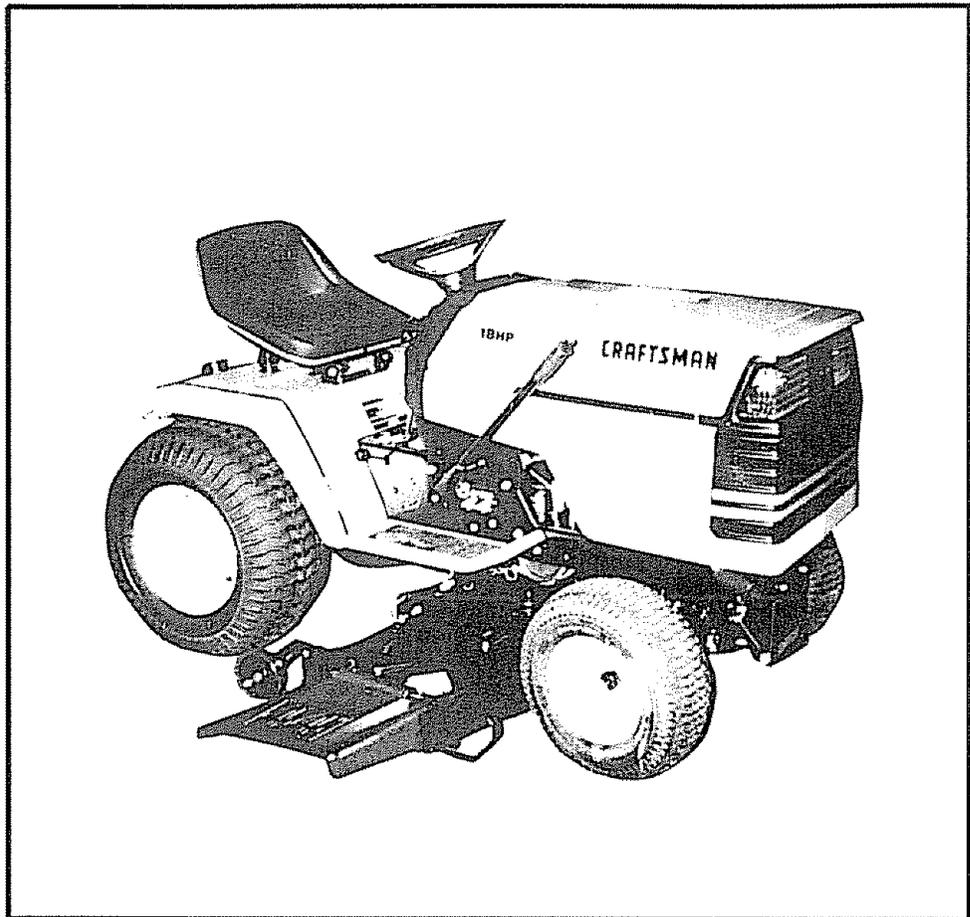


**SEARS**

**OWNER'S  
MANUAL**

**MODEL NO.  
917.255930**

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



**CRAFTSMAN<sup>®</sup>**

**18.0 HP IC  
ELECTRIC START  
44" MOWER  
6 SPEED  
GARDEN TRACTOR**

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

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

# SAFETY RULES



**CAUTION: ALWAYS DISCONNECT SPARK PLUG WIRE AND PLACE WIRE WHERE IT CANNOT CONTACT SPARK PLUG TO PREVENT ACCIDENTAL STARTING WHEN SETTING-UP, TRANSPORTING, ADJUSTING OR MAKING REPAIRS.**



## IMPORTANT

**SAFETY STANDARDS REQUIRE OPERATOR PRESENCE CONTROLS TO MINIMIZE THE RISK OF INJURY. YOUR UNIT IS EQUIPPED WITH SUCH CONTROLS. DO NOT ATTEMPT TO DEFEAT THE FUNCTION OF THE OPERATOR PRESENCE CONTROLS UNDER ANY CIRCUMSTANCES.**

### TRAINING:

- 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.
- Do not attempt to operate your vehicle or mower when not in the driver's seat.
- Always get on or off your vehicle from the operator's left hand side.
- 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.

### PREPARATION:

- Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
- 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.
- Handle gasoline with care - it is highly flammable.
  - Use approved gasoline containers.
  - 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.
- Do not operate the mower without the entire grass catcher, on mowers so equipped, or the deflector shield in place.

### OPERATION:

- Keep your eyes and mind on your vehicle, mower, and the area being cut. Do not let other interests distract you.
- Disengage power to attachments and stop the engine before leaving the operator's position.
- 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.
- Disengage power to attachments when transporting or not in use.
- 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.
- 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.
- 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 gearshift 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 vehicle or mower into or over any foreign objects.
- Never shift gears until vehicle comes to a stop.
- Never place hands or feet under the mower, in discharge chute, or near any moving parts while vehicle or mower is running. Always keep clear of discharge chute.
- Use care when pulling loads or using heavy equipment.
  - Use only approved drawbar hitch points.
  - 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.
- 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.
- 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 change the engine governor settings or overspeed the engine; severe damage or injury may result.
- When using the vehicle with mower, proceed as follows:
  - Mow only in daylight or in good artificial light.
  - Shut the engine off when unclogging chute.
  - Check the blade mounting bolts for proper tightness at frequent intervals.
- 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.

### MAINTENANCE AND STORAGE

- 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.
- 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.
- 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.
- 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.



**LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS - ATTENTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.**

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

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

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

MODEL NUMBER	917.255930
SERIAL NUMBER	_____
DATE OF PURCHASE	_____
THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT.	
YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.	

## PRODUCT SPECIFICATIONS

HORSEPOWER:	18 0															
GASOLINE CAPACITY:	3.5 GALLONS UNLEADED REGULAR															
OIL (3.0 PINTS)	SAE 30 (or 10W-30) WINTER: SAE 5W-30															
SPARK PLUG (GAP .030 IN.):	CHAMPION RJ-19LM															
VALVE CLEARANCE:	INTAKE .004 - .006 IN. EXHAUST .007 - .009 IN.															
GROUND SPEED:	(MPH): <table border="1"> <tr> <td></td> <td>LO</td> <td>HI</td> </tr> <tr> <td>1st</td> <td>.8</td> <td>1.8</td> </tr> <tr> <td>2nd</td> <td>1.4</td> <td>3.4</td> </tr> <tr> <td>3rd</td> <td>2.4</td> <td>5.5</td> </tr> <tr> <td>Rev.</td> <td>.9</td> <td>2.1</td> </tr> </table>		LO	HI	1st	.8	1.8	2nd	1.4	3.4	3rd	2.4	5.5	Rev.	.9	2.1
	LO	HI														
1st	.8	1.8														
2nd	1.4	3.4														
3rd	2.4	5.5														
Rev.	.9	2.1														
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI															
CHARGING SYSTEM:	TRI CIRCUIT															
BLADE BOLT TORQUE:	30-35 FT. LBS.															

## MAINTENANCE AGREEMENT

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

## CUSTOMER RESPONSIBILITIES

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

**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 state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

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

## 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 instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

This Warranty does not cover:

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

## FULL 90 DAY WARRANTY ON BATTERY

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

WARRANTY SERVICE IS AVAILABLE BY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT 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 vary from state to state

SEARS, ROEBUCK AND CO., D/731CR-W SEARS TOWER, CHICAGO, IL. 60684

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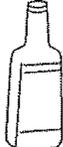
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# ACCESSORIES AND ATTACHMENTS

These accessories and attachments were available when the unit was purchased. They are also available at most Sears retail outlets, catalog and service centers. Most Sears stores can order these items for you when you provide the model number of your tractor.

## ENGINE

SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER
					

## MAINTENANCE

BLADES	BELTS
	

## PERFORMANCE

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

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.

**LAWN SWEEPERS** let you collect grass clippings and leaves.

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

**CARTS** make hauling easy. Variety of sizes available.

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

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

**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.

**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 in. Steel weight tray for increased penetration.

**DETHATCHER** loosens soil and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring tine teeth. Useful to prepare bare areas for seeding. Available for front or rear mounting.

**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.

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

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

**WHEEL WEIGHTS** for rear wheels provide needed traction for snow removal or dozing heavy materials. (55 lbs. each.)

**TRACTOR CAB** has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl and windshields for use as sun protector in summer.

**Optional accessories for tractor cab:** tinted/tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top

**TRACTOR COVER** protects tractor from weather. Made of Evolution 3 fabric (water-repellent, extremely breathable, light weight, soft, non-abrasive, pliable in all temperatures, durable, stain/tear/puncture resistant, will not shrink or stretch).

**TILLER** has 8hp engine to prepare seed beds, cultivate and compost garden residue. Chain-drive transmission. Six 11-inch diameter one piece heat-treated steel tines. Tills 30-inch path. (Requires sleeve hitch.)

**DOZER BLADE** removes snow; grades dirt, sand and gravel. 48 inches wide, 17 inches high, clears 44-inch path when angled. Master lift control 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.)

**REAR BLADE** is 42-inches wide and operated from driver's seat. Reversible steel blade can be angled at 30 degrees for grading. Reverses for snow plowing. (Requires sleeve hitch.)

**SLEEVE CULTIVATOR** is 43-inches wide. Prepares ground for seeding, helps weed control. Steel frame holds 5 adjustable sweeps. Adjusts vertically, horizontally. (Requires sleeve hitch.) Optional accessory for cultivator: steel furrow opener for wider openings for potatoes, corn, and other deep-seeded crops.

**PLOW** turns soil 6 inches deep, cuts 10-inch furrow. Crank adjustment controls depth, 3-position yoke sets width. Heavy steel landslide for straight furrowing. (Requires sleeve hitch.)

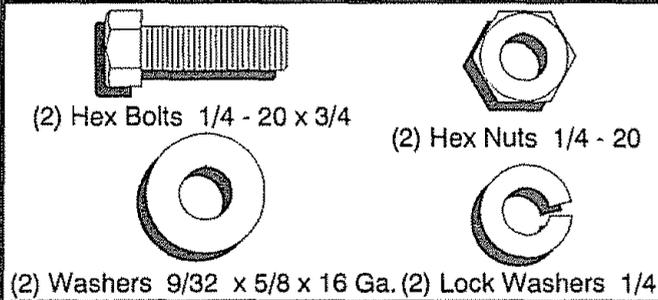
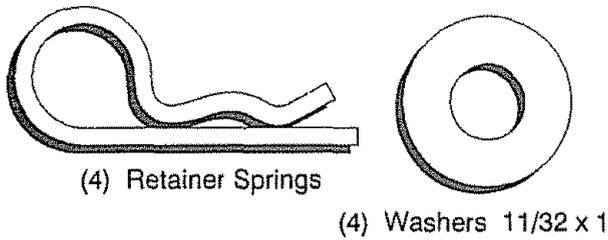
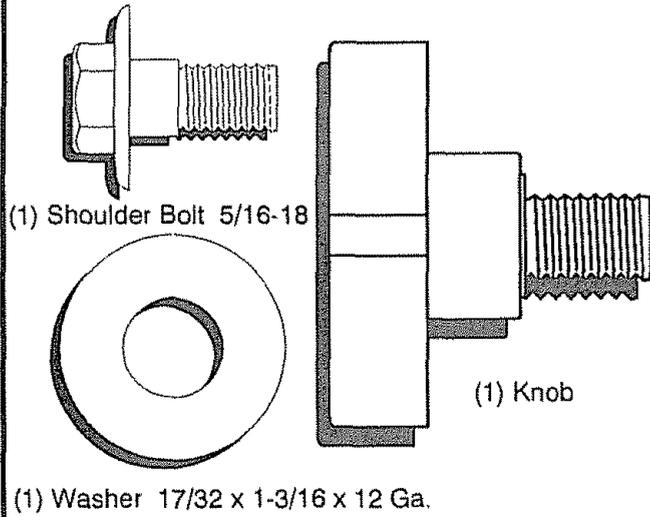
**DISC HARROW** has 2 gangs of 4 steel blades that angle from 10 to 20 degrees, 40-inches wide. Can hook 2 units in tandem. (Requires sleeve hitch.)

**WEIGHT BRACKET** for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applications. Uses (1) 55 lb. weight.

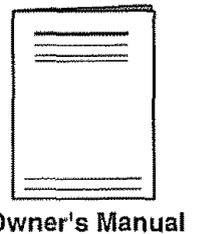
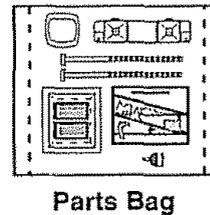
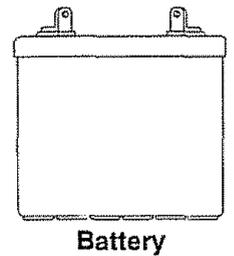
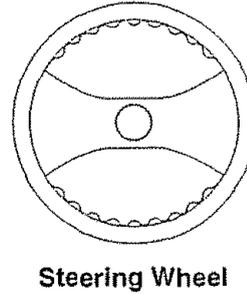
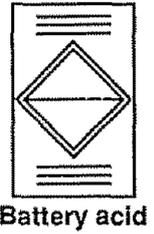
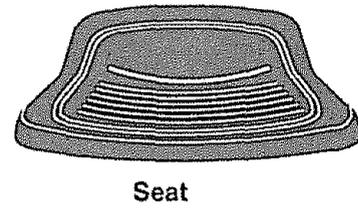
**SLEEVE HITCH** for use with master lift system. Single pin couples/uncouples.

# CONTENTS OF HARDWARE PACK

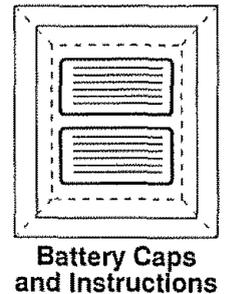
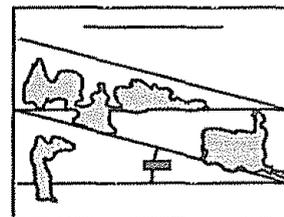
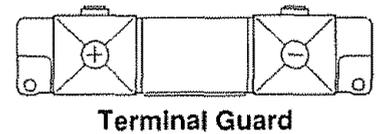
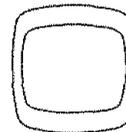
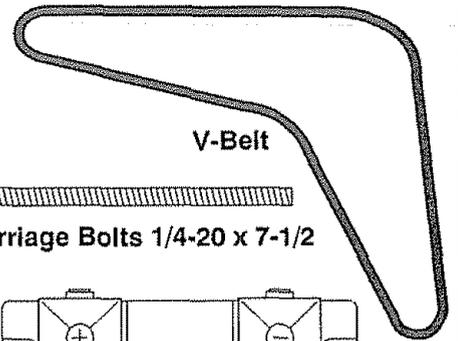
## Parts Bag contents shown full size



## Parts packed separately in carton



## Parts bag contents not shown full size



# ASSEMBLY

## TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench
- (1) Tire pressure gauge
- (2) 7/16" wrenches
- (1) Utility knife
- (1) Adjustable wrench

When right and left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

## TO REMOVE UNIT FROM CARTON

### UNPACK CARTON

- Remove all accessible loose parts from carton (See page 6).
- Cut along dotted lines on the carton, from top to bottom, all four corners of carton and lay panels flat.
- Remove mower deck from skid.
- Check for any additional loose parts or cartons and remove.

### ATTACH STEERING WHEEL (See Fig. 1)

- Remove hex bolt, lock washer and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Secure steering wheel to steering shaft with hex bolt, lock washer and large flat washer previously removed. Tighten securely.
- Snap insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.

### BEFORE ROLLING UNIT OFF SKID (See Fig. 2)

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

- Raise attachment lift lever to its highest position.
- Place gearshift lever in "NEUTRAL" position.
- Release parking brake by depressing clutch/brake pedal.
- Roll unit backwards off skid.

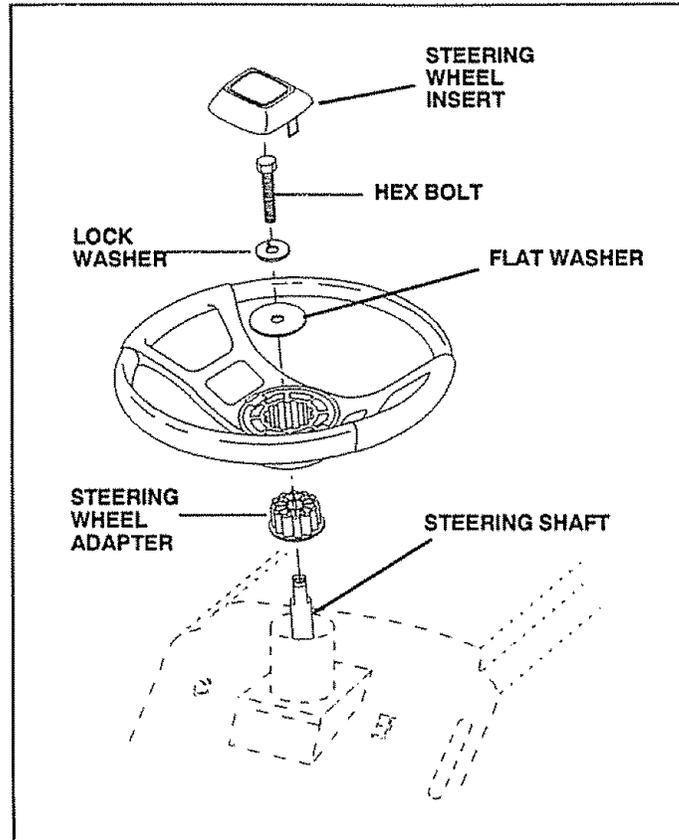


FIG. 1

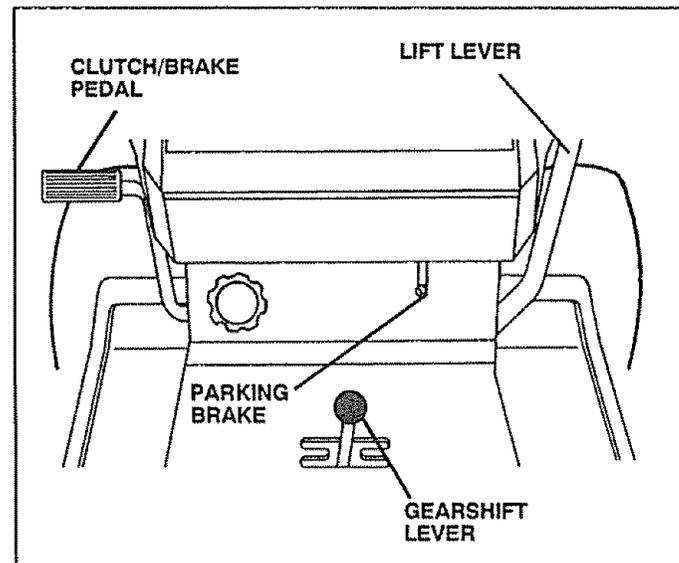


FIG. 2

# ASSEMBLY

## HOW TO SET UP YOUR TRACTOR PREPARE BATTERY (See Fig. 3)



**CAUTION: Wear eye and face shield.**  
Wash hands or clothing immediately if accidentally in contact with battery acid.  
Do not smoke. Fumes from charged battery acid are explosive.  
Read the instructions included with the battery vent caps. Always wear gloves, clothing and goggles to protect your hands, skin and eyes.

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

- See instructions packed with vent caps in parts bag.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- Allow battery to stand and settle for at least thirty minutes. After standing, check the level of acid. If below the vent wells, add more acid until the correct level is reached.

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

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

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

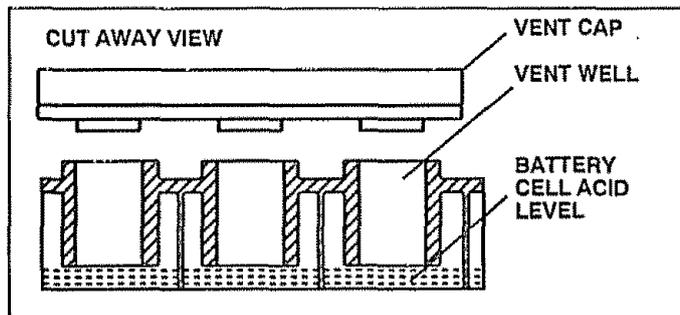


FIG. 3

## INSTALL SEAT (See Fig. 4)

Adjust seat before tightening adjustment knob.

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

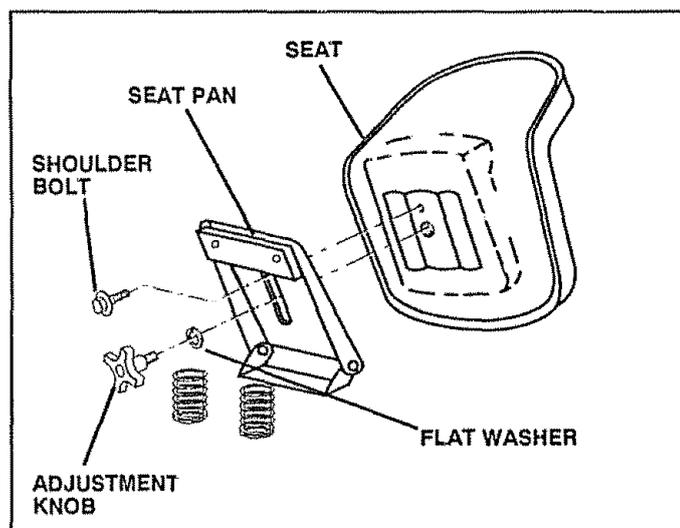


FIG. 4

## CHECK TIRE PRESSURE

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

- Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

## CHECK BRAKE SYSTEM

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

# ASSEMBLY

## INSTALL MOWER AND DRIVE BELT

Your unit has been shipped with the front mower suspension bracket banded to the frame. Remove bands and pivot bracket downward.

### MOWER INSTALLATION (See Figs. 5, 6, 7 and 8)

- Remove banding from suspension arms and gauge wheels. Set gauge wheels aside for later assembly.
- Slide mower under tractor with discharge guard to right side of tractor.
- Slide front suspension brackets into mower brackets. Retain with release pins. Turn depth adjustment knob counterclockwise until it stops. Lower mower linkage with attachment lift lever.
- Slide studs through lift links on both sides of tractor. Retain with washers and retainer springs.
- Place the suspension arms on brackets on both sides of frame. Retain with washers and retainer springs.
- Place suspension arms in rear suspension brackets. Retain with release pins.
- Turn depth adjustment knob clockwise to remove slack from mower suspension.
- Insert gauge wheel bar into bracket. Retain with clevis pins and retainer springs.

