	Arrestor, Spark
	127057X	Pinch Weld, Hood
	109202X	Tank, Fuel
	123549X	Cap Assembly, Fuel Tank, Vented
33	123487X	Clamp, Hose
	137040	Line, Fuel
38		Plug, Oil Drain
		(Order From Engine Manufacturer)
40	124028X	Bushing, Snap, Fuel Line
44	17490412	Screw, Hex Washer Head, Thd., Roll. 1/4-20 x 3/4
46	19091416	Washer 9/32 x 7/8 x 16 Gauge
62	STD551131	Washer, Lock
72		Screw, Hex Cap Head 5/16-18 x 3/4
78	17490620	Screw, Thd., Roll. 3/8-16 x 1-1/4

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

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

MOWER LIFT



15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

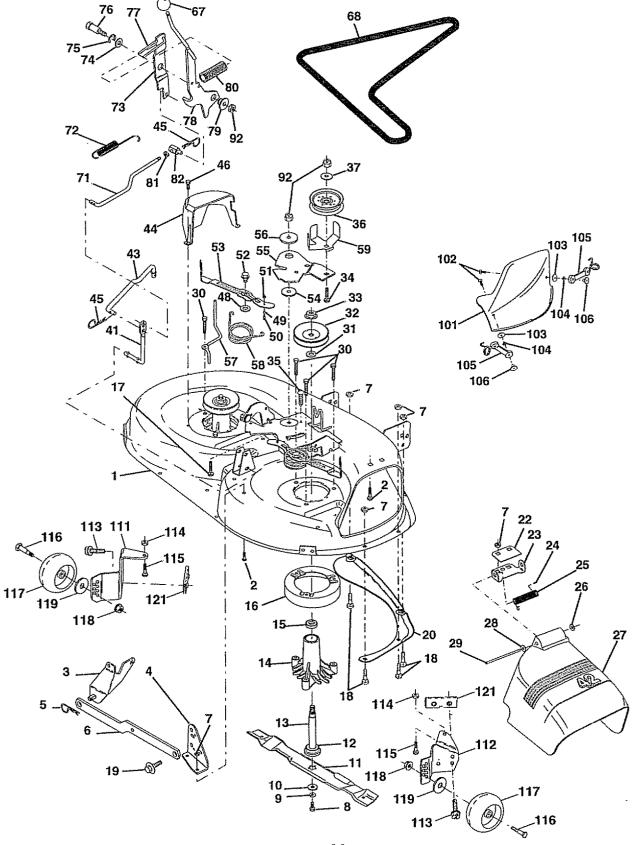
MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4	136973 122507X	Lift Lever Inner Wire Assembly Shaft Assembly, Lift
<u>ن</u> 1	105767X 12000002	Pin, Groove E-Ring
5	19211621	Washer 21/32 x 1 x 21 Gauge
5 6	120183X	Bearing, Nylon
7	125631X	Grip, Handle, Fluted
8	122365X	Button, Plunger, Red
10		Spring
11		Link, Lift, L.H.
	139866 4939M	Link, Lift, R.H. Retainer Spring
15	107010	Link, Front
16	73350800	Nut, Hex, Jam 1/2-13 UNC
17	130171	Trunnion
18	73800800	Locknut, Hex, with Washer Insert
		1/2-13 UNC
19	139868	Arm, Suspension, Rear
20 21		Retainer Spring
22	19151216 12000037	Washer 15/32 x 3/4 x 16 Gauge Ring, Klip
23	110807X	Nut, Special
24	19131016	Washer 13/32 x 5/8 x 16 Gauge
25		Spring
	76020308	Pin, Cotter 3/32 x 1/2
27		Rod, Adjust, Lift
28		Nut, Hex, Jam 3/8-16 UNC
29 30		Knob, Infinite Height Adjustment
31		Trunnion, Depth Stop Bearing, Pvt, Lift Spherical
32	73810600	Nut, Hex 3/8-24 w/Nylon Insert

