

**SEARS**

# **CRAFTSMAN®**

**MODEL NUMBER 917.255890 OWNER'S MANUAL**

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



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

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



# SAFETY RULES

## Safe Operation Practices for Ride-On Mowers



**IMPORTANT:** THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

### I. GENERAL OPERATION

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

### II. SLOPE OPERATION

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

#### DO:

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

#### DO NOT:

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

### III. CHILDREN

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

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

### IV. SERVICE

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



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



**CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.**

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

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

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

MODEL NUMBER	917.255890
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 (above 32°F) 5W-30 (below 32°F)	
SPARK PLUG (GAP .030 IN.):	CHAMPION RJ19LM	
VALVE CLEARANCE:	INTAKE .004-.006 IN. EXHAUST .007-.009 IN.	
GROUND SPEED	FORWARD:	
	1st	.70 MPH
	2nd	1.10 MPH
	3rd	1.80 MPH
	4th	3.20 MPH
	5th	4.10 MPH
	6th	5.30 MPH
	REVERSE:	1.60 MPH
TIRE PRESSURE:	FRONT:	14 PSI
	REAR:	10 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS	
BLADE BOLT TORQUE:	30-35 FT. LBS.	

## MAINTENANCE AGREEMENT

A Sears maintenance agreement is available on this tractor. Contact your nearest Sears store for details.

## CUSTOMER RESPONSIBILITIES

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

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

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

## LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

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

This Warranty does not cover:

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

## LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

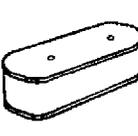
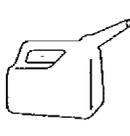
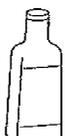
SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, ILLINOIS 60179



# 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

**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-inch steel spikes mounted on 10-inch diameter discs puncture holes in soil at close intervals to let moisture soak in.

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

**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.

**SNOW THROWER** 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. (Catalog only.)

**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. (Catalog only.)

**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). (Catalog only.)

**TILLER** has 8 hp 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.)

**TILLER** has 5 hp engine and 36-inch swath to prepare seed beds, cultivate, and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard, or garden tractor. Simply hook up to the tractor drawbar and go!

**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.)

**FRONT END LOADER** system includes double wide rear tires, rear weight box, and hydraulically operated 5.26 cu.ft. bucket. (Catalog only.)

**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.)

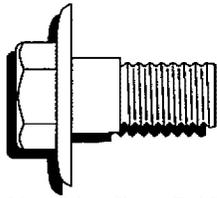
**DISC HARROW** has 2 gangs of 4 steel blades that angle from 10 to 20 degrees, 40 inches wide. Can hook 2 units in tandem. (Requires sleeve hitch.)

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

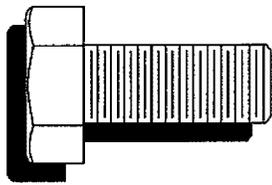
**SLEEVE HITCH** for use with master lift system. Single pin couples/uncouples.

# CONTENTS OF HARDWARE PACK

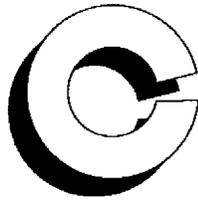
## Parts Bag contents shown full size



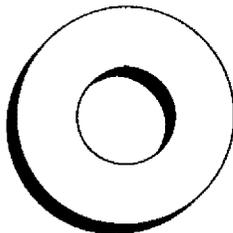
(1) Shoulder Bolt 5/16-18



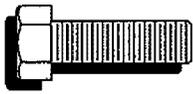
(1) Hex Bolt 1/2-13 x 1



(1) Lock Washer 1/2



(1) Washer 17/32 x 1-3/16 x 12 Gauge



(2) Hex Bolts 1/4-20 x 3/4



(2) Hex Nuts 1/4-20



(2) Washers 9/32 x 5/8 x 16 Ga.

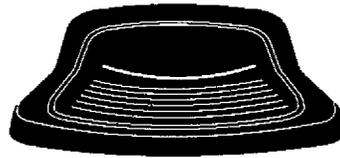


(2) Lock Washers 1/4

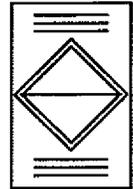


(2) Wing Nuts 1/4-20

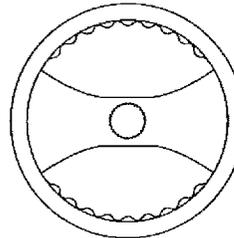
## Parts packed separately in carton



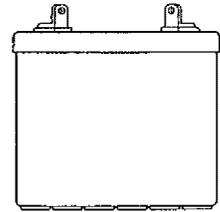
Seat



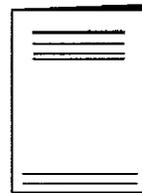
Battery acid



Steering Wheel



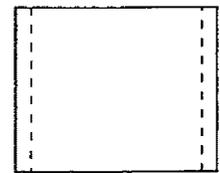
Battery



Owner's Manual



Steering Sleeve



Parts Bag

## Parts bag contents not shown full size



(2) Keys



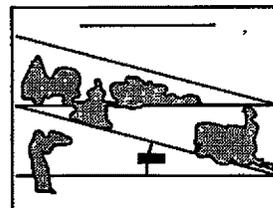
Steering Wheel Insert



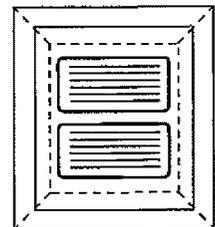
(2) Battery Carriage Bolts 1/4-20 x 7-1/2



Terminal Guard



15° Slope Sheet



Battery Caps and Instructions

# ASSEMBLY

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

## TOOLS REQUIRED FOR ASSEMBLY

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

- (2) 7/16" wrenches
- (1) Tire pressure gauge
- (1) 3/4" wrench
- (1) Utility knife
- (1) 1/2" wrench

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

## TO REMOVE TRACTOR FROM CARTON

### UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton (See page 6).
- Cut along 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.

## BEFORE ROLLING TRACTOR OFF SKID

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

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

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

### TO ROLL TRACTOR OFF SKID (See Fig. 11)

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

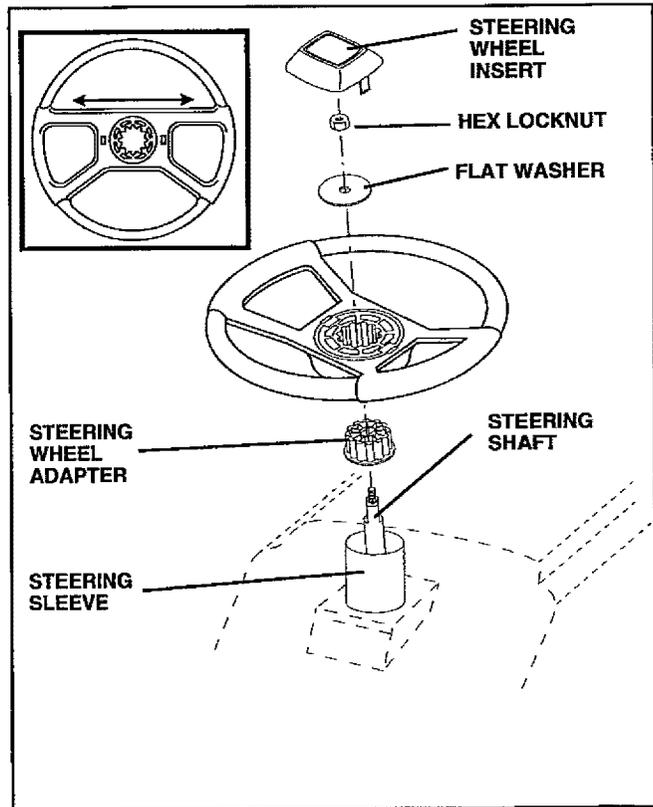


FIG. 1

# ASSEMBLY

## HOW TO SET UP YOUR TRACTOR

### PREPARE BATTERY (See Fig. 2)



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

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

- See instructions packed with vent caps in parts bag.
- 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 tractor.