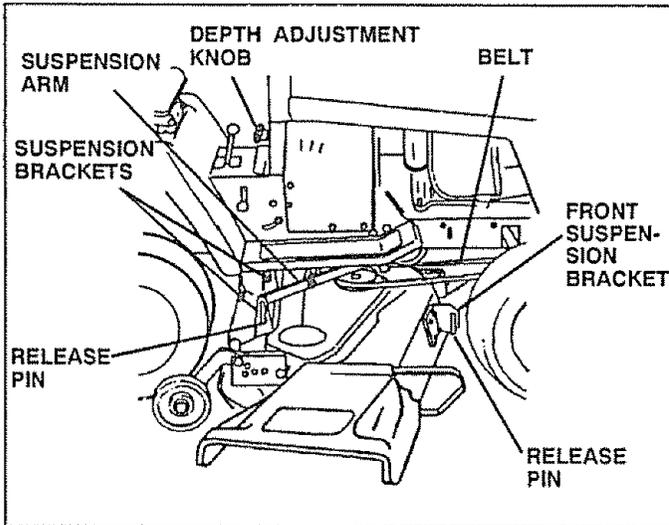


FIG. 5

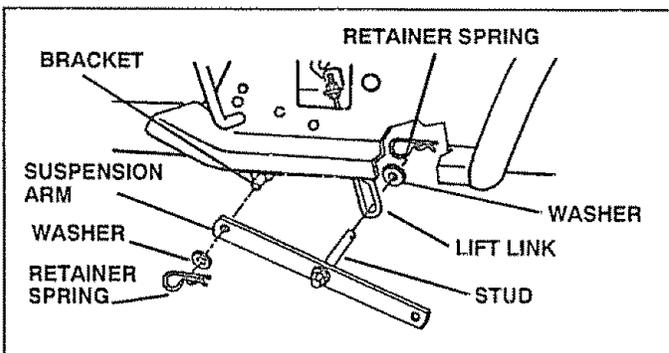


FIG. 6

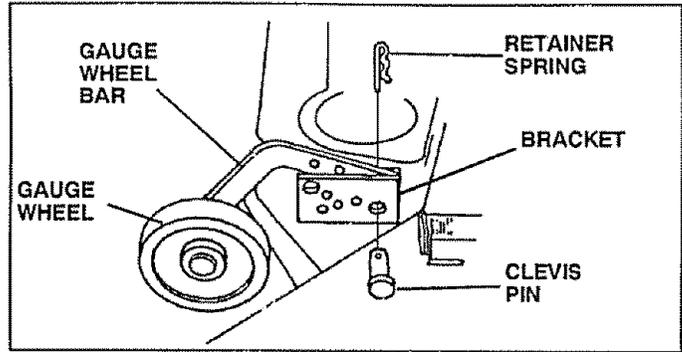


FIG. 7

### DRIVE BELT INSTALLATION (See Figs. 8 and 9)

- Remove hood and grill (See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments sections of this manual).
- Roll mower drive belt over primary mandrel.
- Roll mower drive belt forward over front mower suspension bracket.
- Place mower drive belt over clutch pulley on engine and under idler pulley and tension pulley.
- Replace hood and grill assembly.

**NOTE:** Pull tension pulley lever forward for belt clearance. Make sure narrow "V" side of belt is engaged with each pulley, and push tension pulley lever back to operating position.

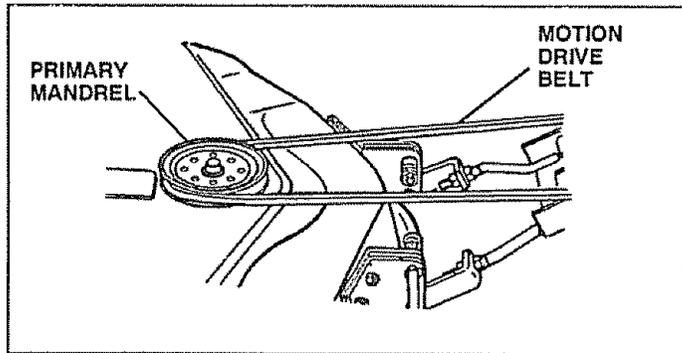


FIG. 8

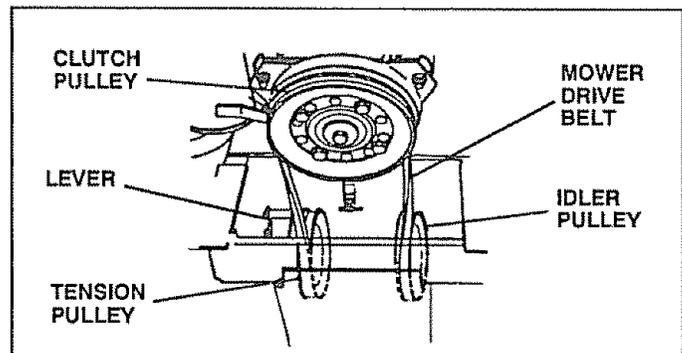


FIG. 9

### CHECK DECK LEVELNESS

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

# ASSEMBLY

## CHECK FOR PROPER POSITION OF ALL BELTS

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

## INSTALL BATTERY (See Figs. 10 & 11)



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

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

- Raise hood.
- Make sure drain tube is fastened to drain hole in battery tray and battery tray is positioned in hole of battery support.
- Place battery in plastic tray, battery terminals to front of tractor.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Slide the two battery bolts through the terminal guard and start the wing nuts onto the threads.
- Position terminal guard over the battery as shown, lower bolts into key holes and slide square shafts of bolts into slots of key holes.
- Tighten wing nuts by hand making sure battery bolts remain in slots of the key holes in the battery support.
- Be sure terminal access doors are closed.

Use terminal access doors for:

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

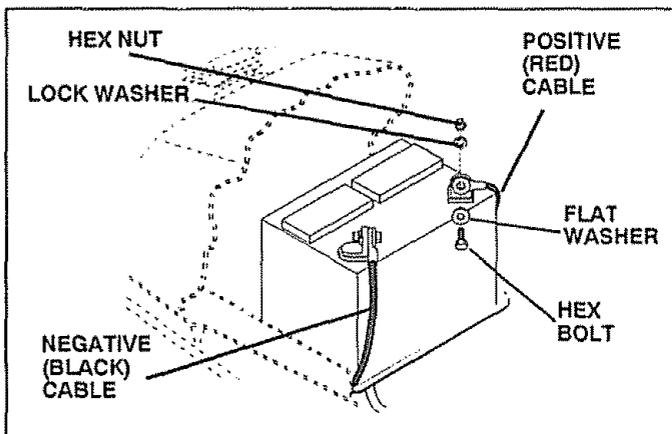


FIG. 10

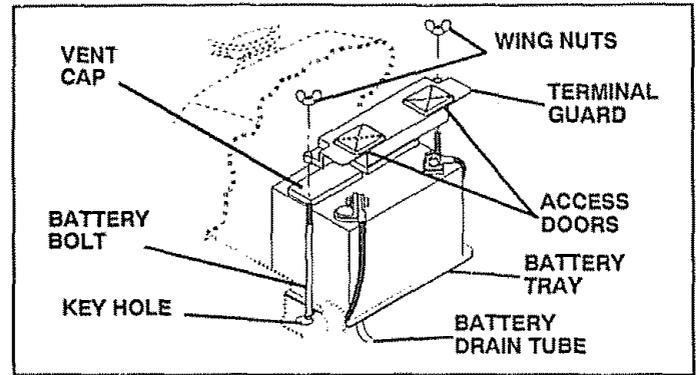


FIG. 11

## ✓ CHECKLIST

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

*PLEASE REVIEW THE FOLLOWING CHECKLIST:*

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

*WHILE LEARNING HOW TO USE YOUR LAWN RIDER, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:*

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

# OPERATION

## KNOW YOUR LAWN RIDER

### READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR LAWN RIDER.

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

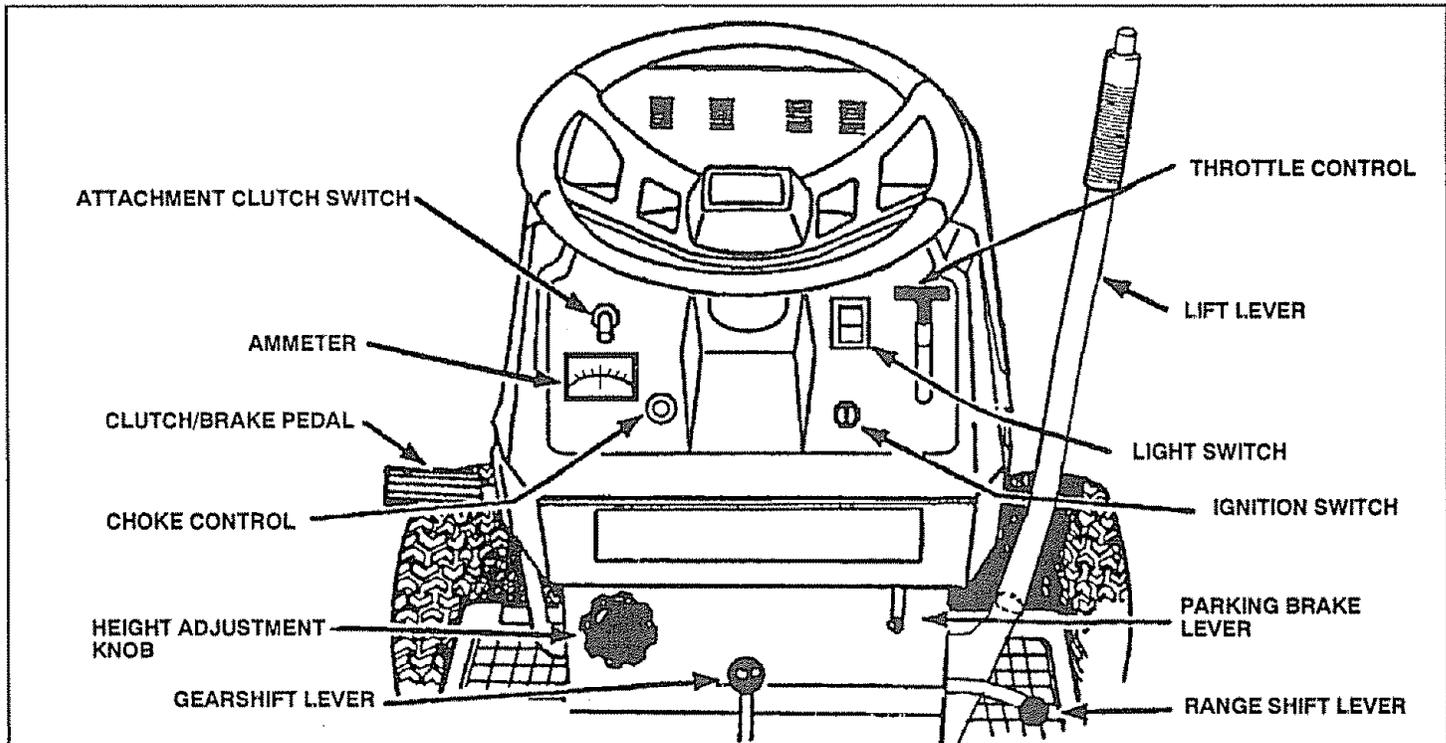


FIG. 12

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

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

**LIFT LEVER** - Used to raise and lower mower deck or other attachments mounted to your tractor.

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

**GEARSHIFT LEVER:** Selects the speed and direction of tractor.

**THROTTLE CONTROL** - Used to control engine speed.

**RANGE SHIFT LEVER** - Allows "HI" or "LO" speed for all forward and reverse gears.

**IGNITION SWITCH** - Used to start and stop the engine.

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

**LIGHT SWITCH** - Turns the headlights on and off.

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

**CHOKE CONTROL** - Used when starting a cold engine.

## ⚠ CAUTION TO AVOID INJURY

- READ OWNER'S MANUAL.
- KNOW LOCATION AND FUNCTION OF ALL CONTROLS.
- KEEP GUARDS, SAFETY SHIELDS AND SWITCHES IN PLACE AND WORKING.
- REMOVE OBJECTS THAT CAN BE THROWN BY BLADES.
- DO NOT MOW WHEN CHILDREN AND OTHERS ARE AROUND.
- NEVER CARRY CHILDREN OR PASSENGERS.
- ALWAYS LOOK BEHIND MACHINE BEFORE BACKING.
- DO NOT MOW WHERE MACHINE CAN TIP OR SLIP.
- IF MACHINE STOPS GOING UPHILL, STOP BLADE AND BACK DOWN SLOWLY.
- BE SURE BLADES AND ENGINE HAVE STOPPED BEFORE PLACING HANDS OR FEET NEAR THE BLADES.
- REMOVE KEY WHEN LEAVING MACHINE.

# OPERATION



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 moving. We recommend Wide Vision Safety Mask for over the spectacles or standard safety glasses.

## HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE (See Fig. 13)

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

## STOPPING (See Fig. 13)

### MOWER BLADES -

- Move attachment clutch switch to "DISENGAGED" position.

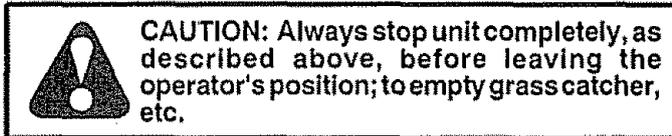
### GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to "NEUTRAL" position.

### ENGINE -

- Move Throttle Control to "SLOW" position.
- Turn ignition key to "OFF" position and remove key. Always remove key when leaving vehicle to prevent unauthorized use.
- Never use choke to stop engine.

**NOTE:** Under certain conditions when unit is standing idle with the engine running, hot engine exhaust gasses may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping unit on grass areas.



## TO USE CHOKE CONTROL (See Fig. 13)

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

- To engage choke control, pull knob out. Slowly push knob into disengage.

## TO USE THROTTLE CONTROL (See Fig. 13)

Always operate engine at full throttle.

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

## TO MOVE FORWARD AND BACKWARD (See Fig. 13)

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in "NEUTRAL" position.

- Move gearshift and range shift levers to desired position.
  - Slowly release clutch/brake pedal to start movement.
- IMPORTANT:** BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

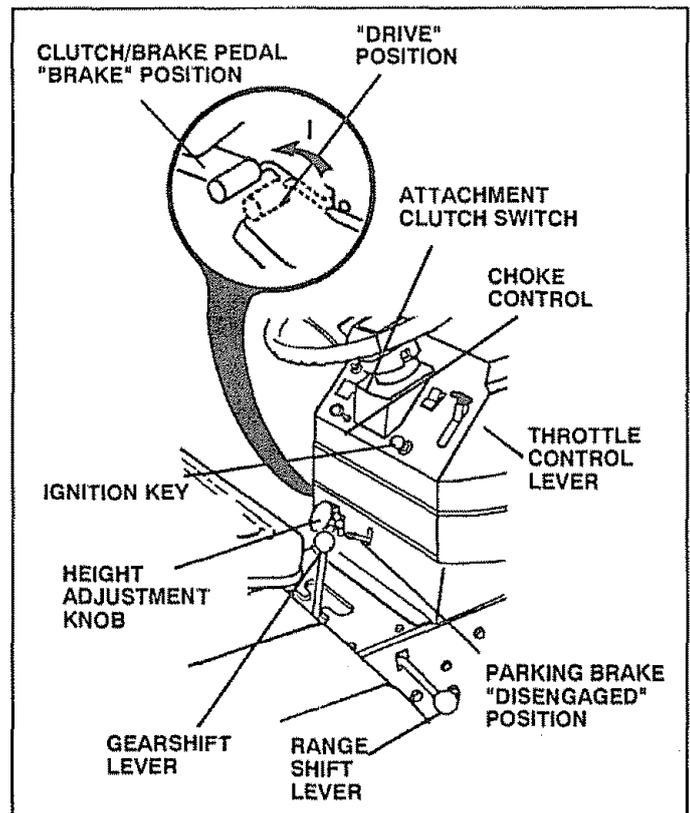


FIG. 13

## TO ADJUST MOWER CUTTING HEIGHT (See Fig. 13)

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

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

The cutting height range is approximately 1-1/4" to 3-3/4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

# OPERATION

## TO ADJUST GAUGE WHEELS (See Fig. 14 )

- Adjust mower to desired cutting height.
- Lower mower with lift control. Remove rear retainer spring and clevis pin which secure each gauge wheel.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pins. Gauge wheels should be slightly off the ground.
- Replace retainer springs into clevis pins.

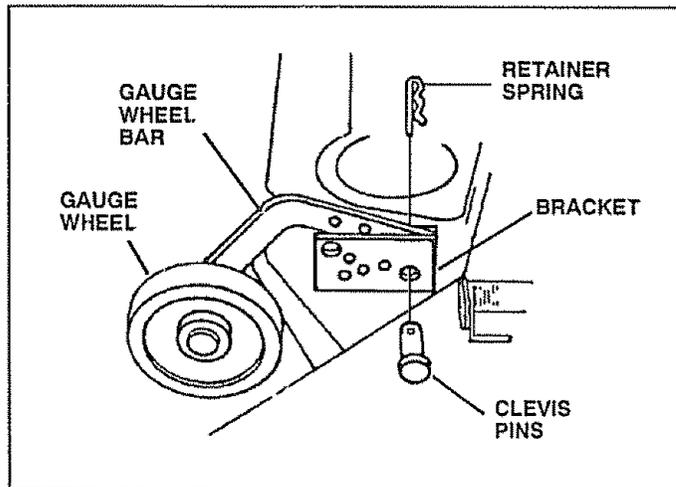


FIG. 14

## TO OPERATE MOWER (See Figs. 12 and 13)

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

- Select desired height of cut, using height adjustment knob.
- Lower mower with lift lever.
- Engage mower by slowly moving mower clutch lever to "ENGAGED" position.
- TO STOP MOWER - Move mower clutch lever to "DISENGAGED" position.



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

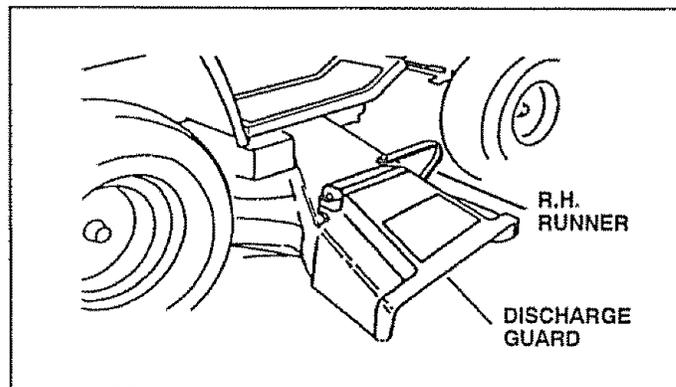


FIG. 15

## TO OPERATE ON HILLS



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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to "NEUTRAL" position.
- To restart movement, move gearshift lever to 1st gear and range shift lever to "LO" position. Be sure you have allowed room for unit to roll slightly as you restart movement.
- Slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

## TO TRANSPORT

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

## BEFORE STARTING THE ENGINE

### CHECK ENGINE OIL LEVEL (See Fig. 16)

- The engine in your unit has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with unit on level ground.
- Remove dipstick and wipe clean, replace and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (see "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

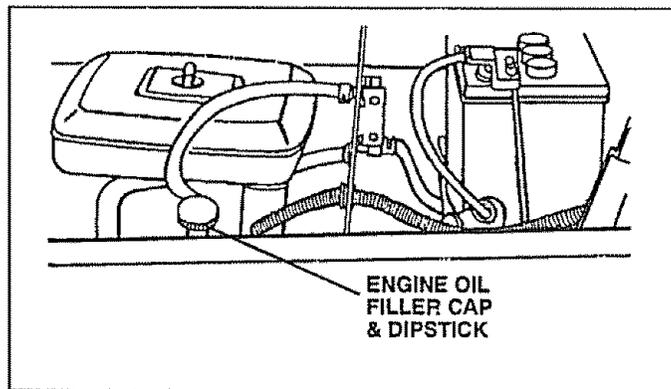


FIG. 16

# OPERATION

## ADD GASOLINE

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

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

**WARNING:** Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



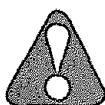
**CAUTION:** Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

## TO START ENGINE (See Fig.13)

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

- Depress the clutch/brake pedal and set the parking brake.
- Place gearshift lever in "NEUTRAL" position.
- Move attachment clutch to "DISENGAGED" position.
- Pull choke control out to "CHOKED" position for cold engine start. For warm engine start do not use choke control.
- Move throttle control to midway between "FAST" and "SLOW" positions.
- Turn ignition key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If engine does not start after several attempts, move throttle control to "FAST" position, wait a few minutes and try again.
- When engine starts, slowly push choke control in.
- Move throttle control to "FAST" position.
- Allow engine to warm up for a few minutes before engaging clutch/brake pedal or attachment clutch switch.

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



**CAUTION:** Before driving the tractor, install mower or remove front mower suspension bracket and suspension arms.

## MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to unit.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 15).
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 17).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

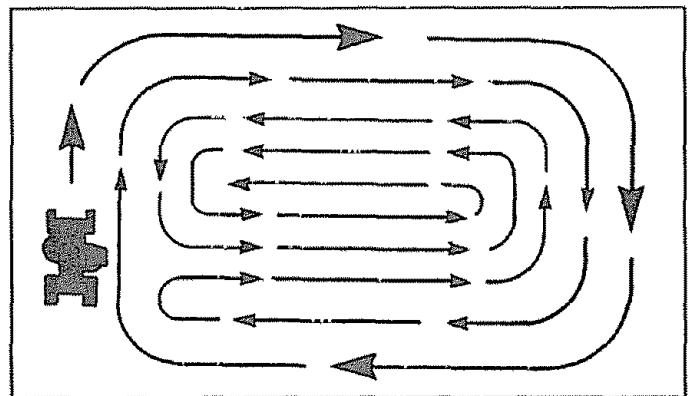


FIG. 17



# MAINTENANCE

## TRACTOR

Always observe safety rules when performing any maintenance.

## BRAKE OPERATION

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

## TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 3 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

## BLADE CARE

For best results mower blades must be kept sharp. The blades can be sharpened with a file or on a grinding wheel. We suggest they be sharpened or replaced after every 25 hours of mowing. Check blades more often if mowing in sandy conditions.