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

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

MOWER DECK

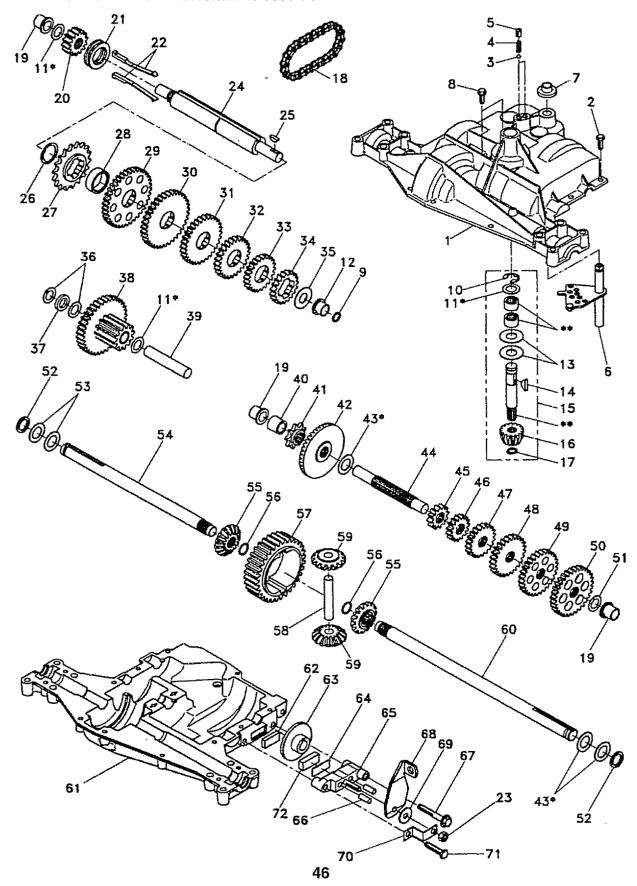


15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
3 4 5 6 7 8 9 0 1 1 2 3 1 4 5 6 6 7 8 9 0 1 1 2 3 1 4 5 6 6 7 8 9 0 1 1 2 3 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3	140081 STD533107 138017 138440 STD624008 130832 73800500 850857 STD551137 140296 134149 129895 137645 128774 110485X 140329 72110610 72140505 132827 136888 134753 131267 105304X 123713X 110452X 130968 19111016 131491 138776 129963 121961 137266 STD533717 133835 131494 19131316 133551 140088 STD624003 137729 133944 133940 131340 STD541410	Mower Housing Bolt Bracket Assembly, Sway Bar, Front Bracket Assembly, Sway Bar Retainer Spring Arm, Suspension, Rear Locknut 5/16-18 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 1-1/4 Bolt, Carriage 5/16-18 x 5/8 Bolt, Shoulder Baffle, Vortex 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 13/16 x 16 Gauge 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	54 55 56 57 58 59 67 68 71 72 73 74 75 77 78 81 82 92 101 102 103 104 115 116 117 118 119 121	17490512 73510500 72110504 137644 133957 73930600 19121414 143723 130794	Screw Thdrol 5/16-18 x 3/4 Nut, Hex, Keps 5/16-18 UNC Bolt, Carriage 5/16 UNC x 1/2 Bolt, Shoulder Wheel, Gauge Nut, Centerlock 3/8-16 Washer 3/8 x 7/8 x 14 Gauge Bracket Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32) Mower Deck, Complete (Standard Deck, Order Separately Mulcher Plate and Gauge Wheel Components, Key Nos. 101-106 and 111-121)
52	139888	Bolt, Shoulder 5/16-18 UNC	NU	1 inch = 2	onent dimensions given in U.S. inches 5.4 mm

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643
DANA TRANSAXLE - MODEL NUMBER 4360-79