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

- Charge battery at a rate of 6 amperes for 1 hour. Use a 12 volt battery charger. Observe all safety precautions required for battery charging.
- Check the acid level after the battery is charged. If the acid has fallen below the correct level, add distilled or iron free water.
- Install the vent caps to cover the vent wells. Wash the top of the battery with water to remove any acid, then wipe dry.
- Check battery case for leakage to make sure that no damage has occurred in handling.
- Dispose of excess battery acid. Neutralize acid for disposal by adding it to 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.

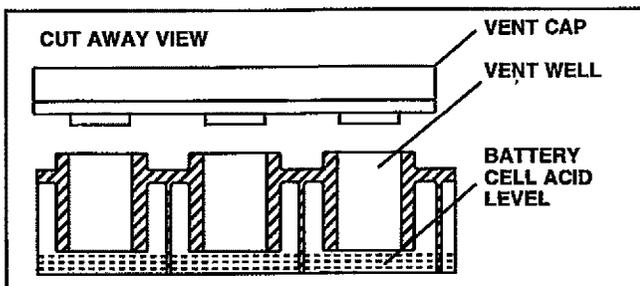


FIG. 2

### INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment bolt.

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

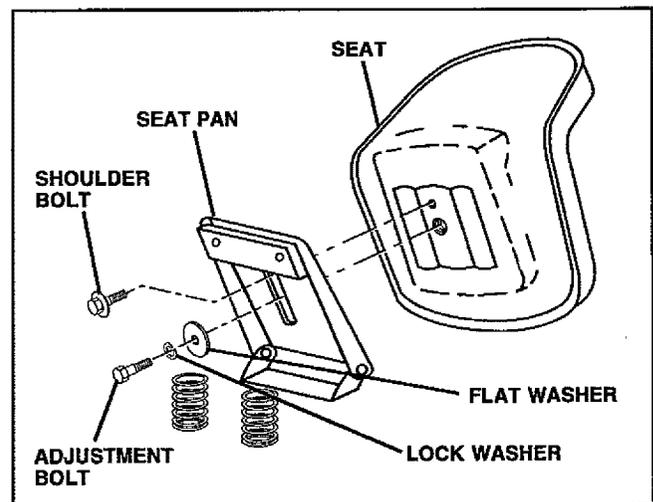


FIG. 3

### CHECK TIRE PRESSURE

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

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

### CHECK 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 (See Figs. 4, 5, 6 & 7)

- Remove banding holding parallel link up against tractor.
- Remove retainer securing long hinge pin to parallel link and remove long hinge pin.
- Raise attachment lift lever to its highest position.
- Remove banding from mower deck links and V-belt.
- Slide mower under tractor with discharge guard to right side of tractor.
- Attach front of mower to parallel link with long hinge pin. Secure long hinge pin with retainer spring.
- Install clutch rod in clutch lever. Secure with retainer spring.
- Turn height adjustment knob to its lowest setting.
- Lower attachment lift lever to lower suspension arms. Remove retainer springs from lift trunnions.
- Slide trunnions through upper hole in lift brackets and secure with retainer springs.
- Pull L.H. idler pulley toward the right hand side of tractor and roll belt over engine pulley.

**NOTE:** Mower drive belt installation decal located on mower housing.

- Raise attachment lift lever to raise mower.
- Turn height adjustment knob clockwise to the middle of its travel.

