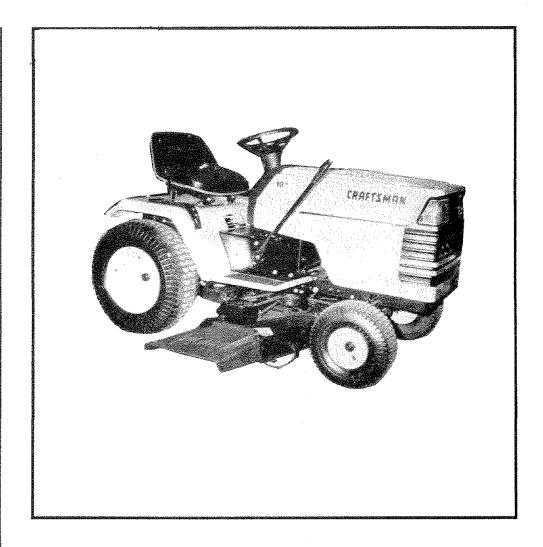
SEARS OWNER'S MANUAL

MODEL NO. 917.254450 AND 917.250020 WITHOUT MOWER DECK

Caution:
Read and follow
all Safety Rules
and Instructions
Before Operating
This Equipment



CREETSMON®

18.0 HP TWIN IC
ELECTRIC START
44"MOWER DECK
6 SPEED TRANSAXLE
GARDEN TRACTOR

- Assembly
- Operation
- Maintenance
- Service and Adjustment
- Repair Parts



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAU-TIONS. IT MEANS - ATTENTION! BE-COME ALERT! YOUR SAFETY IS IN-VOLVED. CAUTION: LOOK FOR THIS WORD TO POINT OUT IMPORTANT EQUIPMENT PRECAUTIONS.

NOTE: LOOK FOR THIS WORD TO POINT OUT IM-PORTANT INFORMATION ABOUT THE OPERATION AND PERFORMANCE OF YOUR TRACTOR.



RULES FOR SAFE OPERATION

WARNING: This unit 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 area laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. (See REPAIR PARTS for part number identification).

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.

- Know the controls and how to stop quickly. READ THIS OWNER'S MANUAL and instructions furnished with attachments.
- Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- Do not carry passengers. Do not mow when children and others are around.
- Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
- Keep your eyes and mind on your tractor, mower, and the area being cut. Do not let other interests distract you.
- Do not attempt to operate your tractor or mower when not in the driver's seat.
- Always get on or off your tractor from the operator's left hand side.
- Clear the work area of objects (wire, rocks, etc.) which might be picked up and thrown.
- Disengage all attachment clutches before attempting to start the engine.
- Disengage power to attachments and stop the engine before leaving the operator's position.
- 11. Disengage power to mower, stop the engine, and disconnect spark plug wire(s) from spark plug(s) before cleaning, making an adjustment, or repair. Be careful to avoid touching hot muffler or engine components.
- 12. Disengage power to attachments when transporting or not in
- 13. Take all possible precautions when leaving the vehicle unattended. Disengage the power take-off, lower the attachments, shift into neutral, set the parking brake, stop the engine, and remove the key.
- 14. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of slopes (not greater than 15°), never across the face. Refer to page 51.
- Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- While going up or down slopes, place gear shift control lever in 1st gear position to negotiate the slope without stopping.
- Never mow in wet or slippery grass, when traction is unsure, or at a speed which could cause a skid.
- Stay alert for holes in the terrain and other hidden hazards.
 Keep away from drop-offs.
- Do not drive too close to creeks, ditches, and public highways.
- Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run tractor or mower into or over any foreign objects.
- 21. Never shift gears until tractor comes to a stop.
- Never place hands or feet under the mower, in discharge chute, or near any moving parts while tractor or mower is running. Always keep clear of discharge chute.
- 23. Use care when pulling loads or using heavy equipment.
 - Use only approved drawbar hitch points.
 - b. Limit loads to those you can safely control.

- Do not turn sharply. Use care when backing.
- Use counterweight or wheel weights when suggested in owner's manual.
- 24. Watch out for traffic when crossing or near roadways.
- When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
- 26. Handle gasoline with care it is highly flammable.
 - a. Use approved gasoline containers.
 - b. Never remove the fuel cap of the fuel tank or add gasoline to a running or hot engine or an engine that has not been allowed to cool for several minutes after running. Never fill tank indoors. Always clean up spilled gasoline.
 - Open doors if the engine is run in the garage exhaust fumes are dangerous. Do not run the engine indoors.
- Keep the vehicle and attachments in good operating condition, and keep safety devices in place and working.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 29. Never store the equipment 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.
- To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease. Do not clean product while engine is running.
- Except for adjustments, DO NOT operate engine if air cleaner or cover directly over carburetor air intake is removed. Removal of such part could create a fire hazard.
- Do not operate without a muffler, or tamper with exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary.
- 33. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
- Do not change the engine governor settings or overspeed the engine; severe damage or injury may result.
- 35. When using the vehicle with mower, proceed as follows:
 - a. Mow only in daylight or in good artificial light.
 - b. Shut the engine off when unclogging chute.
 - Check the blade mounting bolts for proper tightness at frequent intervals.
- Do not operate the mower without the entire grass catcher, on mowers so equipped, or the deflector shield in place.
- Disengage power to mower before backing up. Do not mow in reverse unless absolutely necessary and then only after careful observation of the entire area behind the mower.
- 38. Under normal usage the grass catcher bag material is subject to deterioration and wear. It should be checked frequently for bag replacement. Replacement bags should be checked to ensure compliance with the original manufacturer's recommendations or specifications.

CONGRATULATIONS on your purchase of a Sears Garden 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 Service Department. We have competent, well-trained technicians and the proper tools to service or repair this unit.

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. See the nearest Sears store or service center for details.

SERIAL NUMBER
DATE OF PURCHASE
THE SERIAL NUMBER WILL BE FOUND ON THE MODEL PLATE UNDER THE SEAT.
YOU SHOULD RECORD THESE NUMBERS AND KEEP FOR FUTURE REFERENCE.

CUSTOMER RESPONSIBILITIES

Read and retain this manual. Study and observe the safety rules. Always use care when using your tractor. Always keep your tractor and mower clean. Follow a regular schedule in maintaining, caring for, and using your tractor. A well cared for tractor will run better and last longer.

ATTACHMENTS

This unit can use many attachments now available at your Sears store. It can use attachments that engage the ground like a plow, harrow, cultivator, or tiller. See pages 48-49 for a list of available attachments.

LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For two years from date of purchase, when this riding equipment is maintained, lubricated, and tuned up according to the operating and maintenance instruction in the owner's manual, Sears will repair free of charge any defect in material or workmanship in this electric start riding equipment.

This warranty excludes blade(s), blade adapter(s), spark plug(s), air cleaner and belt(s), which are expendable and become worn during normal use.

This warranty does not cover:

- Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass); and
- repairs necessary because of operator abuse or negligence, including the failure to maintain the equipment according to instructions contained in the owner's manual; and
- riding equipment used for commercial or rental purposes.

FULL 90 DAY WARRANTY ON BATTERY

For 90 days from the 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 CONTACTING THE NEAREST SEARS SERVICE CENTER DEPART-MENT IN THE UNITED STATES. This warranty applies only while this product is in use 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/731CR-W, Sears Tower, Chicago, IL 60684



DO NOT OVERLOAD TRACTOR OR TOW WEIGHTS GREATER THAN 150 POUNDS (68 KG).

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ASSEMBLY

KNOW YOUR TRACTOR

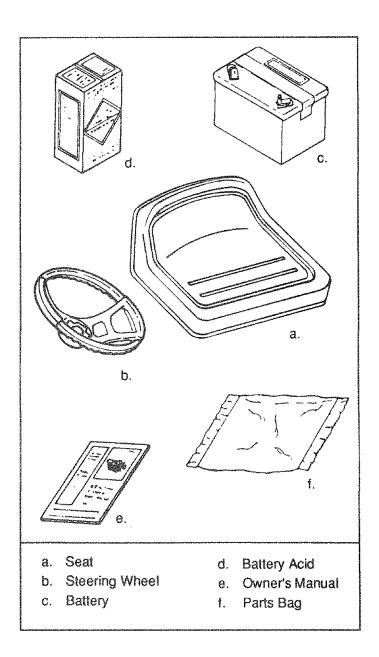
READ THIS OWNER'S MANUAL REFORE OPERATING YOUR GARDEN TRACTOR. If you understand the machine and its operation, you will achieve efficient and peak performance. While reading the manual, compare the illustrations with your Garden Tractor to familiarize yourself with the location of various controls and adjustments. Study the operating instructions and safety precautions thoroughly to insure proper functioning of your Garden Tractor and to prevent injury to yourself and others. Be sure to pay strict attention to all notes and cautions; they are included for your safety. Save this manual for future reference.

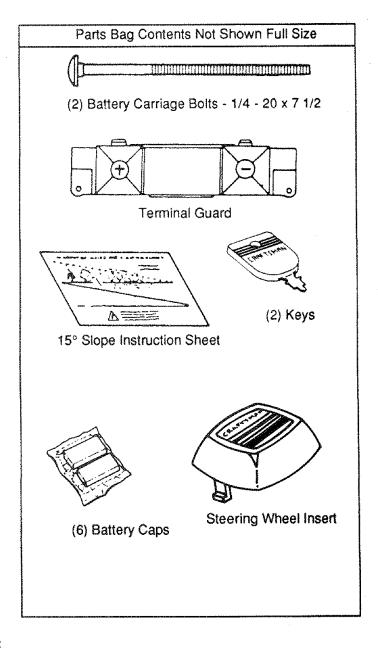
UNPACKING INSTRUCTIONS

- Remove box from carton. The box contains the items shown below.
- Cut down four corners of the carton with a utility knife and fold down sides.
- 3. Remove mower deck from skid.
- Disengage Parking Brake.
- 5. Carefully guide the tractor backwards off the skid.



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 before starting your tractor and while mowing. We recommend Wide Vision Safety Mask for over the spectacles or standard safety glasses, available at Sears Retail or Catalog Stores.





ASSEMBLY

ASSEMBLY LOCATION	PARTS BAG CONTENTS SHOWN FULL SIZE								
BATTERY	(2) Wing Nut, 1/4 - 20								
BATTERY TERMINALS	(2) Hex Bolt, 1/4 - 20 x 3/4 (2) Lockwasher, 1/4 (2) Washer, 9/32 x 5/8 x 16 Ga. (2) Hex Nut, 1/4 - 20								
SEAT	(1) Adjustment Knob 1/2 - 13 x 1 (1) Washer 17/32 x 1 3/16 (1) Shoulder Bolt 5/16 - 18 x 12 Ga.								

To assemble and adjust your tractor you will need:

(2) 7/16" Wrenches

Ratchet wrench

(1) 3/4"" Wrench

Tire Pressure Gauge

(1) 9/16" Wrench

Screwdriver

Utility Knife

(1) 1/2" Wrench (1) 3/4" Socket

NOTE: RIGHT HAND (R.H.) AND LEFT HAND (L.H.) ARE DETERMINED FROM OPERATOR'S POSITION WHILE SEATED ON THE TRACTOR.



WEAR EYE AND FACE SHIELD. WASH HANDS OR CLOTHING IMME-DIATELY IF ACCIDENTALLY IN CON-TACT WITH BATTERY ACID.

DO NOT SMOKE, FUMES FROM CHARGED BATTERY ACID ARE EX-PLOSIVE.

NOTE: THIS TRACTOR IS EQUIPPED WITH AN OP-ERATOR PRESENCE SENSING SWITCH, ANY ATTEMPT BY THE OPERATOR TO LEAVE THE SEAT WITH THE ENGINE RUNNING AND ATTACHMENT CLUTCH ENGAGED WILL SHUT OFF THE ENGINE.

1. Prepare Battery

READ INSTRUCTIONS INCLUDED WITH THE BATTERY VENT CAPS FOUND IN BAG OF PARTS, ALWAYS WEAR GLOVES, CLOTHING AND GOGGLES TO PROTECT YOUR HANDS, SKIN AND EYES.

 Fill and charge battery (before installing). NOTE:
 SEE DETAILED INSTRUCTIONS PACKAGED WITHBATTERY VENT CAPS IN BAG OF PARTS.

NOTE: OVERCHARGING WILL SHORTEN BATTERY LIFE.

- b. Fill battery with battery acid to bottoms of tubes in cells (Fig 1). DO NOT OVERFILL. OVERFILLING WILL'RÉSULT IN DAMAGE TO TRACTOR.
- Check level of battery acid after 30 minutes. Add additional battery acid if necessary. NOTE: PRESS VENT CAPS INTO BATTERY UNTIL FASTENED SECURELY.

NOTE: OBSERVE SAFETY PRECAUTIONS, LISTED IN BOX ABOVE, REQUIRED FOR BATTERY CHARG-ING.

- d. Charge battery at a rate of six amperes for one hour.
- e. Neutralize excess battery acid (from filling battery) for disposal by adding it to 9 litres (2 gallons) of water in a 23 litre (5 gallon) plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.

2. Install Seat

Seat position should be adjusted forward or backward so that the operator can comfortably reach Clutch/Brake Pedal and safely operate the tractor (Fig. 2).

- a. Remove cardboard from seat pan.
- b. Place seat on seat pan. Screw adjustment knob and flat washer into seat (Fig. 3). Screw shoulder bolt into seat (Fig. 3). Adjustment knob, shoulder bolt and washers found in bag of parts (shown full size on page 6).

ASSEMBLY

CUT AWAY VIEW VENT CAP BATTERY TUBE BATTERY CELL

FIGURE 1

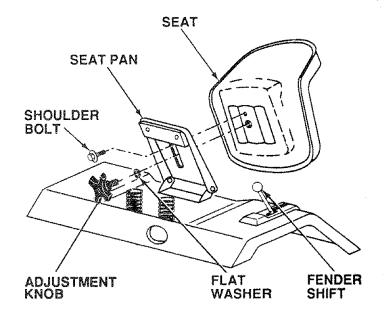


FIGURE 2



THE ADJUSTMENT KNOB MUST BE TIGHTENED SECURELY TO PREVENT MOVEMENT OF SEAT.

- Tighten shoulder bolt using a 1/2" wrench. NOTE: THE SHOULDER BOLT WILL BE LOOSE IN THE SEAT PAN SLOT.
- Tighten adjustment knob finger tight.
- e. Place seat in operating position. Sit on the seat and press clutch/brake pedal all the way down. If operating position is not comfortable, adjust seat.
- To adjust: raise seat. Loosen adjustment knob. Slide seat to desired position. Tighten adjustment knob securely.

ASSEMBLY

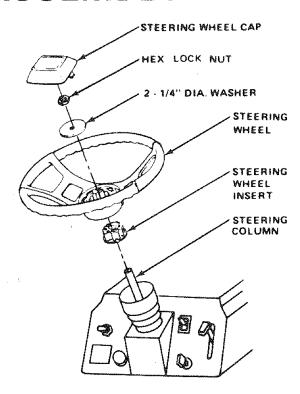
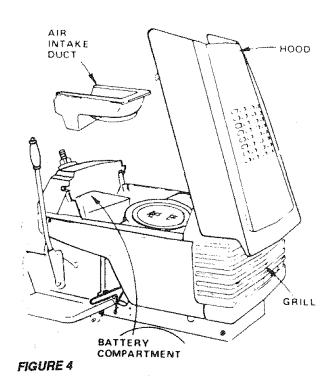


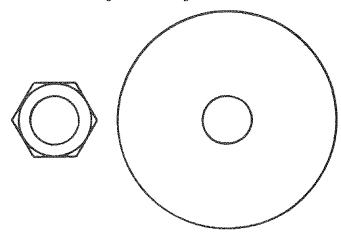
FIGURE 3



3. Install Steering Wheel

NOTE: POSITION FRONT WHEEL FORWARD.

a. Use a 3/4" wrench to remove lock nut, and 2 - 1/4" diameter washer (shown full size below) from steering column (Fig. 3).



- Position steering wheel over steering wheel insert (Fig. 3). BARS OF STEERING WHEEL SHOULD POINT STRAIGHT ACROSS TRACTOR.
- c. Secure steering wheel to steering column using 2-1/4" diameter washer and lock nut (Fig. 3). Torque to 68 N-m (50 Ft. Lbs.)
- d. Snap steering wheel cap in place on steering wheel. Steering wheel cap found in bag of parts.

4. Check Tires

Reduce tire pressure to 1 Kg/cm² (14 PSI) in front tires and 0.71 Kg/cm² (10 PSI) in rear tires. (Tires were overinflated for shipping purposes.)

5. Install Battery



DO NOT SHORT BATTERY TERMINALS

BEFORE INSTALLING BATTERY, REMOVE METAL BRACLETS, WRISTWATCH BANDS, RINGS, ETC.



IF BATTERY IS REMOVED, DO NOT OPERATE ENGINE. SPARKING MAY OCCUR.

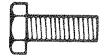
- a. Lift hood from rear sides (Fig. 4).
- b. Lift out air intake duct.
- c. Make sure drain tube (Fig. 5) is fastened to drain hole in battery tray and battery tray is positioned in hole of battery support.
- d. Place battery in plastic tray (battery terminals to front of tractor) (Fig. 5).



POSITIVE TERMINAL MUST BE CONNECTED FIRST TO PREVENT SPARKS FROM ACCIDENTAL GROUNDING.

e. Connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lockwasher and hex nut (shown full size below) found in bag of parts (Fig. 5). Tighten securely,

found in bag of parts (Fig. 5). Tighten securely, f. Connect BLACK ground cable to negative (-) battery terminal with remaining hex bolt, flat washer, lockwasher and hex nut (shown full size below) found in bag of parts (Fig. 5). Tighten securely.



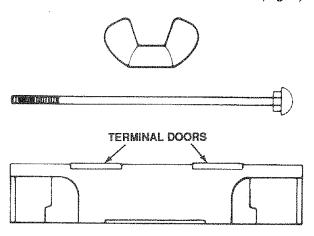






NOTE: IF YOU HAVE A WEAK BATTERY, SEE "START-ING YOUR TRACTOR WITH A WEAK BATTERY" (PAGE 20).