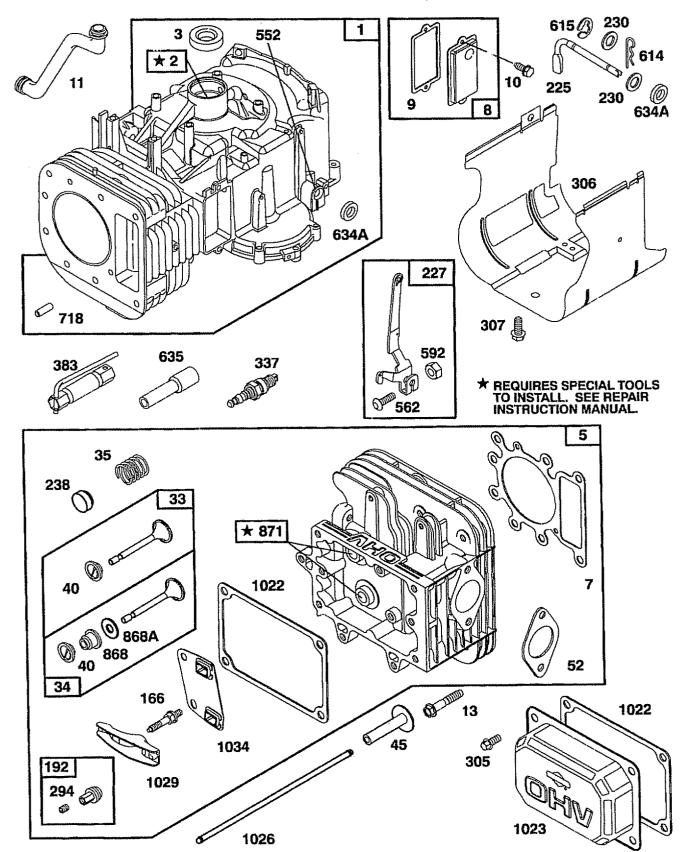


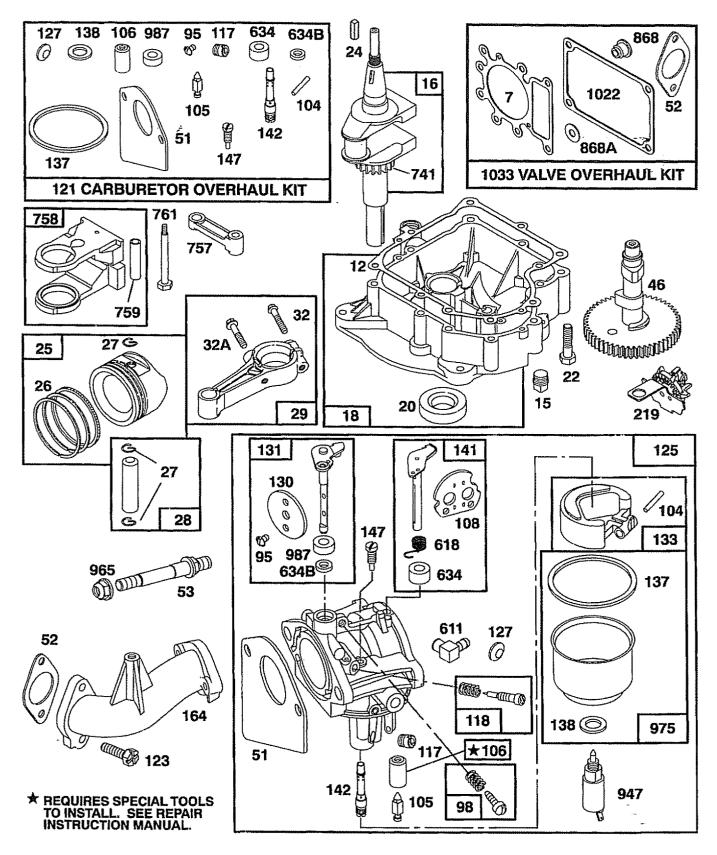
15 HP 42" TRACTOR - - MODEL NUMBER 917.257643