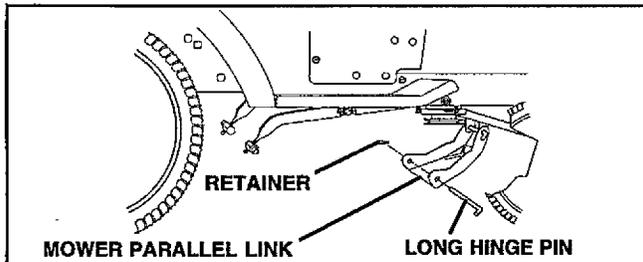


FIG. 4

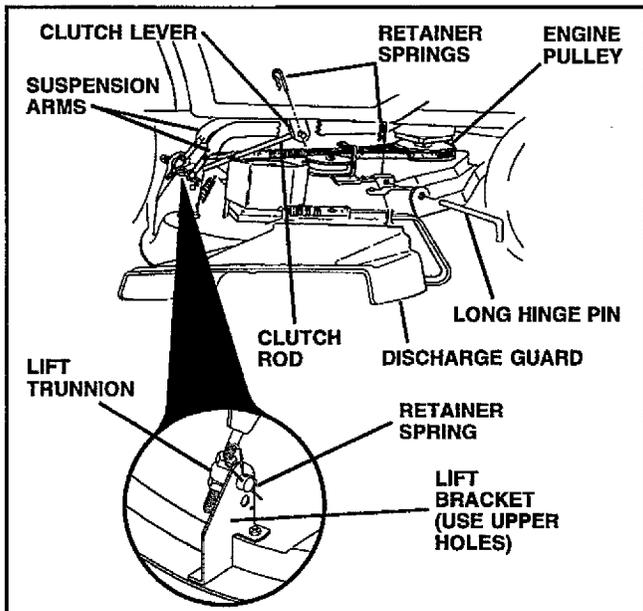


FIG. 5

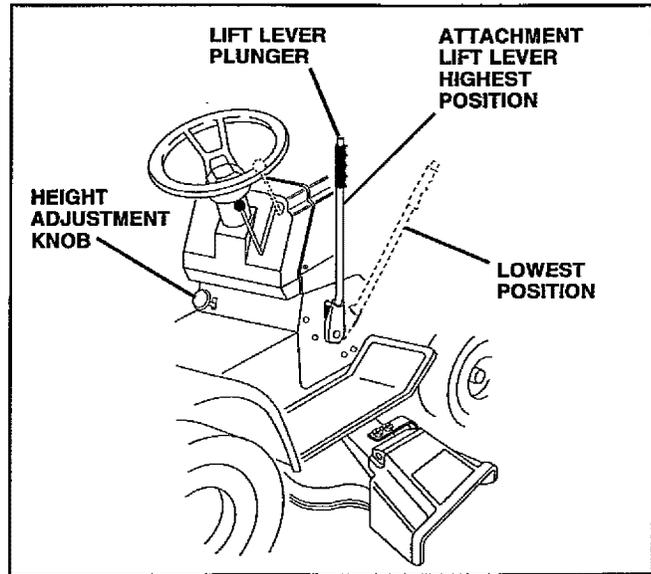


FIG. 6

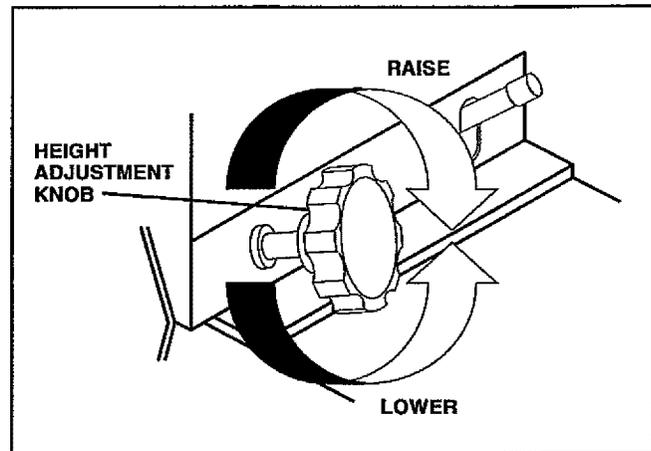


FIG. 7

## CHECK DECK LEVELNESS

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

## CHECK FOR PROPER POSITION OF ALL BELTS

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

# ASSEMBLY

## INSTALL BATTERY (See Figs. 8 and 9)



**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.**

- 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.
- Replace air intake duct. Air duct should be placed so that the bottom edge is between the lip of the battery tray and the battery.
- 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.

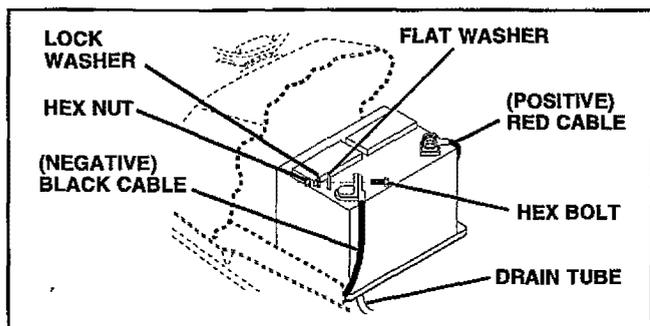


FIG. 8

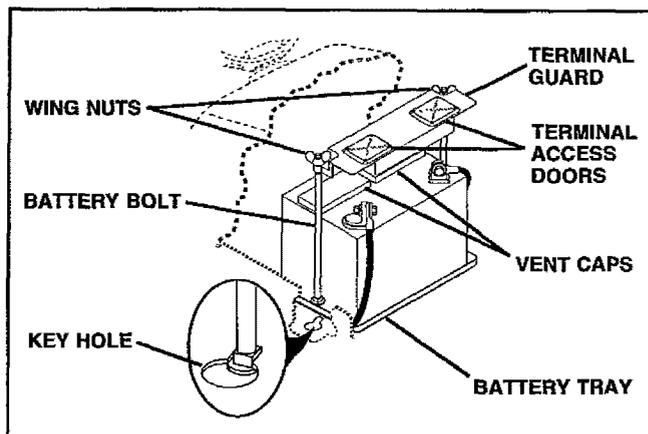


FIG. 9

## ✓ 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 TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:*

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

# OPERATION

## KNOW YOUR TRACTOR

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

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

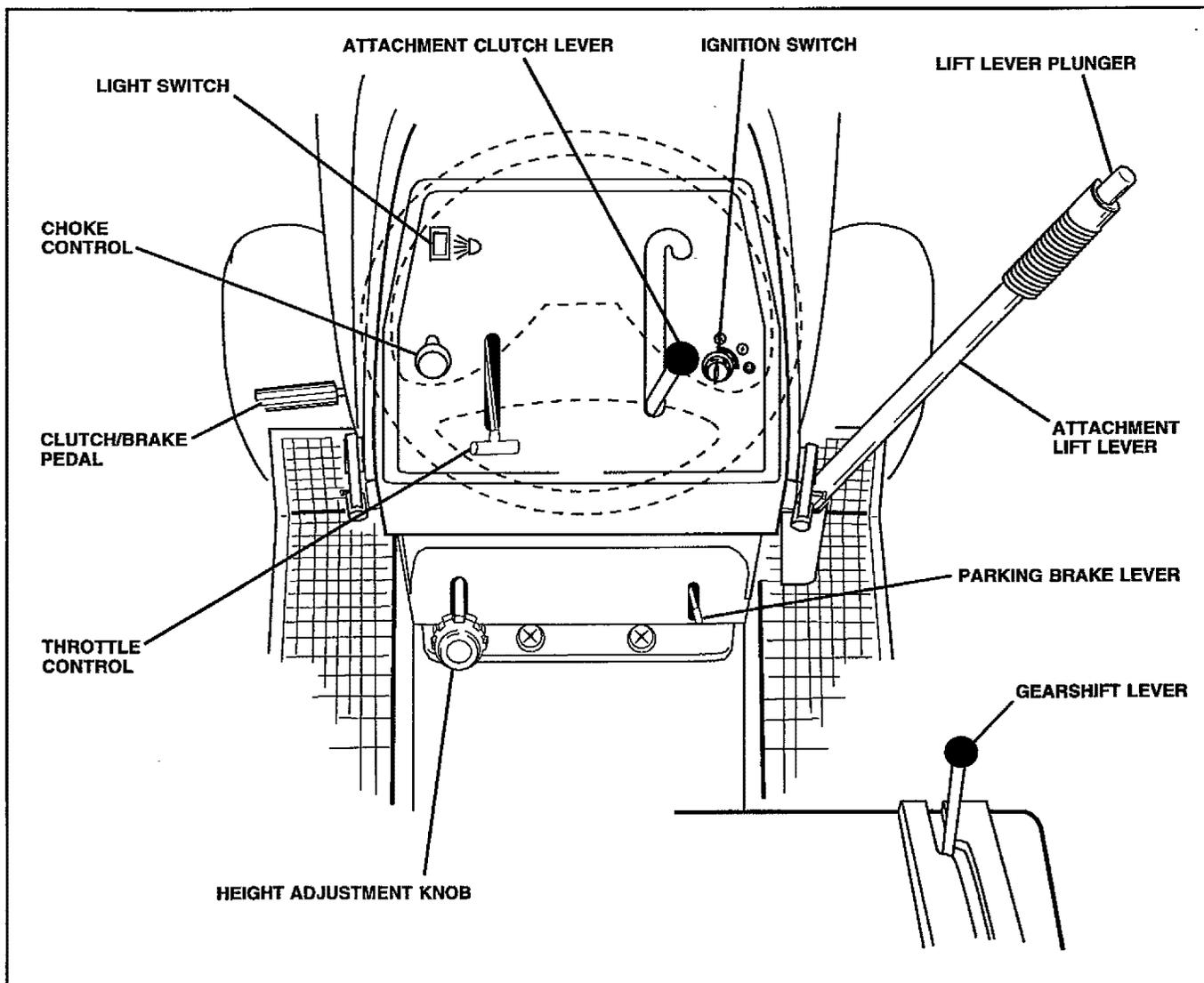


FIG. 10

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

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

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

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

**HEIGHT ADJUSTMENT KNOB** - Used to adjust the mower height.

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

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

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

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

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

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

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

# 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 over the spectacles or standard safety glasses.

## HOW TO USE YOUR TRACTOR

### TO SET PARKING BRAKE (See Fig. 11)

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

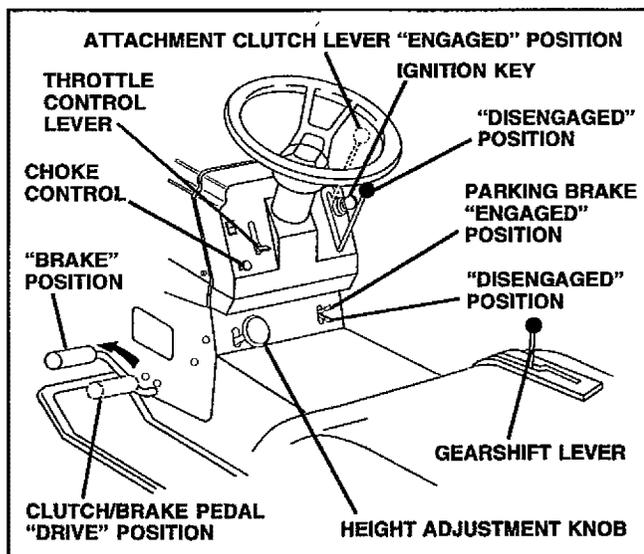


FIG. 11

### STOPPING (See Fig. 11)

#### MOWER BLADES -

- Move attachment clutch lever 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.