- Do not attempt to sharpen blades while they are on the mower.
- Replace bent or damaged blades.

## BLADE REMOVAL (See Fig. 18)

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

**IMPORTANT: BLADE BOLT IS GRADE 5 HEAT TREATED.**

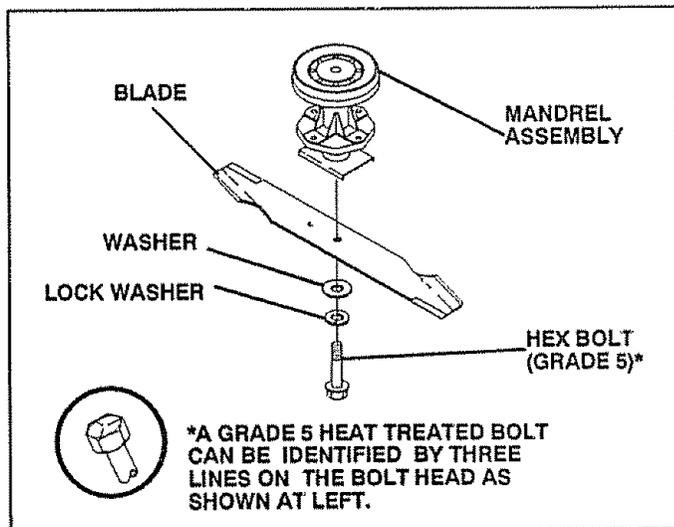


FIG. 18

## TO SHARPEN BLADE (See Fig. 19)

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

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

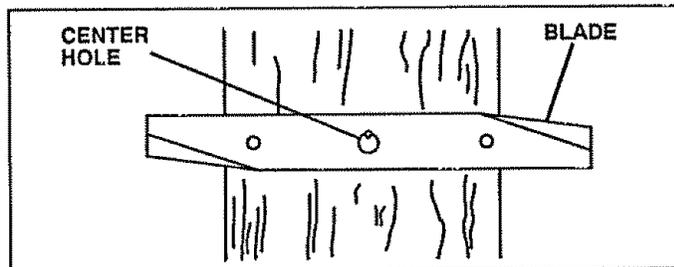


FIG. 19

## CHECK TRANSAXLE OIL LEVEL (See Fig. 20)

- Block up rear axle securely or use a tractor jack.
- Remove left rear wheel by removing hub bolts.
- Remove filler plug from transaxle. Oil level must be even with plug threads. If necessary, fill with SAE 30 oil API-SG. Replace filler plug.
- Reassemble wheel to hub.

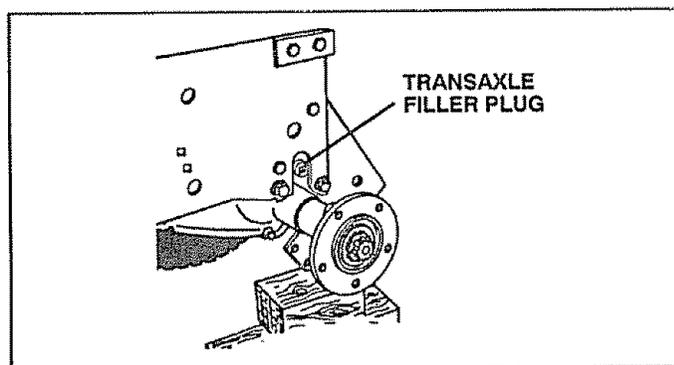


FIG. 20

# MAINTENANCE

## BATTERY (See Fig. 21)

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

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

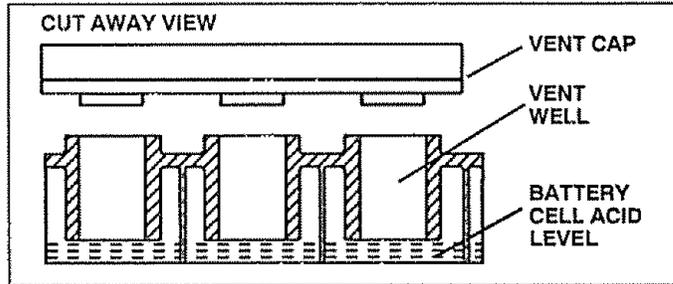


FIG. 21

## TO CLEAN BATTERY AND TERMINALS -

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

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "INSTALL BATTERY" in assembly section of this manual).

## V- BELTS

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

## TRANSAXLE COOLING

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

## ENGINE

### LUBRICATION

Change the oil after the first two hours of operation and every 25 hours thereafter or at least once a year if the tractor is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of continuous use. Add SAE 30W motor oil or equivalent. Tighten oil fill cap/dipstick securely each time you check the oil level. SAE 5W-30 motor oil may be used to make starting easier in areas where temperature is consistently 32° F or lower.

## TO CHANGE ENGINE OIL (See Figs. 22, 23 and 24)

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

- Be sure vehicle is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill dipstick. Be careful not to allow dirt to enter the engine when changing oil.

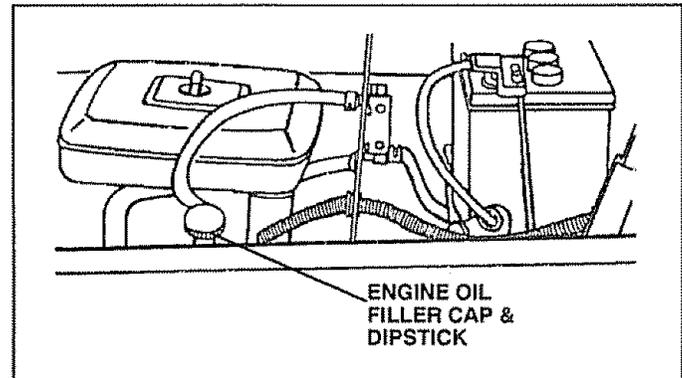


FIG. 22

- Remove drain plug.

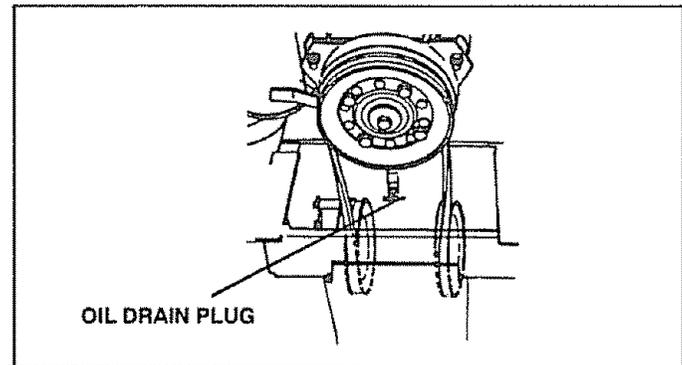


FIG. 23

- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "Product Specifications" on page 3 of this manual.
- Use gauge on oil fill dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

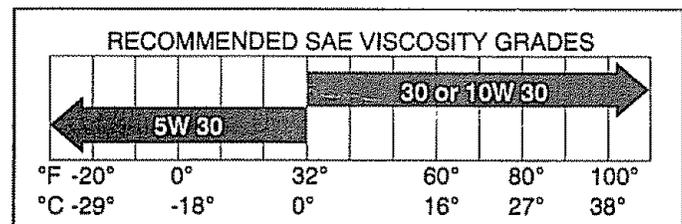


FIG. 24

# MAINTENANCE

## CLEAN AIR SCREEN (See Fig. 25)

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

## CLEAN ENGINE COOLING FINS (See Fig. 25)

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

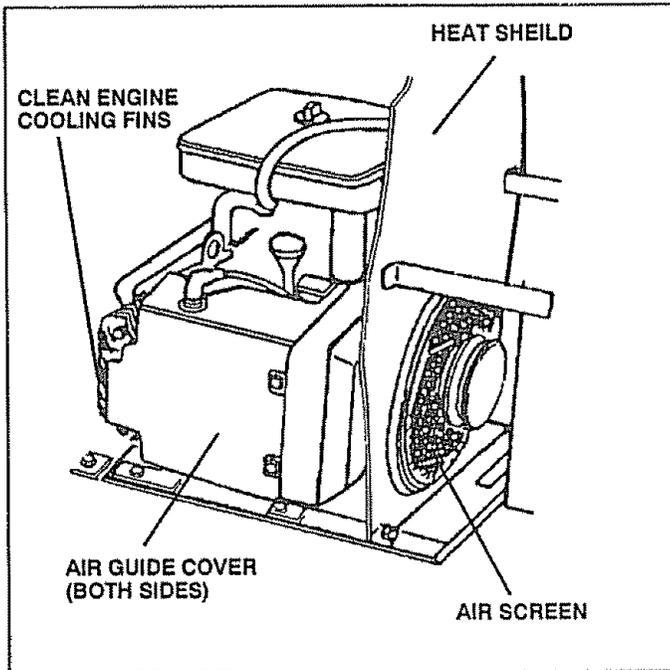


FIG. 25

## AIR FILTER FOAM PRE-CLEANER (See Fig. 26)

Your engine will not run properly and may be damaged by using a dirty air filter. Clean the foam pre-cleaner element after every 25 hours of operation, more often if tractor is used in very dusty, dirty conditions.

- Remove knobs and cover.
- Remove foam pre-cleaner by sliding it off the paper cartridge.

**NOTE:** Do not attempt to clean or oil the paper cartridge. Replace paper cartridge once a year or after every 100 hours of operation, more often if used in very dusty, dirty conditions.

- Wash foam pre-cleaner in liquid detergent and water.
- Wrap foam pre-cleaner in cloth and squeeze dry.
- Lightly coat foam pre-cleaner with clean engine oil. Squeeze in towel to remove excess oil. Do not saturate.
- Install foam pre-cleaner over paper cartridge.
- Reassemble cover and screw down tight.

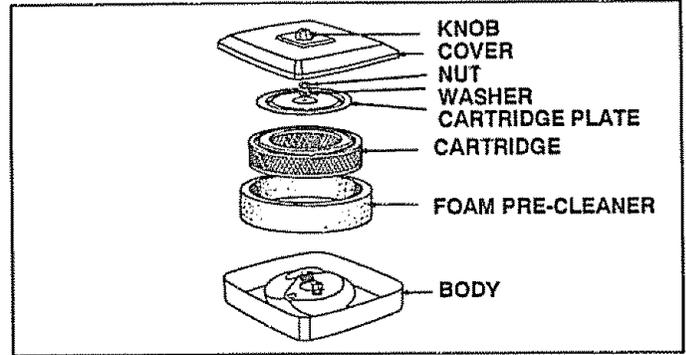


FIG. 26

## MUFFLER

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

## SPARK PLUGS

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

## IN-LINE FUEL FILTER (See Fig. 27)

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

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

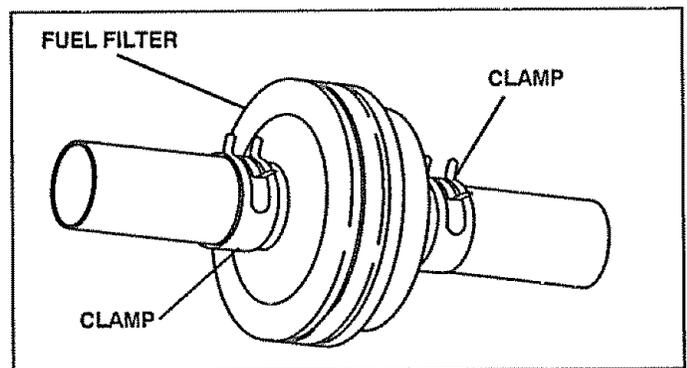


FIG. 27

## CLEANING

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

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

# SERVICE AND ADJUSTMENTS



## CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

## TRACTOR

### TO REMOVE MOWER (See Fig. 28)

- Place attachment clutch in "DISENGAGED" position.
- Turn height adjustment knob to lowest setting.
- Move attachment lift lever forward to lower mower to its lowest position.
- Pull the four (4) release pins out of suspension brackets.
- Pull back attachment lift lever and lock into place.
- Slide mower forward and remove belt from primary mandrel.
- Slide mower out from under tractor.

**IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE L.H. AND R.H. SUSPENSION ARMS AND THE FRONT SUSPENSION BRACKET**

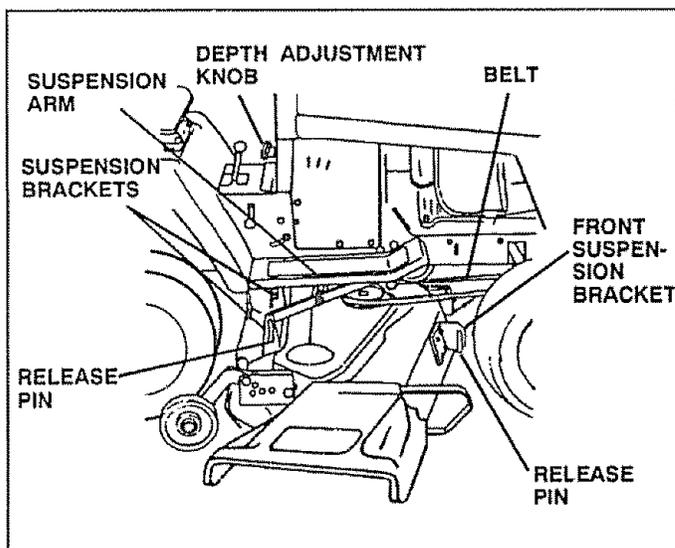


FIG. 28

### TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in Assembly section of this manual.

### TO LEVEL MOWER HOUSING

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

### SIDE-TO-SIDE ADJUSTMENT (See Figs. 29 and 30)

- Raise mower to its highest position.

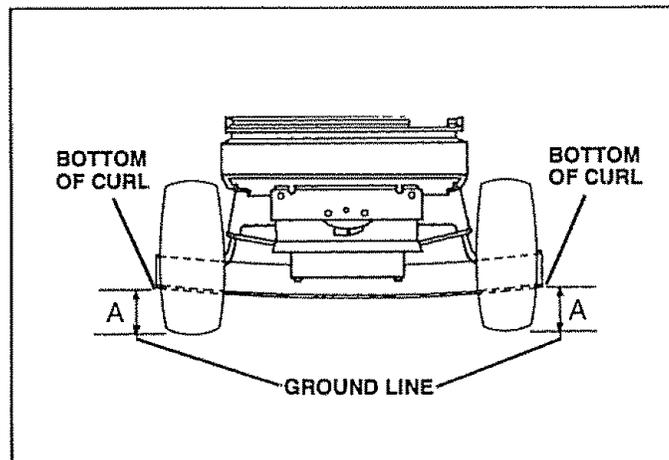


FIG. 29

- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" should be the same.
- If distance "A" needs to be changed, snap out access hole cover on left side of tractor above footrest.
- 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".
- When distance "A" is equal, securely tighten nuts "B" and "C".
- Replace access hole cover.

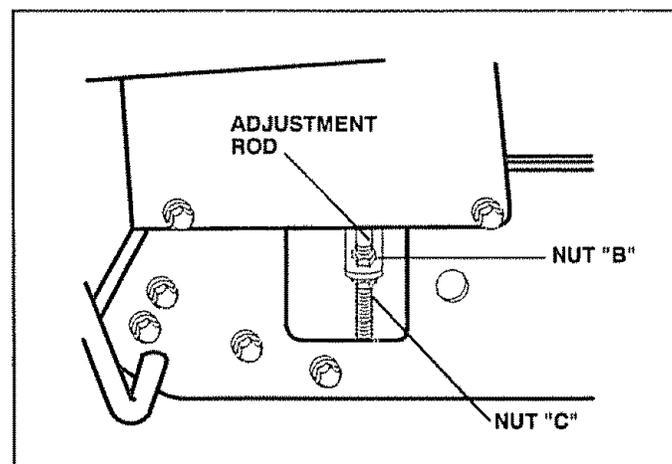


FIG. 30

# SERVICE AND ADJUSTMENTS

## FRONT-TO-BACK ADJUSTMENT (See Figs. 31 and 32)

To obtain the best cutting results, the mower housing should be adjusted so the back is approximately 7/8 to 1-1/8" higher than the front when the mower is in height adjustment position.

Measure distance "D" from ground line to bottom of deck curl at centerline outside of mandrels.

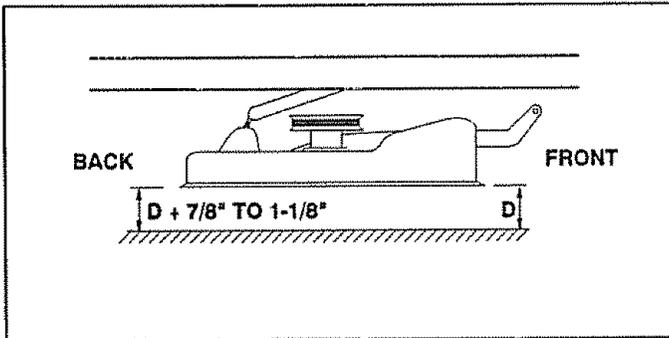


FIG. 31

- To raise rear of mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" on both rear suspension arms an equal number of turns.
- When distance "D" is 7/8" to 1-1/8" higher at rear than front, retighten nuts "E".

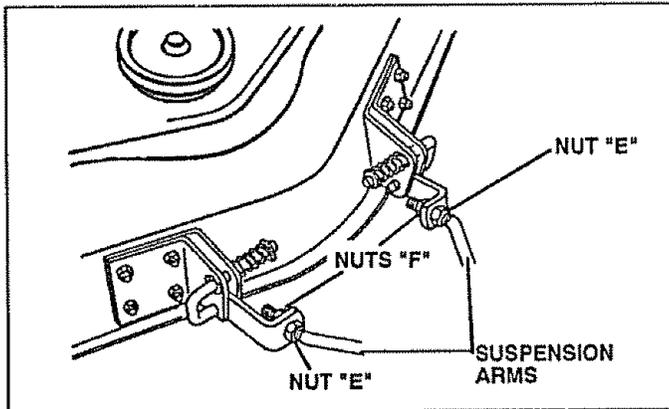


FIG. 32

- Recheck side-to-side adjustment.

**IMPORTANT:** WHEN ADJUSTING REAR SUSPENSION ARMS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

## TO ADJUST MOWER DRIVE BELT (See Fig. 33)

- Lower mower with attachment lift lever.
- Check dimension "A" on idler bracket assembly as shown. If dimension is 1/4" or less, belt should be adjusted.
- Pull tension pulley lever forward to loosen belt.
- Remove idler pulley and reassemble in "NEW" pulley position hole. Tighten securely.
- Push tension pulley lever rearward into operating position.
- Check belt for proper position in all pulley grooves.

**NOTE:** When installing a new replacement mower drive belt, idler pulley must be moved back to "ORIGINAL" pulley position.

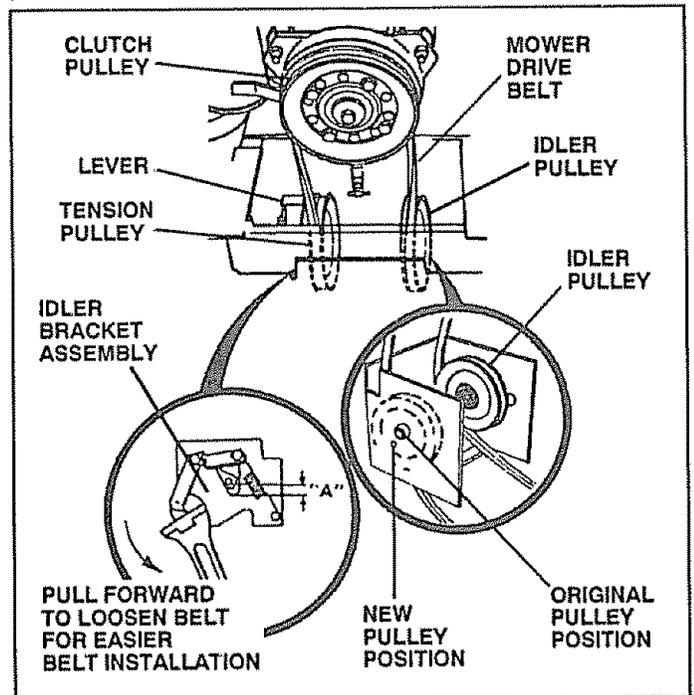


FIG. 33

## TO REPLACE MOWER DRIVE BELT

Reverse procedure and install new belt as described in "DRIVE BELT INSTALLATION" in the Assembly section of this manual.

**NOTE:** If old mower drive belt was adjusted, idler pulley must be moved back to "ORIGINAL" position when installing a new belt.

# SERVICE AND ADJUSTMENTS

## TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 34)

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on the underside of mower belt cover.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove screws and idler arm nut securing mower belt cover and remove cover.
- Roll belt over the top of the R.H. mandrel.
- Pull belt off all other mandrels.
- Remove any dirt and grass which may have accumulated on mandrels or idler arm.
- Check deck idler arm assembly and flat idler to see that they rotate freely.
- Be sure spring in deck idler arm assembly and on bolt in mower housing.
- Install new belt in groove of L.H. mandrel pulley, lower groove of center mandrel pulley and around flat idler as shown.
- From a position at discharge end of mower, roll idler belt into groove of R.H. mandrel pulley.
- Rotate center mandrel pulley by hand to make sure belt is in grooves properly.
- Reassemble top cover to deck. Tighten all screws and idler arm nut securely.
- Install mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.)

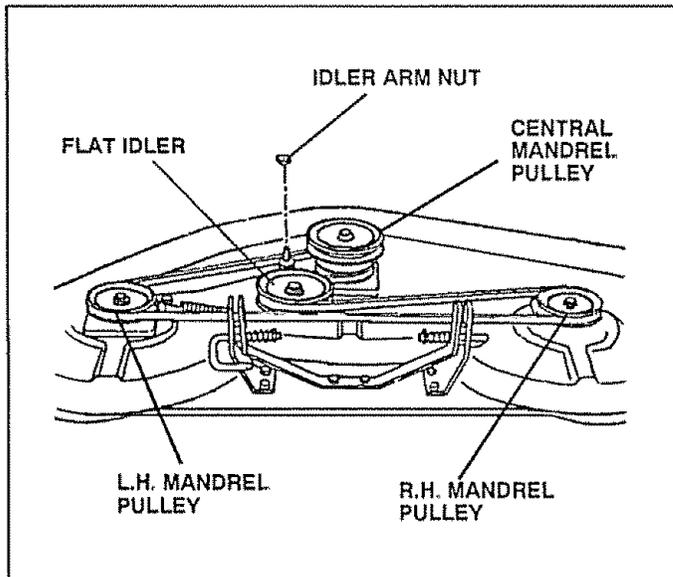


FIG. 34

## POWER TAKE OFF (CLUTCH PULLEY - See Fig. 33)

The power take-off clutch should provide years of service. The clutch incorporates a built in brake that stops the pulley almost immediately. Eventually, the internal brake will wear so the mower blades will not stop as recommended. Adjustment should be made by your nearest Authorized Service Center.