DANA TRANSAXLE - MODEL NUMBER 4360-79

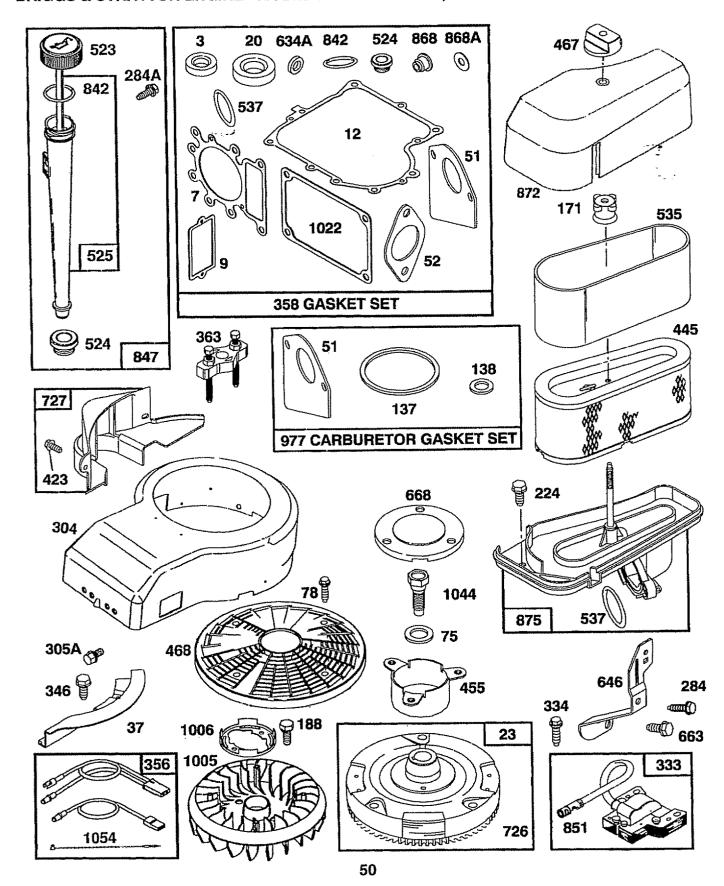
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	142671 2274J	Housing, Upper Screw, Self-Tapping, Large		105928X 110084X	Sprocket, 9 Teeth Gear, Bevel, 42 Teeth
3 4 5 6 7 8 9 0 1 1 2 3 1 4 5 6 7 8 9 0 1 1 2 3 1 4 5 6 7 8 9 2 2 2 3 4 5 6 7 8 9 2 2 2 3 4 5 6 7 8 9 2 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	134400 105904X 105905X 138235 134399 134791 138241 142672 134793 142673 120415X 142674 138234 110078X 105909X 105910X 105911X 142675 138246 138236 73810500 142676 2244J 105916X 120470X	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 Gear, Spur, 14 Teeth Collar, Clutch Assembly, Kit, Clutch Keys Locknut 5/16-24 Shaft, Intermediate Key, Woodruff, #61 Ring, Retaining Sprocket, 18 Teeth	43 44 45 46 47 48 49 50 51 52 53 55 55 55 56 66 66 66 66 66 66	134394 120473X 142678 142679 120407X 106589X 120408X 105937X 2226J 134401 2264J 120474X 110081X 105941X 110071X 120952X 110082X 120475X 142680 120961X 7294J 108989X 120953X 120954X 134799	
28 29 30	110070X 142677 142681	Spacer Gear, Spur, 37 Teeth Gear, Spur, 35 Teeth	68 69 70	138244 108996X 120956X	Lever, Actuating Washer, Plain .321 x 1.00 x .055 Bracket, Anti-Rotation
31 32 33	120405X 108980X 120406X	Gear, Spur, 30 Teeth Gear, Spur, 25 Teeth Gear, Spur, 22 Teeth	71 72	106596X 120951X	Screw, Self-Tapping, Large 5/16-18 x 1.44 Puck, Friction
34 35 36 37	134796 105925X 2232J 108978X	Gear, Spur, 19 Teeth Washer, Plain .640 x 1.37 x .061 Washer, Plain .632 x 1.00 x .026 Spacer .630 x 1.00 x .169	73		Grease ations to maintain proper clearances
38 39	110079X 124639X	Assembly, Gear, Combination of 12 Teeth and 35 Teeth Shaft, Idler	**	Order Key No.	15 ent dimensions given in U.S. inches
40	120472X	Spacer .635 x .875 x .755	14771	1 inch = 25.4	4 mm