- g. Using the square hole on one side of the battery support (Fig. 6) insert one battery bolt, head of bolt down. Fasten the battery bolt to the terminal guard using wing nut as shown (Fig. 6). Bolts, nuts, and terminal guard, shown below, are found in bag of parts.
- h. Assemble the remaining battery bolt to other side of battery support and fasten terminal guard to it with remaining wing nut. Tighten both wing nuts securely (by hand)) at the same time (Fig. 6).



- i. Replace air intake duct (Fig. 4). Make sure bottom lip of duct sits between battery and lip of battery tray.
- j. Remove plastic from tractor hood and close.

NOTE: USE TERMINAL ACCESS DOORS (FIG. 6) FOR:

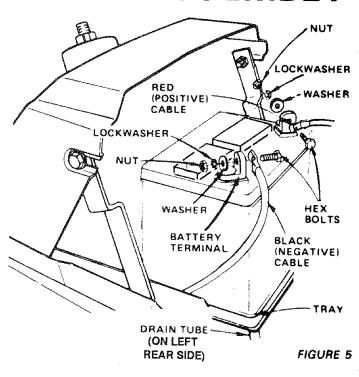
- INSPECTION FOR SECURE CONNECTIONS (TIGHTEN HARDWARE)
- 2. INSPECTION FOR CORROSION
- 3. TESTING BATTERY
- 4. JUMPING (IF REQUIRED)
- 5. CHARGING (IF REQUIRED)

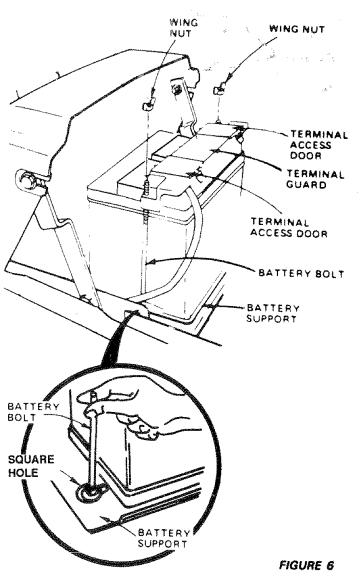
KEEP TERMINAL ACCESS DOORS CLOSED WHEN NOT IN USE.



DO NOT START ENGINE UNTIL MOWER SUSPENSION BRACKET HAS BEEN RE-LEASED. SEE MOWER AND DRIVE BELT INSTALLATION, PAGE 10.

ASSEMBLY





ASSEMBLY

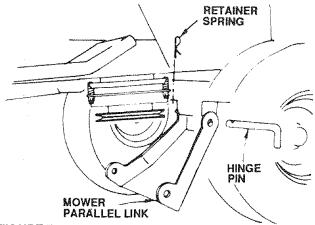


FIGURE 7

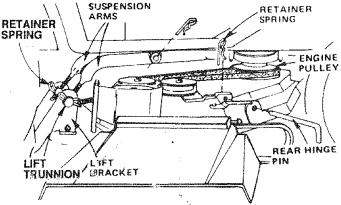


FIGURE 8

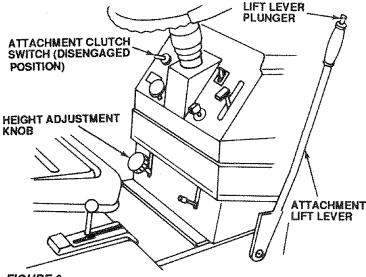
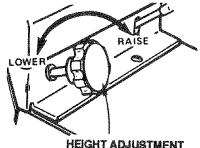


FIGURE 9

FIGURE 10



HEIGHT ADJUSTMENT

6. Mower and Drive Belt Installation

INSTALL MOWER PARALLEL LINK

Your tractor has been shipped with the mower parallel link included in the parts carton. Install mower parallel link on tractor (Fig. 7) using hinge pin and retainer spring.

NOTE: SMALLER END OF PARALLEL LINK MOUNTS TO TRACTOR. USE THE SHORTEST HINGE PIN FOR MOUNTING.

INSTALL MOWER

Your mower installs without the use of tools.

- Raise attachement lift lever (Fig. 9) to its highest posi-
- b. Turn height adjustment knob counterclockwise () to lowest position (Fig. 10)
- Slide mower under tractor with discharge guard to R.H.
- Install rear hinge pin through mower lift brackets and parallel link (Fig. 8). Secure with retainer spring.
- Move attachment lift lever (Fig. 9) forward to lower suspension arms. Remove retainer springs from lift trunnions (Fig. 8).
- Slide trunnions through upper lift bracket holes and secure with retainer springs (Fig. 8).
- Pull L.H. idler pulley (Fig. 12) toward the right hand side of the tractor and roll belt over engine pulley (Fig. 8).

NOTE: MOWER DRIVE BELT INSTALLATION DECAL LOCATED ON MOWER HOUSING.

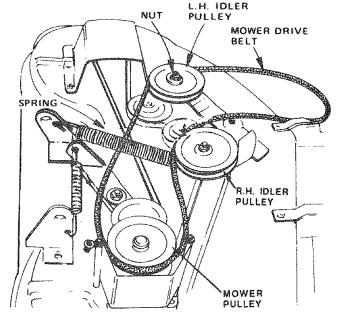
- Use attachment lift lever (Fig 9) to raise mower.
- Turn height adjustment knob clockwise () to the middle of its travel (Fig. 10).

7. Check Cutting Level

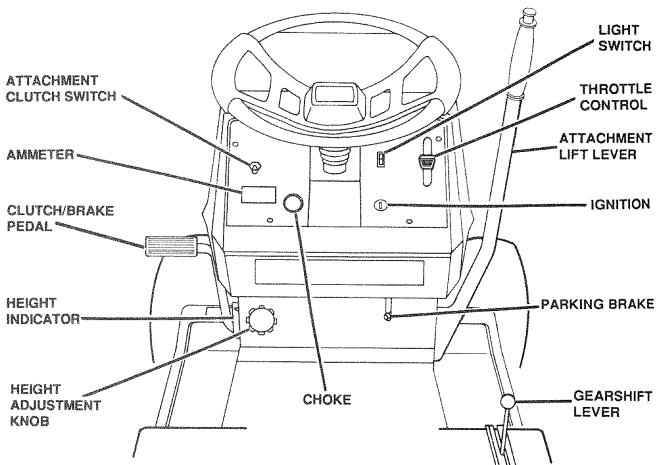
The blade housing was set at the factory to cut level. After mowing a short distance, look at the area that was cut. If the blade housing cuts uneven, see "MOWER ADJUSTMENT," page 21

8. Final Assembly

- Make sure all fasteners are tight.
- Read and follow the operation instructions (page 11). Know the location and purpose of all controls.
- Check oil and gasoline (page 12) before starting the



READ THIS OWNER'S MANUAL BEFORE OPERATING YOUR GARDEN TRACTOR. If you understand the unit and its operation, you will achieve efficient and peak performance. While reading the manual, compare the illustrations with your Garden Tractor to familiarize yourself with the location of the various controls and adjustments. Study the operating instructions and safety precautions thoroughly to insure proper functioning of your Garden Tractor and to prevent injury to yourself and others. Be sure to pay strict attention to all warnings and cautions; they are included for your safety. Save this manual for future reference.



AMMETER: Each time you start your tractor, check your ammeter. The needle should move toward the (+) charging mark indicating the battery is being charged as you operate your tractor. The headlights will not show a discharge on the ammeter because they are not connected to the battery. (They have theri own electrical source.)

ATTACHMENT CLUTCH SWITCH: Pull switch out and up to engage attachment. There will be an engine hesitation as the clutch engages.

ATTACHMENT LIFT LEVER: Use the attachment lift lever to raise and lower the attachment mounted to your tractor. Move the lift lever forward to lower attachment.

CLUTCH/BRAKE PEDAL: The pedal has 2 funcions; a clutch and a brake. To engage the brake push he pedal completely down.

HEIGHT ADJUSTMENT KNOB: Use the height adustment knob to adjust the mower height. With the attachement lift lever in the "up" position, turn knob clockwise (♠) to raise cutting height and counterclockwise (♠) to lower mower cutting height. Lower attachment lift lever.

HEIGHT INDICATOR: Indicates height setting of mower deck. Controlled by height adjustment Knob.

GEARSHIFT: Press the clutch/brake pedal down firmly and move gearshift lever to desired speed.

IGNITION: Place key in ignition and turn to the right to start.

LIGHT SWITCH: Turns the headlights on and off.

PARKING BRAKE: To set the parking brake, push the clutch/brake pedal completely down. Hold the parking brake lever in "Engaged" position and release pressure from pedal. Clutch/brake pedal will remain in brake position. To release, push pedal in.

THROTTLE CONTROL: Use the throttle control to increase or decrease the speed of the engine.

CHOKE: To start a cold engine, pull choke out to engage.

OPERATION

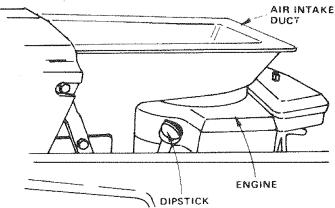
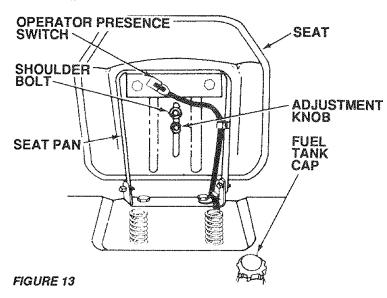


FIGURE 12



1. Stopping Your Tractor



KNOW HOW TO STOP YOUR TRACTOR BEFORE YOU ATTEMPT TO START THE ENGINE.

NOTE: REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE:

- Push clutch/brake pedal into full "BRAKE" position (Fig.
- b. Move gear shift lever to "NEUTRAL" position (Fig. 15).
- Place parking brake in "ENGAGED" position and release pressure from clutch/brake. Pedal should remain in "BRAKE" position (Fig. 14).

NOTE: MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

- Place attachment clutch switch in "DISENGAGED" position (Fig. 15).
- Move throttle control to "S" (slow) position (Fig. 15).
- Turn ignition key to "OFF" position (Fig. 15).

NOTE: NEVER USE CHOKE TO STOP ENGINE.

2. Starting the Engine



LEARN TO START, STOP AND RE-VERSE YOUR TACTOR IN A LARGE. OPEN AREA.



THIS TRACTOR IS EQUIPPED WITH IN-TERLOCK SWITCHES TO PREVENT STARTING OF THE TRACTOR ENGINE WHILE THE ATTACHMENT CLUTCH SWITCH IS IN THE "ENGAGED" POSITION AND/OR THE FOOT PEDAL IS NOT FULLY DEPRESSED. IMMEDIATELY REPLACE SWITCHES THAT ARE NOT IN PROPER WORKING ORDER. DO NOT ATTEMPT TO DEFEAT THE PURPOSE OF THESE SWITCHES.

- This engine has been shipped filled with summer weight oil (For cold weather operation see chart page 15). Check engine oil level. See page 15.
- Fill fuel tank (Fig. 13). Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide depsots and reduce valve life.) Capacity is 13 litres (3-1/2 gallons).

NOTE: FRESH, CLEAN WINTER GRADE FUEL MUST BE USED TO INSURE GOOD COLD WEATHER START-

CAUTION: EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR US-ING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STOR-AGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF ANY ENGINE WHILE IN STORAGE.

> TO AVOID ENGINE PROBLEMS, THE FUEL SYSTEM SHOULD BE EMPTIED BEFORE STOR-AGE FOR 30 DAYS OR LONGER, DRAIN THE GAS TANK, START THE ENGINE AND LET IT RUN UNTIL THE FUEL LINES AND CARBURE-TOR 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.



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.

- c. Place attachment clutch switch in "disengaged" position (Fig. 15).
- d. Push clutch/brake pedal fully into brake position.
- e . Place gear shift lever in "NEUTRAL" positon (Fig.
- f. Pull choke out (Fig. 15).
- g. Move throttle control to middle position (Fig. 15).
- h. Turn ignition key clockwise () to "START" position and release key as soon as engine starts. NOTE: DO NOT RUN STARTER CONTINUOUSLY FOR MORE THAN FIFTEEN SECONDS PER MINUTE. If engine does not start after several attempts, move throttle control to "F" (fast) position, wait a few minutes and try again.

NOTE: IF YOU HAVE A WEAK BATTERY, SEE "START-ING YOUR TRACTOR WITH A WEAK BATTERY" (Page 20).

1. After engine is warm, push choke in. The first time you start the engine, it will take extra cranking time to move fuel from tank to the engine.

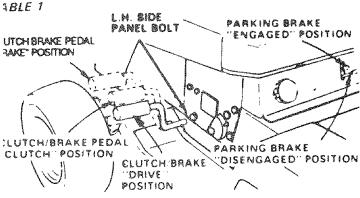
NOTE: ALLOW ENGINE TO WARM UP FOR A FEW MINUTES BEFORE ENGAGING CLUTCH OF TRACTOR OR ATTACHMENT.

When restarting a warm engine, move throttle control midway between "S" (slow) and "F" (fast) positions. Choke may not have to be used.

IMPORTANT: BEFORE DRIVING THE TRACTOR, INSTALL MOWER OR REMOVE MOWER PARALLEL LINK.

SPEED SELECTION GUIDE

FUNCTION	GEARSHIFT	THROTTLE
Normal Mowing	2 or 3	
Heavy Mowing	1 or 2	
Snow Removal	1	FAST
Tilling Plowing	1	MID THROTTLE
Dozing	1	.M.
Grading	2	Name of the Control o
Transport	3-6	SLOW-FAST



GURE 14



READ THE "RULES FOR SAFE OPERATION" CAREFULLY BEFORE OPERATING YOUR MOWER.

HE MOWER MUST BE ADJUSTED PROPERLY FROM RONT TO REAR AND LEVELED FROM SIDE TO SIDE EFORE OPERATING. THIS IS NECESSARY FOR LEVEL ND EFFICIENT MOWING. REFER TO PAGE 21.

AUTION: DO NOT ADD ADDITIONAL WEIGHT TO THE TRACTOR OTHER THAN THE OPTIONAL WHEEL WEIGHTS. EXCESSIVE WEIGHT MAY OVERLOAD AND DAMAGE THE TRANSMISSION.



DO NOT OVERLOAD TRACTOR OR TOWWEIGHTS GREATER THAN 68 KG (150 POUNDS).

OPERATION

3. Operating Your Tractor and Mower

NOTE: THIS 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 SWITCH ENGAGED WILL SHUT OFF THE ENGINE.

CAUTION TO AVOID INJURY

- 1. Read owner's manual.
- 2. Know the location and function of all controls.
- 3. Keep guards, safety shields and switches in place and working.
- 4. Remove objects that can be thrown by blades.
- 5. Do not mow when children and others are around.
- 6. Never carry children or passengers.
- 7. Always look behind machine before backing.
- 8. Do not mow where machine can tip or slip.
- 9. If machine stops going uphill, stop blade and back slowly down.
- 10. Be sure blades and engine have stopped before placing hands or feet near the blades.
- 11. Remove key when leaving machine.



MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

NEVER PLACE YOUR HANDS OR FEET IN OR UNDER ANY POWERED ATTACHMENT OR NEAR ANY MOVING PART WHILE TRACTOR OR ANY POWERED ATTACHMENT IS HUNNING.

NOTE: ALWAYS OPERATE ENGINE AT FULL THROTTLE WHEN MOWING TO ASSURE BETTER MOWING PERFORMANCE AND PROPER DISCHARGE OF CUT MATERIAL. REGULATE GROUND SPEED BY SELECTING A LOW ENOUGH GEAR (TABLE 1) TO GIVE THE MOWER CUTTING PERFORMANCE PLUS QUALITY OF CUT DESIRED.

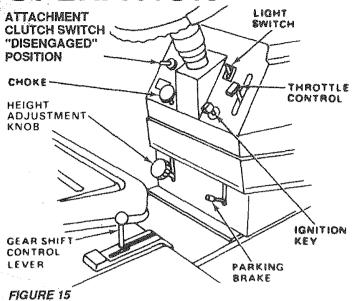


DO NOT OPERATE THE MOWER WITH-OUT EITHER THE ENTIRE GRASS CATCHER, ON MOWERS SO EQUIPPED, OR THE DEFLECTOR SHIELD IN PLACE.

- a. Select desired height of cut position using height adjustment knob (Fig. 15).
- b. Raise lift lever and place attachment clutch switch in disengaged position.
- c. Push clutch/brake pedal down firmly (Fig. 14).
- d. Start engine (page 12).
- e. With engine running and warm place throttle control midway between "S" (slow) and "F" (fast) position.
- f. Engage mower with the attachment clutch switch
- g. Move gear shift lever to desired gear.
- h. Lower mower into cutting position using attachment lift lever.
- i. Release clutch/brake pedal to start movement (Fig. 14).
- j. Move throttle control to "F" (Fast) postion.

NOTE: SELECT A GROUND SPEED THAT WILL SUIT THE TERRAIN, QUALITY OF CUT AND ATTACHMENT BEING USED (TABLE 1).

OPERATION



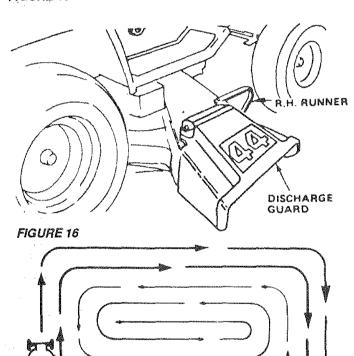


FIGURE 17

CAUTION: NEVER RUN THE ENGINE WITHOUT AIR-

INTAKE DUCT INSTALLED (FIG. 4). MAKE SURE BOTTOM LIP OF AIR INTAKE DUCT SITS BETWEEN BATTERY AND LIP OF

BATTERY TRAY.

4. Mowing Tips

NOTE: TIRE CHAINS CANNOT BE USED WITH THE MOWER HOUSING ATTACHED



READ THE "SAFETY RULES" CAREFULLY BEFORE OPERATING YOUR MOWER. REFER TO PAGE 2.

a. Use the runner on the R.H. side as a guide; the blade cuts approximately 2.54 cm (1 inch) outside the runner (Fig. 16).

- b. 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.
- c. When mowing large areas (Fig. 17), start by turning to the right so that the 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
- d. If grass is extremely tall, it should be mowed twice. The first time cut relatively high; the second time to the desired height.
- e. The left hand side of mower should be used for trimming.
- f. Do not mow tall, dry grass over 15.25 cm (6 inches) tall. It is a fire hazard.
- 5. Operating The Tractor On Hills



DO NOT DRIVE UP OR DOWN HILLS WITH SLOPES GREATER THAN 15° AND DO NOT DRIVE ACROSS ANY SLOPE. REFER TO PAGE 51.