## TO ADJUST BRAKE (See Figs. 35 and 36)

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

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

- Remove four (4) hex washer head tapping screws from shift cover plate located on top of tractor frame. Remove the cover plate.
- Loosen jam nut (A) on brake rod (B) at clevis (C) (Fig. 36). If you find it difficult to loosen jam nut (A), remove cover plate in L.H. frame rail.
- Rotate brake rod (b) counterclockwise, turning brake rod out of clevis (c) four (4) to six (6) turns.
- Start tractor with transaxle in "N" (neutral) position.
- Depress clutch/brake pedal to the point where the belt stops moving. Hold clutch/brake pedal in position by engaging parking brake. If belt begins to move after engaging parking brake, depress clutch/brake pedal to next notch on parking brake.
- Shut engine off. Rotate brake rod (B) clockwise by hand, turning brake rod into clevis (C) until tight. Tighten jam nut (A) on brake rod (B) at clevis (C).
- Reinstall shift cover plate and four (4) mounting screws. If cover plate in L.H. rail was removed it should be replaced.

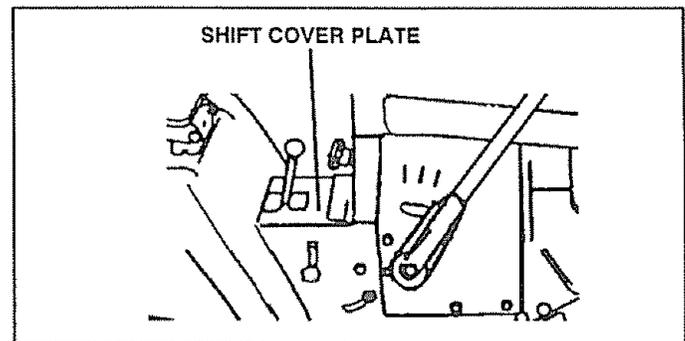


FIG. 35

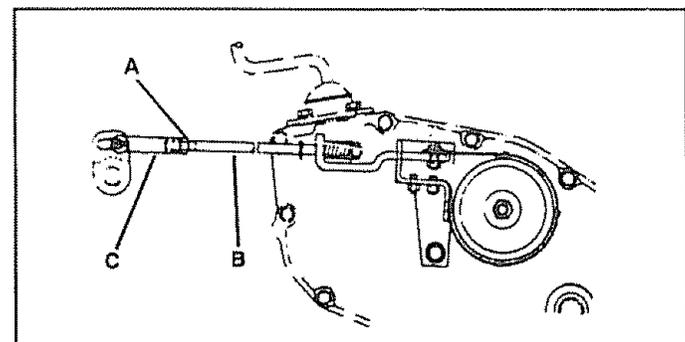


FIG. 36

# SERVICE AND ADJUSTMENTS

## TO REPLACE MOTION DRIVE BELT (See Figs. 37 and 38)

Park the tractor on level surface. Engage parking brake. For ease of service there is a belt installation guide decal on bottom side of left footrest. It is not necessary to remove mower.

### BELT REMOVAL

- Raise hood and disconnect negative ground battery cable.
- Set parking brake (to get belt slack).
- Loosen (do not remove) two (2) engine pulley belt guide bolts and swivel R.H. side of belt guide up. Tighten L.H. bolt of hold belt guide in position.
- Roll belt off engine pulley.
- Roll belt off "V" idler, flat idler and clutching idler pulleys.
- Pull belt off clutch pulley - between pulley and frame. Pull belt off transaxle pulley.

### BELT INSTALLATION

- Push belt down from engine pulley area. Place back (flat) side of belt on flat idler (flat idler is next to frame).
- Place belt on clutching idler and over clutch pulley. "V" (narrow) part of belt should engage clutch pulley.
- Place belt around transaxle pulley. "V" part of belt should engage transaxle pulley.
- Make sure "V" part of belt engages "V" idler.
- Roll belt over engine pulley.
- Loosen L.H. engine pulley belt guide bolt and swivel belt guide on to R.H. bolt. Tighten L.H. and R.H. bolts securely.
- Release parking brake.

**IMPORTANT: CHECK BRAKE ADJUSTMENT.**

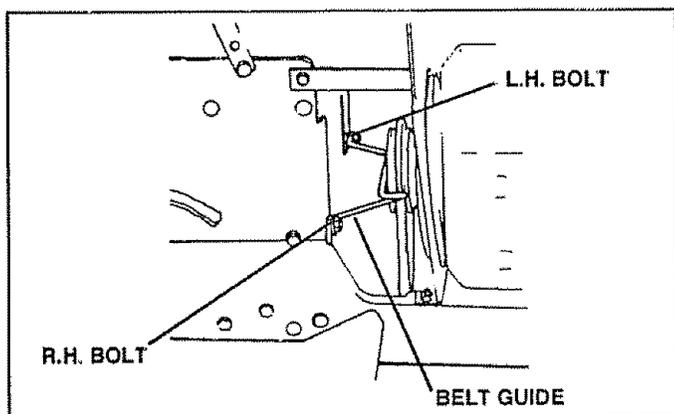


FIG. 37

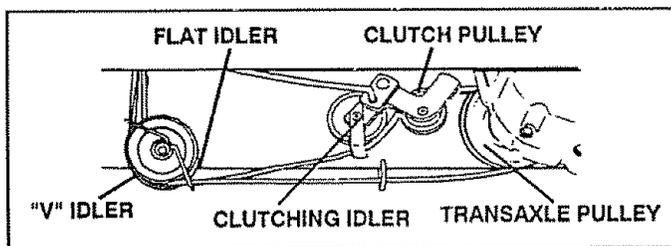


FIG. 38

## TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

## FRONT WHEEL TOE-IN ADJUSTMENT

Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

### TO CHECK TOE-IN (See Fig. 39)

- Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

### TO ADJUST TOE-IN (See Figs. 39 and 40)

It is important that both tie rods be equal in length before adjusting toe-in. Both tie rods should measure approximately 9-5/8" in length (see inset).

- Loosen jam nuts at adjustment sleeves on tie rods.
- Adjust both tie rods equally until dimension "A" is 1/8" to 1/4" less than dimension "B".
- Tighten jam nuts securely.

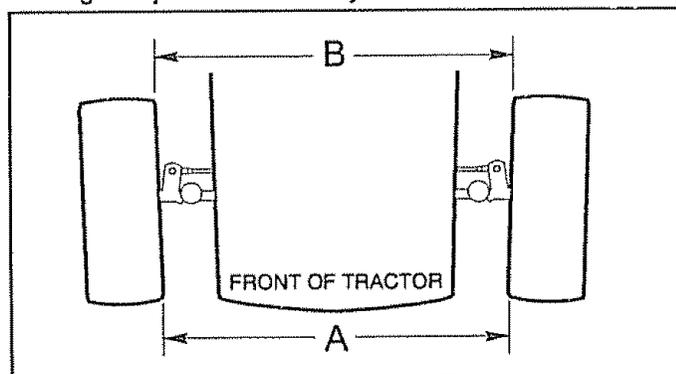


FIG. 39

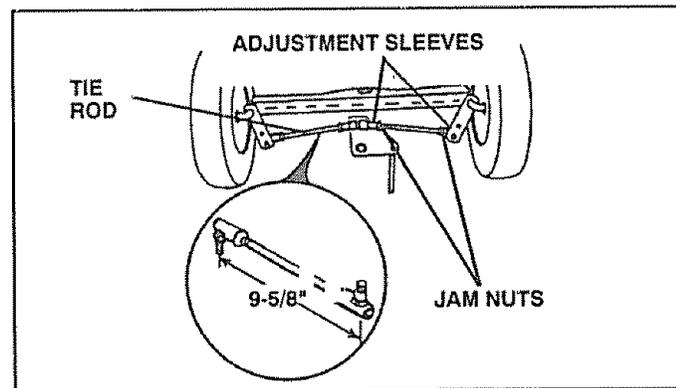


FIG. 40

## FRONT WHEEL CAMBER

The front wheel camber is not adjustable on your unit. If damage has occurred to affect the front wheel camber, contact your nearest Authorized Service Center.

# SERVICE AND ADJUSTMENTS

## TO REMOVE WHEEL FOR REPAIRS

FRONT WHEEL (See Fig. 41) -

- Block up axle securely.
- Remove hub cap, retaining ring and washers to allow wheel removal.
- Repair tire and reassemble.
- Replace washers and snap retaining ring securely in axle groove.
- Replace hub cap.

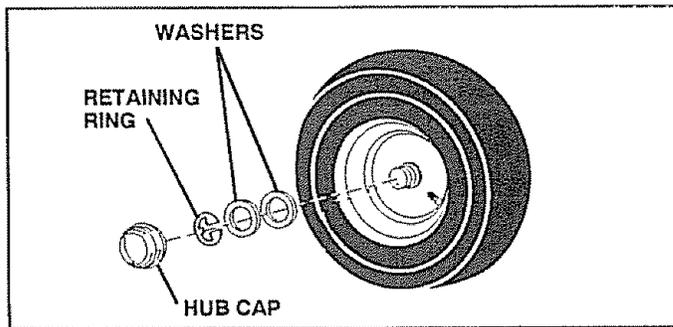


FIG. 41

REAR WHEEL -

- Block rear axle securely.
- Remove five (5) hub bolts to allow wheel removal.
- Repair tire and reassemble. Replace and tighten hub bolts securely.

## TO START ENGINE WITH A WEAK BATTERY (See Fig. 42)



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

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

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

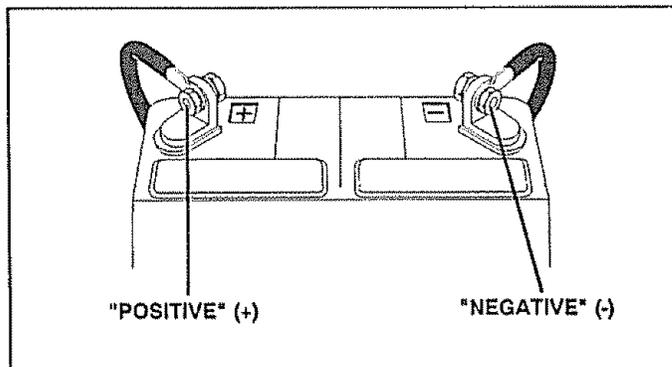


FIG. 42

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

## TO REPLACE FUSE

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

## TO REPLACE HEADLIGHT BULB

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

## TO ADJUST ATTACHMENT LIFT SPRING (See Fig. 43)

- While holding spring bushing with wrench, loosen jam nut.
- Turn adjustment bolt clockwise to extend spring and reduce lift effort (for heavier attachments).
- Turn adjustment bolt counterclockwise (for lighter attachments).
- Retighten jam nut against spring bushing.

**IMPORTANT:** DO NOT ADJUST FOR MAXIMUM SPRING TENSION WHEN USING LIGHT ATTACHMENTS SUCH AS A MOWER. ADJUST LIFT LEVER SPRING TO AID IN LIFTING ATTACHMENT. DO NOT OVERPOWER SPRING. WHEN REMOVING ATTACHMENT, ALWAYS ADJUST TO SPRING TENSION TO ITS LOWEST POSITION.

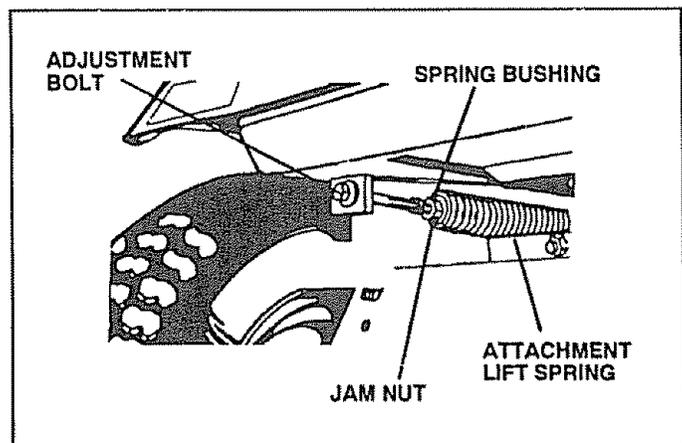


FIG. 43

# SERVICE AND ADJUSTMENTS

## TO REMOVE HOOD AND GRILL ASSEMBLY (See Figs. 44 and 45)

- Lift hood. Disconnect headlight wiring connection.
- Unscrew one screw at rear of each side panel.

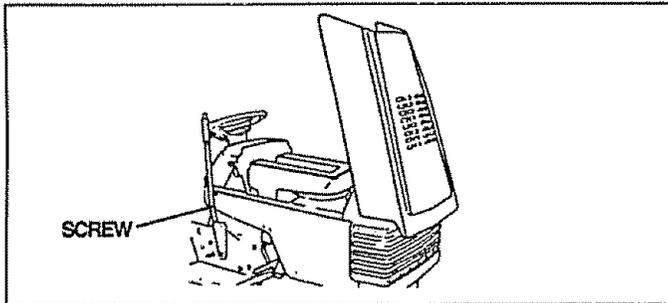


FIG. 44

- Pivot hood and side panel forward and lift off tractor.
- To replace, reverse above procedure.

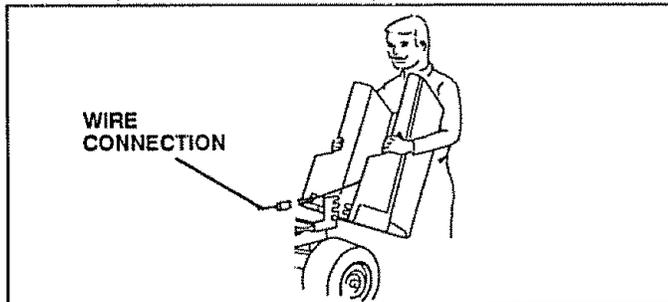


FIG. 45

## ENGINE

### TO ADJUST THROTTLE CONTROL CABLE (See Fig. 46)

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

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

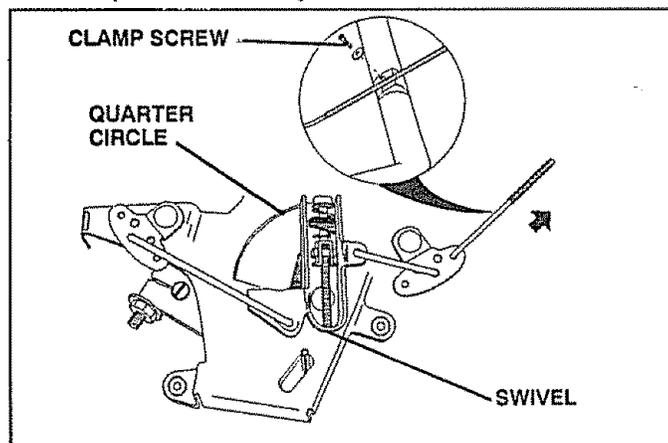


FIG. 46

### TO ADJUST CHOKE CONTROL (See Fig. 47)

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

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

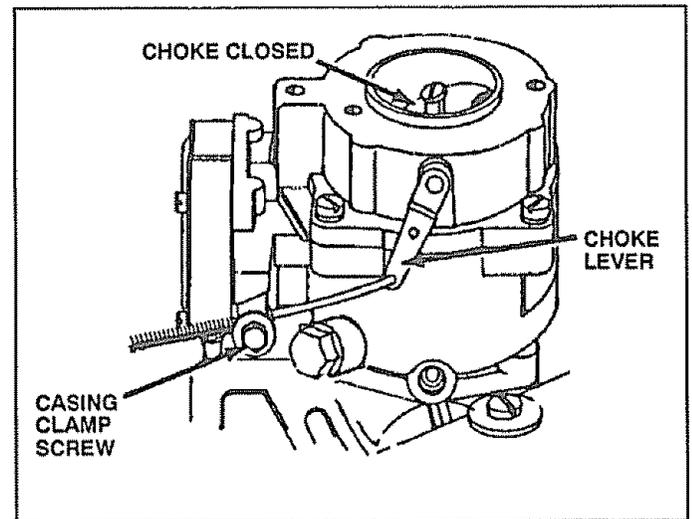


FIG. 47

### TO ADJUST CARBURETOR (See Figs. 48 and 49)

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

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

**IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.**

#### PRELIMINARY SETTING -

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

#### FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in "NEUTRAL" position.

# SERVICE AND ADJUSTMENTS

## TO ADJUST CARBURETOR (cont'd)

- With throttle control lever in "SLOW" position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture screw in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM. Release throttle lever.

## ACCELERATION TEST -

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

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

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

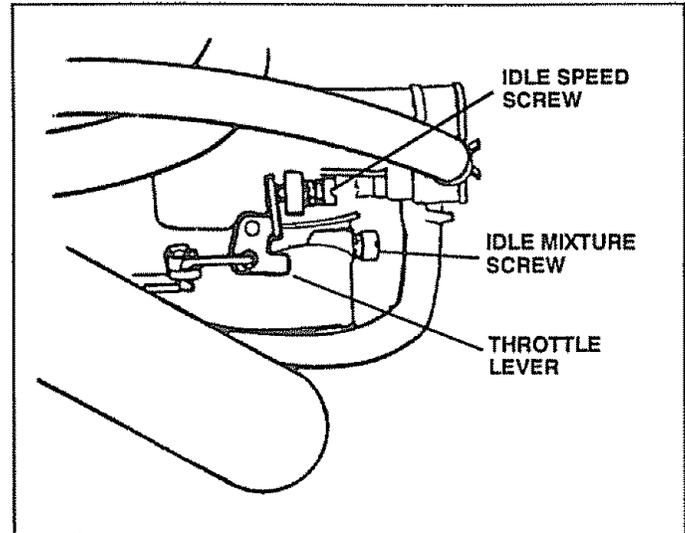


FIG. 48

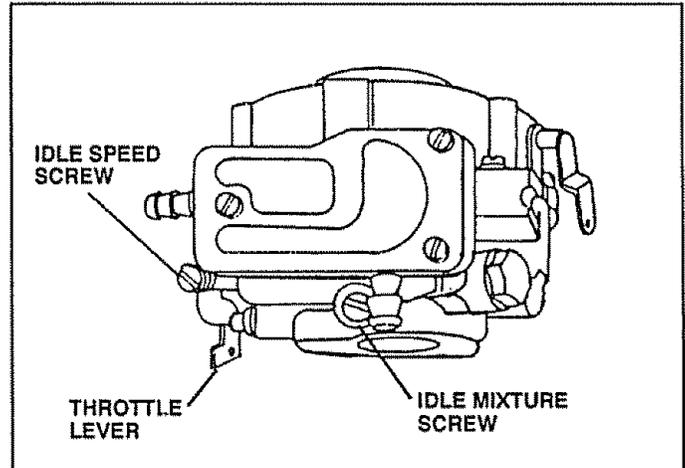


FIG. 49

# STORAGE

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



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

## TRACTOR

Remove mower from unit 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.

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

## BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Maintenance section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- Be sure battery drain tube is securely attached to drain in battery tray.