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

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

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



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

### TO USE CHOKE CONTROL (See Fig. 11)

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 in to disengage.

### TO USE THROTTLE CONTROL (See Fig. 11)

Always operate engine at full throttle.

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

### TO MOVE FORWARD AND BACKWARD (See Fig. 11)

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 lever to desired position.
- Slowly release clutch/brake pedal to start movement.

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

### TO ADJUST MOWER CUTTING HEIGHT (See Fig. 11)

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

# OPERATION

## TO OPERATE MOWER (See Figs. 11 & 12)

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

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



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

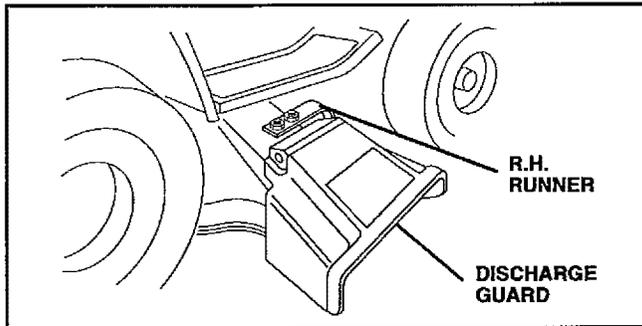


FIG. 12

## TO OPERATE ON HILLS



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

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

## TO TRANSPORT

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

**NOTE:** To protect hood from damage when transporting your tractor on a truck or trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

## BEFORE STARTING THE ENGINE

### CHECK ENGINE OIL LEVEL (See Fig. 13)

- 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 oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

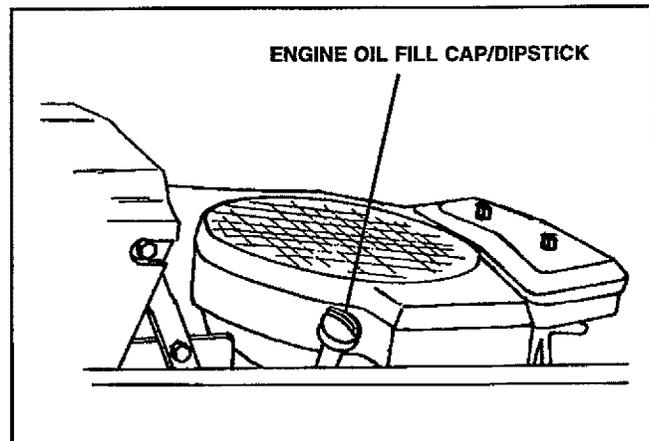


FIG. 13



# CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFORE EACH USE	FIRST 2 HOURS	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE	SERVICE DATES								
		TRACTOR	Check Brake Operation	✓		✓												
Check Tire Pressure	✓			✓														
Check for Loose Fasteners	✓								✓									
Sharpen/Replace Mower Blades						✓ <sub>4</sub>												
Lubrication Chart						✓			✓									
Check Battery Level/Recharge						✓												
Clean Battery and Terminals						✓				✓								
Check Transaxle Cooling						✓												
Adjust Blade Belt(s) Tension									✓ <sub>5</sub>									
Adjust Motion Drive Belt(s) Tension									✓ <sub>5</sub>									
ENGINE	Check Engine Oil Level	✓		✓														
	Change Engine Oil		✓		✓ <sub>1,2,3</sub>				✓									
	Clean Air Filter				✓ <sub>2</sub>													
	Clean Air Screen				✓ <sub>2</sub>													
	Inspect Muffler/Spark Arrester						✓											
	Replace Oil Filter (If equipped)							✓ <sub>1,2</sub>										
	Clean Engine Cooling Fins							✓ <sub>2</sub>										
	Replace Spark Plug							✓	✓									
	Replace Air Filter Paper Cartridge							✓ <sub>2</sub>										
	Replace Fuel Filter								✓									

1 - Change more often when operating under a heavy load or in high ambient temperatures.  
2 - Service more often when operating in dirty or dusty conditions.

3 - If equipped with oil filter, change oil every 50 hours.  
4 - Replace blades more often when mowing in sandy soil.  
5 - If equipped with adjustable system.

## GENERAL RECOMMENDATIONS

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

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

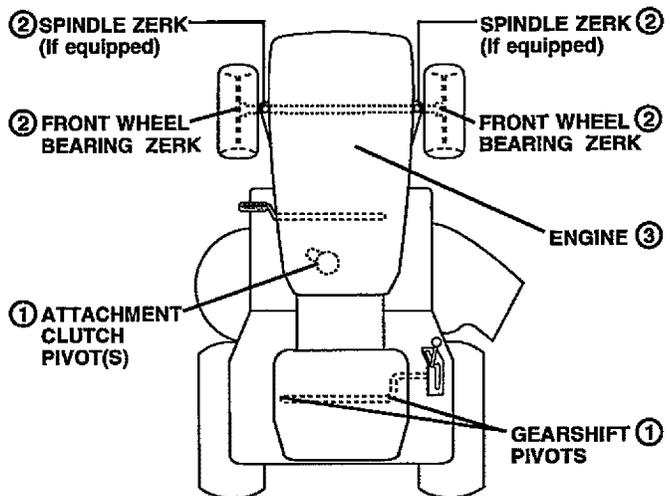
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

## BEFORE EACH USE

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

## LUBRICATION CHART



① SAE 30 OR 10W30 MOTOR OIL API - SG

② GENERAL PURPOSE GREASE

③ REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

**IMPORTANT:** DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

# CUSTOMER RESPONSIBILITIES

## TRACTOR

Always observe safety rules when performing any maintenance.

## BRAKE OPERATION

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

## TIRES

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

## BLADE CARE

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

## BLADE REMOVAL (See Fig. 15)

- 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.

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

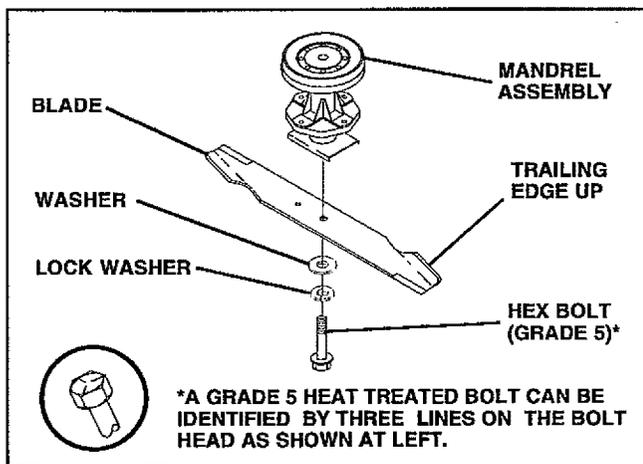


FIG. 15

## TO SHARPEN BLADE (See Fig. 16)

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.