15 HP 42" TRACTOR - - MODEL NUMBER 917.257643
BRIGGS & STRATTON ENGINE - MODEL NUMBER 28N707, TYPE NUMBER 0160-01





15 HP 42" TRACTOR - - MODEL NUMBER 917.257643
BRIGGS & STRATTON ENGINE - MODEL NUMBER 28N707, TYPE NUMBER 0160-01

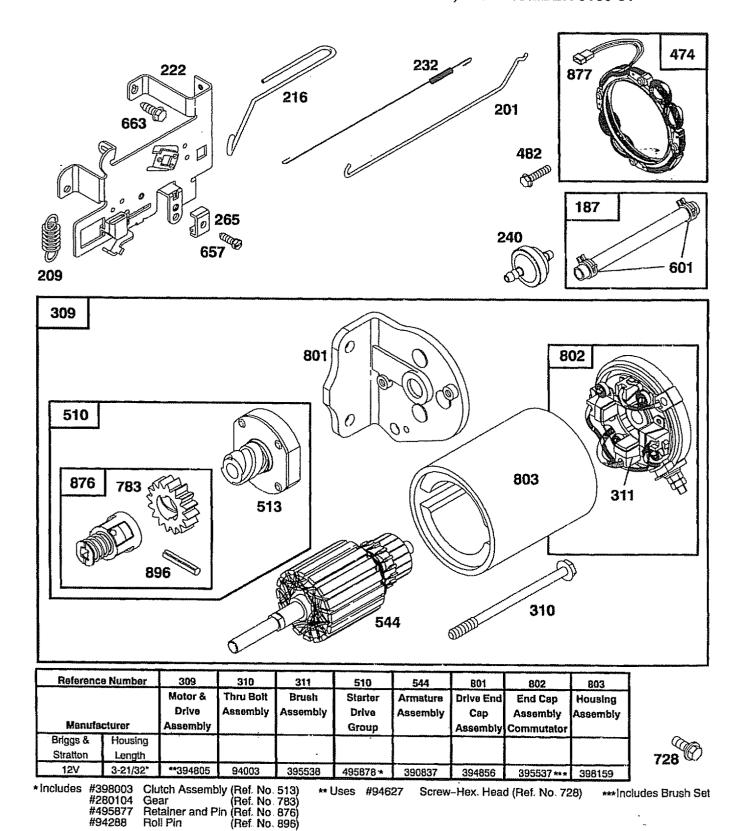


#495877

#94288

Retainer and Pin

Roll Pin

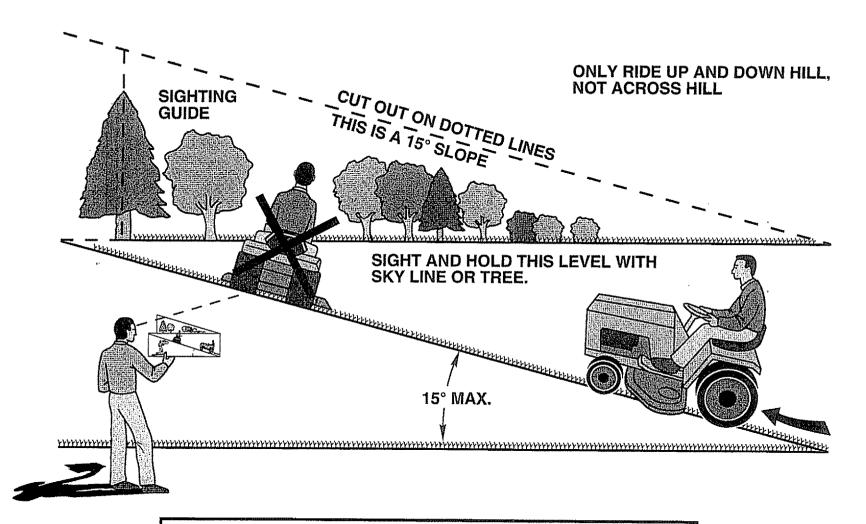


KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	496412	Cylinder Assembly	52	272569	*** Gasket, Carburetor
ż	399265	Bearing, Cylinder			(Elbow to Cylinder)
3	391086	* Seal, Oil	53	94637	Stud, Carburetor Mounting
5	495858	Head, Cylinder	75	224061	Washer, Spring
7	272614	*** Gasket, Cylinder Head	78	94832	Screw, Pan Head
8	495735	Breather Assembly	95	94098	** Screw, Throttle
9	27803	* Gasket, Valve Cover	98	495800	Screw, Idle Speed
10	94621	Screw, Sems	104	231789	** Pin, Float Hinge
11	281246	Tube, Breather	105	231855	** Valve Float
12	271916	* Gasket, Crankcase Cover, .015"		231854	** Seat, Inlet Valve
	271997	* Gasket, Crankcase Cover, .005"	108	224540	Valve, Choke
	271996	* Gasket, Crankcase Cover, .009"	117	231858	** Jet, Needle Valve
13	94728	Screw, Cylinder Head		495932	Valve, Needle
15	94239	Plug, Öil Drain		495799	Carburetor Overhaul Kit
	495162	Crankshaft		94616	Screw, Elbow Mounting
	94196	Timing Gear Key		495935	Carburetor Assembly
18	494238	Base, Engine	127		** Plug, Welch (Sold in Kit Only)
20	291675	* Seal, Oil		224539	Valve, Throttle
22	94624	Screw, Sems, Base Mounting		494379	Shaft and Lever, Throttle
23	492326	Flywheel and Ring Gear Assembly,		494381	Float, Carburetor
		Magneto		281165	**** Gasket, Float Bowl
24	222698	Key, Flywheel		281164	**** Washer, Bowl