## ENGINE FUEL SYSTEM

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

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

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

## ENGINE OIL

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

## CYLINDERS

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

## OTHER

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

**IMPORTANT:** NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

# TROUBLESHOOTING POINTS

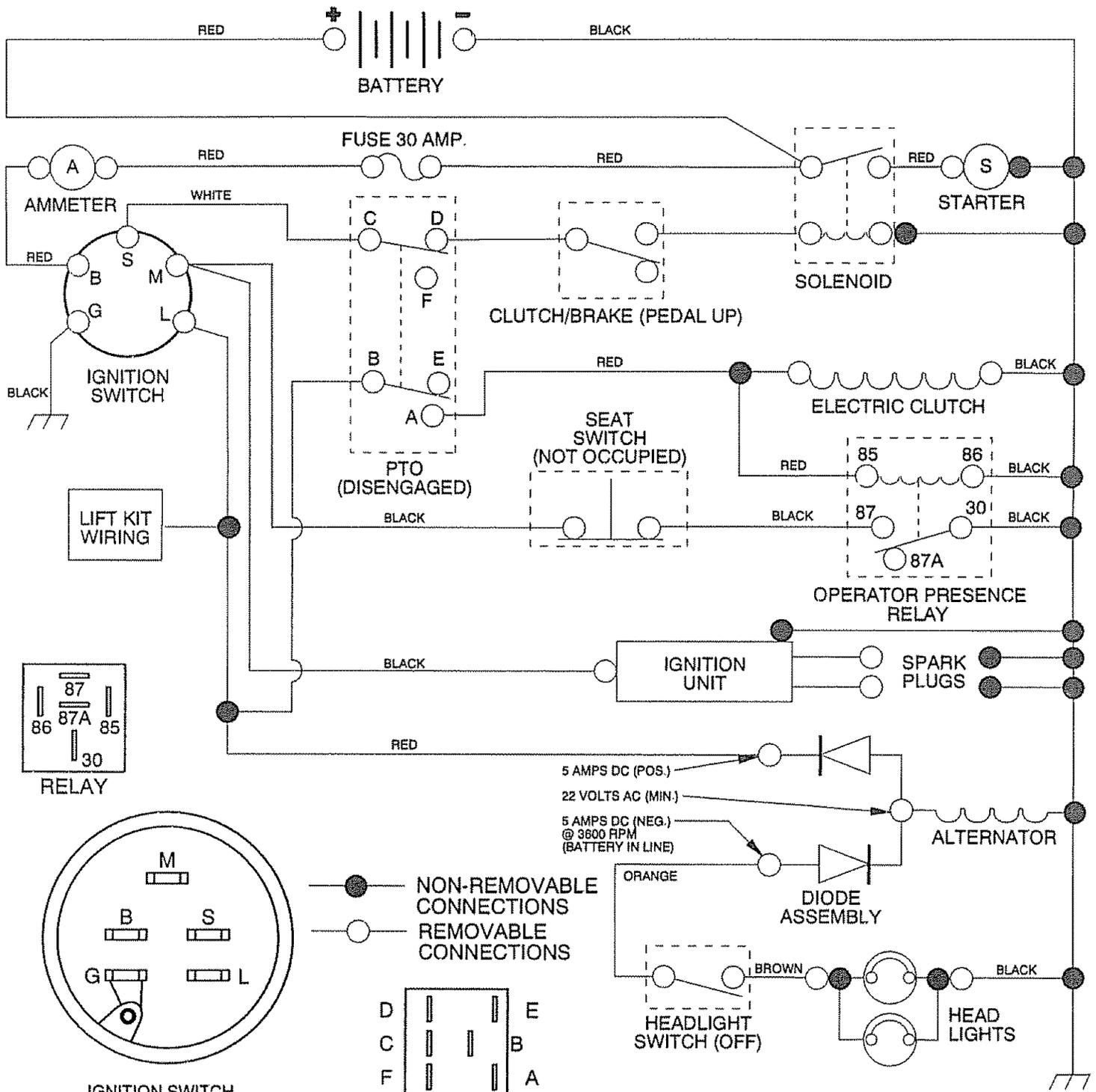
PROBLEM	CAUSE	CORRECTION
Will not start	<ol style="list-style-type: none"> <li>1. Out of fuel.</li> <li>2. Engine not "CHOKED" properly.</li> <li>3. Engine flooded.</li> <li>4. Bad spark plug</li> <li>5. Dirty air filter.</li> <li>6. Dirty fuel filter.</li> <li>7. Water in fuel.</li> <li>8. Loose or damaged wiring.</li> <li>9. Carburetor out of adjustment.</li> <li>10. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill fuel tank.</li> <li>2. See TO START ENGINE in Operation section.</li> <li>3. Wait several minutes before attempting to start.</li> <li>4. Replace spark plug.</li> <li>5. Clean/replace air filter.</li> <li>6. Replace fuel filter.</li> <li>7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>8. Check all wiring.</li> <li>9. Contact Sears Service Department.</li> <li>10. Contact Sears Service Department.</li> </ol>
Hard to start	<ol style="list-style-type: none"> <li>1. Dirty air filter</li> <li>2. Bad spark plug.</li> <li>3. Weak or dead battery.</li> <li>4. Dirty fuel filter.</li> <li>5. Stale or dirty fuel</li> <li>6. Loose or damaged wiring</li> <li>7. Carburetor out of adjustment.</li> <li>8. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean/replace air filter.</li> <li>2. Replace spark plug.</li> <li>3. Recharge or replace battery</li> <li>4. Replace fuel filter.</li> <li>5. Drain fuel tank and refill with fresh gasoline.</li> <li>6. Check all wiring.</li> <li>7. Contact Sears Service Department</li> <li>8. Contact Sears Service Department.</li> </ol>
Engine will not turn over	<ol style="list-style-type: none"> <li>1. Clutch/brake pedal not depressed</li> <li>2. Attachment clutch is engaged.</li> <li>3. Spark plug wire is disconnected.</li> <li>4. Weak or dead battery.</li> <li>5. Blown fuse.</li> <li>6. Corroded battery terminals.</li> <li>7. Loose or damaged wiring</li> <li>8. Faulty ignition switch.</li> <li>9. Faulty solenoid or starter.</li> <li>10. Faulty operator presence switch(es).</li> </ol>	<ol style="list-style-type: none"> <li>1. Depress clutch/brake pedal.</li> <li>2. Disengage attachment clutch.</li> <li>3. Connect wire to spark plug.</li> <li>4. Recharge or replace battery.</li> <li>5. Replace fuse.</li> <li>6. Clean battery terminals.</li> <li>7. Check all wiring.</li> <li>8. Check/replace ignition switch.</li> <li>9. Check/replace solenoid or starter.</li> <li>10. Contact Sears Service Department.</li> </ol>
Engine clicks but will not start	<ol style="list-style-type: none"> <li>1. Weak or dead battery.</li> <li>2. Corroded battery terminals.</li> <li>3. Loose or damaged wiring</li> <li>4. Faulty solenoid or starter.</li> </ol>	<ol style="list-style-type: none"> <li>1. Recharge or replace battery.</li> <li>2. Clean battery terminals.</li> <li>3. Check all wiring</li> <li>4. Check/replace solenoid or starter.</li> </ol>
Loss of power	<ol style="list-style-type: none"> <li>1. Cutting too much grass/too fast.</li> <li>2. Throttle in "CHOKE" position.</li> <li>3. Build-up of grass, leaves and trash under mower.</li> <li>4. Dirty air filter.</li> <li>5. Low oil level/dirty oil.</li> <li>6. Faulty spark plug</li> <li>7. Dirty fuel filter.</li> <li>8. Stale or dirty fuel.</li> <li>9. Water in fuel.</li> <li>10. Spark plug wire loose.</li> <li>11. Dirty engine air screen/fins</li> <li>12. Dirty/clogged muffler.</li> <li>13. Loose or damaged wiring.</li> <li>14. Carburetor out of adjustment.</li> <li>15. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set in "Higher Cut" position/reduce speed.</li> <li>2. Adjust throttle control</li> <li>3. Clean underside of mower housing.</li> <li>4. Clean/replace air filter</li> <li>5. Check oil level/change oil.</li> <li>6. Clean and regap or change spark plug</li> <li>7. Replace fuel filter.</li> <li>8. Drain fuel tank and refill with fresh gasoline.</li> <li>9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>10. Connect and tighten spark plug wire.</li> <li>11. Clean engine air screen/fins.</li> <li>12. Clean/replace muffler</li> <li>13. Check all wiring.</li> <li>14. Contact Sears Service Department.</li> <li>15. Contact Sears Service Department.</li> </ol>
Excessive vibration	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Bent blade mandrel</li> <li>3. Loose/damaged part(s).</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Replace blade mandrel.</li> <li>3. Tighten loose part(s). Replace damaged parts.</li> </ol>

# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	<ol style="list-style-type: none"> <li>1. Faulty operator-safety presence control system.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check wiring, switches and connections. If not corrected, contact Sears Service Department</li> </ol>
Poor cut - uneven	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Mower deck not level.</li> <li>3. Buildup of grass, leaves, and trash under mower.</li> <li>4. Bent blade mandrel.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Level mower deck.</li> <li>3. Clean underside of mower housing.</li> <li>4. Replace blade mandrel.</li> </ol>
Mower blades will not rotate	<ol style="list-style-type: none"> <li>1. Obstruction in clutch mechanism.</li> <li>2. Mower drive belt out of adjustment.</li> <li>3. Worn/damaged mower drive belt.</li> <li>4. Frozen idler pulley.</li> <li>5. Frozen blade mandrel.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove obstruction.</li> <li>2. Adjust mower drive belt.</li> <li>3. Replace mower drive belt.</li> <li>4. Replace idler pulley.</li> <li>5. Replace blade mandrel.</li> </ol>
Poor grass discharge	<ol style="list-style-type: none"> <li>1. Engine speed too slow.</li> <li>2. Travel speed too fast.</li> <li>3. Wet grass.</li> <li>4. Mower deck not level.</li> <li>5. Low/uneven tire air pressure.</li> <li>6. Worn, bent or loose blade.</li> <li>7. Buildup of grass, leaves and trash under mower.</li> <li>8. Mower drive belt worn or out of adjustment.</li> <li>9. Blades improperly installed.</li> <li>10. Improper blades used.</li> </ol>	<ol style="list-style-type: none"> <li>1. Place throttle control in "FAST" position.</li> <li>2. Shift to slower speed.</li> <li>3. Allow grass to dry before mowing.</li> <li>4. Level mower deck.</li> <li>5. Check tires for proper air pressure.</li> <li>6. Replace/sharpen blade. Tighten blade bolt.</li> <li>7. Clean underside of mower housing.</li> <li>8. Replace/adjust mower drive belt.</li> <li>9. Reinstall blades sharp edge down.</li> <li>10. Replace with blades listed in this manual.</li> </ol>
Headlight(s) not working (If so equipped)	<ol style="list-style-type: none"> <li>1. Switch is "OFF".</li> <li>2. Bulb(s) burned out.</li> <li>3. Faulty light switch.</li> <li>4. Loose or damaged wiring.</li> <li>5. Blown fuse.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn switch "ON".</li> <li>2. Replace bulb(s).</li> <li>3. Check/replace light switch.</li> <li>4. Check wiring and connections.</li> <li>5. Replace fuse.</li> </ol>
Battery will not charge	<ol style="list-style-type: none"> <li>1. Bad battery cell(s).</li> <li>2. Poor cable connections.</li> <li>3. Faulty regulator (if so equipped).</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery.</li> <li>2. Check/clean all connections.</li> <li>3. Replace regulator.</li> </ol>

# 18 HP 44" RIDING GARDEN TRACTOR - MODEL NUMBER 917.255930

## SCHEMATIC



POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

PTO SWITCH	
POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F

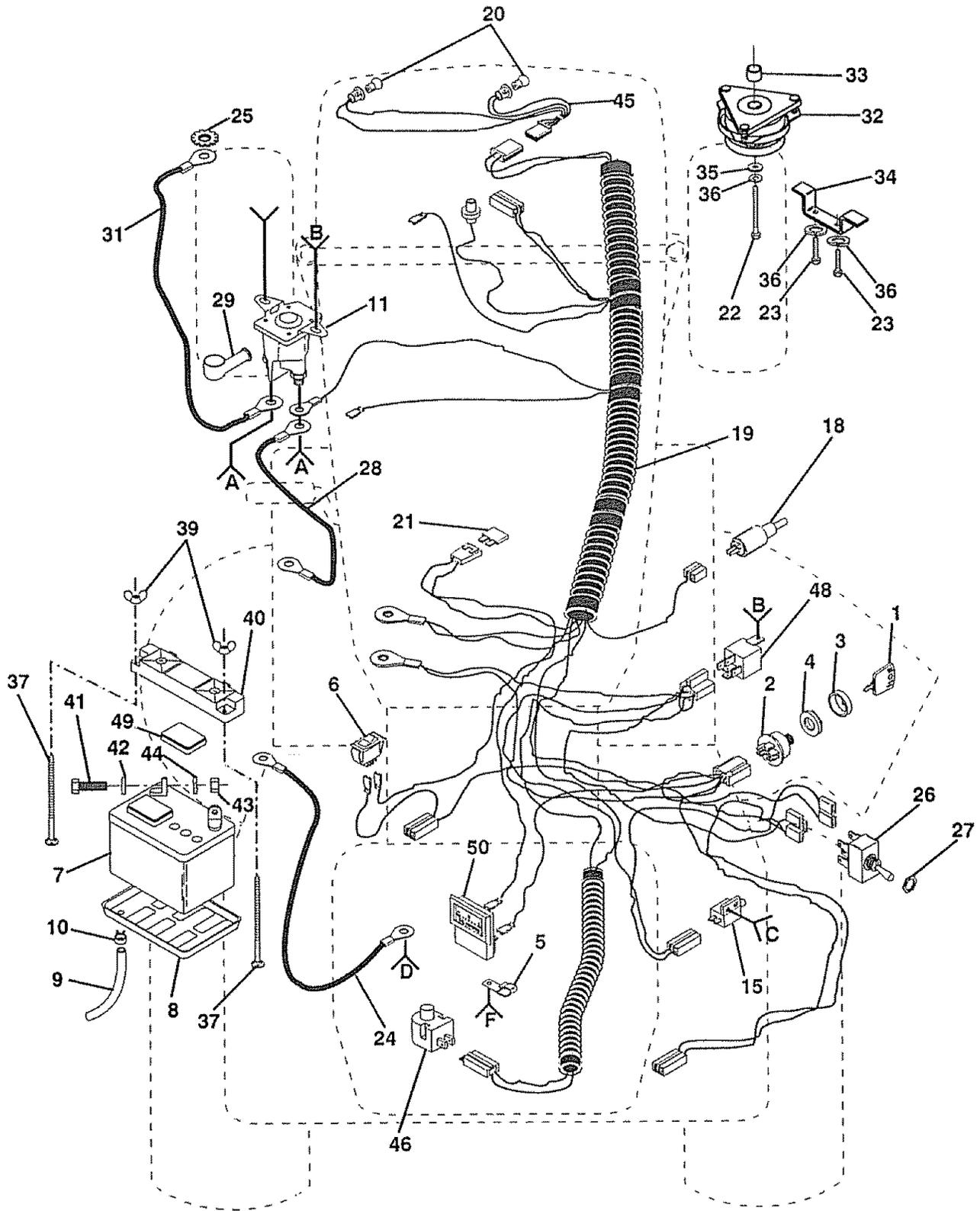
### WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

# REPAIR PARTS

18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

## ELECTRICAL



# REPAIR PARTS

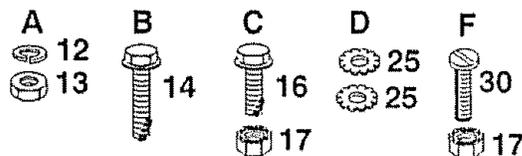
## 18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

### ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	109310X	Key	27	4022J	Nut, Hex
2	STD365402	Switch, Ignition	28	4799J	Cable, Battery
3	109787X	Bezel, Ignition	29	719J	Cover, Terminal
4	109788X	Nut, Ignition	30	74641008	Screw #10-32 x 1/2
5	4171R	Clip	31	5115J	Cable, Starter
6	110712X	Switch, Light	32	109550X	Clutch, Electric
7	121537X	Battery	33	106367X	Spacer, Clutch
8	7603J	Tray, Battery	34	108170X	Stop, Clutch
9	100541K	Tube, Drain	35	19132203	Washer
10	109596X	Clamp, Hose	36	STD551137	*Washer, Lock 3/8
11	109081X	Solenoid	37	72240460	Bolt, Carriage 1/4-20 x 7-1/2
12	10090400	Washer, Lock 1/4	39	123198X	*Nut, Wing 1/4-20
13	STD541225	*Nut, Hex, Jam 1/4-20	40	102476X	Guard, Terminal
14	17190408	Screw, Hex Washer Head, Thread Cutting 1/4-20 x 1/2	41	STD522507	*Bolt, Hex 1/4-20 x 3/4
15	104445X	Switch, Interlock	42	STD551025	*Washer 9/32 x 5/8 x 16 Gauge
16	71031008	Screw, Hex Washer Head #10-32 x 1/2	43	STD541025	*Nut, Hex 1/4-20
17	73951000	Nut, Keps #10-32	44	STD551125	*Washer, Lock 1/4
18	106315X	Diode Assembly	45	110859X	Harness, Light Socket
19	121478X	Harness, Ignition	46	121305X	Switch, Plunger
20	4152J	Bulb, Headlight	48	109748X	Relay, Operator Presence
21	108824X	Fuse	49	121264X	Cap Set, Battery
22	74610628	Bolt, Hex 3/8-24 x 1-3/4	50	121433X	Ammeter
23	STD523707	*Bolt, Hex 3/8-16 x 3/4	—	101539X	Sheet, Instruction, Tractor, 15° Slope
24	121080X	Cable, Ground	—	127668	Manual, Owner's
25	11050600	Washer, Lock, External Tooth 3/8			
26	4021J	Switch, P.T.O.			

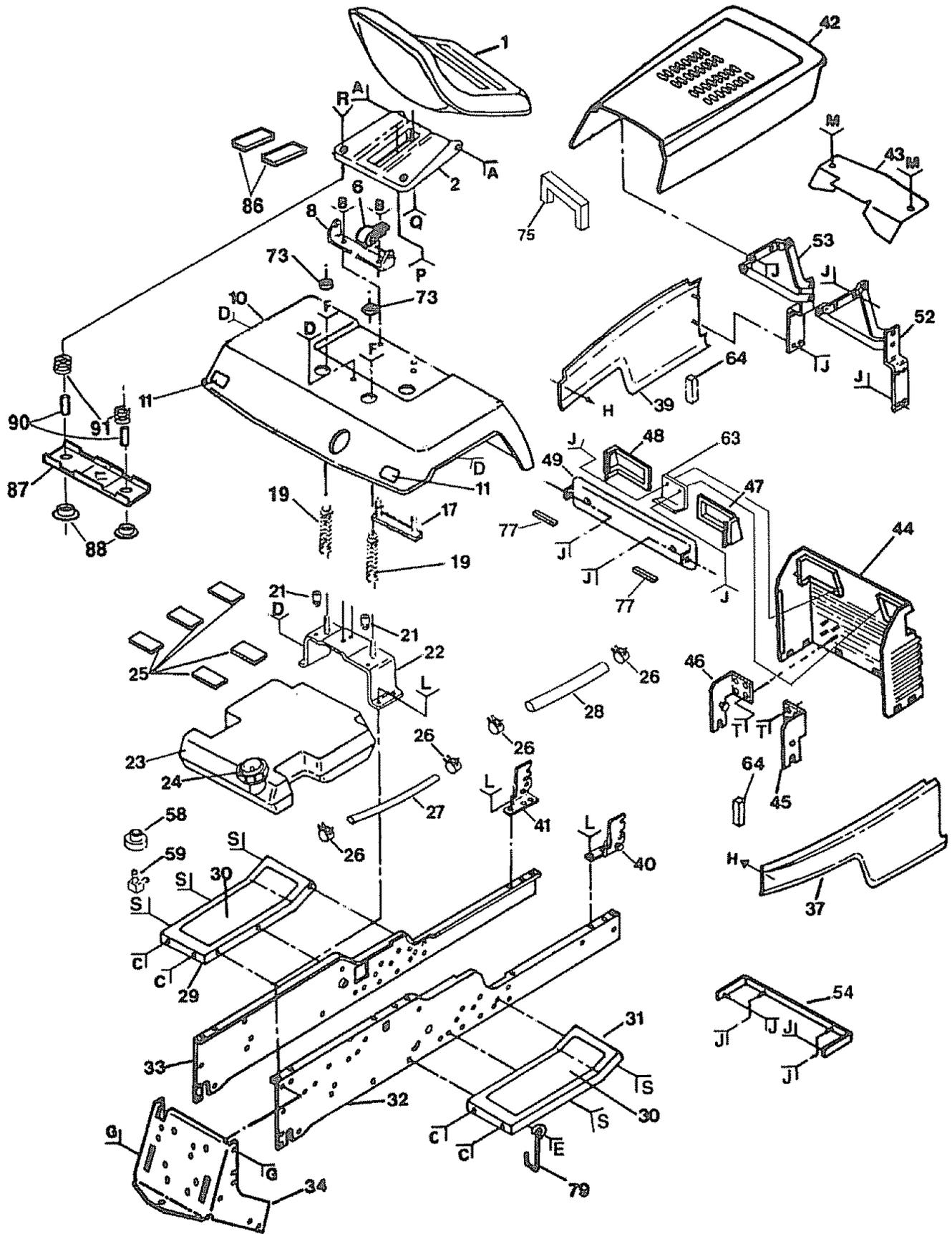
\*STANDARD HARDWARE — PURCHASE LOCALLY

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



# REPAIR PARTS

18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930  
CHASSIS AND ENCLOSURES



# REPAIR PARTS

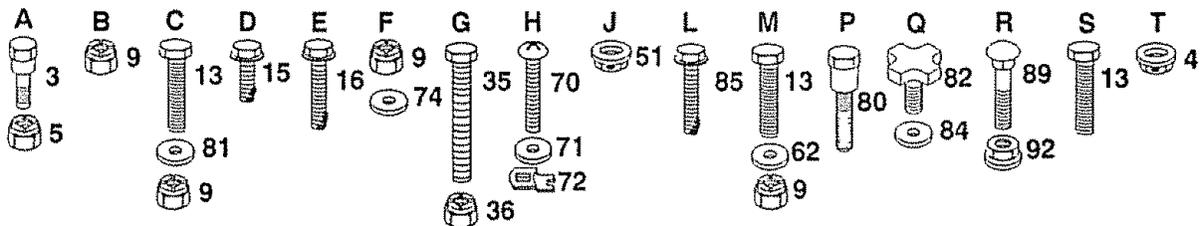
## 18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

### CHASSIS AND ENCLOSURES

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION		
1	127438X	Seat	54	110350X417	Strap, Grill
2	124294X	Pan Seat	58	3545J	Bushing
3	105529X	Bolt, Shoulder	59	8710J	Stem, Fuel Tank
4	120579X	Nut, Pal	62	19131416	Washer 13/32 x 7/8 x 16 Gauge
5	73680500	Nut, Crownlock 5/16-18	63	106092X	Support, Heat Shield
6	2751R	Clip	64	106088X	Strip, Foam
8	126656X	Bracket, Pivot, Seat	70	106909X	Screw, Special
9	73680600	Nut, Crownlock 3/8-16	71	106910X	Washer
10	121642X417	Fender	72	108402X	U-Clip
11	106202X	Reflector, Taillight	73	124238X	Cap, Spring
13	STD523707 *	Bolt, Hex 3/8-16 x 3/4	74	19131614	Washer 13/32 x 1 x 14 Gauge
15	17490608	Screw, Hex Washer Head, Thd. Roll. 3/8-16 x 1/2	75	106086X	Strip, Foam
16	17490616	Screw, Hex Washer Head, Thd. Roll. 3/8-16 x 1	77	105036X	Strip, Foam
17	105511X	Strap, Fender	79	105500X	Retainer, Belt, Lower
19	124181X	Spring, Compression	80	127018X	Bolt, Shoulder 5/16-18 x .62
21	105531X	Nut, Push	81	19131312	Washer 13/32 x 13/16 x 12 Gauge
22	105509X	Bracket, Fender	82	120068X	Knob
23	106020X	Tank, Fuel	84	19171912	Washer 17/32 x 13/16 x 12 Gauge
24	123549X	Cap, Fuel	85	17490612	Screw, Hex, Thread Rolling 3/8-16 x 3/4
25	106082X	Pad, Spacer	86	121251X	Strip, Foam
26	123487X	Clamp, Hose	87	121246X	Switch, Bracket
27	7834R	Line, Fuel	88	121248X	Snap Bushing
28	7833R	Line, Fuel	89	72170410	Bolt, Carriage 1/4 x 1-1/4
29	105465X417	Footrest, L.H.	90	121249X	Spacer, Split
30	105466X	Pad, Footrest	91	121250X	Spring
31	105464X417	Footrest, R.H.	92	123976X	Nut, Hex, Flange 1/4-20
32	110892X	Rail, Frame, R.H.	—	105568X	Decal, Grill, Stripe
33	110893X	Rail, Frame, L.H.	—	128259	Decal, Grill
34	7982J	Drawbar	—	105806X	Decal, Grill
35	74760716	Bolt, Hex 7/16-14 x 1	—	126771X	Decal, HP, Hood
36	73680700	Nut, Crownlock 7/16-14	—	106814X	Decal, Stripe, Side Panel, R.H.
37	108403X417	Panel, Side, R.H.	—	106813X	Decal, Stripe, Side Panel, L.H.
39	108410X417	Panel, Side, L.H.	—	105567X	Decal, Chassis, Speed/Deck Size
40	130523	Bracket, Pivot, Frame, R.H.	—	130595	Decal, Stripe, Hood, R.H.
41	121055X	Bracket, Pivot, Frame, L.H.	—	130596	Decal, Stripe, Hood, L.H.
42	106013X417	Hood	—	105801X	Decal, Fender, Logo
43	110875X	Shield, Heat, Front	—	106974X	Decal, Caution
44	105528X	Grill	—	127521	Decal, USA
45	108512X	Bracket, Pivot, Grill, R.H.	—	106868X	Decal, Drive Belt Schematic
46	108513X	Bracket, Pivot, Grill, L.H.	—	4900J	Decal, Clutch/Brake, Footrest
47	106003X	Lens, R.H.			
48	106004X	Lens, L.H.			
49	110897X	Bezel			
51	108067X	Nut, Pal			
52	106091X	Hinge, R.H.			
53	106090X	Hinge, L.H.			