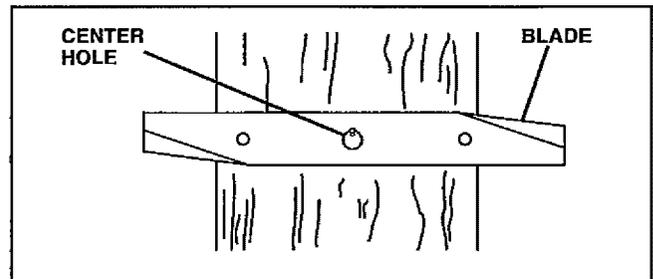


FIG. 16

## BATTERY (See Fig. 17)

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

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

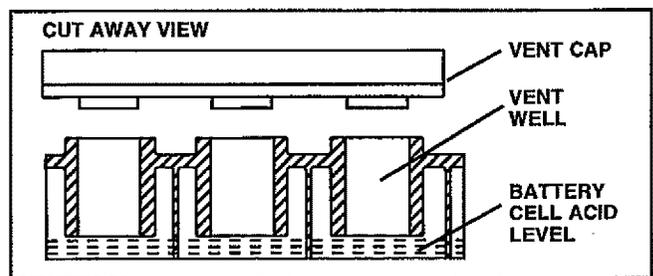


FIG. 17

# CUSTOMER RESPONSIBILITIES

## TO CLEAN BATTERY AND TERMINALS -

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

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

## V- BELTS

Check V-Belts for deterioration and wear after 100 hours and replace if necessary. The mower blade drive belt can be adjusted to provide you with longer belt life (See "TO ADJUST MOWER BLADE DRIVE BELT" in the Service and Adjustments section of this manual). The motion drive belt is not adjustable. Replace belts if they begin to slip from wear.

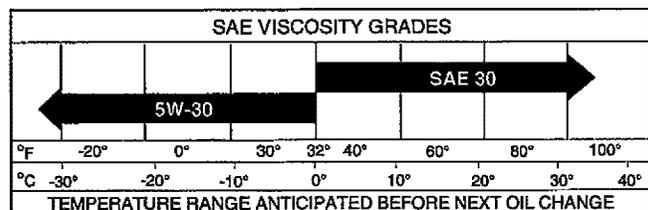
## TRANSAXLE COOLING

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

## ENGINE

### LUBRICATION

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



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

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

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

## TO CHANGE ENGINE OIL (See Fig. 18) -

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil filler cap. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Use gauge on oil fill dipstick for checking level. Be sure dipstick is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

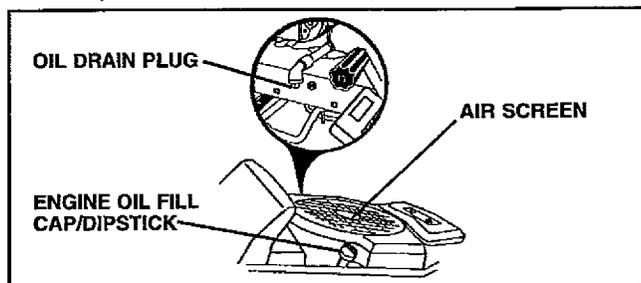


FIG. 18

## CLEAN AIR SCREEN (See Fig. 18)

The 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. 19)

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

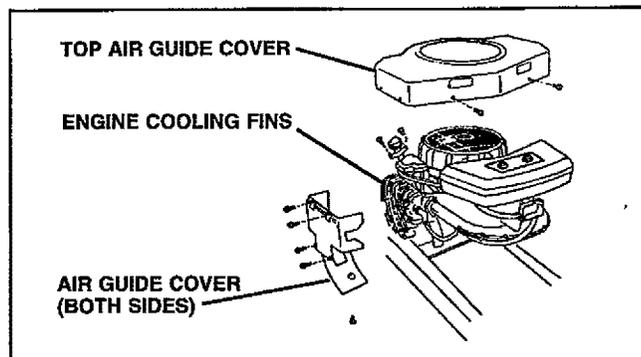


FIG. 19

# CUSTOMER RESPONSIBILITIES

## AIR FILTER (See Fig. 20)

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

Service air cleaner more often under dusty conditions.

- Remove knob(s) and cover.

TO SERVICE PRE-CLEANER -

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

TO SERVICE CARTRIDGE -

- Remove wing nuts and cartridge plate.
- Remove cartridge and clean by tapping gently on flat surface.
- If very dirty, replace or wash in a nonsudsing detergent and warm water solution. Rinse thoroughly with water from inside out until water runs clear. Let cartridge dry thoroughly before using.
- Reinstall cartridge plate, wing nuts, precleaner, cover and secure with knob(s).

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

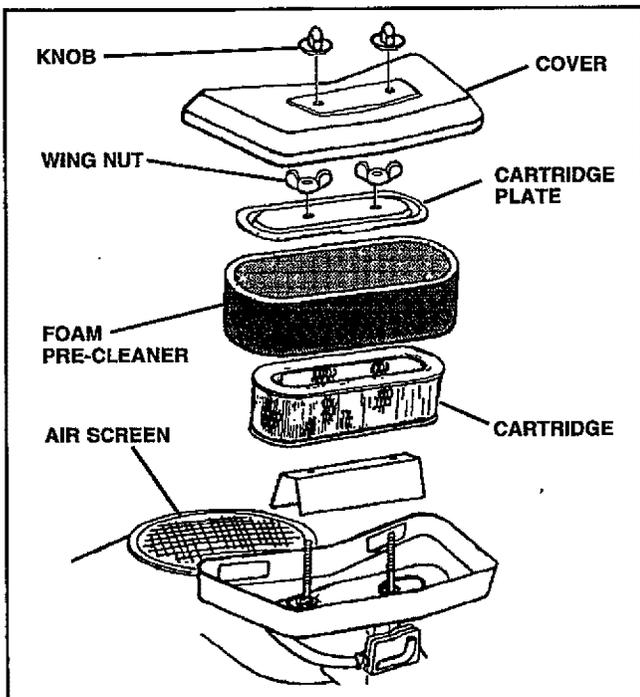


FIG. 20

## MUFFLER

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

## SPARK PLUGS

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

## IN-LINE FUEL FILTER (See Fig. 21)

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

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

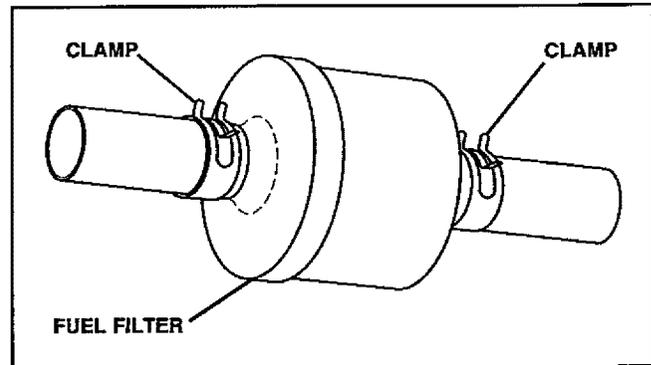


FIG. 21

## CLEANING

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

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

# SERVICE AND ADJUSTMENTS



## 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.

## TO REMOVE MOWER (See Fig. 22)

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

- Remove mower drive belt from engine pulley only (See "TO REPLACE MOWER DRIVE BELT" through step removing belt from mower drive pulley.)
- Remove retainer spring from clutch rod, pull clutch rod out of clutch lever.
- Pull retainer springs out of rear suspension trunnions.
- Remove rear suspension trunnions from lift brackets.
- Pull retainer springs from front hinge pins.
- Remove hinge pins attaching parallel link to mower and front axle.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