- a. Move gear shift lever to "1ST" gear before starting up or down hills.
- b. AVOID STOPPING OR SHIFTING ON HILLS.
- c. If slowing is necessary, move throttle control lever to slower position.



LEAVE ENOUGH ROOM WHEN STOP-PING AND STARTING TO ALLOW SLIGHT TRACTOR ROLL DOWNHILL AS CLUTCH/ BRAKE PEDAL MOVES THROUGH CLUTCH POSITION.

- d. If stopping is absolutely necessary push clutch/brake pedal quickly to brake position and engage parking brake.
- e. To restart tractor movement, make sure tractor is in the lowest speed range ("1ST" Gear) and that you have allowed room to roll slightly downhill. Depress clutch/brake full. Disengaged parking brake and release clutch/brake pedal SLOWLY to start tractor movement.
- f. Make all turns gradually.

6 . Flip-Up Discharge Guard

Your mower has a flip-up discharge guard (Fig. 16) for door or gate clearance when held in raised position.



MAKE SURE ATTACHMENT CLUTCH SWITCH IS IN "DISENGAGED" POSITION AND BLADES HAVE STOPPED BEFORE RAISING DISCHARGE GUARD (DEFLECTOR). NEVER OPERATE MOWER WITHOUT DISCHARGE GUARD IN OPERATING POSITION.

To keep your tractor running better, longer, perform necessary service using the following maintenance schedule:

BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR:

- PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO BRAKE POSITION.
- MOVE GEAR SHIFT LEVER TO "NEU-TRAL" POSITION.
- 3. PLACE PARKING BRAKE IN "ENGAGED POSITION. REMOVE FOOT FROM PEDAL.
- 4. PLACE ATTACHMENT CLUTCH SWITCH IN DISENGAGED POSITION.
- 5. TURN IGNITION KEY TO "OFF" POSI-TION.
- MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COM-PLETELY STOPPED.
- 7. REMOVE THE IGNITION KEY.
- 8. DISCONNECT THE SPARK PLUG WIRES FROM THE SPARK PLUGS AND KEEP AWAY FROM THE SPARK PLUGS TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TOO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

With Every Mowing

- 1. Make sure all nuts on bolts are tight and cotter pins and retainer springs are secure.
- 2. Observe all safety precautions.
- 3. Keep tractor well lubricated (refer to page 19).

First 2 Hours (Two Mowings)

1. Change Engine Oil

Changing oil after the first two hours (or two mowings) will help eliminate break-in residue which might be damaging to your engine.

NOTE: BE CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHANGING OIL.

- a. Drain oil with engine warm.
- b. Loosen oil drain plug (Fig. 18) and remove dipstick.
- c. Catch oil in a suitable container.
- d. Tighten oil drain plug.
- e. Refill engine oil (see below). Refill capacity is 1.4 litres (1-1/2 quarts).

VOTE: DO NOT OVERFILL.

f. Replace dipstick (fig. 19).

MAINTENANCE

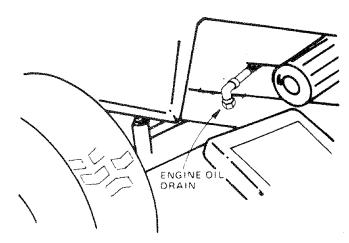
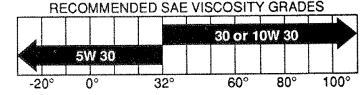


FIGURE 18

Recommended SAE Viscosity Grades

Determine temperature range expected before next oil change. All oil must meet A.P.I. service classification SD, SE or SF.



Dipstick assembly must be securely tightened into tube at all times when engine is operating.

CAUTION: TO AVOID DAMAGE TO THE STARTING SYSTEM, USE SAE 5W30 OIL WHEN THE TEMPERATURE FALLS BELOW 0°C (32°F).

Every 5 Hours (Five Mowings)

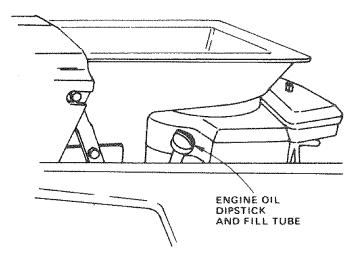
1. Check Engine Oil Level



DO NOT CHECK ENGINE OIL LEVEL WITH ENGINE RUNNING.

Several minutes after stopping engine, check engine oil level with tractor on level ground. Wipe dipstick (Fig. 19) clean, screw it down tight for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark is reached. (See chart above). NOTE: DO NOT OVERFILL.

MAINTENANCE



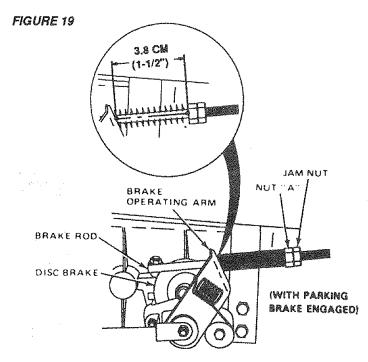


FIGURE 20

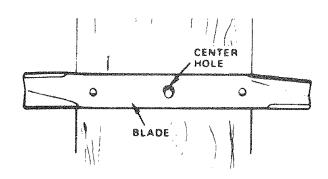


FIGURE 21

Every 25 Hours (Twice a Mowing Season)

1. Brake Adjustment

This Tractor is equipped with an adjustable brake system mounted on the right side of the transaxle (Fig. 20).



IF TRACTOR REQUIRES MORE THAN 1.8 METRES (SIX FEET) STOPPING DISTANCE 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.
- c. If distance is other than 3.8 cm (1-1/2"), loosen jam nut (Fig. 20) and turn nut until distance becomes 3.8 cm (1-1/2"). Retighten jam nut against nut "A".

Road test tractor for proper stopping distance as stated above. Readjust if necessary.

2. Tire Care

- Maintain tire pressure in front at 14 PSI (1 Kg/cm²) and rear tires at 10 PSI (0.7 Kg/cm²).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- c. Avoid stumps, stones, deep ruts and other hazards that may cause tire damage.

3. Blade Sharpening

For best results mower blades must be kept sharp. The blades can be sharpened with a few strokes of a file or on a grinding wheel. We suggest they be sharpened after every 25 hours of mowing. Do not attempt to sharpen while on mower. If you mow in sandy soil check the blades after each two mowings. The sand wears the blades away rapidly.

- a. When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before reinstallation on mower. Unbalanced or bent blade will cause excessive vibration when running, and eventual damage to mower or engine. Replace bent or damaged blades.
- b. To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of clean blade over the head of the nail (Fig. 21). NOTE: CENTER HOLE OF BLADE ON NAIL. IF BLADE IS PROPERLY BALANCED, BLADE SHOULD REMAIN IN POSITION SHOWN IN FIG. 21. IF EITHER END OF THE BLADE MOVES DOWNWARD, BLADE IS NOT BALANCED. SHARPEN THE HEAVY END UNTIL BLADE IS BALANCED.

Every 50 Hours (Once a Mowing Season)

(Operating in dusty conditions may require more frequent servicing.)

1. Check Battery

- a. Battery acid level in each battery cell should be even with bottoms of tubes in cells (Fig. 22). Add ONLY distilled water if necessary. NOTE: DO NOT OVERFILL.
- b. Keep battery and terminals clean.
- c. Keep battery bolts tight.
- d. Keep vent caps tight and small vent holes in caps open.
- e. Recharge at 6 amperes for 1 hour if necessary.

NOTE: OVERCHARGING WILL SHORTEN BATTERY LIFE.

2. Clean Battery and Terminals

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



LEAD-ACID BATTERIES GENERATE EX-PLOSIVE GASES. KEEP SPARKS, FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS SHIELD YOUR EYES AROUND BATTERIES.

- a. Remove terminal guard.
- b. Disconnect BLACK battery cable then RED battery cable and remove battery from tractor.
- c. Wash battery with 6 grams (1/4 cup) of baking soda to 3.8 litres (1 gallon) water.

NOTE: BE CAREFUL NOT TO GET THE SODA SOLU-TION INTO THE CELLS.

- d. Rinse the battery with plain water, dry and reinstall on tractor,
- e. Clean terminals and battery cable ends with wire brush until bright.
- f. Replace battery cables, connecting RED battery cable to positive terminal first, then BLACK battery cable to negative terminal. Coat terminal connections with petroleum jelly.
- g. Replace terminal guard.

3. Change Engine Oil

The best time to change engine oil is at the end of a day's operation when all dirt and foreign materials are suspended in the hot oil. See chart, page 15.

(OPERATING IN DUSTY CONDITIONS MAY REQUIRE MORE FREQUENT SERVICING)

4. Clean Air Cleaner Foam Pre-Cleaner (Fig. 23)

- a. Remove Knob and cover.
- Remove foam pre-cleaner element by sliding it off of the paper cartridge.
- Wash foam pre-cleaner in liquid detergent and water.
- d. Wrap foam pre-cleaner in cloth and squeeze
- e. Lightly coat foam pre-cleaner with engine oil (Do not saturate). Squeeze in rag or towel to remove excess oil.
- f. Install foam pre-cleaner over paper cartridge. Reassemble cover and screw down tight.

MAINTENANCE

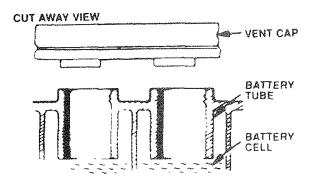


FIGURE 22

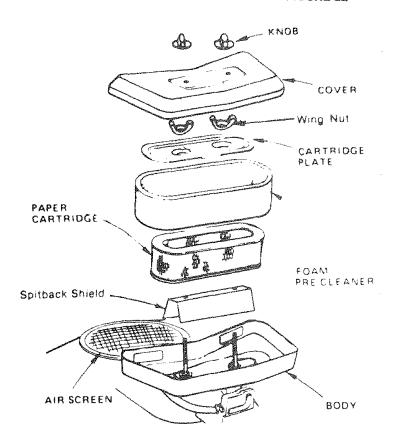


FIGURE 23

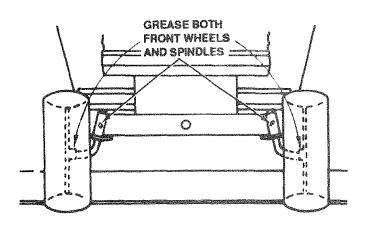


FIGURE 24

MAINTENANCE

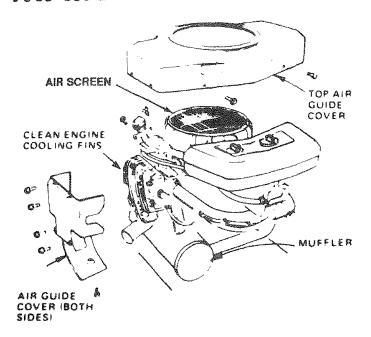


FIGURE 25

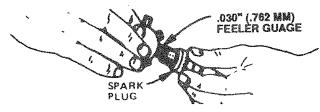


FIGURE 26

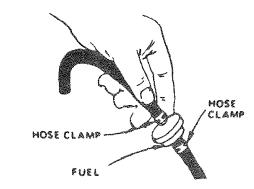


FIGURE 27

5. Lubricate Steering and Front Wheels

There is a grease fitting on each front wheel and axle spindle. Use a grease gun to give each grease fitting two shots of extreme pressure lubricating grease (available through your Sears Service Centre)(Fig. 24).

6. Oil Pivot Points

Place several drops of SAE 30 oil at points where metal parts move against each other, especially:

- a. Hood hinges.
- b. Shifter shaft points.

SEE LUBRICATION CHART, PAGE 19.

7. Clean Air Screen

Air screen (Fig. 25) must allow free-flow of air to prevent engine damage from overheating. Clean with a wire brush, compressed air or water pressure to remove dirt, chaff, stubborn dried gum and fibers.



ALWAYS WEAR SAFETY GLASSES WHEN USING COMPRESSED AIR.

DO NOT TOUCH HOT MUFFLER, CYLIN-DER OR FINS AS CONTACT MAY CAUSE BURNS.

8. Check Muffler

Inspect and replace corroded muffler as it could create a fire hazard and/or damage.

9. Clean Engine Cooling Fins

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Air guide covers must be removed (Fig. 25). Remove eight 7/16" bolts and six 5/16" bolts to remove side and top covers. See "HOOD REMOVAL," page 21.



DO NOT TOUCH HOT MUFFLER, CYLINDER OR FINS AS CONTACT MAY CAUSE BURNS.

Every 100 Hours



DISCONNECT SPARK PLUG WIRES TO PREVENT ACCIDENTAL STARTING BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR (EXCEPT CARBURETOR). BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

1. Replace Spark Plugs

Replace spark plugs at the beginning of each mowing season or every 100 hours, whichever comes first. Gap should be set at 0.762 mm (0.030"). (Fig. 26).

2. Replace Air Cleaner Paper Cartridge Refer to page 17.

3. Replace In-Line Fuel Filter

If fuel filter is clogged, obstructing fuel flow to carburetor, replacement is required.

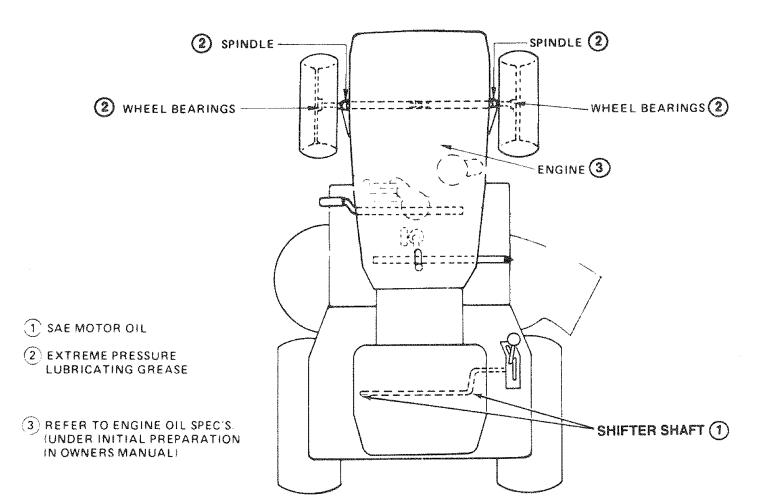
- With engine cool, remove filter and plug fuel line sections as removed from both ends of fuel filter (Fig. 27).
- b Place new fuel filter in position in fuel line.



BE SURE THERE ARE NO FUEL LINE LEAKS AND THAT FUEL LINE IS IN PROPER POSITION IN HOSE CLAMPS.

MAINTENANCE

Lubrication



REPAIR & ADJUSTMENT

FOR ANY ADJUSTMENTS, INSPECTION OR MAINTENANCE:

- PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO BRAKE POSITION
- MOVE GEAR SHIFT LEVER TO "NEUTRAL" POSITION.
- PLACE PARKING BRAKE IN "ENGAGED PO-SITION, REMOVE FOOT FROM PEDAL.
- 4. PLACE ATTACHMENT CLUTCH SWITCH IN 'DISENGAGED' POSITION.
- 5. TURN IGNITION KEY TO "OFF" POSITION
- MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COM-PLETELY STOPPED.
- 7. REMOVE THE IGNITION KEY.
- 8. DISCONNECT THE SPARK PLUG WIRES FROM THE SPARK PLUGS AND KEEP AWAY FROM THE SPARK PLUGS TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TOO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

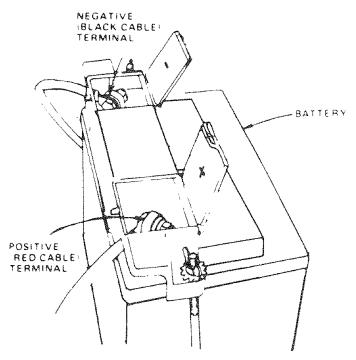
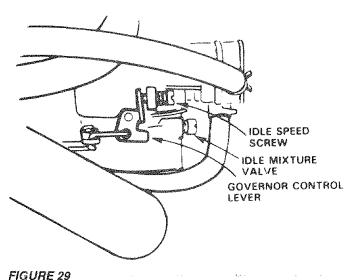
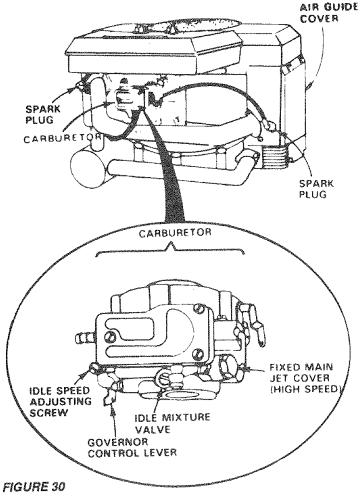


FIGURE 28



LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS. FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS WEAR EYE PROTECTION WHEN AROUND BATTERIES.





1. Starting your Tractor With a Weak Battery

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:

NOTE: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM.

- Connect each end of the RED jumper cable to the POSITIVE(+) terminals of each battery (taking care not to short against chassis). (Fig. 28)
- b. Connect one end of the BLACK jumper cable to the NEGATIVE (--) terminal of fully charged battery.
- c. Connect the other end of the **BLACK** jumper cable to the L.H. side panel bolt (Fig. 14) NOTE: KEEP AWAY FROM GAS TANK AND BATTERY.
- d. Disconnect cables in reverse order:
 - 1. L.H. side panel bolt (Fig. 14)
 - 2. Negative terminal of fully charged battery
 - Positive terminals



DO NOT USE YOUR TRACTOR BAT-TERY TO START OTHER VEHICLES.

2. Throttle Control Cable Adjustment

Never attempt to change maximum engine speed. This is preset at the factory (3600 ± 100 RPM) and should only be changed by a qualified service technician who has the necessary equipment.