\*STANADARD HARDWARE—PURCHASE LOCALLY

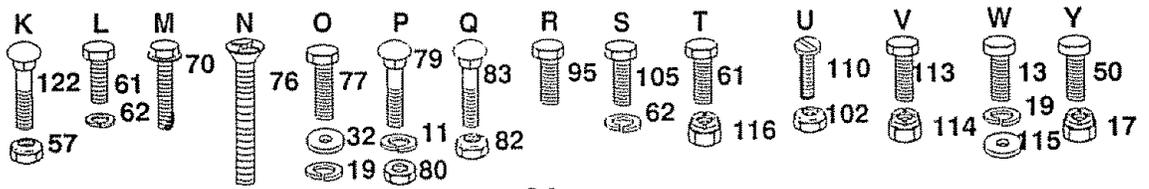
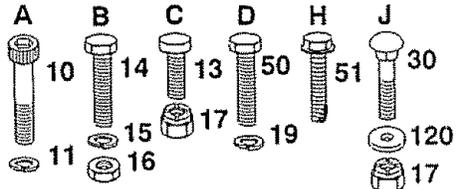
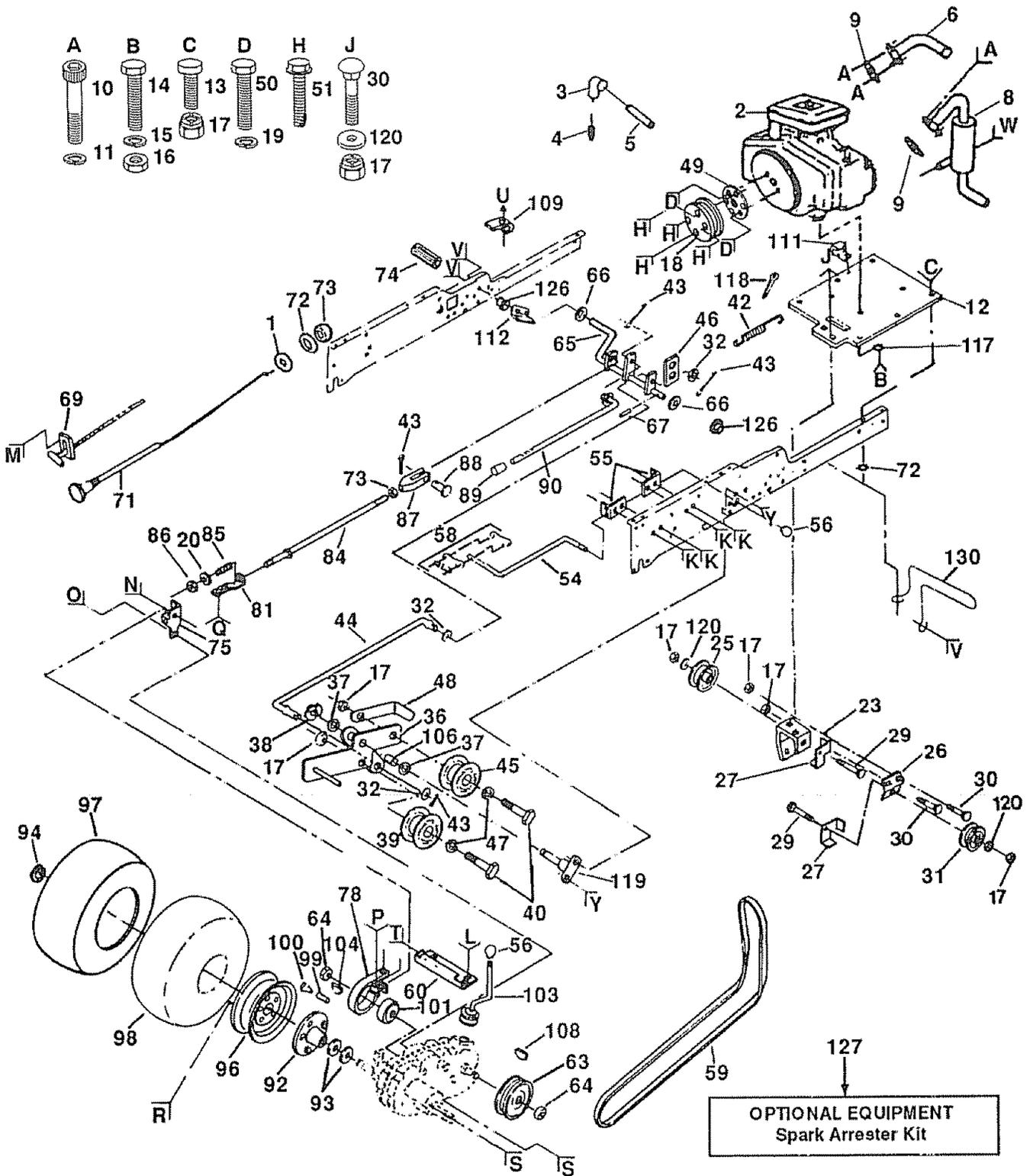
NOTE: All component dimensions given in U. S. inches.  
1 inch = 25.4 mm.



# REPAIR PARTS

## 18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

### DRIVE



# REPAIR PARTS

## 18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

### DRIVE

KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
1	19132616	Washer 13/32 x 1-5/8 x 16 Gauge	71	121389X	Control, Choke
2	110864X	Engine, Briggs and Stratton, Model Number 422437, Type Number 1266-01	72	11050600	Washer, Lock, External Tooth 3/8
3	13200300	Elbow, STD 90°	73	STD541137	* Nut, Hex 3/8-24
4	-----	Plug, Oil Drain (Order from Engine Manufacturer)	74	8883R	Cover, Pedal
5	13280324	Nipple, Pipe 3/8	75	677A637	Bracket, Brake
6	110890X	Tube, Exhaust	76	74370612	Screw, Machine, Flat Head 3/8-16 x 3/4
8	110887X	Muffler	77	74760614	Bolt, Hex 3/8-16 x 7/8
9	8545J	Gasket, Muffler	78	101122M	Band, Brake
10	74570412	Screw, Socket Head 1/4-20 x 3/4	79	72140405	Bolt, Carriage 1/4-20 x 5/8
11	STD551125	* Washer, Lock 1/4	80	STD541025	* Nut, Hex 1/4-20
12	110867X	Base, Engine	81	7229J	Guide, Rod, Brake
13	STD523707	* Bolt, Hex 3/8-16 x 3/4	82	1685H	Locknut 5/16-18
14	74780524	Bolt 5/16-18 x 1-1/2	83	STD533110	* Bolt, Carriage 5/16-18 x 3/4
15	STD551131	Washer, Lock 5/16	84	5308J	Rod, Brake
16	STD541031	Nut 5/16-18	85	7241J	Spring, Compression
17	73680600	Nut, Crownlock 3/8-16	86	73530600	Locknut 3/8-24
18	121355X	Pulley, Ground Drive	87	100604K	Yoke
19	STD551137	* Washer, Lock 3/8	88	5102J	Pin, Clevis
20	19131614	Washer 13/32 x 1 x 14 Gauge	89	124236X	Cap, Plunger
23	121063X	Bracket, V-Pulley, Mule Drive	90	109767X	Rod, Parking Brake
25	101344L	Pulley	92	634A692	Bushing and Wheel Hub
26	122825X	Bracket, Idler, Flat	93	7563R	Washer, Thrust, Axle
27	122824X	Guard, Belt, Mule Drive	94	12000034	Klip, Ring
29	72110614	Bolt, Carriage 3/8-16 x 1-3/4	95	1304H	Bolt, Hub
30	STD533707	* Bolt, Carriage 3/8-16 x 3/4	96	106277X361	Wheel, Rear
31	102403X	Idler, Flat	97	105588X	Tire, Rear
32	19131316	* Washer 13/32 x 13/16 x 16 Gauge	98	7154J	Tube, Rear
36	121356X	Bracket, Clutch (Inc. Key No. 106)	99	65139	Valve, Tire
37	207J	Washer, Hardened	100	59192	Cap, Valve
38	12000039	Klip, Ring	101	214J	Drum, Brake
39	121361X	Idler, Grooved	102	STD541410	* Locknut #10-24
40	STD523715	* Bolt, Hex 3/8-16 x 1-3/4	103	633A109	Gear Shift Lever Assembly
42	121357X	Spring, Extension, Clutch	104	2228M	Key, Woodruff
43	STD560907	* Pin, Cotter 3/32 x 3/4	105	74760720	Bolt, Hex 7/16-14 x 1-1/4
44	101356L	Rod, Clutch	106	105706X	Bearing, Idler
45	104360X	Idler, Flat	108	9858M1	Key, Woodruff
46	121358X	Retainer, Spring	109	5304J	Actuator, Switch, Interlock
47	19131413	Washer 13/32 x 7/8 x 13 Gauge	110	74321016	Screw, Fin. #10-24 x 1
48	121360X	Retainer, Belt	111	2751R	Clip
49	104577X	Adapter	112	104601X	Bracket, Interlock
50	STD523710	* Bolt, Hex 3/8-16 x 1 Grade 5	113	STD522507	* Bolt, Hex 1/4-20 x 3/4
51	17190516	Screw, Hex, Tread Cutting 5/16-18 x 1	114	73680400	Nut, Crownlock 1/4-20
54	122253X	Rod, Shift, Hi-Lo	115	19131210	Washer 13/32 x 3/4 x 10 Gauge
55	105598X	Bracket, Rod, Shift	116	73680700	Nut, Crownlock 7/16-14
56	100196K	Knob	117	11050500	Washer, Lock, External Tooth 5/16
57	73680500	Locknut 5/16-18	118	76020816	Pin, Cotter 1/4 x 1
58	122268X	Spring Clip, Connecting Link	119	101358K	Bracket, Assembly Clutch
59	110883X	V-Belt	120	19131612	Washer 13/32 x 1 x 12 Gauge
60	120404X	Bracket, Support, Transaxle	122	72140506	Bolt, Carriage 5/16-18 x 3/4
61	74760716	Bolt, Hex 7/16-14 x 1	126	110895X	Nyliner
62	STD551143	* Washer, Lock 7/16	127	120615X	Spark Arrester Kit
63	120332X	Pulley, Transaxle	—	124607X	Decal, Engine
64	9204H	Locknut 1/2-20			
65	104375X	Shaft, Foot Pedal			
66	121749X	Washer 25/32 x 1-1/4 x 16 Gauge			
67	STD571812	* Pin, Roll 3/16 x 1-1/4			
69	124559X	Control, Throttle			
70	17720410	Screw, Hex, Thread Cutting 1/4-20 x 1			

\*STANDARD HARDWARE—PURCHASE LOCALLY

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



# REPAIR PARTS

## 18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

### STEERING ASSEMBLY

**KEY PART  
NO. NO.**

**DESCRIPTION**

1	106230X	Tire
2	8134H	Tube, Front
3	106228X361	Front Wheel (Includes Key Numbers 3 and 4)
4	278H	Fitting, Grease
5	9040H	Bearing
6	106045X	Spindle, R.H.
7	6266H	Bearing, Axle
8	12000029	Klip, Ring
9	5284J	Bracket, Axle
10	STD523707	* Bolt, Hex 3/8-16 x 3/4
11	73680600	Nut, Crownlock 3/8-16
12	674A243	Axle, Front (Includes Key No. 13)
13	1309H	Bearing
14	5298J	Tube, Pivot, Axle
15	74781044	Bolt, Hex 5/8-11 x 2-3/4 Grade 5
16	STD551162	* Washer, Lock 5/8
17	STD541062	* Nut, Hex 5/8-11
18	6855M	Fitting, Grease
19	106046X	Spindle, L.H.
20	120424X	Sector Assembly
21	110497X	Link, Drag
22	STD551137	* Washer, Lock 3/8
23	STD541137	* Nut, Hex 3/8-24
24	5292J	Bushing, Bellcrank
25	108137X	Bellcrank
26	19292016	Washer 29/32 x 1-1/4 x 16 Gauge
27	109849X	Rod, Tie
28	STD523720	* Bolt, Hex 3/8-16 x 2 Grade 5
29	102933X	Spacer, Split
30	102439X	Bracket, Support, Steering
31	104239X	Bearing, Flanged
32	72110608	Bolt, Carriage 3/8-16 x 1 Grade 5
33	101274N	Support, Steering
34	17490612	Screw, Hex Washer Head, Thread Rolling 3/8-16 x 3/4
35	102458X	Shaft, Steering
36	12000034	Klip, Ring
37	100713N	Wheel, Steering
38	100711L	Adapter, Steering
39	19133808	Washer
40	106014X	Sleeve, Steering
41	9038R	Bearing
42	105519X	Dash, Lower
43	120028X	Dash
44	105525X	Bracket, Support, Dash
45	19171416	Washer 17/32 x 7/8 x 16 Gauge
46	72110622	Bolt, Carriage 3/8-16 x 2-3/4
47	121235X	Spacer
48	106042X	Cover, Gate, Shift
49	17720408	Screw, Hex Washer Head, Thread Cutting 1/4-20 x 1/2

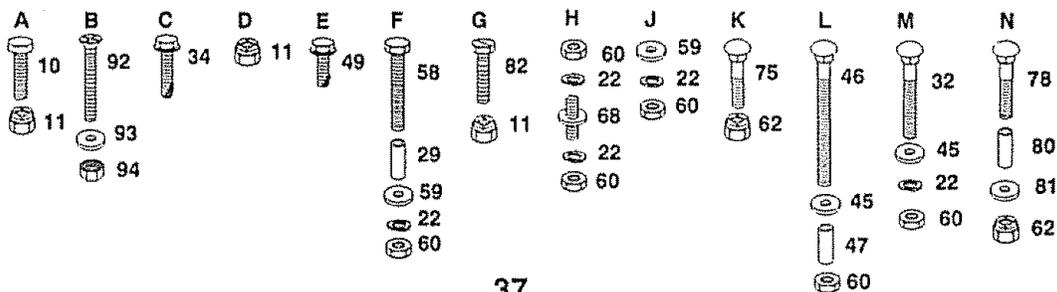
**KEY PART  
NO. NO.**

**DESCRIPTION**

51	100710L	Insert, Steering Wheel
52	74780880	* Bolt, Hex 1/2-13 x 5
53	73680800	Nut, Crownlock 1/2-13
54	19172610	Washer 17/32 x 1-5/8 x 10
55	120542X	Bracket, Idler
56	677A451	Pulley, Idler
57	7190J	Spring
58	STD523720	* Bolt, Hex 3/8-16 x 2-1/4
59	19131413	Washer 13/32 x 7/8 x 13 Gauge
60	STD541037	* Nut, Hex 3/8-16
61	5213J	Bracket, Frame Front
62	73680500	Nut, Crownlock 5/16-18
63	7985J	Support, Battery
64	65139	Stem, Valve
65	59192	Cap, Valve
66	124557X	Dashplate
68	106615X	Pin, Mounting, Idler Bracket
69	2751R	Clip
70	109850X	Joint, Tie Rod, R.H. Thread
71	109851X	Joint, Tie Rod, L. H. Thread
72	7919J	Rod, Tie
73	73700600	Nut, Hex, Jam 3/8-24 L.H.
74	STD541337	* Nut, Hex, Jam 3/8-24 R.H.
75	STD533107	* Bolt, Carriage 5/16-18 x 3/4
76	121749X	Washer 13/32 x 1-1/4 x 16 Gauge
77	121748X	Washer 25/32 x 1-1/4 x 16 Gauge
78	74930516	Bolt, Hex 5/16-18 x 1
79	104757X	Cap, Hub, Front
80	100644K	Bushing, Handle
81	19111416	Washer 11/32 x 7/8 x 16 Gauge
82	STD523710	* Bolt, Hex 3/8-16 x 1 Grade 5
83	100207K	Clip 3/8
85	120199X	Tube
86	121177X	Collar
87	110946X	Stop, Spindle
88	19132007	Washer 13/32 x 1-1/4 x 7 Gauge
89	8022J	Plug, Dash
90	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
91	121232X	Cap, Spindle
92	74180412	Screw, Machine 1/4-20 x 3/4
93	19091216	Washer 9/32 x 3/4 x 16 Gauge
94	73510400	Nut, Hex, Keps 1/4-20
95	4171R	Clip
—	105810X	Decal, Steering Wheel Insert
—	108456X	Decal, Instruction, Operating, Dash

\*STANDARD HARDWARE—PURCHASE LOCALLY

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





# REPAIR PARTS

## 18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

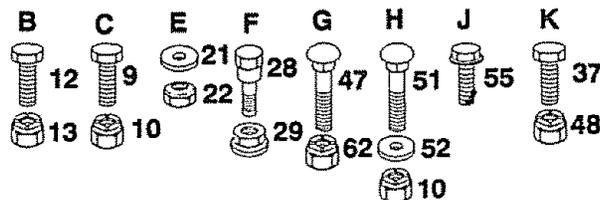
### LIFT ADJUSTMENT

39

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 100734K	Handle, Adjust, Lift	37 STD523710	* Bolt, Hex 3/8-16 x 1
2 110807X	Nut	38 125631X	Grip, Handle
3 110811X	Rod, Adjust, Lift	39 74760624	Bolt, Hex 3/8-16 x 1-1/2
4 STD570907	* Pin, Cotter 3/32 x 3/4	40 19171616	Washer 17/32 x 1-1/16 x 13 Gauge
5 2876H	Spring	41 9135R	Spring, Retainer
6 19131016	Washer 13/32 x 5/8 x 16 Gauge	42 105429X	Arm, Suspension
7 121794X	Cover, Access	43 105413X	Stud, Pivot Center
8 121387X	Shield, Heat, Rear	44 STD551150	* Washer, Lock 1/2
9 STD523107	* Bolt, Hex 5/16-18 x 3/4	45 STD541050	* Nut, Hex 1/2-13
10 73680500	Nut, Crownlock 5/16-18	46 105501X	Bracket, Suspension, Mower
11 120350X	Brace, Heat Shield	47 STD533707	* Bolt, Carriage 3/8-16 x 3/4
12 STD522505	* Bolt, Hex 1/4-20 x 1/2 Grade 5	48 73680600	Nut, Crownlock 3/8-16
13 73680400	Nut, Crownlock 1/4-20	49 674A247	Spring Assembly, Assist, Lift
14 106351X	Plug	50 126651X	Guard, Belt, Engine
15 110436X	Grommet, Split	51 STD533110	* Bolt, Carriage 5/16 -18 x 1
16 73350600	Nut, Hex, Jam 3/8-16 UNC	52 19111610	Washer 11/32 x 1 x 10 Gauge
17 19112410	Washer 11/32 x 1-1/2 x 10 Gauge	53 121045X	Panel, Pnt. Side, R.H.
18 123934X	Scale, Height Indicator	54 121046X	Panel, Pnt. Side, L.H.
19 10040500	Washer, Lock Heavy Helical Spring	55 17490608	Screw, Hex Washer Head, Thread Rolling 3/8-16 x 1/2
20 121366X	Pump, Fuel	56 74780516	Bolt, Hex 5/16-18 x 1
21 19091216	Washer 9/32 x 3/4 x 16 Gauge	57 STD541037	* Nut, Hex 3/8-16
22 73631000	Locknut #10-24	58 5328J	Bolt, Adjust, Spring, Assist
23 124217X	Shaft, Lift	59 STD551037	* Washer 13/32 x 13/16 x 16 Gauge
24 110810X	Trunnion, Depth Stop	60 5329J	Bracket, Spring, Assist
25 19151216	Washer 15/32 x 3/4 x 16 Gauge	61 123935X	Hole, Plug
26 12000037	Klip, Ring	62 73930600	Nut, Centerlock 3/8-16
27 7594J	Bracket, Lift, L.H.	63 123933X394	Pointer, Height Indicator
28 7901J	Bolt, Shoulder	64 12000022	Klip, Ring
29 73900400	Nut, Hex, Flange 1/4-20	65 19292016	Washer 29/32 x 1-1/4 x 16 Gauge
30 7596J	Link, Lift, L.H.	66 120529X	Washer, Nylon
31 105503X	Link, Lift, R.H.	67 73800600	Locknut, Hex w/Washer 3/8-16 UNC
32 4939M	Retainer, Spring		
33 122365X	Button, Plunger		
34 121002X	Lever, Lift		
35 121006X	Rod, Detent		
36 122364X	Plunger, Lever		