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

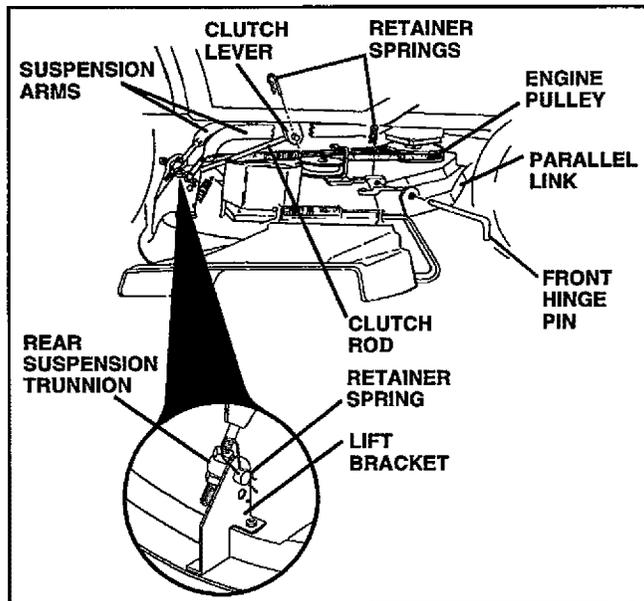


FIG. 22

## TO INSTALL MOWER

See "INSTALL MOWER" in the 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. 23 and 24)

- Raise attachment lift lever to its highest position.
- Measure height from bottom 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.

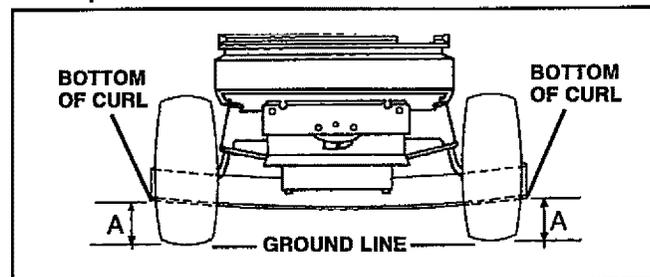


FIG. 23

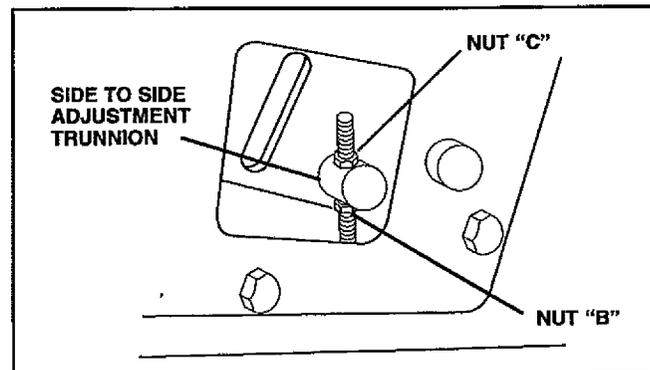


FIG. 24

# SERVICE AND ADJUSTMENTS

## FRONT-TO-BACK ADJUSTMENT (See Figs. 25 and 26)

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 highest adjustment position.

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

- 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".
- Recheck side-to-side adjustment.

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

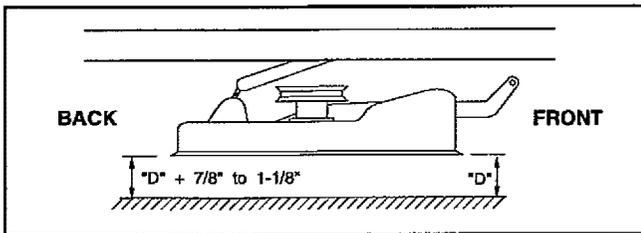


FIG. 25

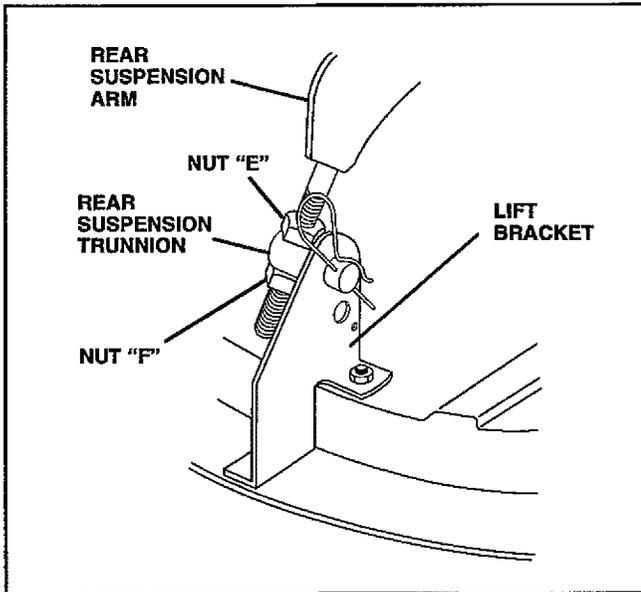


FIG. 26

## TO ADJUST MOWER DRIVE BELT (See Fig. 27)

Your tractor has been manufactured with the ability to re-adjust mower drive belt to provide you with longer belt life.

If the attachment clutch lever travels forward in the slot before spring tension resistance is evident, adjustment is necessary.

**IMPORTANT:** CHECK FOR PROPER SPRING TENSION WITH ENGINE OFF AND LIFT LEVER IN HIGHEST POSITION.

- Remove mower deck from tractor (See "TO REMOVE MOWER" in this section of this manual).
- Remove cotter pin from L.H. side of rock shaft assembly.
- Loosen the four locknuts on the R.H. and L.H. pivot brackets only until rock shaft assembly can be removed.
- Remove rock shaft assembly from pivot brackets.
- Remove extension spring from lower hole (original position) in rock shaft assembly and place in upper hole.
- Replace rock shaft assembly making sure carriage bolts are seated in square holes of mower housing.
- Replace cotter pin on L.H. side of rock shaft assembly.

**NOTE:** When installing a new belt, extension spring must be returned to lower hole (original position) on rock shaft assembly.