- a. Remove hood (page 21).
- b. Loosen casing clamp screw until throttle cable is free to move.
- c. Move throttle control (on the dashboard) to "FAST" position.
- d. Pull throttle cable tight (until swivel below carburetor is against side of quarter circle). Retighten casing clamp screw



REFER TO "STARTING THE ENGINE," **PAGE 12.**

3. Carburetor Adjustment

ADJUST THROTTLE CONTROL CABLE BEFORE MAKING ANY ADJUSTMENT TO CAR-BURETOR, AIR CLEANER MUST BE ASSEMBLED TO CARBURETOR WHEN RUNNING ENGINE.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature or altitude. Adjust the carburetor fuel mixture as follows:

- turn idle mixture valve clockwise a. Gently ((Fig. 30) until it just closes and then counterclockwise (/ 1-1/2 turns. CAUTION: Valve may be damaged if turned in too far.
- b. Start engine and allow to warm for five minutes. Make final adjustments with engine running and choke pushed in.

c. Move throutle control lever (on dashboard) to "SLOW" position.

- d. Hold governor control lever against idle speed screw, and adjust idle speed screw to obtain 1200 to 1400 RPM (Fig. 29).
- e. While still holding the governor control lever against idle speed screw, turn idle mixture valve slowly clockwise () (lean mixture) until speed just starts to slow.
- f. Turn idle mixture valve back to the midpoint between rich and lean.
- g. Adjust the idle speed screw to obtain 900 to 1200 RPM. Release governor control lever.
- h. Move throttle control (on the dashboard) to "FAST." If engine hesitates or dies, turn idle mixture valve approximately 1/8 turn counterclockwise () until engine will accelerate as throttle control is moved from "SLOW" to "FAST."

4. Fuse Replacement

Replace with 30 amp automotive-type plug in fuse. Fuses can be purchased at all Sears Service Centres and most retail stores. Fuse is located directly behind dash.

5. Hood Removal

- a. Lift hood. Disconnect headlight wiring connection (Fig. 32),
- b. Unscrew one screw at rear of each side panel (Fig. 31).
- Pivot hood and side panel forward and lift off tractor (Fig. 32).
- d. To replace, reverse above procedure.

6. Mower Adjustment

Adjust the mower while tractor is parked on level ground or driveway. Make sure tire pressures are 1 Kg/cm² (14 PSI) in front and 0.71 Kg/cm² (10 PSI) in rear. If tires are over or under inflated, you will not properly adjust your mower.

FOR ANY ADJUSTMENTS, INSPECTION OR MAINTENANCE:

- 1. PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO "BRAKE" POSITION
- COMPLETELY INTO "BRAKE" POSITION.

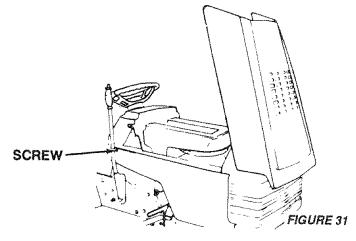
 2. MOVE GEAR SHIFT LEVER TO "N" (NEUTRAL)
 POSITION.
- PLACE PARKING BRAKE IN "ENGAGED" POSITION. REMOVE FOOT FROM PEDAL.
- PLACE ATTACHMENT CLUTCH SWITCH IN "DISENGAGED" POSITION.
- 5. TURN IGNITION KEY TO "OFF" POSITION
 - MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED.
- REMOVE THE IGNITION KEY.
- 3. DISCONNECT THE SPARK PLUG WIRE(S) FROM THE SPARK PLUG(S) AND KEEP WIRE(S) AWAY FROM THE PLUG(S) TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

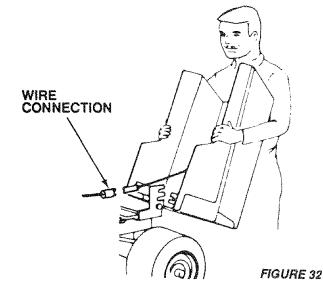
Height Adjustment

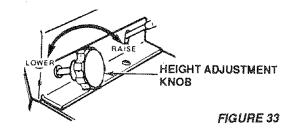
Adjustment for mower height is made with the height adjustment knob. Raise mower cutting height by turning height adjustment knob clockwise (). Lower mower cutting height by turning height adjustment knob counterclockwise (). (Fig. 33).

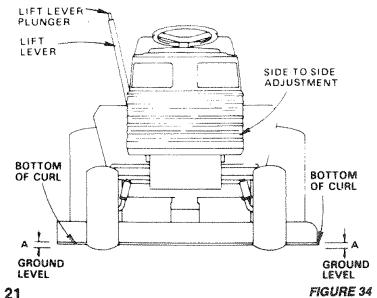
Side-to-Side mower Adjustment

- Depress lift lever plunger and use lift lever to raise mower to maximum cutting height (Fig. 34).
- Measure height from bottom of curl to ground level at front of mower. Distance "A" should be the same (Fig. 34).









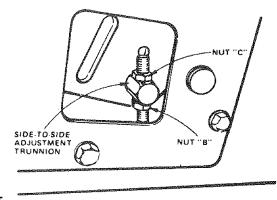
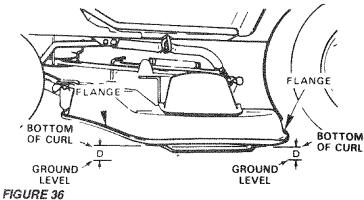
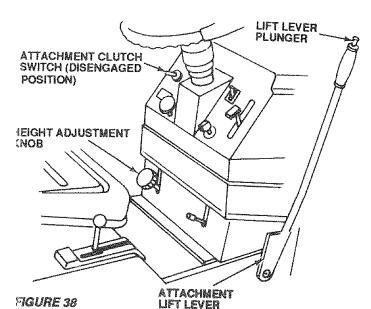


FIGURE 35



NUT "E"

NUT "F"



- c. If distance "A" needs to be changed, snap out access hole cover on L.H. side above footrest. Use 11/16" wrench on nuts "B" and "C" at side-to-side adjustment trunnion (Fig. 35).
- d. To raise left side of mower, loosen nut "B" and tighten nut "C".
- To lower left side of mower, loosen nut "C" and tighten nut "B".

NOTE: ONE ROTATION OF ADJUSTMENT NUTS IS EQUIVALENT TO APPROXIMATELY 5 MM (3/16") HEIGHT CHANGE.

f. Be sure all nuts are securely tightened.

Front-To-Rear Mower Adjustment

a. To obtain the best cutting results, your mower housing should be adjusted so the front and rear flange distance "D" (Fig. 36) is 13 mm (1/2") lower in front when the mower is positioned in the highest cutting position.

NOTE: MEASURE DISTANCE "D" FROM GROUND LEVEL TO BOTTOM OF CURL ON RIGHT REAR FLANGE AND COMPARE TO DISTANCE "D" AT RIGHT FRONT FLANGE.

- b. To raise rear of mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" up an EQUAL NUMBER OF TURNS (Fig. 41).
- c. When distance "D" is 13 mm (1/2") lower at front than rear, tighten nuts "E".
- d. To lower rear of mower, loosen nut "F" on both rear suspension arms an EQUAL NUMBER OF TURNS (Fig. 37).
- e. When distance "D" is 13 mm (1/2") lower at front than rear, retighten nuts "E".

NOTE: WHEN ADJUSTING REAR SUSPENSION TRUN-NIONS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL.

Mower Drive Belt Removal

NOTE: MOWER BELT INSTALLATION DECAL LO-CATED ON MOWER HOUSING.



REPLACE ONLY WITH THE BELTS SPECIFIED IN THIS MANUAL.

- Place attachment clutch switch in "Disengaged" position (Fig. 38).
- b. Turn height adjustment knob to its lowest position. Move attachment lift lever (Fig. 38) forward to lower mower to its lowest position.
- c. Roll belt off engine pulley (Fig. 39).
- d. Pull belt off both mower pulley and idler pulleys (Fig. 40).
- To replace mower drive belt, reverse above procedure.

NOTE: MAKE SURE DRIVE BELT IS ENGAGED IN ALL PULLEYS.

7. Mower Removal

- Remove mower drive belt. (See "MOWER DRIVE BELT REMOVAL," page 22, through step 3.)
- b. Pull belt off engine pulley (Fig. 39).
- Pull retainer springs out of rear suspension trunnions.
 Remove rear suspension trunnions from lift brackets (Fig. 41)
- Pull retainer spring out of rear hinge pin. Remove rear hinge pin (Fig. 41).
- e. Pull retainer spring out of front hinge pin. Remove front hinge pin (Fig. 41) and parallel link.
- Use lift lever to raise suspension arms. Slide mower out from under tractor.

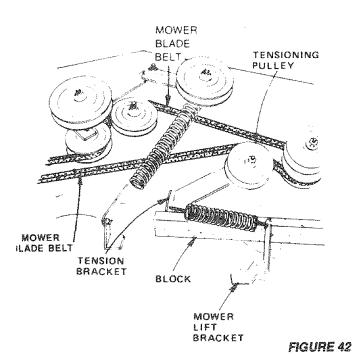


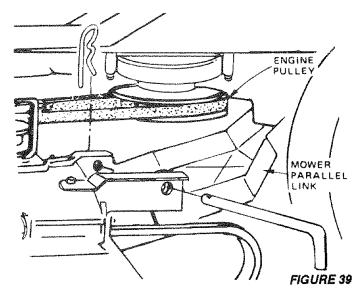
BEFORE DRIVING YOUR TRACTOR, IN-STALL MOWER OR REMOVE PARALLEL LINK (FIG. 41).

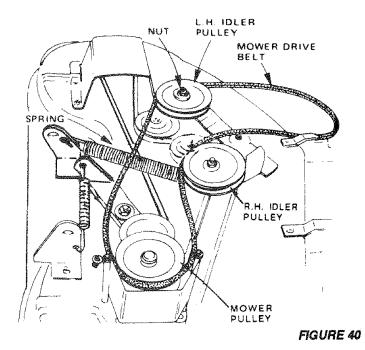
NOTE: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, THE L.H. AND R.H. SUSPENSION ARMS (Fig. 41) SHOULD BE REMOVED.

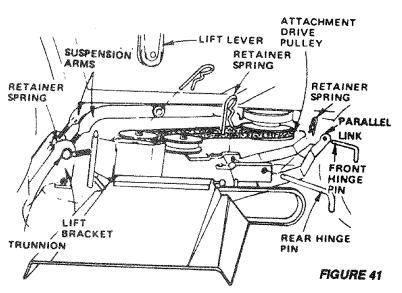
3. Mower Blade Drive Beit Replacement

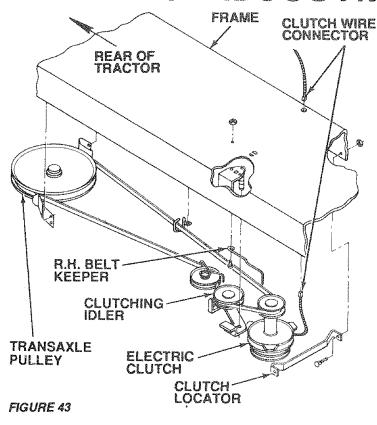
- a. Remove mower drive belt. (See page 22.)
- Bemove mower from tractor. (See "MOWER REMOVAL," above.)
- c. Pull belt towards rear of mower at tensioning pulley (Fig 42). Place a block between tension bracket and mower lift bracket. Roll belt off tensioning pulley.
- d. Roll belt off all other pulleys.
- e. Slide belt from under spring.
- To install belt, reverse above procedure. Make sure belt is engaged in all pulleys.











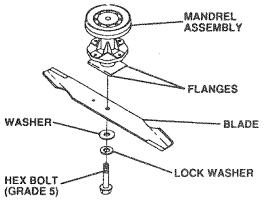


FIGURE 44

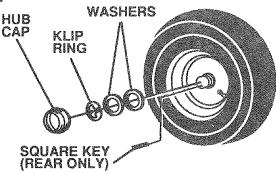


FIGURE 45



A GRADE 5 HEAT TREATED BOLT CAN BE IDENTIFIED BY THREE LINES ON THE BOLT HEAD AS SHOWN AT LEFT.

9 . Motion Drive Belt Replacement

NOTE: BELT INSTALLATION DECAL IS LOCATED UNDER LEFT FOOTREST.

- a. Remove mower (see "MOWER REMOVAL" page 23').
- b. Using a 1/2" wrench, remove the clutch locator (Fig. 43).
- Using a 9/16" wrench, loosen the right hand belt keeper (Fig. 43).
- d. Disconnect clutch wire connector. Push connector through frame (Fig. 43).
- e. Pull beit off clutching idler and raise to top side of pulley,
- Release parking brake. Push belt over and away from clutching idler.
- g. Pull belt slack toward rear of tractor. Remove belt from transmission pulley by deflecting keepers to force belt up and out of pulley. (Use belt to push keepers away from pulley.) (Fig. 43.)
- Work belt around remaining pulleys and keepers, working toward transaxle pulley.
- Pull belt forward off transaxle pulley and down over electric clutch.
- h. Reinstall in reverse of above procedure.

Make sure right hand belt keeper is positioned correctly between locator tabs and electric clutch connection is secure.

10. Blade Replacement

Raise mower to highest position to permit access to blades or remove mower.

- a. Remove bolt, lockwasher and washer (Fig. 44) (turn counterclockwise)(------).
- b. Remove and discard old blade.
- c. Clean top and bottom of mower housing.
- d. Place new blade between flanges, (Install with sharp edge down), and secure with washer, lockwasher and bolt previously removed.

11. Tire Care

- a. Maintain tire pressure in front at 14 PSI (1Kg/cm²) and rear tires at 10 PSI (0.7 Kg/cm²).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- c. Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.
- d. Removing wheel for tire repair (Fig. 45).
 - 1. Block up axle securely.
 - Remove hub cap, klip ring and washer to allow wheel removal (rear wheel contains a square key – Do Not Lose).
 - Repair tire and reassemble. Align slots in rear wheel hub and axle. Insert square key. Replace washer and snap klip ring securely in axle groove. Replace hub cap.

NOTE: USE GREASE FITTINGS TO LUBRICATE FRONT WHEELS WITH GENERAL PURPOSE GREASE. APPLY AN ANTI-SEIZE OR GOOD GENERAL PURPOSE GREASE TO LUBRICATE REAR AXLES.



ALWAYS USE GRADE 5 HEAT TREATED BOLTS TO ATTACH BLADES. DO NOTUSE PLATED BOLTS. CHECK BOLTS IN BLADES OCCASIONALLY TO MAKE SURE BOLTS ARE TIGHT. TORQUE BOLTS TO 41-47 N-m (30-35 FT.-LBS.).



WHEN MOUNTING TIRES, UNLESS BEADS ARE SEATED, OVER INFLATION CAN CAUSE AN EXPLOSION.

12. Rear Wheel Replacement

For rear wheel replacement, follow instructions under "TIRE CARE," page 24.

Coat axle with grease to prevent corrosion or rust accumulation and eventual seizing of wheel hub to axle shaft.



WHEN REPLACING WHEELS ON THE TRACTOR THEY MUST BE MOUNTED WITH THE LONG HUB SIDE TOWARD THE CENTER OF THE TRACTOR. INCORRECT INSTALLATION COULD AFFECT LATERAL STABILITY. (SEE FIG. 46).

13. Transaxie Shifter Linkage Positioning and Adjustment

The transaxle should be in neutral when the gear shift lever is in the neutral (lock gate) position (Fig. 47). The adjustment is preset at the factory; however, if adjustment is needed, proceed as follows:

- a. Make sure transaxle is in neutral.
- Using a 7/16" wrench, loosen two (2) locknuts on tie rod (Fig. 48 - inset).
- c. Turn center rod (Fig. 48 inset) until gearshift lever falls into neutral lock gate on fender console (Fig. 47).
- d. Tighten locknuts securely.

14. Storage

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., give blades and underside of housing a good coat of grease or rust preventative. Store in a clean dry area.

a. Fuel System

It is important to prevent gum deposits from forming in essential fuel system parts such as the 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. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer.

b. Engine Oil

Drain (with engine warm) oil and replace with clean ngine oil, (see chart on page 15).

c. Cylinders

- Remove spark plugs.
- Turn ignition key to "START" position for a few seconds to distribute oil.
- 4. Replace with new spark plugs.

d. Battery

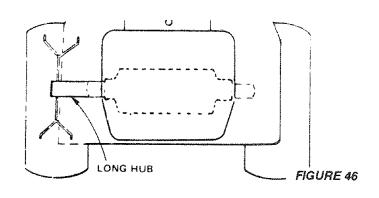
- 1. Prior to storage, clean terminals and top of battery.
- 2. Disconnect cable from positive side of battery.