\*STANDARD HARDWARE—PURCHASE LOCALLY

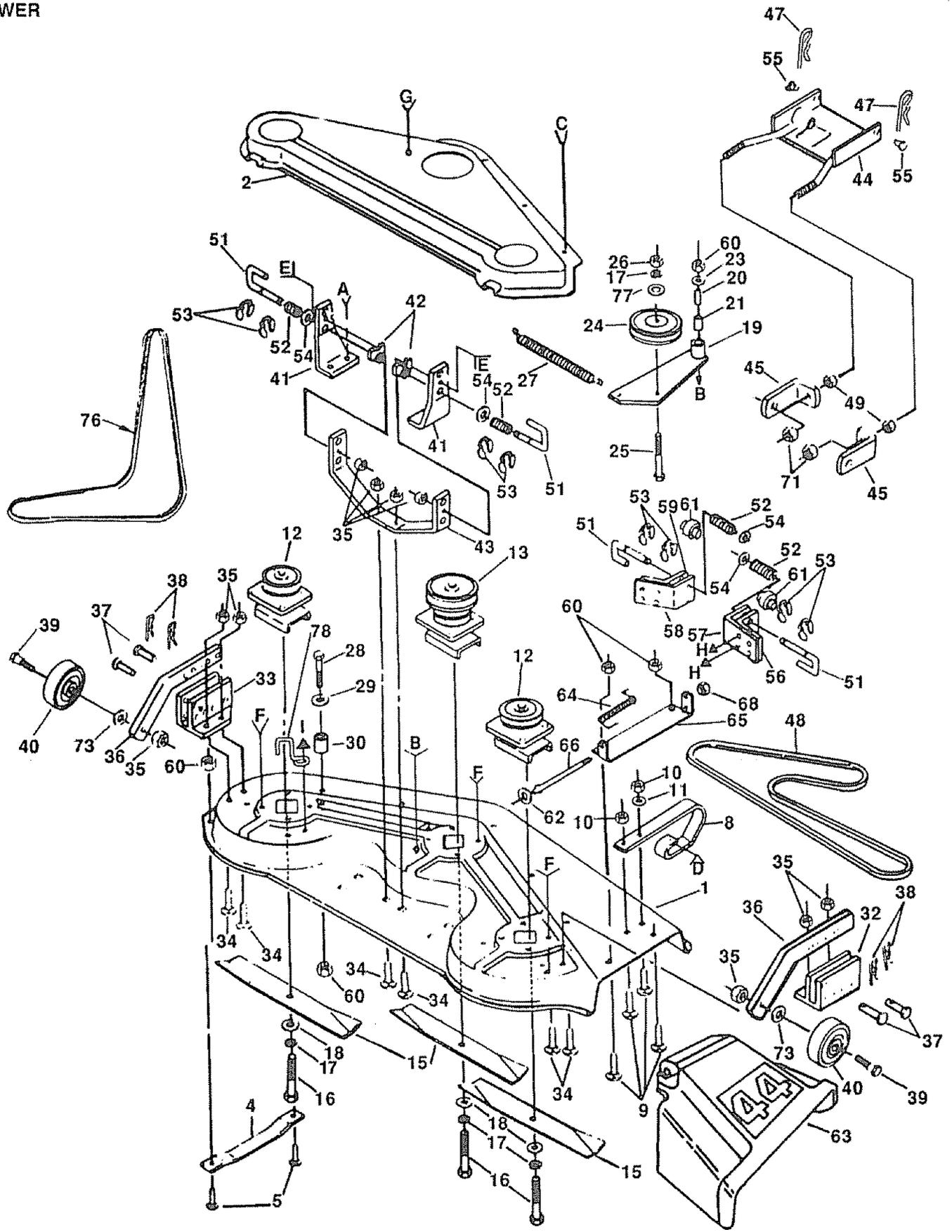
NOTE: All component dimensions given in U. S. inches. 1 inch = 25.4 mm



# REPAIR PARTS

18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

MOWER



# REPAIR PARTS

## 18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

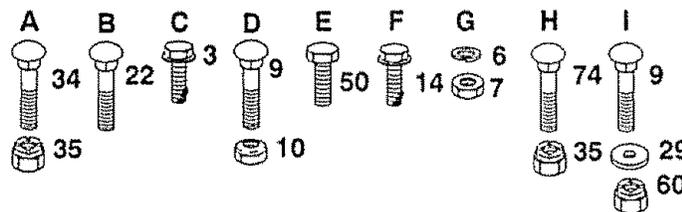
### MOWER

KEY PART NO. NO.	DESCRIPTION
1	105415X Housing, Mower
2	106022X Cover, Drive, Deck
3	17490508 Screw, Hex Washer Head, Thread Rolling 5/16-18 x 1/2
4	7631J Runner, L.H.
5	72110505 Bolt, Carriage 5/16-18 x 5/8
6	STD551131 *Washer, Lock 5/16
7	STD541031 *Nut, Hex 5/16-18
8	8418J Runner, R.H.
9	72140506 Bolt, Carriage 5/16-18 x 3/4
10	1685H Locknut 5/16-18
11	STD551031 Washer 11/32 x 11/16 x 16 Gauge
12	121658X Mandrel, Secondary
13	121657X Mandrel, Primary
14	17490612 Screw, Hex Washer Head, Thread Rolling 3/8-16 x 3/4
15	106635X Blade
16	STD623715 *Bolt, Hex 3/8-24 x 1-1/2 Grade 5
17	STD551137 *Washer, Lock 3/8
18	19132012 Washer 13/32 x 1-1/4 x 12 Gauge
19	674A213 Arm Assembly, Idler
20	7834J Liner, Bearing
21	7835J Bearing
22	72110522 Bolt, Carriage 5/16-18 x 2-3/4
23	10111610 Washer 11/32 x 1 x 10 Gauge
24	102403X Pulley, Idler
25	STD523715 *Bolt, Hex 3/8-16 x 1-1/2
26	STD541037 *Nut, Hex 3/8-16
27	104361X Spring
28	STD523112 *Bolt, Hex 5/16-18 x 1-1/4 Grade 5
29	19111216 Washer 11/32 x 3/4 x 16 Gauge
30	8438J Spacer
32	105448X Bracket, Gauge Wheel, R.H.
33	105449X Bracket, Gauge Wheel, L.H.
34	STD533707 *Bolt, Carriage 3/8-16 x 3/4
35	73680600 Nut, Crownlock 3/8-16
36	105453X Bar, Gauge Wheel
37	5565J Pin, Clevis
38	4939M Retainer, Spring
39	4898H Bolt, Shoulder
40	105455X Wheel, Gauge
41	105433X Bracket, Suspension

KEY PART NO. NO.	DESCRIPTION
42	110237X Spacer
43	105434X Brace, Suspension
44	105436X Parallel Link
45	105441X Bracket, Suspension
47	3146R Spring, Retainer
48	106381X V-Belt
49	STD541050 *Nut 1/2-13
50	74760622 Bolt, Hex 3/8-16 x 1-3/8
51	105435X Pin, Release
52	3720R Spring
53	12000039 Klip, Ring
54	19171612 Washer 17/32 x 1 x 12 Gauge
55	105440X Pin, Clevis
56	105458X Bracket, Outer, R.H.
57	105460X Bracket, Inner, R.H.
58	105461X Bracket, Inner, L.H.
59	105459X Bracket, Outer, L.H.
60	73680500 Nut, Crownlock 5/16-18
61	120135X Spacer
62	19111016 Washer 11/32 x 5/8 x 16 Gauge
63	109785X Shield, Deflector
64	106734X Spring, Deflector
65	109743X Bracket, Deflector
66	106735X Rod, Hinge
68	110452X Nut, Push
71	73680800 Nut, Crownlock 1/2-13
73	19171512 Washer 17/32 x 15/16 x 12 Gauge
74	72240608 Bolt, Carriage 3/8-16 x 1
76	110884X V-Belt
77	19131614 Washer 13/32 x 1 x 14 Gauge
78	121352X Keeper, Belt
—	106224X Decal, V-Belt Drive Schematic
—	121343X Decal, Danger
—	3713J Decal, Rotating Blades

\*STANDARD HARDWARE—PURCHASE LOCALLY

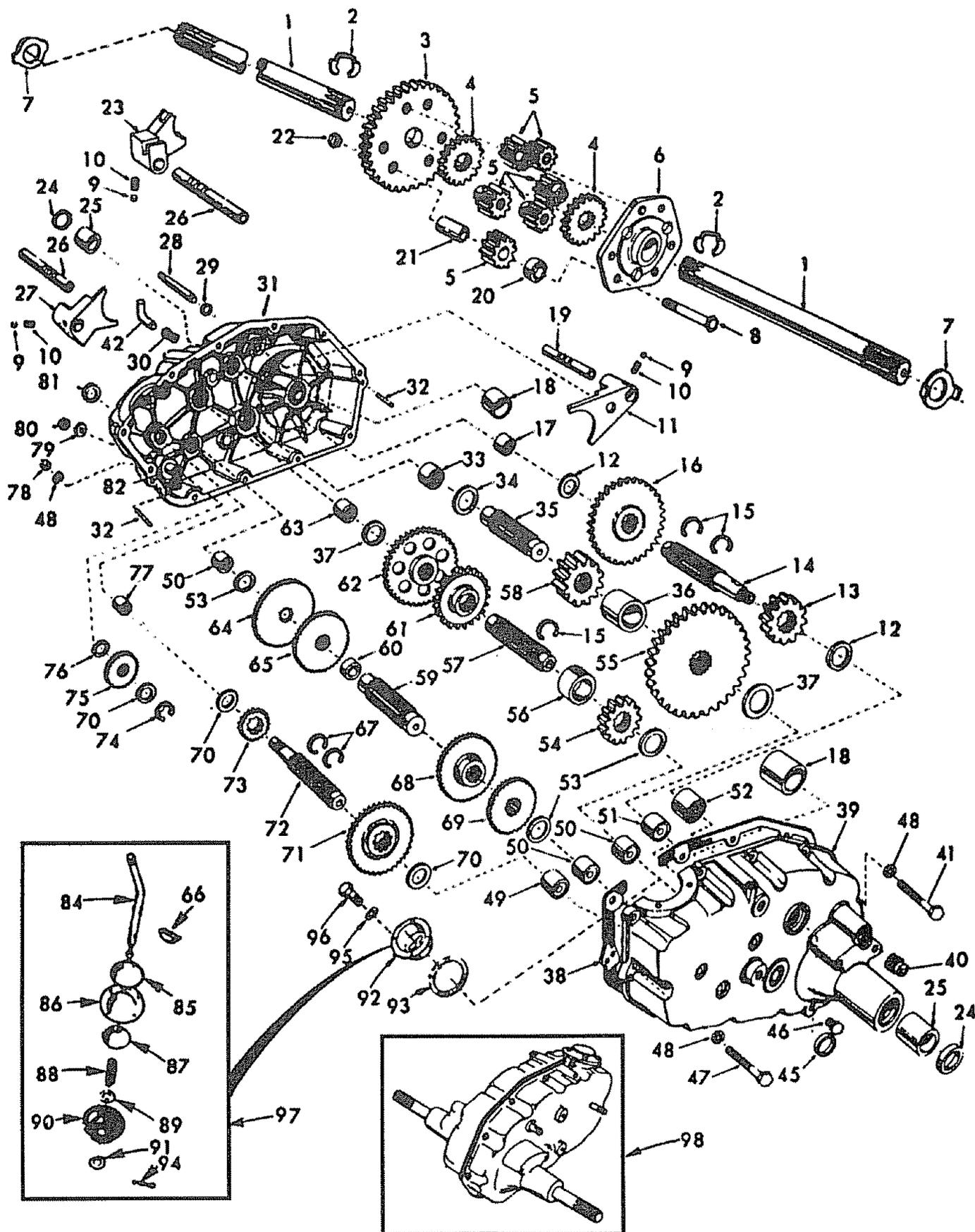
NOTE: All component dimensions given in U. S. inches.  
1 inch = 25.4 mm



# REPAIR PARTS

18 HP 44" RIDING LAWN TRACTOR -- MODEL NUMBER 917.255930

## TRANSAXLE



# REPAIR PARTS

## 18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930

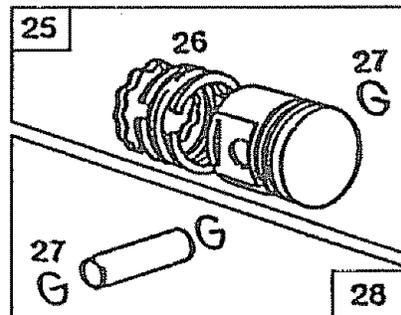
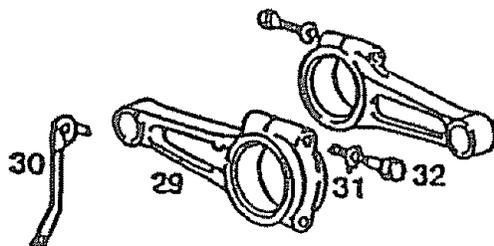
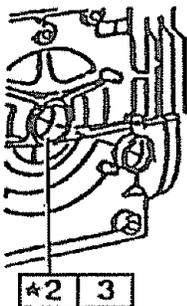
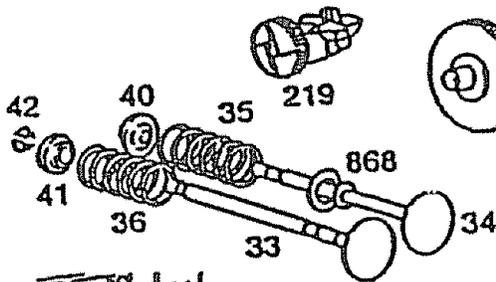
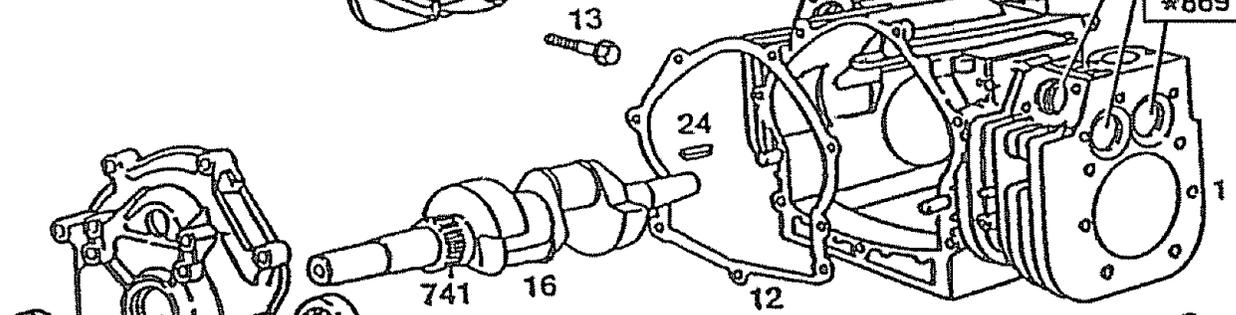
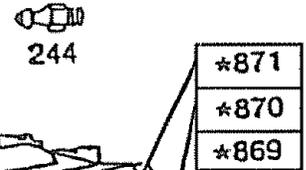
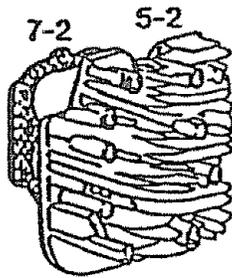
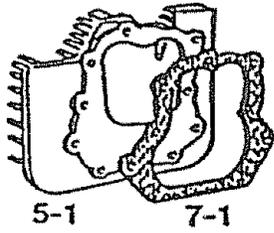
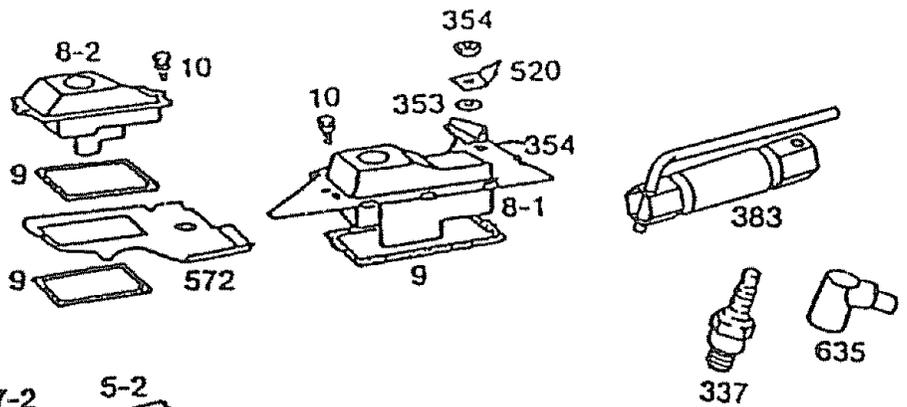
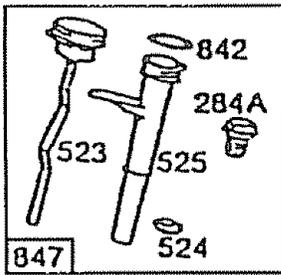
### TRANSAXLE

KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
1	4197R	Axle Shaft	51	1529R	Needle Bearing
2	12000034	Retaining Ring	52	8119M	Needle Bearing
3	4199R	Final Drive Gear	53	4220R	Thrust Bearing Race
4	4216R	Differential Gear	54	4209R	3rd Reduction Pinion, Low
5	4215R	Differential Pinion	55	4213R	4th Reduction Gear
6	4217R	Differential Carrier	56	4442R	3rd Reduction Pinion Spacer
7	6256H	Axle Thrust Washer	57	4195R	2nd Reduction Gear Shaft
8	74020652	Hex Bolt 3/8-24 x 3-1/4 (1" Thread Length)	58	4214R	Final Drive Pinion
9	7392M	Steel Ball	59	4194R	1st Reduction Gear Shaft
10	6272H	Spring Shift Fork Detent	60	7528R	1st Reduction Shaft Spacer
11	4985R	Shift Fork, High-Low Range	61	4208R	3rd Reduction Pinion High
12	6266H	Thrust Bearing Race	62	4207R	2nd Reduction Gear
13	4212R	4th Reduction Pinion	63	7398H	Needle Bearing
14	4196R	3rd Reduction Gear Shaft	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
15	6276H	Snap Ring, Crescent Type	65	4204R	Reverse Gear
16	633A63	High-Low Range Gears	66	2898J	Key (Hi-Pro) 1/8 x 17/32
17	8118M	Needle Bearing	67	4926H	Snap Ring, Crescent Type
18	8740H1	Sintered Iron Bearing	68	4205R	Intermediate Speed Gear
19	122238X	Shift Fork Shaft, High-Low Range	69	4206R	High Speed Gear
20	4218R	Differential Pinion Spacer	70	1370H	Thrust Bearing Race
21	6252H1	Differential Pinion Bushing	71	633A69	Intermediate and High Speed Cluster Pinions
22	7810H	Gripco Centerlock Nut 3/8-24	72	208J	Input Shaft
23	4986R	Shift Fork, L.H.	73	4201R	Low Speed Pinion
24	7393R	Oil Seal	74	12000002	E-Ring
25	992R1	Sintered Iron Bearing	75	1153R	Reverse Idler Gear
26	6216H	Shift Fork Shaft	76	7392H	Reverse Idler Thrust Washer
27	6262H	Shift Fork, R.H.	77	3990H	Needle Bearing
28	122254X	Shift Shaft, High-Low Range	78	73220500	Hex Nut 5/16-18
29	6269H	Oil Seal	79	1167R	Sealing Washer
30	5855H	Pressure Relief Valve	80	73360700	Hex Jam Nut 7/16-20
31	122162X	Gearcase, Reverse Idler Shaft and Bearings, R.H. (Includes Key No.'s 17, 18, 25, 33, 50, 63, 76, 77 & 82)	81	6270H	Oil Seal
32	6277H	Dowel Pin	82	7384H	Reverse Idler Shaft
33	4225R	Needle Bearing	84	5384J	Gear Shift Lever, Bent
34	7396H	Thrust Bearing Race	85	2978J	Gear Shift Cap
35	4198R	4th Reduction Gear Shaft	86	633A85	Gear Shift Ball Cover and Pin
36	4200R	4th Reduction Gear Spacer	87	8739HI	Shift Lever Guide Ball, Keyed
37	7395H	Thrust Bearing Race	88	4924H	Spring
38	121878X	Gearcase Gasket	89	19151516	Washer 15/32 x 15/16 x 16 Gauge
39	122163X	Gearcase and Bearings, L.H. (Includes Key Numbers 18, 25, 49, 50 (2), 51 and 52)	90	110542X	Shift Mechanism Seal
40	13320400	Pipe Plug 1/2-14 N.P.T.	91	19181511	Washer 9/16 x 15/16 x 12 Gauge
41	74780526	Bolt, Hex 5/16-18 UNC x 1-5/8	92	75J	Gear Shift Gate and Reinforcement
42	13170100	Elbow, Street, 90°	93	6274H	Shift Ball Cover Gasket
45	6271H	Oil Seal	94	76020412	Cotter Pin 1/8 x 3/4
46	13060200	Pipe Plug 1/4-18 N.P.T.	95	10040500	Washer, Lock 5/16
47	74780524	Hex Bolt 5/16-18 x 1-1/2 Grade 5	96	74760514	Hex Bolt 5/16 x 18 UNC x 7/8
48	10140500	Washer, Lock, Extra Heavy 5/16	97	633A108	Gear Shift Lever Assembly
49	4895H	Needle Bearing	98	122420X	Transaxle Assembly (Less Brake Drum and Shift Lever)
50	4222R	Needle Bearing			