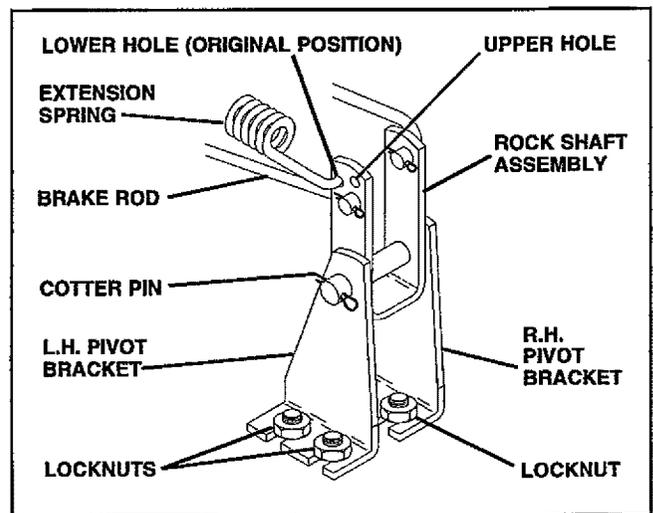


FIG. 27

# SERVICE AND ADJUSTMENTS

## TO REPLACE MOWER DRIVE BELT (See Figs. 28 and 29)

Park the tractor on level surface. Engage parking brake.

### BELT REMOVAL -

- 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.
- Roll belt off engine pulley.
- Pull belt off mower pulley and both idler pulleys.
- Slide belt from under spring.

**NOTE:** If necessary loosen guards and belt guides for ease of belt removal and installation.

### BELT INSTALLATION -

- Slide belt under spring.
- Place belt around mower pulley and both idler pulleys.
- Roll belt over engine pulley.
- Make sure belt is in all pulley grooves and inside all belt guides.

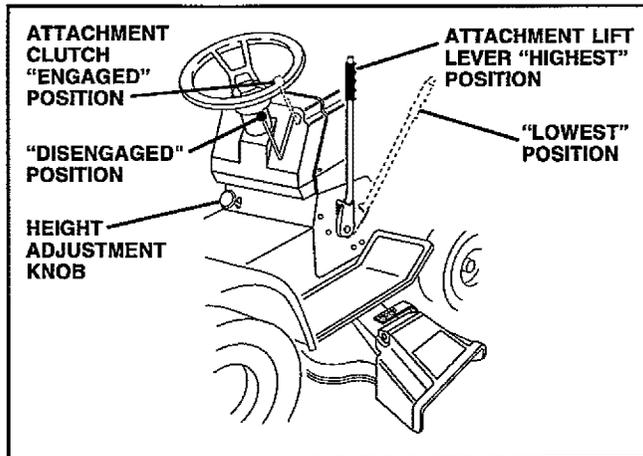


FIG. 28

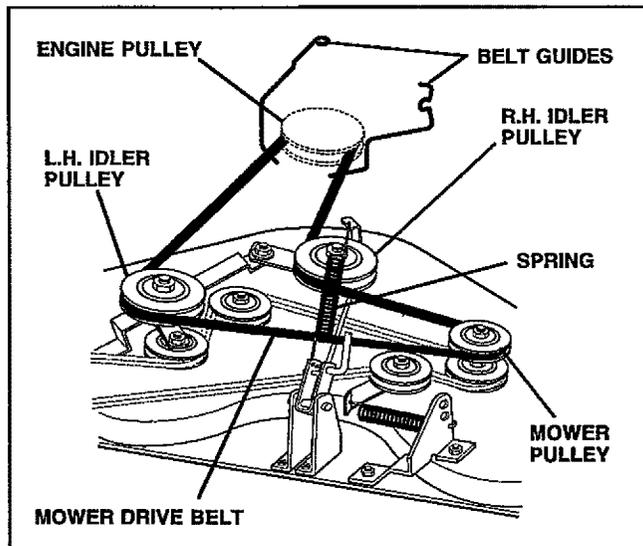


FIG. 29

## TO REPLACE MOWER BLADE DRIVE BELT (See Figs. 30, 31 and 32)

- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Pull mower blade drive belt towards rear of mower at tensioning pulley. Place a block between tensioning pulley and pivot bracket. Roll belt off tensioning pulley.
- Roll belt off all other pulleys.
- Use pliers to remove brake spring.
- Remove cotter pin from brake rod; then remove brake rod from rock shaft assembly.
- Pull belt out from under brake rod and off mower.
- To install belt, reverse above procedure. Make sure belt is engaged in all pulleys.

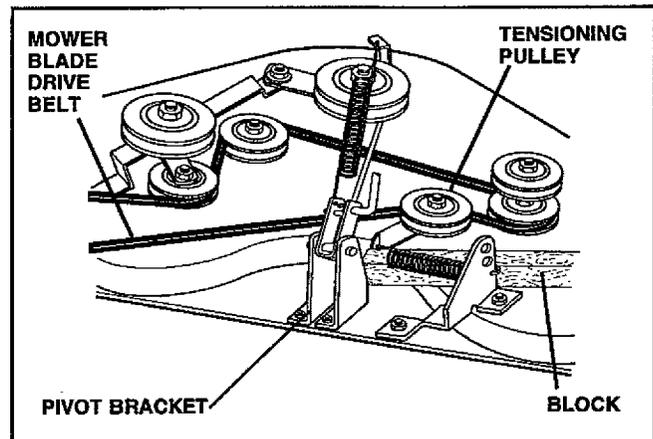


FIG. 30

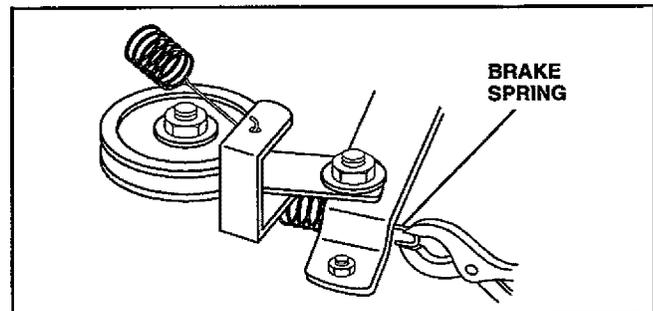


FIG. 31

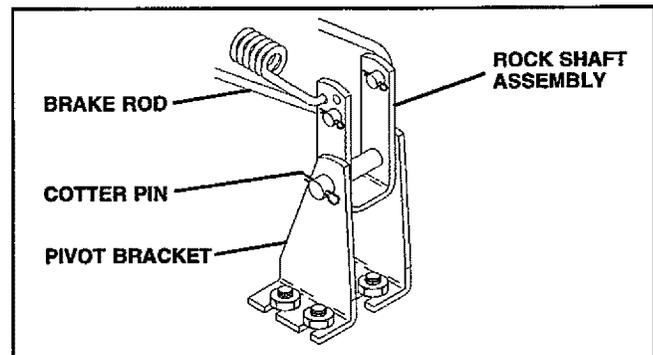


FIG. 32

# SERVICE AND ADJUSTMENTS

## TO ADJUST BRAKE (See Fig. 33)

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

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

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-12", disengage parking brake, loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Engage parking brake and recheck distance.
- Road test unit for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center.