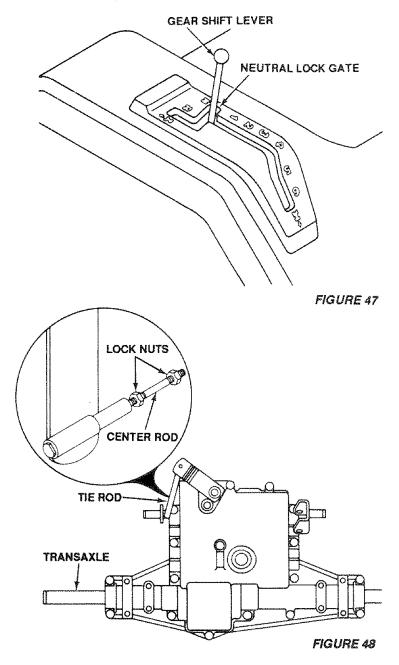
After a period of time in storage, battery may require recharging.

e. General Cleaning

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

f. Store in a clean, dry area





TROUBLESHOOTING

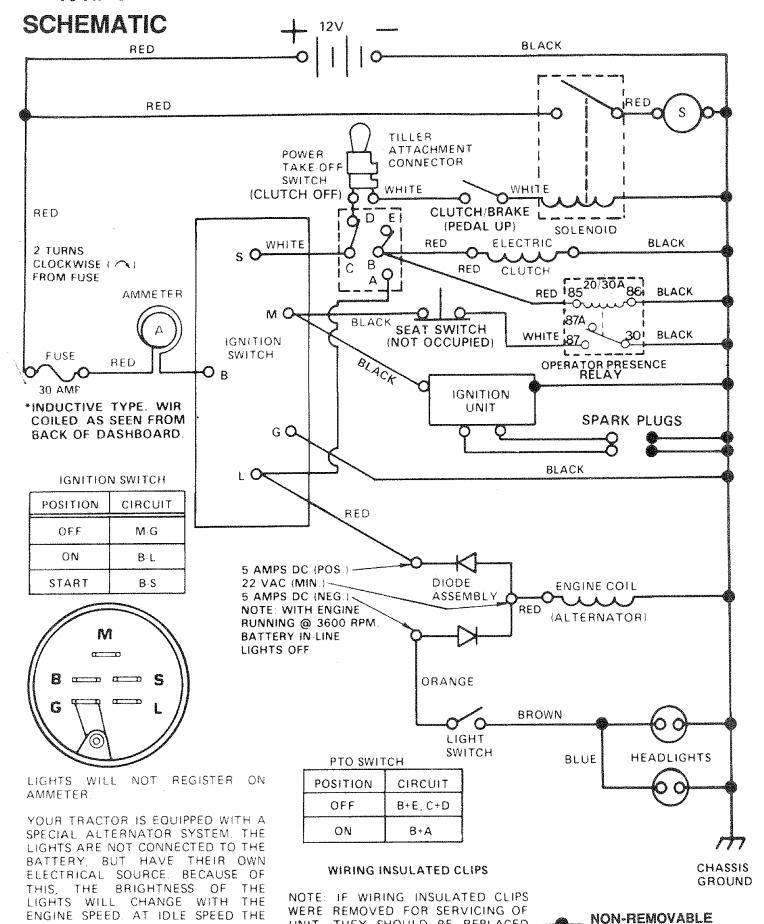
PROBLEM	CAUSE / REMEDY (SEE INDEX)						
WILL NOT START	Fill Tank with Gasoline. Check Fuel Line and Carburetor (clean if necessary). Replace Fuel Filter. Use Fresh Fuel Recharge or replace Battery Check Wiring Replace Spark Plug(s) and adjust gap Drain and replace oil for proper temperature						
WILL NOT TURN OVER	Push Clutch/Brake Pedal into brake position Charge or replace Battery Move Attachment ClutchSwitchto "DISENGAGED" position Replace Ignition Switch Replace Interlock Switch(es) Replace Solenoid or Starter Replace Fuse Check all Wire Connections and "Ground" Points Reattach Tiller Attachment Wire Loop						
ENGINE CLICKS BUT WON'T START	Clean Battery Terminals Replace Starter or Solenoid Charge or Replace Battery Check Wire Connections and "Ground" Points						
HARD TO START	Place Throttle Control in "FAST" position and run starter several times to clear out gas Remove Air Filter and clean Replace Spark Plug(s) and adjust gap Recharge or replace Battery Check the Wiring Drain Fuel Tank and Carburetor. Use Fresh Fuel. Replace Fuel Filter Make necessary adjustments to Carburetor Major Engine Overhaul						
ENGINE MISSES OR LACKS POWER	Shift to a lower gear or reduce load Drain Gas Tank and Carburetor. Use Fresh Fuel Remove and clean Air Cleaner Make necessary carburetor adjustments Clean Air Screen Add or change oil Replace Spark Plug(s) and adjust gap Replace Fuel Filter Major Engine Overhaul						
ENGINE OVERHEATS	Shift to lower gear or reduce load Clean Air Screen Add or change oil Clean Engine Cooling Fins Remove and clean Muffler or replace Remove and clean Air Filter Use fresh fuel and adjust Carburetor						
NO LIGHTS	Check Fuse, Switch and Wire Connections. Replace Headlight Bulbs Replace Switch						
WON'T CHARGE	Check Fuse for fault and replace Replace Battery Replace Diode Assembly Replace Alternator						
OPERATOR PRESENCE SYSTEM WILL NOT SHUT DOWN ENGINE WHEN OPERATOR LEAVES SEAT NOTE: This tractor is equipped with an operator presence sensing system. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut down the engine.	Check all Wire Connections Check Seat Switch						

TROUBLESHOOTING

UNSATISFACTORY MOWER PERFORMANCE UNEVEN DISTRIBUTION OF CLIPPINGS	Move Throttle Control to "FAST" Check air pressure in Tires Check front-to-rear and side-to-side Mower adjustment Use a slower ground speed Replace Mower Blades Reinstall Mower Blades with Top of Blade up Clean underside of Mower Deck Readjust Mower Drive Belt
MOWER BLADES WILL NOT ROTATE	Correct Clutch Mechanism Interference Install new Mower Drive Belt Reinstall Mower Drive Belt Adjust Mower Drive Belt Replace frozen Mandrel Replace frozen Idler Pulley
EXCESSIVE MOWER VIBRATION	Replace bent or unbalanced Blades Replace Mandrel. Straighten Deck or replace
WIND ROWING STRIPPING OR DROPPING OF GRASS CLIPPINGS	Set Throttle for maximum engine speed Let grass dry out Clean underside of Mower Deck Readjust Mower front-to-rear and side-to-side Replace Blades
UNEVEN CUT OR SCALPING	Readjust Mower front-to-rear and side-to-side Replace Blades Replace bent Mandrel(s)

SERVICE RECORD				5/5	R5/0	URS,	UPS	(OU)	50	JRS-			
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		FIRST S	HOU	8 HO	RS HO	50 H	100	720	SEF	NS NIC	E D	ATES	3
Change Engine Oil	V		V			55550500000000000000000000000000000000			HINGURAL VOIL				2000000
Check Brake Operation													
Check Tire Pressure		V											
Clean Air Screen													
Clean Air Cleaner													
Lubricate Pivot Points (see page 24)											e de la constante de la consta		
Check Battery Level and Recharge													
Clean Battery and Terminals											Treasure Contract		
Carburetor Adjustment													20002000
V-Belt Adjustment													
Clean Engine Cooling Fins				B. Allen									SIGNACIONAL
Check Muffler													
Replace Air Cleaner Paper Cartridge					V								
Replace Spark Plug					S. A. S.								
Replace Fuel Filter						W		Anthonic State Color				- Control of the Cont	a.

18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020



TO PROPERLY SECURE YOUR WIRING

LIGHTS WILL DIM. AS THE ENGINE IS

SPEEDED UP, THE LIGHTS WILL BE

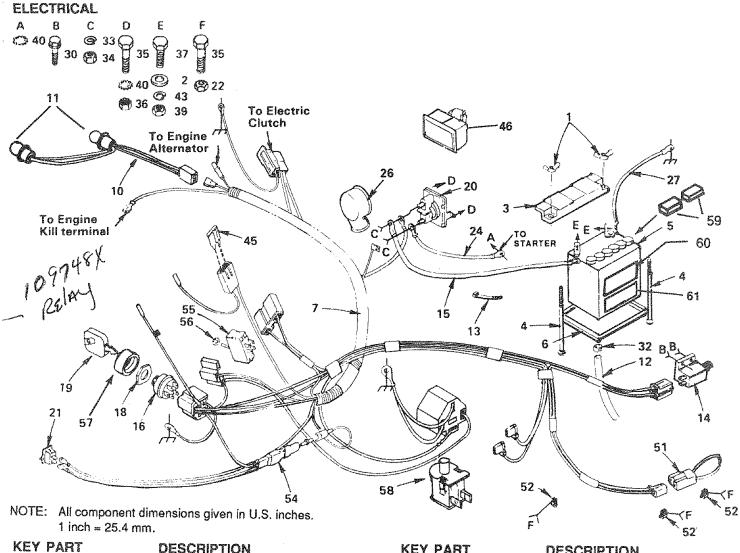
COME THEIR BRIGHTEST.

O— REMOVABLE CONNECTIONS

CONNECTIONS

UNIT, THEY SHOULD BE REPLACED

18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020



	1 IIICH = 20.4	* [] [] [h.				•	`52'
KEY NO.	PART NO.		DESCRIPTION		KEY NO.	PART NO.		DESCRIPTION
NO. 1 2 3 4 5 6 7 10 11 12 13 14 15 16 18 19			Wing Nut 1/4 - 20 Washer 9/32 x 5/8 x 16 Ga. Guard - Terminal Bolt, Carriage 1/4- 20 x 7- 1/2 Battery Battery Tray Harness - Ignition Harness - Light Socket Bulb - Light Tube - Battery Tray Cable Tie Switch - Interlock - Clutch Cable - Battery (Battery to Solenoid) Ignition Switch Nut - Ignition Key Solenoid Switch - Light		30 32 33 34 35 36 37 39 40 43 45 46 51 52 54 55		*	Screw - Tap. Hex Hd. No. 10 - 24 UNC x 1/2 Type T Clamp - Hose Lockwasher 1/4 Nut - Hex Jam 1/4 - 20 Bolt-Hex 1/4 - 20 x 1/2 Gr. 5 Nut-Keps, Hex 1/4 - 20 Bolt-Hex 1/4 - 20 x 3/4 Nut-Hex 1/4 - 20 x 3/4 Nut-Hex 1/4 - 20 Washer - Lock 1/4 Ext. Tooth Lockwasher 1/4 Fuse - 30 Amp. Ammeter Loop - Wire Clip - Insulated Diode Assembly Switch PTO Nut-Hex
	73680400 4799 J		Nut - Hex 1/4 - 20 Cable - Battery (Solenoid to		58 59	121305X 121264X		Bezel, Ignition Switch Seat Cap Battery
	719 J 4207 J		Starter) Terminal Cover (For Solenoid) Cable - Battery IBattery to Ground)		61 	121549X 120960X 124555X 101539X		Decal Battery Decal, Battery Owner's Manual (English) Sheet, Instruction - Tractor
•STAI	NDARD HARI	DW/	NRE-PURCHASE LOCALLY	29				15° Slope (English)

18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020

CHASSIS AND ENCLOSURES -101 50 58 = 8 95 92 110 \underline{G} -- 108 27 G 30 24 G Ta

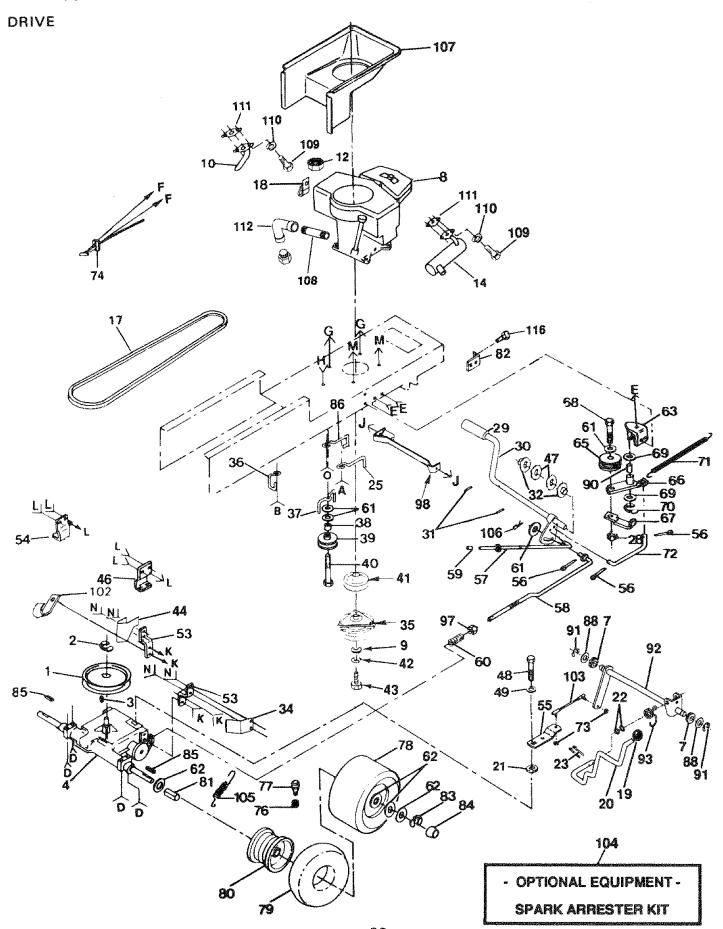
18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020

CHASSIS AND ENCLOSURES

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

					1 inch = 25 .	4 mm
KEY NO.	PART NO.	DESCRIPTION		KEY NO.	PART NO.	DESCRIPTION
1	120066X	Seat		58	121248X	Bushing, Snap
2	121294X	Pan - Seat		5 <i>9</i>	121249X	Spacer, Split
3	105513X	Bracket - Pivot - Seat		60	121250X	Spring, Compression
4	105529X	Bolt - Shoulder 5/16 - 18		61	108403X	Panel - Side - R.H.
5	124238X	Cap - Spring		62	108410X	Panel - Side - L.H.
6	STD541431	Nut - Lock 5/16 - 18		63	106091X	Hinge - R.H.
7	STD541437	Nut - Lock 3/8 - 16		64	106090X	Hinge - L.H.
8	123784X	Fender		66	106003X	Lens - R.H.
9	106202X	Reflector - Rear		67	106004X	Lens - L.H.
10	105801X	Decal		68	110897X	Bezel - Headlight
11	17490612	Screw, Hex Washer Thd. Roll		70	108512X	Bracket - Pivot - R.H.
		3/8-16 x 3/4		71	108513X	Bracket - Pivot - L.H.
12	19131312	Washer 13/32 x 13/16 x 12 Ga.		72	4900J	Decal - Clutch/Brake
13	STD523707	*Bolt, Hex, 3/8-16 x 3/4		73	109199X	Decal - Drive Belt
14	105511X	Strap - Fender		74	STD523707	Bolt - Hex 3/8-16 x 3/4
15	19171912	Washer 1 // 32 x 1 3 / 16 x 1 2 Ga.		<i>75</i>	8710J	Stem - Tank, Fuel
17	108885X	Guard · Muffler		<i>76</i>	110350X	Strap Assembly - Grill
18	121246X	Bracket, Switch - Seat		77	STD522505	Balt - Hex 1/4 - 20 x 1/2
19	124181X	Compression - Spring R.H.		<i>78</i>	235R	Clip - Insulated
20	105531X	Nut, Push		<i>79</i>	11050600	Washer · Lock, Ext. Tooth 3/8
21	105509X	Bracket - Fender		80	106813X	Decal - Stripe, Side Panel, L.H.
22	123934X	Scale, Height Indicator		<i>81</i>	106814X	Decal - Stripe, Side Panel, R.H.
23	106020X	Tank - Fuel		<i>82</i>	106974X	Decal - Caution
24	123549X	Cap - Fuel		83	17490608	Bolt, Hex Washer Thread Rolling
25 26	123487X	Clamp - Hose		84	10131010	3/8-16 x 1/2
20 27	8542F 106082X	Line - Fuel		85	19131616	Washer 13/32 x 1 x 16 Ga.
27 28	121277X	Pad - Spacer			19131614	Washer - 13/32 x 1 x 14 Ga.
29 29	123785X	Chassis Assembly		86 87	19060718 106909X	Washer 3/16 x 7/16 x 18 Ga.
30	124118X	Drawbar Panel - Dash - L.H.		88	106909X 106910X	Screw - Special
31	121794X			89	108402X	Screw - Special
32	110828X	Cover, Access Panel - Dash - R.H.		90	121251X	U-Clip Strip Foom
33	105525X	Bracket - Support - Dash		91	72170410	Strip, Foam
34	123933X394	Pointer, Height Indicator		92	120068X	Bolt, Carr. 1/4 - 20 x 1-1/4
35	105465X	Footrest - L.H.		93	121144X	Knob, Seat Shoulder Bolt
36	105464X	Footrest - R.H.		94	5320R	
37	STD533707	*Bolt, Carr. 3/8-16 x 3/4		95	123976X	Clip - Insulated
38	105466X	Pad , Footrest		96	STD511005	Nut, Hex Large Flange
39	110923X	Bracket - Clutch - Mower		97		Screw - Sltd. Pan Head #10 - 24 x 1/4
40	3645J	Bushing			73951000	Nut, Keps #10 - 24
	105567X	Decal - 6 Speed 44"		98	4171R	Clip, Insulated
42	2751R	Clip - Insulated		99	123825X	Console, Shifter
43	110436X	Grommet, Split		100	STD523710	Bolt, Fin Hex 3/8 - 16 UNC x 1
44	105839X	Receptacle		101	126312X	Decal, Hood
45	105838X	Retainer		102	10100800	Washer, Lock
<i>46</i>	123650X	Stud - 1/4 Turn		103	74640806	Screw #8 x 3/8
\$ 7°	108105X	Shield - Heat			74780516	Bolt, Hex 5/16 - 18 UNC x 1
<i>48</i>	109015X	Bracket - Pivot - L.H.		105	19112410	Washer 11/32 x 1 1/2 x 10 Ga.
\$ 9	109016X	Bracket - Pivot - R.H.		106	STD551131	Washer, Lock
5 <i>0</i>	106013X017	Hood		107	120529X	Washer, Nylon
5 1	123935X	Plug, Hole			9151R	Grommet
5 <i>2</i>	73680400	Nut - Crownlock 1/4-20		109 110	120597X 750211	Pal Nut
54	108067X	Pal - Nut		J	/502// K L	Decal, U.S.A. N O Q R S
5 <i>5</i>	105528X	Grill		-	~ -	
5 <i>6</i>	105806X	Decal - Grill		\bigcirc	Θ	⊕ 54
57	105568X	Decal - Stripe		37	74 774	
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18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020



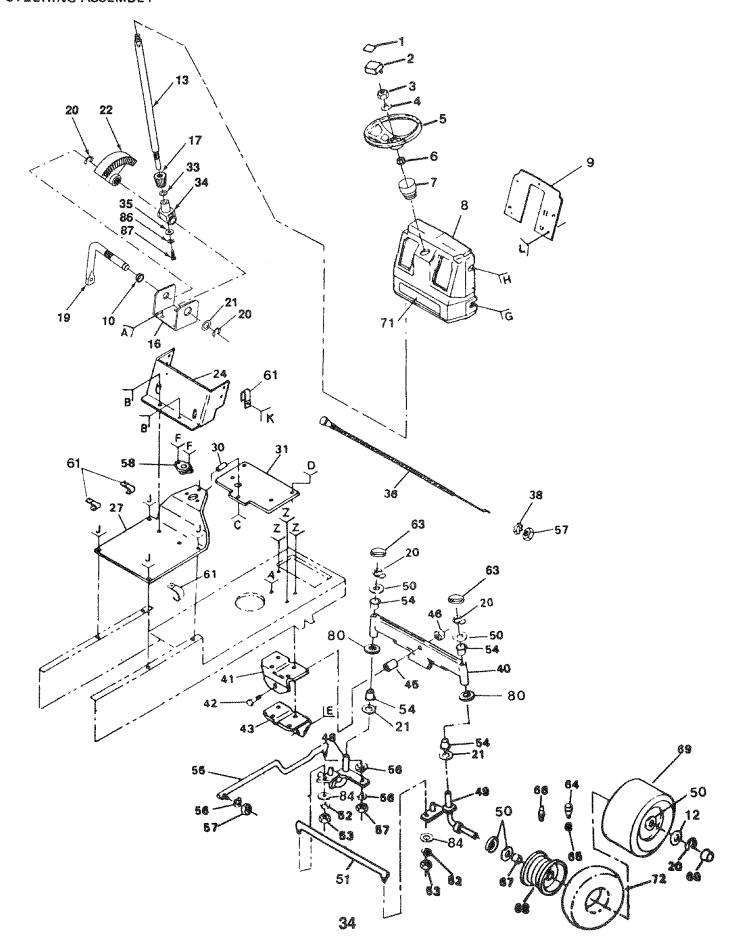
18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020