25	495860	Piston Assembly, Standard Size		495931	Shaft and Lever, Choke
	495977	Piston Assembly, .010" Oversize		231859	** Nozzle, Carburetor
	495978	Piston Assembly, .020" Oversize		231794	** Pilot, Jet
	495979	Piston Assembly, .030" Oversize		214053	Elbow, Carburetor
26	495854	Ring Set, Piston, Standard Size		94555	Stud, Rocker Arm
	495852	Ring Set, Piston, .010" Oversize		281051	Nut, Air Cleaner Mounting Line, Fuel (11" Long, Cut to Suit)
	495851	Ring Set, Piston, .020" Oversize		393815	
	495855	Ring Set, Piston, .030" Oversize		94627	Screw, Sems Screw Assembly, Rocker Arm
27	260924	Lock, Piston Pin		492160 262767	Link, Governor
28	299691	Pin Assy., Piston, Standard Size		260695	Spring, Governor
	391286	Pin Assy, Piston, .005" Oversize		262766	Link, Choke
29	494504	Rod Assembly, Connecting		490815	Gear, Governor
	495490	Rod Assembly, Connecting,		495611	Plate, Governor Control
	04005	.020" Undersize Crankpin Bore		94729	Screw, Sems, Air Cleaner
	94695	Screw, Hex Washer Head, 1-57/64		231058	Crank, Governor
	94648	Screw, Hex Washer Head, 1-5/8	£	201000	Cracing Coverno
33	495856	Valve, Exhaust Valve, Intake	*	Included	in Gasket Set (495993)
34	495857 262811		**	Included	in Carburetor Kit (495799)
35		Spring, Valve Guard, Flywheel	***	Included	in both Gasket Set (495993) and
37	224502 224641	Retainer, Valve Spring		Valve Ov	verhaul Kit (495992)
40 45		Tappet, Valve	***	 Included 	in Gasket Set (495993), Carburetor Kit
45 46		Gear, Cam		(495799)) and Carburetor Gasket Set (494385)
46 51	272465	**** Gasket, Carburetor (Carburetor to		•	•
31	212400	Elbow) (Also Included in Gasket	NC	TE: All co	mponent dimensions given in U.S. inches
		Set, Part Number 495993)		1 inch	1 = 25.4 mm
		way can remined toward			