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

# REPAIR PARTS

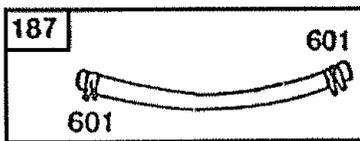
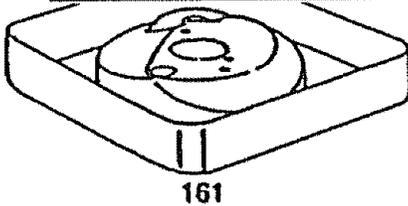
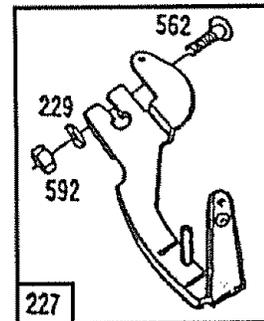
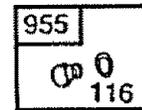
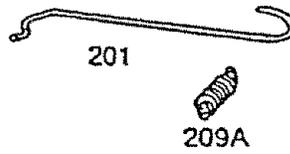
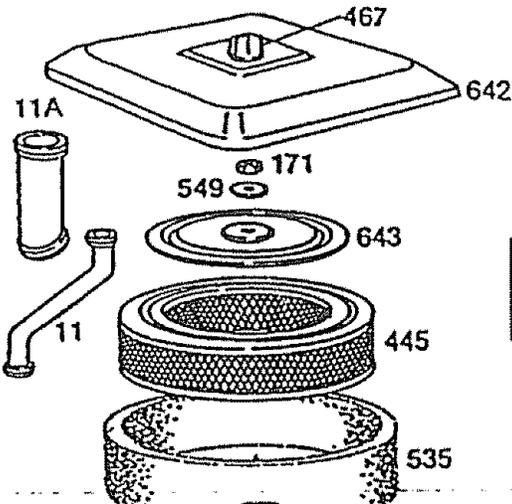
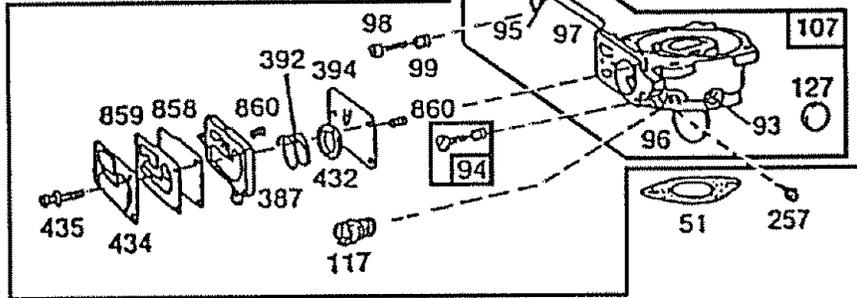
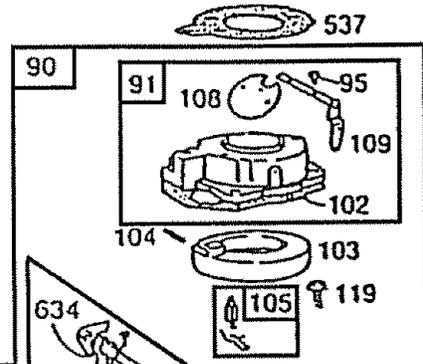
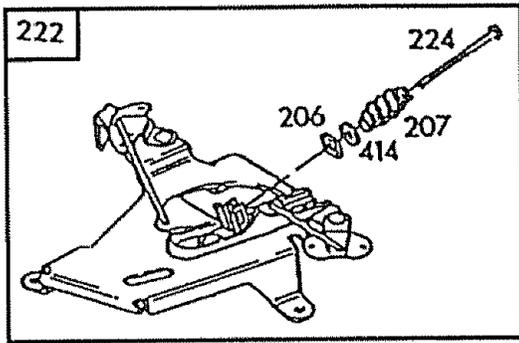
18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930  
 ENGINE BRIGGS & STRATTON - MODEL NUMBER 422437, TYPE 1266-01



1019 LABEL KIT

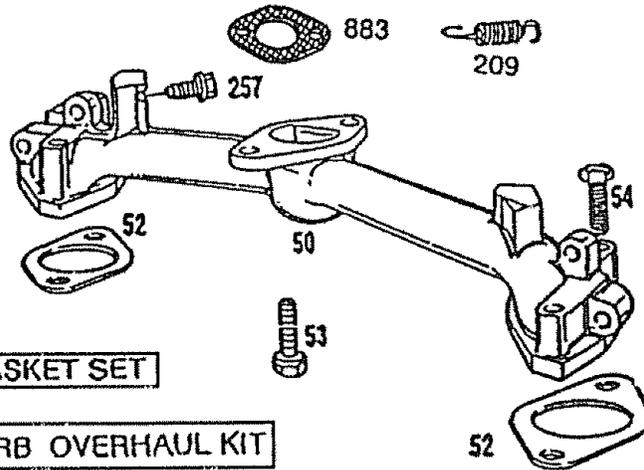
# REPAIR PARTS

18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930  
 ENGINE BRIGGS & STRATTON - MODEL NUMBER 422437, TYPE 1266-01



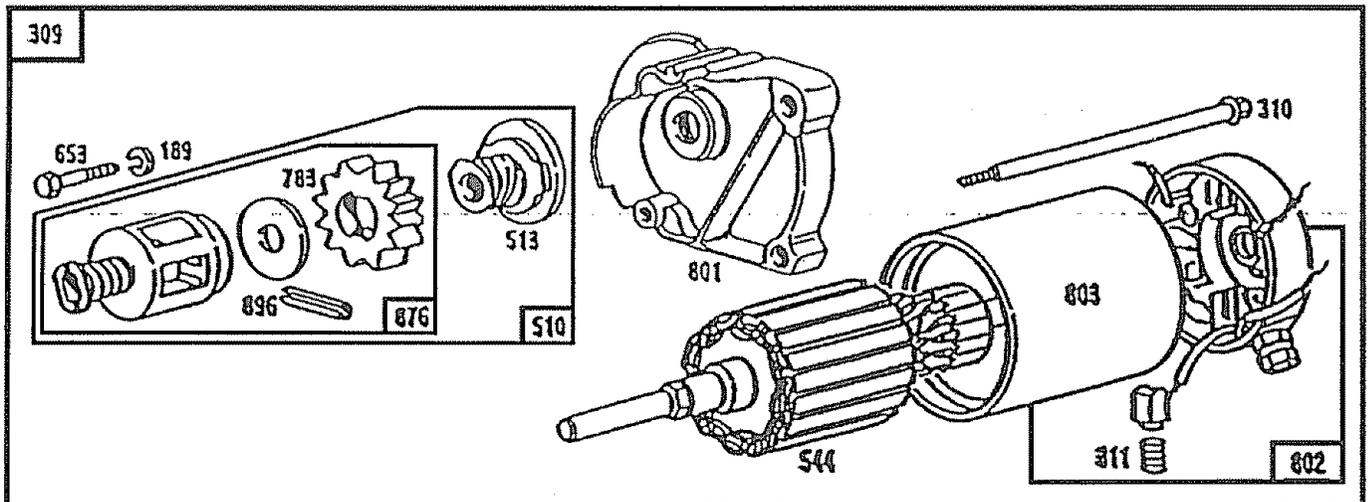
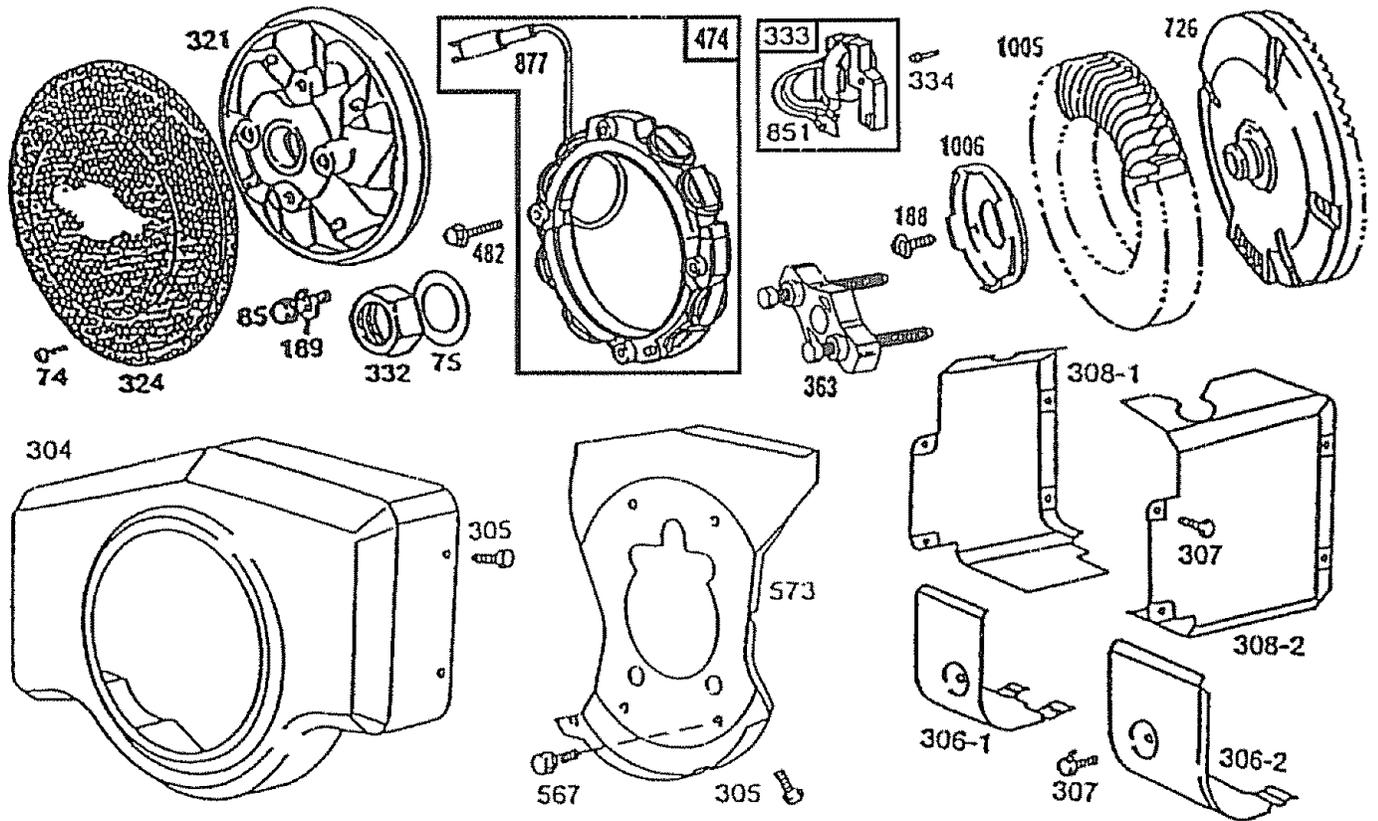
358 GASKET SET

121 CARB OVERHAUL KIT



# REPAIR PARTS

18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930  
 ENGINE BRIGGS & STRATTON - MODEL NUMBER 422437, TYPE 1266-01



Reference Number		309	310	311	544	801	802	803
Manufacturer		Briggs & Stratton						
Housing Length		12V	3-5/8"					
		394808	84003	395538	390837	394860	395537	393825

Reference Number		510	513	783	876	896
Starter Motor Mfr.		Briggs & Stratton				
Housing Length		12V				
		490421	398003	280104	490467	94288

# REPAIR PARTS

18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930  
 ENGINE BRIGGS & STRATTON - MODEL NUMBER 422437, TYPE 1266-01

KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
1	491685	Cylinder Assembly	41	292260	Roto-Cap, Exhaust Valve
2	491523	Bearing, Cylinder	42	93630	Retainers, Exhaust Valve Roto-Cap
3	391086	Seal, Oil	45	261368	Tappet, Valve
4	223055	Trough, Dipper	46	212337	Gear, Cam
5-1	493457	Head, Cylinder #1	50	213288	Manifold, Intake
5-2	493458	Head, Cylinder #2	51	271412	*** Gasket, Carburetor Mounting
7-1	271867	* Gasket, Cylinder Head #1	52	270884	* Gasket, Intake Manifold Mounting
7-2	271868	* Gasket, Cylinder Head #2	53	93415	Screw, Sems, Hex Head
8-1	393243	Breather Assembly #1	54	94367	Screw, Sems, Intake Manifold Mounting
8-2	393153	Breather Assembly #2	74	93808	Screw, Sems
9	27803	* Gasket, Valve Cover	75	222511	Washer, Spring
10	94382	Screw, Sems	85	94385	Screw, Hex Head
11	280819	Tube, Breather	90	491630	Carburetor Assembly
11A	280198	Tube, Intake	91	491541	Body Assembly, Upper Carburetor
12	270982	* Gasket, Crankcase Cover 1/64"	93	231209	Bushing, Throttle Shaft
	271145	* Gasket, Crankcase Cover .005"	94	491538	** Valve Assembly, Carburetor Idle
	271146	* Gasket, Crankcase Cover .009"	95	93499	Screw, Sems, Throttle and Choke Valve Mounting
13	94565	Screw, Cylinder Head 2-21/32"	96	221939	Valve, Throttle
15	91084	Plug, Oil Drain	97	392672	Shaft and Lever, Throttle
15A	93448	Plug, Hex, Socket	98	91920	Screw, Machine, Fillister Head #8-32 x 5/8"
16	394430	Crankshaft	99	26157	Spring, Throttle Adjustment
	94196	Key, Timing Gear Retaining Device	102	271607	** Gasket, Carburetor Body
17	393741	Bearing, Ball, P.T.O. Side	103	298514	Float, Carburetor
18	394535	Cover Assembly, Crankcase (Ball Bearing)	104	230896	** Pin, Float Hinge
20	291675	Seal, Oil	105	394683	** Valve, Fuel Inlet
22	93847	Screw, Sems, Crankcase Cover Mounting	107	491665	Body, Lower Carburetor
23	491180	Flywheel and Ring Gear Assembly, Magneto	108	223534	Valve, Choke
24	222698	Key, Flywheel	109	392673	Shaft and Lever, Choke
25	394955	Piston Assembly, Standard	116	280474	O-Ring
	394956	Piston Assembly .010" Oversize	117	231338	Jet, Needle Valve
	394957	Piston Assembly .020" Oversize	119	94152	Screw, Sems, Hex Head #10-32 x 3/4"
	394958	Piston Assembly .030" Oversize	121	491539	Carburetor Overhaul Kit
26	394959	Ring Set, Piston, Standard	127	223472	** Plug, Welch
	394960	Ring Set, Piston .010" Oversize	161	222752	Body, Air Cleaner
	394961	Ring Set, Piston .020" Oversize	171	93715	Nut, Hex
	394962	Ring Set, Piston .030" Oversize	187	299146	Line, Fuel (Cut to Required Length)
27	260924	Lock, Piston Pin	188	93535	Screw, Sems
28	299691	Pin Assembly, Piston, Standard	189	90366	Washer, Lock
	391286	Pin Assembly, Piston .005" Over	201	262333	Link, Governor
29	394306	Rod Assembly, Connecting			
	397158	Rod Assembly, Connecting, .020" Undersize Crankpin Bore			
30	223053	Dipper, Connecting Rod			* Included in Gasket Set (394501)
31	220863	Washer 1/4 x 5/8 x 1/32"			** Included in Carburetor Overhaul Kit (491539)
32	92909	Screw, Connecting Rod			*** Included in both Gasket Set (394501) and Carburetor Overhaul Kit (491539)
33	390420	Valve, Exhaust			
34	261528	Valve, Intake (Uses Seal Assembly, Part No. 393606 / Key No. 868)			
35	65906	Spring, Intake Valve			
36	26828	Spring, Exhaust Valve			
40	221596	Retainer, Intake Valve			

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

# REPAIR PARTS

18 HP 44" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255930  
 ENGINE BRIGGS & STRATTON - MODEL NUMBER 422437, TYPE 1266-01

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
206 94298	Nut, Square	537 271411	*** Gasket, Air Cleaner
207 262337	Spring, Compression	549 271180	Washer
209 262352	Spring, Governor	552 262332	Lower Bushing, Governor
209A 261563	Spring, Governed Idle	552A 262331	Upper Bushing, Governor
219 394348	Gear, Governor	556 93783	Screw, Hex Head
220 222773	Washer, Thrust	558 92268	Washer
222 491282	Bracket, Speed Control	562 93853	Bolt, Governor Lever
224 94297	Screw, Pan Head	567 93777	Screw, Hex Head (Back Plate to Cylinder)
227 491298	Lever Assembly, Governor		Base, Engine
229 222289	Washer	568 394391	* Gasket, Engine Base
230 223882	Washer, Governor Crank, Inside	569 270981	Guide, Air
240 394358	Filter, Fuel (In Fuel Pipe)	572 222700	Back Plate Assembly
244 230318	Connector, Fuel Pipe	573 491444	Nut, Hex #10-24
257 93897	Screw, Caslng Clamp	592 92278	Clamp, Fuel Pipe
258 93868	Screw, Sems	601 93053	Retainer, E-Ring
284 93893	Screw, Sems	615 94296	Crank, Governor
284A 93886	Screw, Hex Head	616 491530	** Washer, Throttle Shaft
304 491243	Housing, Blower	634 271013	Oil Seal, Governor Shatt
305 93158	Screw, Sems	634A 491287	Elbow, Spark Plug
306-1 222846	Shield, Cylinder	635 66538	Cover, Air Cleaner
306-2 223734	Shield, Cylinder	642 223001	Cartridge Plate, Air Cleaner
307 93163	Screw, Sems	643 222835	Screw, Hex Head 5/16-18 x 1-1/2"
308-1 222848	Cover, Air Guide	653 91162	Gear, Flywheel Ring (Including Mounting Parts)
308-2 222849	Cover, Air Guide	726 391362	Gear, Timing
309 - - -	Motor, Starting (See Chart on Illustrated Pages)	741 262694	Seal, Tube
321 213472	Fan, Booster	842 271170	Dipstick and Tube Assembly
324 223008	Screen, Rotating	847 398990	Terminal, Ignition Cable
332 230674	Nut, Hex	851 221798	Mounting Strap Assembly, Air Cleaner
333 394891	Armature Group	862 392643	Seal Assembly and Retainer
334 93381	Screw, Sems, Armature Mounting		Seat, Intake Valve, Standard
337 802592	Plug, Spark	868 393606	Seat, Exhaust Valve, Standard
353 92791	Washer, Lock, Shakeproof	869 261463	Guide, Exhaust Valve
354 90576	Nut, Hex #8-32	870 210940	Guide, Intake Valve
356 398808	Wire, Ground	871 261961	Connector Assembly, Tri-Circuit
358 394501	Gasket Set	231218	Gasket, Exhaust
363 19203	Puller, Flywheel (Optional Accessory)	877 393537	Plug and Seal, Solenoid
383 89838	Wrench, Spark Plug	883 272250	Fan, Flywheel
414 223882	Washer	955 397882	Retainer, Fan
445 394018	Cartddge, Air Cleaner	1005 280815	Decal Kit
467 212706	Knob, Air Cleaner	1006 223726	
474 392595	Stator, Alternator, Tri-Circuit	1019 491262	
482 93621	Screw, Sems		* Included in Gasket Set (394501)
520 93722	Terminal, Spade		** Included in Carburetor Overhaul Kit (491539)
523 398924	Cap and Dipstick, Oil Filler		*** Included in both Gasket Set (394501) and Carburetor Overhaul Kit (491539)
524 68838	Seal, Filler Tube		
525 280220	Tube, Oil Filler		
528 393815	Line, Fuel		
535 271271	Element, Air Cleaner		

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

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# SERVICE NOTES

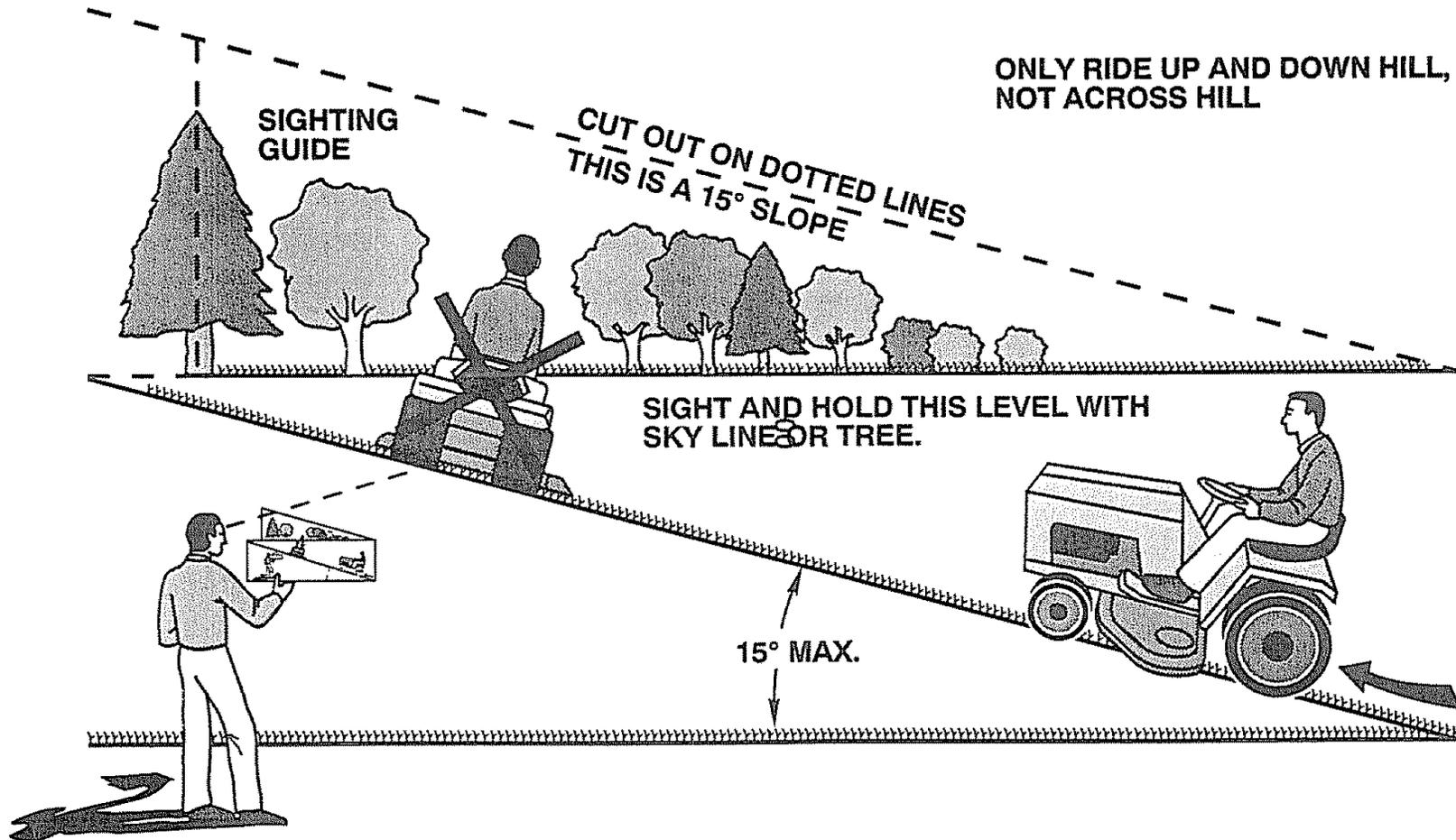
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# SERVICE NOTES

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# 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.**  
**917.255930**

**HOW TO ORDER  
REPAIR PARTS**

**CRAFTSMAN®**

**18.0 HP IC  
ELECTRIC START  
44" MOWER  
6 SPEED  
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 of the engine.

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

**WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:**

- PRODUCT - GARDEN TRACTOR
- MODEL NUMBER - 917.255930
- ENGINE MODEL NUMBER - 422437 TYPE NUMBER 1266-01
- 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.

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

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