DRIVE

UN	IVE												
KEY NO.	PART NO.		DESCRIF	MOIT					PART NO.		DESCRIP"	TION	
1	121327X		Pulley, Tran	eavla (Deive	ne!		65		123766X		Pulley, Idler		
	12000004		Ring, Retair		,		66		123789X		Arm, Idler		
2 3	2228M		Key, Woodr				67		123205X		Retainer, Bei	lĝ.	
4	123797X		Transaxie, 6		cumseh		68		STD523715	ŧ	Bolt, Hex 3/8		
**	120/5/7		Model No. 1				69		110812X		Washer, Har		
5	STD533107		Bolt, Hex 5/1				70		12000039		Ring, Clip		
	19111214		Washer 11/				71		105709X		Spring, Retu	rn. Clutch	
6 7 8	71208		Bushing, Ro		, ,,,,,,,,		72		105710X		Link, Clutch	,	
8	125860X		Engine, Brig	os & Stratto	n 18 HP		73		73530400		Nut 1/4 - 28		
			Model No. 4			ł	74		124559X		Control, Thro	ttle	
9	126197X		Washer 15/3				75		17720410		Screw, Hex,	Thread Cuti	ing .
10	100229L		Tube Assen								1/4 - 20 x 5/8		•
11	17490628		Screw, Hex			(13/8	76		59192		Cap, Valve		
12	STD541437		Nut, Keps 3				77		65139		Stem, Valve		
14	108373X		Muffler				78		126609X		Tire, Rear		
17	123796X		V-Belt, Drive	9			79		7154J		Tube (Not ful	rnished with	
19	106933X		Knob								Tractor)		
20	123781X		Rod, Shifter				80		124074X		Rim		
21	105701X		Washer, Sh.	ift Plate			81		108097X		Spacer, Split		
22	19171216		Washer 17/3	32 x 3/4 x 10	6 Ga.		82	÷	108236X		Bracket, Swit	tch	
23	STD561210	str.	Pin, Cotter 1				83		12000053		E-Ring		
24	17490612		Screw, Hex		.Thd.		84		104757X		Cap Hub, Re	ar	
			Roll. 3/8 - 10				85		9396E		Key Square		
25	105730X		Keeper, Bel	t, Engine			86		121218X		Keeper, Belt,		
26	STD523710	*	Bolt, Hex 3/8	- 16 x1			87		17490624		Bolt, Hex, W.	asher, Thre	ad
27	19131312		Washer 13/3		12Ga.						Rolling 3/8 -		
28	STD541437	ø	Locknut 3/8				88		19212016		Washer 21/3		16 Ga.
29	8883R		Cover, Foot				89		STD523707	*	Bolt Hex 3/8	- 16 x 3/4	
30	122424X		Shaft, Foot				90		105706X		Bearing		
31	1572H		Pin,Roll 3/10				91		12000008		Ring, Klip	مديد د.	
32	STD551062	F	Washer 21/3				92		123772X		Shaft Assem		
34	123792X		Keeper, Bel		, R.H.		93		123782X		Spring, Torsi	on	. 0.0
35	126112X		Clutch, Elec				94		STD551237	-	Washer, Loc		n 3/8
36	123788X		Retainer, Be				97		STD541437		Locknut 3/8 -		. 1.
37	109070X		Keeper, Bel	t			98		109169X		Retainer Ass	embly, Clut	cņ
38	4470J		Spacer				10	1	17490512		Screw, Hex,		d.
39	123674X		Idler, Flat					_			Rolling 5/16		
40	STD523727	8	Bolt, Hex 3/4		3/4		10:		2751R		Clip, Fuel Lin	1 0	
41	123795X	_	Pulley, Engi				10:		123793X		Rod, Tie	125	
42	STD551143	P	Washer, Loc				10-		100091X		Spark Arrest		
43	74610764		Bolt, Hex 7/				100		110422X		Spring, Brake		
44	123791X		Keeper, Bel	t, Transaxle	, L.H.		100		4497H		Clip, Hair Pir		
46	123776X		Bracket Trai				10		105953X		Duct, Air Inta	ike	
47	120183X		Bearing Nyk				100		13280336		Nipple, Pipe	00 4 0/4	
48	71040412		Bolt, Hex 1/4		~ .		10		STD522507		Bolt, Hex 1/4		
49	STD551025		Washer 9/3		Ga.		110		STD551125		Washer, Loc	R 1/4	
51	STD541431	*	Locknut 5/1		au ·		11		8545J		Gasket Elbow, Pipe	CTD AAO	
52	74780544		Bolt, Hex 5/	16-18XZ-	3/4		11:						v t
53	123787X		Strap, Torqu				113		74760516		Bolt, Hex 5/1		
54 55	123780X		Bracket, Tra	nsaxie, L.H			114		19111212 CTD541431	*	Washer 11/3 Nut, Crownic		
55 50	123794X	ė	Shift Arm Pin, Cotter 1	10.014			11:		STD541431		Screw, Tap I		
<i>56</i>	STD561210						110	,	STD601005		Sulaw, Tapi	TOATIO. WIL	7 - 4 - A 1/2
57 58	125637X 123786X		Rod, Brake,	rair									
59	123786X 124236X		Rod, Brake										
60	124230X 126909X		Cap, Plunge										
61	STD551037	*	Spring, Rod Washer 13/3		16 Ca		* 6	:7	ANDARD HA	RDW	AREPUB	CHASE	OCALLY
62	123800X		Washer 1-1/				•	,,,	TITUMINUTIO	13 1L) Y V .	TI ILL	107 17 10 L. I	a box box 8 " Elian line 1
63	123102X		Bracket, Clu		A 10 Ga.		610	ر مهر ا			dime a maia a a	antico m im	IIC inches
64	STD533707		Bolt, Carriag		2/4		IAC)	E: All compo	mem (umensions	given in	U.S. inches -
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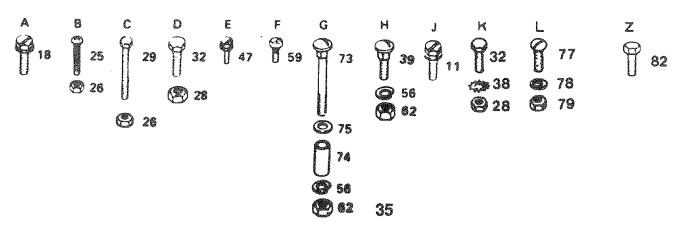
18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 STEERING ASSEMBLY



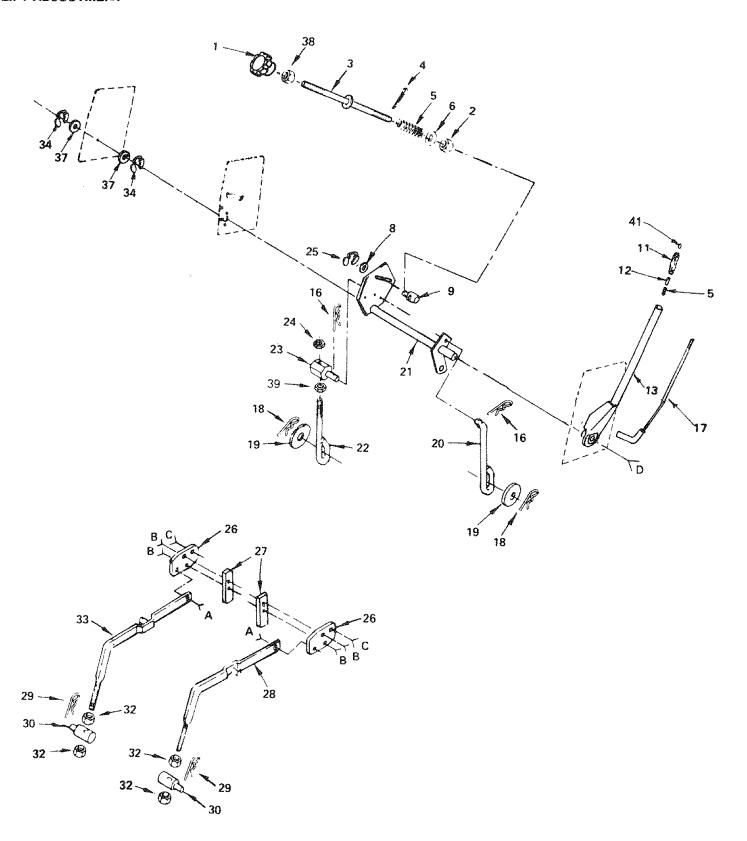
18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 STEERING ASSEMBLY

KEY NO.	PART DESCRIPTION NO.		SCRIPTION KEY PART NO. NO.				
1	105810X	Decal - Cap, Steering Wheel	46	73901000	Nut, Lock, Flange 5/8-11		
2	100710L	Insert, Steering Wheel	47	17490508	Screw, Hex Washer Thd. Rolling		
3	73940800	*Nut, Top Lock 1/2 - 20UNF			5/16-18 x 1/2		
4	100712K	Washer	48	105656X	Spindle, L.H.		
5	100713N	Wheel, Steering	49	105654X	Spindle, R.H.		
6 7	100711L	*Adapter - Steering Wheel	50	121749X	Washer 25/32 x 1-1/4 x 16 Ga.		
8	110709X	Column - Steering	51	121334X	Rod, Tie		
9	120028X 124557X 011	Dash Dash Plate	<i>52</i>	STD551131	*Washer, Lock 5/16		
10	124557X 011 109816X	Nyliner, Snap-In	53	STD541131	* Nut, Hex 5/16-24		
11	17490608	Screw, Hex Washer Thd. Rolling	54 cc	3366R	Bearing		
,,	17430000	3/8-16 x 1/2	55 56	124032X	Link, Drag		
12	121748X	Washer 25/32 x 1-5/8 x 16 Ga.	56 57	STD551137	*Washer, Lock 3/8		
13	124041X	Shaft, Steering	58	STD541137 1554J	*Nut, Hex 3/8-24		
16	124036X	Bracket, Steering	56 59	17431008	Bushing, Steering		
17	124037X	Gear, Pinion	60	104757X	Screw, Hex No. 10-16 x 1/2		
18	17490612	Screw, Hex Washer Thd. Rolling	61	2751R	Cap, Hub, Front Clip, Fuel Line		
, 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3/8-16 x 3/4	62	STD541037	*Nut, Hex 3/8-16		
19	124033X	Shaft, Pitman	63	121232X	Spindle, Cap		
20	12000029	Klip Ring	64	59192	Cap, Valve		
21	6266H	Bearing, Thrust	65	65139	Stem, Valve		
22	124034X	Gear, Sector	66	6855M	Fitting, Grease		
24	105518X	Dash, Lower	<i>67</i>	9040H	Bearing Grease		
25	74180512	Screw, Crown Truss Hd.	68	106732X	Rim, 6" Front		
		5/16-18 × 3/4	69	106732X	Tire, Front		
26	STD541431	Nut, Lock 5/16-18	71	108456X	Decal, Instructions, Operating		
27	123783X 012	Saddle	72	59904	Tube, Tire, Front		
28	STD541437	Nut, Lock 3/8-16	73	72110622	Bolt, Carriage Hex 3/8-16 x 2-3/4		
29	STD523120	*Bolt, Hex 5/16-18 x 2	74	121235X	Spacer		
30	121236X	Spacer	75	19131416	Washer 13/32 x 7/8 x 16 Ga.		
31	106001X	Support Plate, Battery	77	STD512507	*Screw, Pan Head 1/4-20 x 3/4		
32	STD523707	*Bolt, Hex 3/8-16 x 3/4	78	19091216	Washer 13/32 x 3/4 x 16 Ga.		
33	57079	Washer	79	73510400	Nut, Keps 1/4 NC		
34	124035X	Shaft, Support	80	19272016	Washer 27/32 x 1-1/4 x 16 Ga.		
<i>35</i>	126684X	Washer 5/8 x 1/4 x 16 Ga.	82	122819X	Screw, Special 3/8 - 16 x 3/4		
36	121525X	Control, Choke	84	19111216	Washer 11/32 x 3/4 x 16 Ga.		
38	STD551237	Washer, Lock, Int./Ext. Tooth 3/8	86	STD551125	Lockwasher 1/4		
39	72110608	Bolt, Carriage	87	71070410	Screw, Socket Hex 1/4 x 20 x 5/8		
40	108075X	Axle, Front					
41	105663X	Support, Saddle, Rear					
42	74761060	Bolt, Hex 5/8-11 x 3-3/4					
43	105664X	Support, Saddle, Front	.				
45	110438X	Spacer Bearing, Front Axle	*ST.	ANDARD HARL	DWARD-PURCHASE LOCALLY		

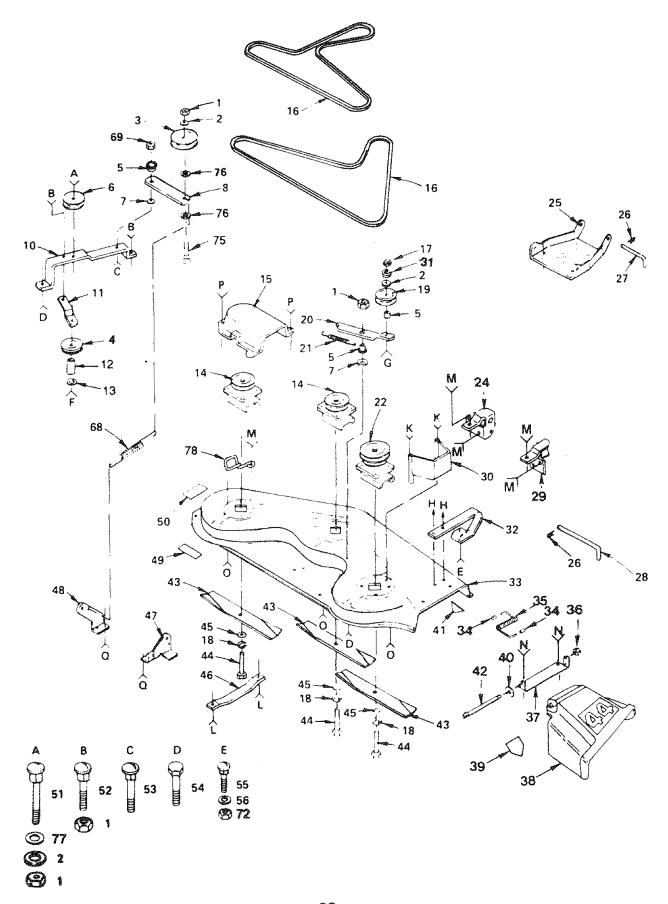
NOTE: All component dimensions given in U.S. inches -1 inch = 25.4 mm



18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 LIFT ADJUSTMENT



18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 MOWER



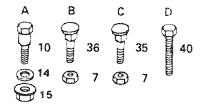
18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020

LIFT ADJUSTMENT

	/ PART NO.		DESCRIPTION		PART NO.		DESCRIPTION
123455737011213	121891X 110807X 110729X STD560907 2876H 19131016 STD541437 19151216 110810X 105848X 125631X 122364X 121004X 110739X 73980600 4939M	vi	Knob, Depth Adjustment Nut Hex Special Rod - Adjust - Lift Pin - Cotter 3/32 x 1/2 Spring Washer 13/32 x 5/8 x 16 Ga. Nut - Lock 3/8 - 16 Washer 15/32 x 3/4 x 16 Ga. Trunnion Bolt, Shoulder 3/8 - 16 Grip- Handle Plunger - Lever Lever - Lift (Includes Key No. 17) Spring Washer Center Lock Flangenut 3/8 x 16	21 22 23 24 25 26 27 28 29 30 32 33 34 35 36 37	124516X 110448X 110447X 73710700 12000037 105864X 121252X 121598X 9135R 106308X STD541050 121599X 12000022 STD533710 STD533707 19292016	持者時	Shaft - Lift Link - Lift, Adjust Trunnion - Lift Nut Lock 7/16 - 20 UNF Klip Ring Bracket - Suspension Upstop Mower Arm - Suspension - R.H. Retainer Spring Trunnion - Lift - Lower Nut- Hex Fin. 1/2 - 13 Arm - Suspension - L.H. E-Ring Bolt - Carriage 3/8 - 16 x 1 Bolt Carriage 3/8 - 16 x 3/4 Washer 29/32 x 1 - 1/4 x 16 Ga.
17 18 19 20	121006X 4921H 19171516 110029X		Retainer - Spring Rod - Lever Retainer - Spring Washer 17/32 x 15/16 x 16 Ga. Link - Lift	38 39 40 41	STD541237 STD541343 74780624 122365X	*	Nut., Hex Jam 3/8 - 16 Nut - Hex Jam 7/16-20 Bolt - Hex 3/8 - 16 x 1 - 1/2 Button - Plunger