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO. DESCRIPTION	
227 493935	Lever Assembly, Governor	663 94620 Screw, Self-Tapping	
230 94742	Washer, Governor Crank	668 280848 Spacer -	- TV-
232 262785	Spring, Governor Link	718 230192 Pin, Dowel	→
238 262836	Cap, Valve	726 392134 Gear, Ring	
240 394358	Filter, Fuel (In Fuel Line)	(Includes Mounting Hardy	vare)
265 221535 284 94326	Clamp, Casing	727 490324 Cover, Starter	
	Screw, Hex Head	741 262932 Gear, Timing	
284A 94073 294 810068	Screw, Hex Head	757 213998 Link, Counterweight	
304 496280	Screw, Set	758 399891 Counterweight Assembly	
305 94729	Housing, Blower	759 298909 Pin, Counterweight	
303 34728	Screw, Hex, Head, Blower Housing Mounting	761 94593 Screw, Counterweight	
306 224696	Shield, Cylinder	842 270920 * Seal, Oil Filler Cap	
307 94623	Screw, Cylinder Shield	847 496415 Fill Group, Oil 851 224110 Terminal, Ignition Cable	
333 495859	Armature, Magneto	851 224110 Terminal, Ignition Cable 868 494435 *** Seal Assembly, Valve	
334 93381	Screw, Sems, Armature Mounting	868 494435 *** Seal Assembly, Valve 868A 272610 *** Gasket, Valve	
337 491055	Plug, Spark	871 262835 Bushing, Guide (Intake &	Evhauct
346 93705.	Screw, Hex Head	871 262835 Bushing, Guide (Intake & Cover, Air Cleaner	=xiiausi)
356 496070	Wire Assembly	875 495862 Body, Air Cleaner	
358 495993	Gasket Set	877 393456 Diode and Connector Ass	ambly
363 19203	Puller, Flywheel	947 495739 Solenoid	sembly
383 89838	Wrench, Spark Plug	965 94108 Nut, Hex	
423 94073	Screw, Sems	975 495933 Bowl Assembly, Carburet	or
445 493909	Cartridge, Air Cleaner	977 494385 Carburetor Gasket Set	O1
455 222561	Cup, Screen Mounting	987 281166 ** Seal, Throttle Shaft	
467 493903	Knob, Air Cleaner	1005 281400 Fan, Flywheel	
468 494439	Screen, Flush Rotating	1006 224413 Retainer, Fan	
474 393474	Stator, Alternator	1022 272475 *** Gasket, Cover	
482 93621	Screw, Sems	1023 224552 Cover, Rocker Arm	
523 495230	Cap and Dipstick, Oil Filler	1026 494432 Rod, Push, Intake	
524 68838	* Seal, Filler Tube	495136 Rod, Push, Exhaust	
525 496113	Tube, Oil Filler	1029 224554 Arm, Rocker	
535 272403	Element, Filter	1033 495992 Valve Overhaul Kit	
537 281106	* O-Ring, Air Cleaner	1034 495248 Guide Assembly, Push Ro	od
552 231597	Bushing, Governor Crank	1044 94673 Screw, Hex Head	
562 92613	Bolt, Governor Lever	1054 270723 Tie, Cable	
592 231082	Nut, Hex		
601 93053	Clamp, Fuel Pipe	RPM Settings: Low: 1650-1850, High: 3200-	3400
611 493496	Elbow, Fuel Pipe		
614 93306	Pin, Cotter	* Included in Gasket Set (495993)	
615 93307	Retainer, E-Ring	** Included in Carburetor Kit (495799)	
618 262803	Spring, Choke Return	*** Included in both Gasket Set (495993) an	d
634 281168	** Seal, Choke Shaft	Valve Overhaul Kit (495992)	
634A 491323 634B 281167	* Seal, Governor	**** Included in Gasket Set (495993), Carbur	
635 280872	** Washer, Throttle Shaft	(495799) and Carburetor Gasket Set (49	4385)
646 224546	Elbow, Spark Plug	SIOTE: All names and discount of the state o	m
657 93496	Brace, Air Cleaner	NOTE: All component dimensions given in U.	S. Inches
001 30430	Screw, Sems	1 inch = 25.4 mm	

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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

SEARS

OWNER'S MANUAL

MODEL NO. 917.257643

IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

1-800-4-REPAIR (1-800-473-7247)

FOR REPLACEMENT PARTS INFORMATION AND ORDERING, CALL THIS TOLL FREE NUMBER:

1-800-FON-PART (1-800-366-7278)

CRAFTSMAN®

15.0 HP IC ELECTRIC START 3 in One Convertible 42" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

Each tractor has its own model number. Each engine has its own model number.

The model number for your tractor will be found on the model plate located under the seat.

The model number for your engine will be found on the blower housing of the engine.

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

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT TRACTOR
- MODEL NUMBER 917.257643
- ENGINE MODEL NO. 28N707, TYPE NO. 0160-01
- PART NUMBER
- PART DESCRIPTION

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