*STANDARD HARDWARE—PURCHASE LOCALLY

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

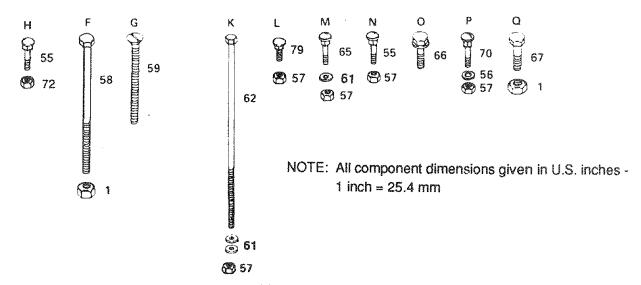


18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450

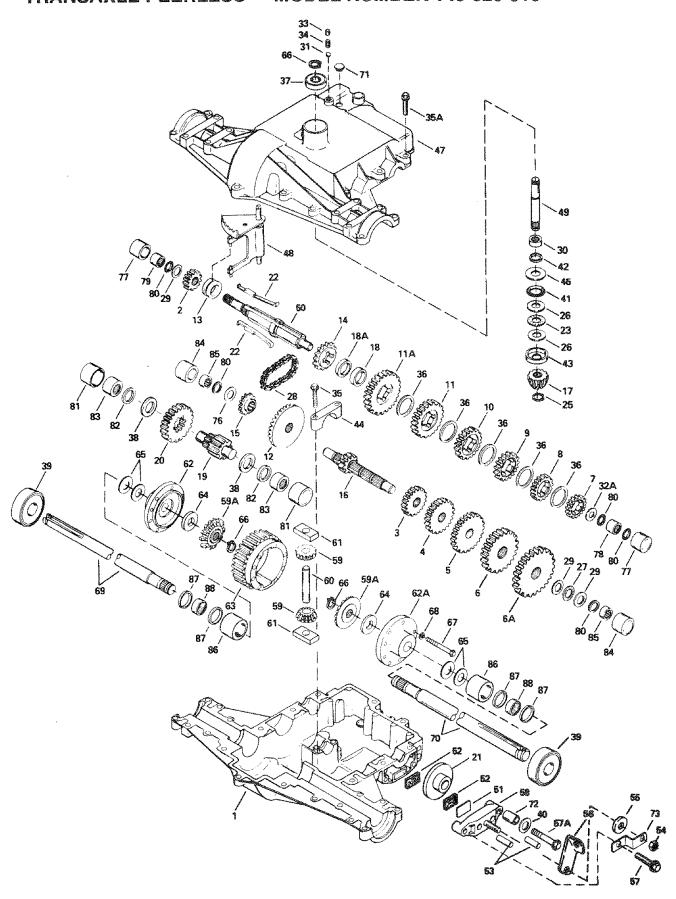
MOWER

KEY PART NO. NO.		DESCRIPTION		PART NO.	DESCRIPTION	
NO. NO. 1 STD54143 2 19131614 3 121316X 4 102403X 5 106902X 6 677A451 7 106513X 8 121425X 9 109776X 10 106523X 11 106522X 12 121236X 13 STD55103 14 121658X 15 106214X 16 106085X 17 STD54103 18 STD55113	37 *	Nut - Lock 3/8 - 16 Washer 13/32 x 1 x 14 Ga. Pulley Idler Pulley, Idler Spacer Pulley Idler Washer - Wear Arm - Idler Pin - Pivot Bar Support - Idler Brace - Idler - Deck Spacer Washer, 13/32 X 13/16 X 16 Ga. Mandrel - Secondary Guard V Belt Nut, Hex 3/8 - 16 Washer - Lock 3/8	NO. 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	NO. 19111016 106735X 106635X STD623715 19132012 7631J 123807X 123808X 106223X 105185X STD533717 STD533710 STD533715 STD523712 STD533107 STD551031	Washer 11/32 x 5/8 x 16 Ga. Decal OPEI (not serviced) Rod Hinge Blade * Bolt- Hex 3/8 - 24 x 1-1/2 Gr. 5 Washer 13/32 x 1-1/4 x 12 Ga. Runner - L.H. Bracket Suspension, Rear- R.H. Bracket - Suspension, Rear- L.H. Decal- V-Belt - Schematic Instruction - Caution Decal * Bolt - Carriage 3/8 - 16 x 1 - 3/4 * Bolt - Carriage 3/8 16 x 1-1/2 * Bolt - Hex 3/8 - 16 x 1 - 1/4 * Bolt - Carriage 5/16-18 x 3,'4 * Washer 11/32 x 11/16x 16 Ga.	
18 STD55113 19 102932X 20 106526X 21 7644J	37 *	Washer - Lock 3/8 Idler - Flat Arm - Idler - Deck Spring- Extension	56 57 58 59	STD551031 STD541431 STD523730 74110632	* Washer 11/32 x 11/16x 16 Ga. * Nut - Lock 5/16- 18 * Bolt - Hex 3/8 - 16 x 3 Screw - Flat Head 3/8 - 16 x 2	
22 121705X 24 106511X 25 105662X 26 4921H		Mandrel - Primary Bracket Lift L.H. Link Parallel Retainer - Spring	61 62 65	19111216 STD523150 STD533107	Washer 11/32 x 3/4x 16 Ga. * Bolt - Hex 5/16 18 x 5 * Bolt - Carriage 5/16 - 18 x 5/8 UNC x 3/4	
27 105744X 28 109835X		PIn, Front Hinge Pin, Rear Hinge	<i>66</i>	17490612	Screw - Hex Washer Thread Rolling 3/8 16 x 3/4	
29 106512X 30 108119X 31 STD55113 32 8418J	7	Bracket Lift - R.H. Guard Bel t - R.H. Washer, Lock Hvy. Hel. Spring Runner - R. H.	67 68 69 70	STD533707 102727X STD541437 STD533107	* Bolt - Carriage 3/8 - 16 x 3/4 Spring - Extension * Nut - Centerlock 3/8 - 16 * Bolt - Carriage 5/16 - 18 x 3/4	
33 121423X 34 105304X 35 106734X 36 110452X		Housing - Mower Cap Sleeve Spring Nut . Push	72 75 76 77	1685H 72140620 19131210 STD533106	Nut - Lock 5/16 - 18 Bolt, Carriage 3/8 - 16 X 2 1/2 Washer 13/32 x 3/4 x 10 Ga. Washer, 13/32 X 7/8 X 10 Ga.	
37 109743X 38 109785X 39 121349X		Bracket - Deflector Guard - Discharge Decal - Warning	78 79 80	121352X 72110505 125728X	* Bolt - Carriage 5/16 - 18 X 5/8 Mower Deck, Complete	
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18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 TRANSAXLE PEERLESS - - MODEL NUMBER 143-820-016

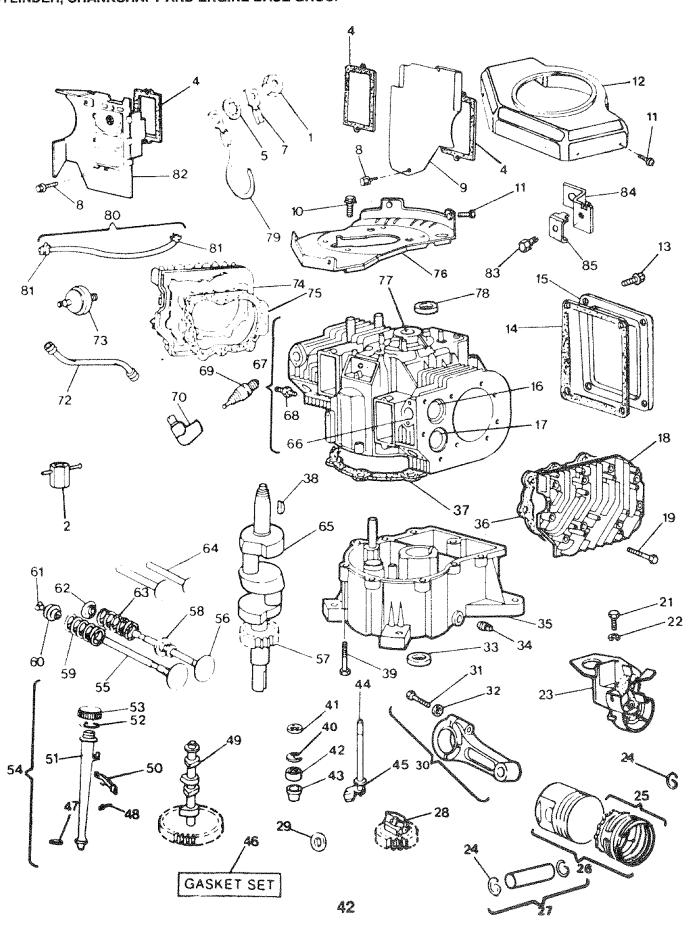


18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 TRANSAXLE PERLESS - - MODEL NUMBER 143-820-016

Ref.	Part		Ref.	Part	
No.	No.	Part Name	No.	No.	Part Name
1	770088	Case, Transaxle	44	786131	Cap, Bearing
2	778253	Gear, Spur (15 teeth)	45	780165	Washer, Flat
3	778211	Gear, Spur (12 teeth)	47	772098	Cover, Transaxle
4	778240	Gear, Spur (18 teeth)	48	784342	Rod & Fork Assy., Shift
5	778201	Gear, Spur (25 teeth)	49	776274	Shaft, Input
6	778202	Gear, Spur (28 teeth)	50	776313	Shaft, Brake (4 Keyed)
6A	778208	Gear, Spur (31 teeth)	51	790007	Plate, Brake pad
7	778209	Gear, Spur (19 teeth) Gear, Spur (22 teeth)	52	790006	Pad, Brake Pin, Dowel
8	778203 778204	Gear, Spur (25 teeth)	53 54	786026 792075	Locknut, 5/16-24
10	778239	Gear, Spur (32 teeth)	55	792076	Washer, Flat
11	778207	Gear, Spur (37 teeth)	56	790047	Lever, Brake
11A	778216	Gear, Spur (41 teeth)	57	792073	Screw, Flanged hex hd. thread-
12	778246	Gear, Bevel (33 teeth)			forming, 1/4-20 x 1-1/4
13	784216	Collar, Shift	57A	792085	Screw, Flanged hex hd. thread-
14	786123	Sprocket (18 teeth)			forming, 1/4-20 x 2-1/4
15	786082	Sprocket (9 teeth)	58	790025	Holder, Brake pad
16	776291	Shaft, Counter (w/9 tooth gear)	59	778197	Pinion, Differential bevel
17	778245	Bevel Pinion, Input (13 teeth)	59A	778198	Gear, Bevel
18	786121 786122	Spacer, Netural (.350/.340 thick)	60	786019 786027	Pin, Drive
18A 19	776275	Spacer, Netural (.276/.268 thick) Shaft, Output (9 teeth)	61 62	774833	Block, Drive Carrier, Differential (Threaded holes)
20	778247	Gear, Output (35 teeth)	62A	774834	Carrier, Differential
21	790043	Disk, Brake	63	778248	Gear, Ring (31 teeth)
22	792138	Key	64	780107	Washer
23	780084	Bearing, Thrust	65	780042	Washer, Thrust
25	788040	Ring, Retaining	66	792018	Ring, Snap
26	780051	Washer, Thrust	67	792020	Screw, Hex hd., 1/4-20 x 2-1/4
27	780071	Bearing, Thrust	68	792006	Lockwasher, 1/4"
28	786081	Chain, Roller (No. 41 chain, 24 links)	69	774832	Axle (12-5/16" long)
29	780072	Washer, Thrust	70	774831	Axle (16-3/16" long)
30	780155	Bearing, Needle	71	792074	Plug, Hex hd., 9/16-18 thread
31	792077	Ball, Steel	72	786067	Spacer
32A	780139	Washer, Thrust	73	786086	Bracket, Brake lever
33 34	792078 792079	Screw, Set, 3/8-16 x 3/8	76 77	780153 786144	Washer Sleeve (stepped)
35	792073	Spring Screw, Flanged hex hd. thread-	78	780150	Sleeve (stepped) Bearing, Needle
30	792073	forming, 1/4-20 x 1-1/4	79 79	780152	Bearing, Needle (capped)
35A	792129	Screw, Hex hd. threadforming,	80	792001	"O" Ring
	702.120	5/16-18 x 1-1/4	81	786142	Sleeve (stepped)
36	780108	Washer, Thrust	82	788071	Ring, Square cut
37	780119	Bearing, Ball	83	780049	Bearing, Needle (capped)
38	780128	Washer, Thrust	84	786143	Sleeve (stepped)
39	780050	Bearing, Ball	85	780151	Bearing, Needle (capped)
40	792128	Washer, Flat	86	786145	Sleeve (stepped)
41	788077	"O" Ring	87	788070	Ring, Square cut
42	788042	Seal, Oil	88	780031	Bearing, Needle
43	780166	Washer, Cupped			
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NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm.

18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 ENGINE BRIGGS AND STRATTON - MODEL NUMBER 422707, TYPE NUMBER 1228-01 CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP



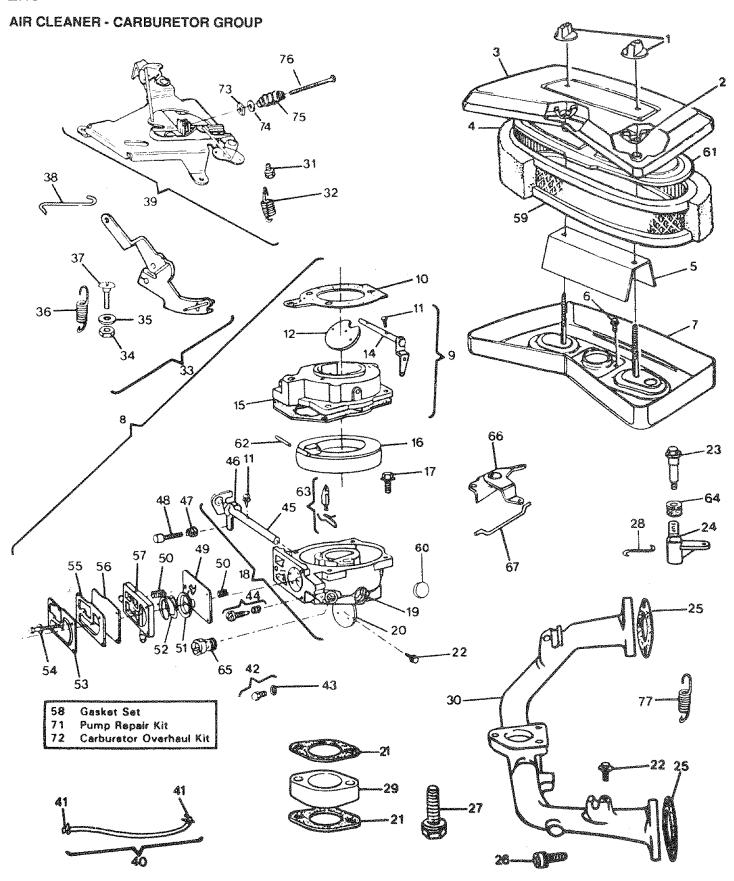
18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 ENGINE BRIGGS AND STRATTON - MODEL NUMBER 422707, TYPE NUMBER 1228-01 CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	90576	Nut - Hex 8 - 32	38	222698	Key - Flywheel
2	89838	Wrench, Spark Plug	39	93585	Screw - Hex Hd. Sem
4	27803	* Gasket - Valve Cover	40	94296	Retainer - E-Ring
5	92791	Washer - Lock, Shakeproof	41	491287	Foam Seal - Governor Shaft
6	222892	Cover - Breather Cylinder No. 2	42	262331	Upper Bushing - Governor
7	93722	Terminal - Spade	43	262332	Lower Bushing - Governor
8	94382	Screw - Sem	44	491530	Crank - Governor
9	224362	Baffle - Air	45	223882	Washer - Governor Crank (Inside)
10	93777	Screw - Hex Head (Back Plate to	46	394501	Gasket Set
		Cylinder)	47	271157	Seal - Filler Tube
11	93559	Screw - Sem	48	94166	Screw - Hex Head
12	492656	Housing - Blower	49	212337	Gear - Cam
13	90887	Screw - Crankcase Cover Mtg. Sem	50	222875	Clamp - Oil Filler
-		NOTE: USES 92228 LOCKWASHER	51	280224	Tube - Oil Filler
1 /1	270981	*Gasket - Crankcase	52	271170	Seal - Oil Filler Cap
14 15		Cover Plate - Crankcase	53	394020	Cap and Dipstick - Oil Filler
	212455	+Seat - Intake Valve (Standard)	54	394394	Dipstick and Tube Assembly (Inc. Key
16 17	261463				Nos. 47, 48, 50, 51, 52 & 53)
	213316	+Seat - Exhaust Valve (Standard)	55	390420	Valve - Exhaust
18	493458 94565	Head - Cylinder No. 2	56	261528	Valve - Intake
19		Screw - Cylinder Head	<i>57</i>	231445	Gear - Timing
?1	93686	Screw - Hex Head (10 - 32 x 5/8)	58	393606	Seal Assembly and Retainer
?2	92290	Washer - Lock (No. 10 x 1/16 x 3/64)	59	26828	Spring - Exhaust Valve
?3	393415	Oil Slinger Assembly	60	292260	Rotocoil - Exhaust Valve
?4	260924	Lock - Piston Pin	61	93630	Retainer - Exhaust Valve Rotocoil
?5	394959	Ring Set - Piston (Standard)	62	221596	Retainer - Intake Valve
?5	394960	Ring Set - Piston (.010" O.S.)	63	65906	Spring - Intake Valve
?5	394961	Ring Set - Piston (.020" O.S.)	64	261368	Tappet - Valve *
15	394962	Ring Set - Piston (.030" O.S.)	65	394028	Crankshaft
<i>'6</i>	394955	Piston Assembly (Standard)	00	004020	NOTE: ORDER NO. 94196 FOR
		(Inc. Key Nos. 24 & 25)			TIMING GEAR RETAINING DEVICE
?6	394956	Piston Assembly (.010" O.S.)	66	261961	+Guide - Exhaust Valve
6	394957	Piston Assembly (.020" O.S.)	00	20/50/	NOTE: 231218 GUIDE INTAKE
6	394958	Piston Assembly (.030" O.S.)			
17	299691	Pin Assembly - Piston (Standard)			(BRASS)
		(Inc. Key No. 24)	67	491730	Cylinder Assembly (Inc. Key No. 68)
リフ	391286	Pin Assembly - Piston (.005" O.S.)	68	230318	Connector - Impulse Pump
8	394348	Gear - Governor	69	802592	Plug - Spark (Resistor) Champion RJ-12
9	222773	Washer - Thrust			or equivalent
0	394306	Rod Assembly - Connecting	70	66538	Elbow - Spark Plug
		(Inc. Key Nos. 31 & 32)	72	280225	Tube Breather
		NOTE: FOR CONNECTING ROD	73	394358	Filter - Fuel (In Fuel Line to Tank)
		WITH .020" UNDERSIZE CRANKPIN	74	493457	Head - Cylinder No. 1
		BORE, ORDER NO. 397158	75	271867	*Gasket - Cylinder
.1	92909	Screw - Connecting Rod	76	491304	Back Plate Assembly
2	220863	Washer	77	399265	+Bearing - Cylinder
3	291675	Seal - Oil	<i>78</i>	391086	Seal - Oil
4	91084	Plug - Oil Drain	79	391115	Wire - Ground
5	393552	Base Assembly - Crankcase	80	299146	Line - Fuel (28" cut to required length)
6	271868	*Gasket - Cylinder Head No. 2			(Inc. Key No. 81)
7	271142	*Gasket - Crankcase Cover (1/64" thick)	81	93053	Clamp - Fuel Line
7	271188	*Gasket - Crankcase Cover (.005" thick)	82	393370	Breather Assembly No. 1
7	271189	*Gasket - Crankcase Cover (.009" thick)	83	93496	Screw - Hex Head
•	100 F F 10767	wagital arapirowan worst from milesty	84	223890	
			85	221535	Bracket - Choke Cable
			-	~~! / / / /	Clamp - Casing

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

^{*}INCLUDED IN GASKET SET 394501 +SPECIAL TOOLS REQUIRED TO INSTALL

18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 ENGINE BRIGGS AND STRATTON - MODEL NUMBER 422707, TYPE NUMBER 1228-01



18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 ENGINE BRIGGS AND STRATTON - MODEL NUMBER 422707, TYPE NUMBER 1228-01

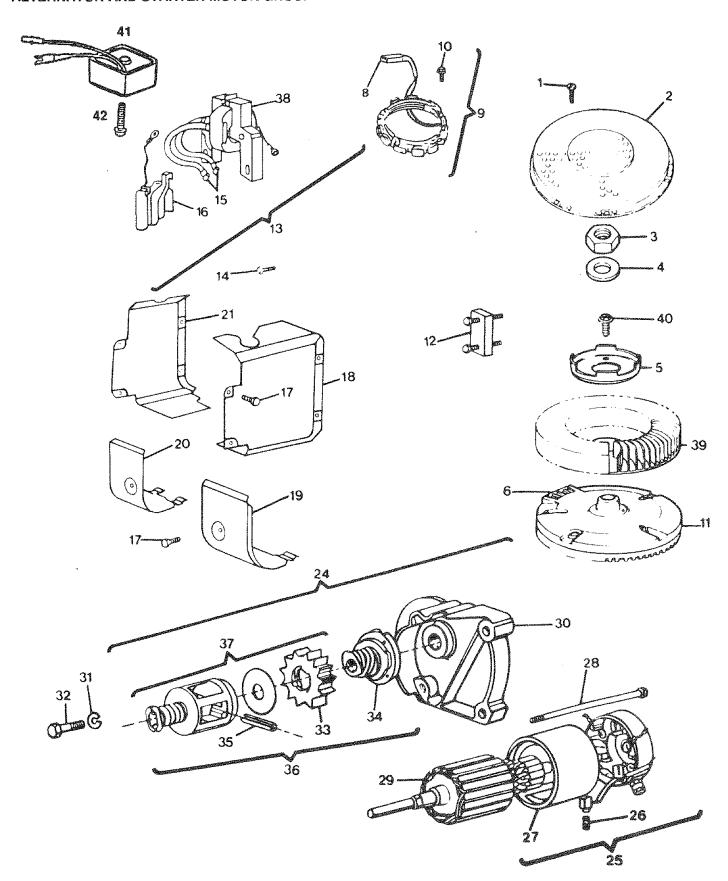
AIR CLEANER - CARBURETOR GROUP

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	212706	Knob - Air Cleaner	38	262683	Link - Governor
2 3	94289	Nut - Hex	39	491282	Plate Assembly - Governor Control
	223579	Cover - Air Cleaner	40	393815	Impulse Line and Clamp Assembly
4	271271	Element - Air Cleaner			(Inc. Key No. 41)
5	224039	Mounting Strap Assembly - Air	41	93053	Clamp · Fuel Line
		Cleaner	42	397882	Plug and Seal, Solenoid
6	94166	Screw - Hex Head	43	280474	O-Ring Seal
7	<i>398826</i>	Body - Air Cleaner	44	491538	+Valve Assembly - Carburetor Idle
8	491429	Carburetor Assembly (Inc. Key Nos.	45	392672	Shaft and Lever - Throttle
		9, 10, 11, 12, 13, 14, 15, 16, 17, 18,	46	271013	+Washer - Choke Shaft
		19, 20, 42, 43, 44, 45, 46, 47, 48, 49,	47	26157	Spring - Throttle Adjustment
		50, 51, 52, 53, 54, 55, 56, 57, 62 & 63)	48	91920	Screw - Machine Fill, Hd. (8 - 32 x 5/8)
9	491541	Body Assembly - Upper Carburetor	49	270988	x Diaphragm
<i>'0</i>	271411	Gasket - Air Cleaner	<i>50</i>	261358	x Spring
'1	93499	Screw - Throttle and Choke	51	221377	x Cap - Spring
'2	223534	Valve - Choke	52	261395	x Spring - Pump
'4	<i>392673</i>	Shaft and Lever - Choke	53	<i>223688</i>	Cover - Diaphragm
'5	271607	+Gasket - Carburetor Body	54	93829	Screw - Diaphragm - Damping
6	298514	Float - Carburetor	55	271025	x Gasket - Carburetor Pump
7	94152	Screw - Hex Head Sem (10 - 32 x 3/4)	56	270989	x Diaphragm - Damping
8	491543	Body - Lower Carburetor (Inc. Key	<i>57</i>	280197	Body - Pump
		Nos. 11, 19, 20, 45 & 46)	58	394501	Gasket Set
9	231209	Bushing · Throttle Shaft	59	394019	Cartridge - Air Cleaner
Ю	221939	Valve - Throttle	60	223472	Plug - Welch
.1	271412	+*Gasket - Carburetor and Intake Elbow	61	223714	Cartridge Plate - Air Cleaner
2	93897	Screw - Sem	62	230896	+Pin · Float Hinge
3	93971	Screw - Hex Head	63	394683	+Valve - Fuel Inlet
4	280997	Crank - Bell	64	271013	Washer
5	270884	*Gasket - Intake Manifold Mounting	65	231338	°Jet - Needle Valve (Fixed)
6	93208	Screw - Intake Manifold Mounting	66	490207	Crank - Bell
7	93970	Screw - Hex Head	67	262375	Link
8	262684	Link - Throttle	71	<i>393397</i>	Repair Kit - Pump
9	280319	Spacer - Carburetor	72	491539	Overhaul Kit - Carburetor
0	213290	Manifold Assembly - Intake	73	94298	Nut - Square
1	93949	Screw - Sem	74	223882	Washer
2	262351	Spring - Governor	75	<i>262337</i>	Spring - Compression
3	491297	Lever Assembly - Governor (Inc. Key	<i>76</i>	94297	Screw - Pan Head
		Nos. 34, 35 & 37)	77	262539	Spring, Gov. Control
4	92278	Nut - Hex (10 - 24)		*INCLUDE	D IN GASKET SET 394501
5	222289	Washer		+INCLUDE	D IN CARBURETOR OVERHAUL KIT
5	261563	Spring - Governor Idle		491539	
7	93853	Bolt - Governor Lever			D IN CARBURETOR OVERHAUL KIT ND PUMP REPAIR KIT 393397
OTE:		nent dimensions given in U.S. inches.		°HIGH ALTI1	TUDE — JET NEEDLE
	1 inch - 26	i Amm			a property a party and the par

1 inch = 25.4 mm.

VALVE - PART NO. 231333

18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 ENGINE BRIGGS AND STRATTON - MODEL NUMBER 422707, TYPE NUMBER 1228-01 ALTERNATOR AND STARTER MOTOR GROUP



18 HP GARDEN TRACTOR - - MODEL NUMBER 917.254450 & 917.250020 NGINE BRIGGS AND STRATTON - MODEL NUMBER 422707, TYPE NUMBER 1228-01 LTERNATOR AND STARTER MOTOR GROUP

(€Y	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	94326	Screw - Sem	21	222848	Cover - Air Guide
2	222673	Screen - Flush Rotating	24	394808	Motor - Starting (Inc. Key Nos. 25, 26,
3	230674	Nut - Hex			27, 28, 29, 30, 33, 34, 35, 36 & 37)
4	222511	Washer - Spring	25	<i>395537</i>	Commutator End Cap Assembly Starter
5	223726	Retainer - Fan			(Inc. Key No. 26)
6	491179	Flywheel and Ring Gear Assembly -	26	395538	Brush Set
		Magneto	27	393825	Housing Assembly
8	393537	Diode and Connector Assembly	28	94003	Thru Bolt
9	392595	Stator - Alternator (Dual Circuit)	29	<i>390837</i>	Armature Assembly (Motor)
		(Inc. Key No. 8)	30	394860	Drive End Cap Assembly - Starter
0	93621	Screw - Sem	31	90366	Lockwasher
1	391362	Gear - Flywheel Ring (Includes	32	91162	Screw - Hex Head (5/16 - 18 x 1-1/2)
		Mounting Parts)	33	280104	Gear - Starter
2	19203	Puller - Flywheel (Optional Accessory)	34	398003	Clutch Assembly - Starter
3	394891	Armature Group (Inc. Key Nos. 15,	35	94288	Roll Pin
		16 & 38)	36	490421	Pinion Spring Kit (Inc.
4	93381	Screw · Armature Mounting Sem			Key Nos. 33 & 35)
5	221798	Terminal - Ignition Cable	<i>37</i>	490467	Starter Drive Group (Inc. Key
6	394970	Trigger Coil Assembly Magnatron			Nos. 33, 34, 35 & 36)
		Ignition	38	394988	Armature Assembly
7	93163	Screw - Sem	39	280815	Fan - Flywheel
8	222849	Cover - Air Guide	40	93535	Screw - Sem
9	222734	Shield - Cylinder	41	491546	Regulator, Alternator
9	222846	Shield - Cylinder	42	94137	Screw, Regulator

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

Attachments That Add to the Usefulness of Your Craftsman Garden Tractor

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 (including changes in the stock number) may be made in these attachments, or some may no longer be available.

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. You may order these attachments at most Sears retail stores, catalog sales offices, and through the catalog.

LAWN SWEEPERS let you collect grass clippings and leaves.

Stock No.	Path	Capacity
71-24030	30-in.	9.0 cu. ft.
71-24032	32-in.	10.0 cu. ft.
71-24033 High-Performance	32 in.	11.5 cu. ft.
71-24038	38-in.	12.5 cu. ft.

LAWN VACS for powerful collections of heavy grass clippings and leaves. All accept Wand attachment to pick up debris in hard-to-reach places.

Stock No.	Engine	Capacity	Also Required
71-2455	3НР	8 bu.	71-26471 chute
71-2452	3HP	12 bu.	71-26471 chute
71-2447	5HP	25bu.	71-24474 chute

CARTS make hauling easy.

Stock No.	Size	Capacity	
71-24353	4 cu. ft.	400 lb.	Dump cart
71-24354	10 cu. ft.	1,000 lb.	Hauling cart
71-24355	10 cu. ft.	1,000 lb.	Dump cart
71-24356	14 cu. ft.	1,250 lb.	Dump cart
71-24357	17 cu. ft.	1,500 lb.	Dump cart

ROLLER for smoother lawn surface. 36-inch wide, 18 inch diameter water-tight drum holds up to 390 lb. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum. Stock number 71-24084.

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

- 71-24194 Drop type, 36 inch. 12 in, semi-pneumatic wheels. 100 lb. capcity steel hopper.
- 71-24394 Broadcasts over a 5 to 8 foot swath. 70 lb. capacity steel hopper. Noncorrosive spreading spinner, nylon gear box, stainless steel shaft.
- 71-24395 Broadcasts 8 to 10 foot swath. 160 lb. capacity.(covers 40,000sq. ft.)No-rust polypropylene hopper and impeller. Vinyl hopper cover.
- 71-2416 Broadcasts 6 to 8 foot swath. 50 lb. capacity. Corrosion-resistant construction. Polyethylene hopper.

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. Stock number 71-24351

AERATOR promotes deep root growth for a healthy lawn. Tapered 2.5" steel spikes mounted on 10-in. diameter discs puncture holes in soil at close intervals to let moisture soak it. Steel weight tray for increased penetration. Stock number 71-2435.

DETHATCHER loosens and flips thatch and matted leaves to lawn surface for easy pick up. Twenty spring tine teeth. Useful to prepare bare areas for reseeding. 40 inch rear mount: Stock number 71-24313. 38 inch front mount: Stock number 71-24301.

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

- 71-2458 50 psi maximum pressure with 25 foot wand length. Sprays up to 25 feet with wand.
- 71-24398 25 psi maximum pressure with 18 foot wand length. Sprays up to 18 feet with wand.

DOZER BLADE removes snow; grades dirt, sand and gravel. 48 inches wide, 17 inches high, clears 44 inch path when angled. Master lift controle lever for operator ease. Spring trip for snow removal on uneven pavement; built - in float for blade to follow ground contour. Reversible, replaceable scraper bar. (Use with tire chains, wheel weights or rear drawbar weight). Stock No. 71-244010

NOWTHROWER has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with mple pin arangement. Discharge chute adjusts to 240 degree arc from tractor seat. 6-inch diameter spout discharges now 10 to 50 ft. Lift controlled at tractor seat. (Use with tire chains, wheel weights, or rear drawbar weight). Stock No. 1-24077.

IRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction. Stock No. 1-26945.

/HEEL WEIGHTS provide stability, reduce tearing of turf when moving on hills, stopping, turning, starting. Provides tra weight for traction to pull low-loads, lawn vac. Required for snow removal. For plowing: one in front frame, one in the pht rear tire, two on left rear tire. For snow blower or dozer blade: one on right rear tire, one on left rear tire. 55 pounds. tock No. 71-26234. (Front or rear mounting frame bracket Stock No. 71-244360 OR 262235).

HEVRON TIRES for extra traction. Pair of rear tires mounted on wheels. Stock No. 71-24166.

RACTOR CAB has heavy duty vinyl fabric over tubular steel frame, fiberglass top; clear plastic windshield offers 360 agree visibility. Hinged metal frame doors with catch. Keeps operator warm and dry. Remove vinyl and windshield for as sun protector in summer. Stock No. 71-24172

ptional accessories for tractor cab: tinted/tempered solid safety glass wind shied with hand operated wiper (Stock No. 1-26168); 12-volt amber caution light for mounting on cab top (Stock No. 71-26169).

RACTOR COVER protects tractor from weather. Made of Evolution 3 fabric (water-repellent, extremely breathable, light eight, soft, non-abrasive, pliable in all temperatures, durable, stain-tear-puncture resistant, will not shrink or stretch). lock No. 71-24602.

TILLER has 8hp engine to prepare seed beds, cultivate and compost garden residue. Chain- drive transmission. Six 11 ch dia., one piece heat-treated steel tines. Tills 30 inch path. (Requires sleeve hitch Stock No. 71-25231.) Stock No. 1-25249.

'LOW turns soil 6 inches deep, cuts 10 inch furrow. Crank adjustment controls depth, 3-position yoke sets width. Heavy eel landslide for straight forrowing. Stock No. 71-24233.

JISC HARROW has 2 gangs of 4 steel blades that angle from 10 to 20 degrees 40 inches wide. Can hook 2 units in ndem. Stock No. 71-24234.

IEAR GRADER/LEVELER BLADE is 42-inches wide operated from driver's seat. Reversible steel blade can be angled 30 degrees for grading. Reverses for snow plowing. Stock No. 71-24239.

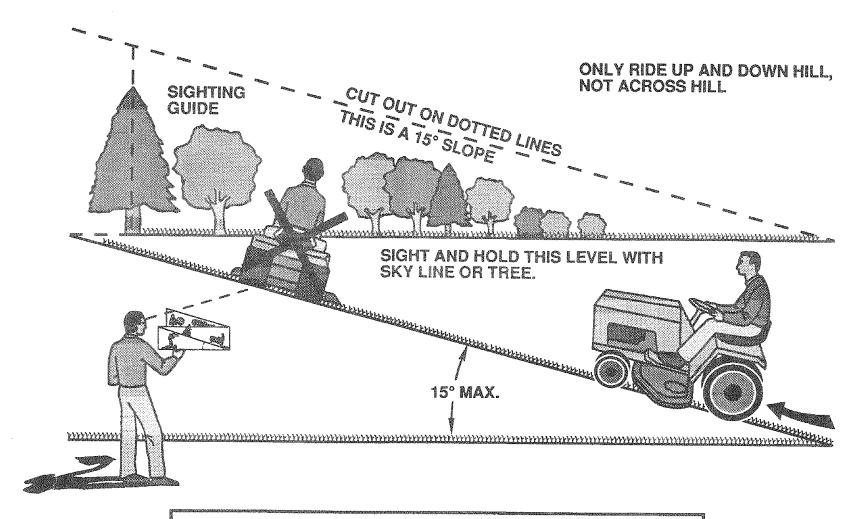
LEEVE CULTIVATOR is 43 inches wide. Prepares ground for seeding, helps weed control. Steel frame holds 5 ljustable sweeps. Adjusts vertically, horizontally, Stock No. 71-25304. Optional accessory for cultivator: steel forrow ener for wider for wide openings for potatoes, corn, and other deep seeded crops (Stock No. 71-25305).

EIGHT BRACKET for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applicans. Uses (1) 55 lb. weight - number 71-244360.

sterisked attachments require sleeve hitch (Stock No. 71-24235) for use with master lift system. Single pin couples/

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. 917.254450 AND 917.250020 WITHOUT MOWER DECK

HOW TO ORDER REPAIR PARTS

CRAFTSMAN® 18.0 HP TWIN IC ELECTRIC START 44''MOWER DECK 6 SPEED TRANSAXLE GARDEN 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.

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

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT 18 H.P. GARDEN TRACTOR
- MODEL NUMBER 917,254450
- ENGINE MODEL NUMBER -422707, TYPE NUMBER 1227-01
- PART NUMBER
- PART DESCRIPTION

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians... professional technicians specifically trained to insure that we meet our pledge to you, we service what we sell.

Sears, Roebuck and Co., Chicago, IL 60684 U.S.A.