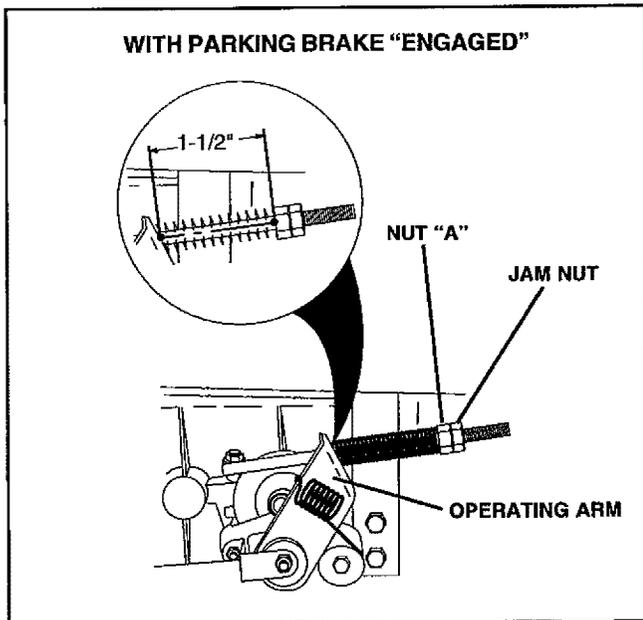


FIG. 33

## TO REPLACE MOTION DRIVE BELT (See Fig. 34)

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.

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

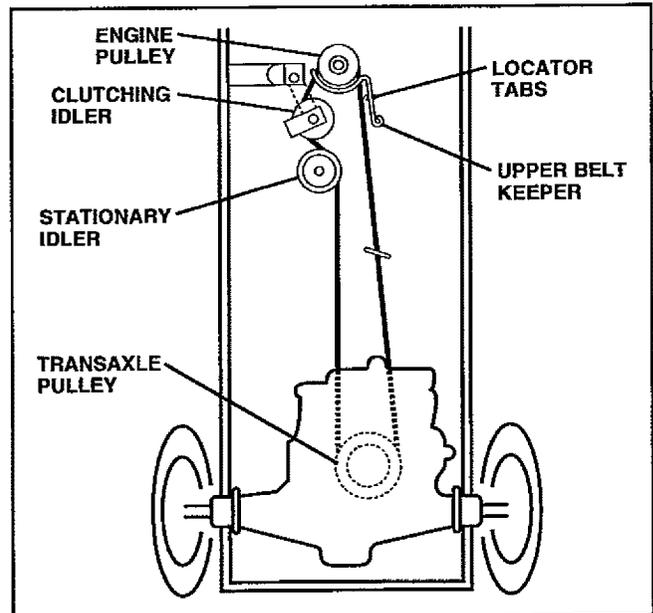


FIG. 34

# SERVICE AND ADJUSTMENTS

## TRANSAXLE SHIFTER LINKAGE AND ADJUSTMENT (See Figs. 35 and 36)

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

- Make sure transaxle is in neutral.
- Loosen two locknuts on tie rod.
- Turn center rod until gearshift lever falls into neutral lock gate on fender console.
- Tighten locknuts securely.

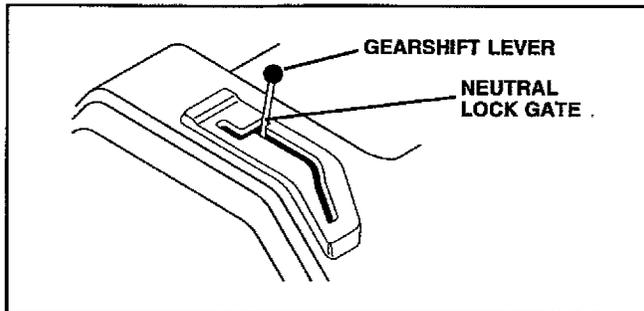


FIG. 35

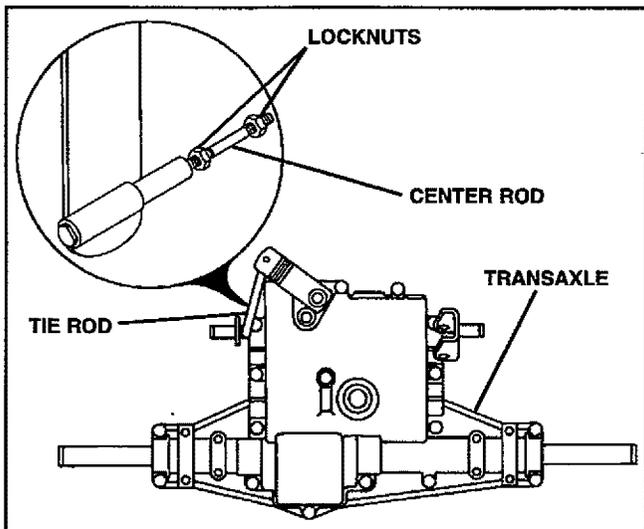


FIG. 36

## TO ADJUST STEERING WHEEL ALIGNMENT

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

## FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center.

## TO REMOVE WHEEL FOR REPAIRS (See Fig. 37)

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

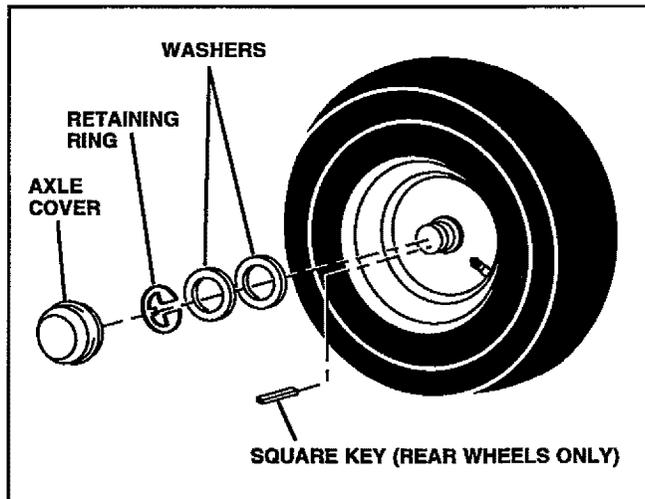


FIG. 37

# SERVICE AND ADJUSTMENTS

## TO START ENGINE WITH A WEAK BATTERY (See Figs. 41 and 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.

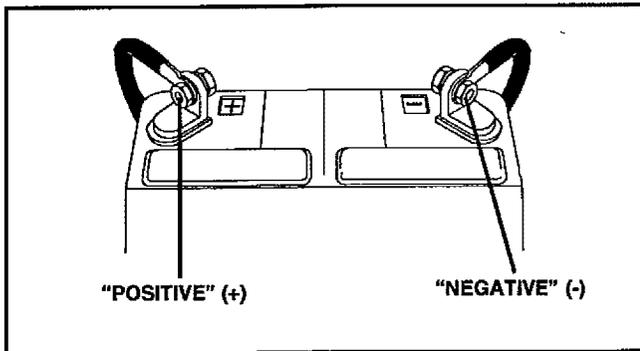


FIG. 41

## 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.

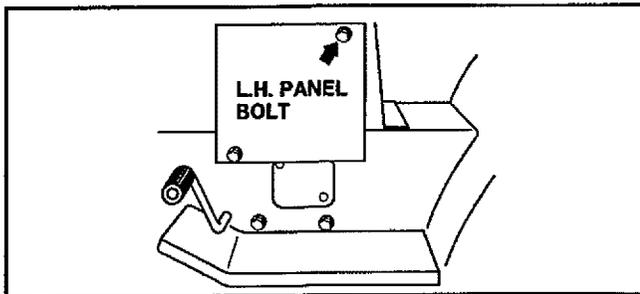


FIG. 42

## TO REMOVE CABLES, REVERSE ORDER -

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

## TO REPLACE HEADLIGHT BULB

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

## INTERLOCKS AND RELAYS

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

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

## TO REMOVE HOOD AND GRILL (See Fig. 43)

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt forward and lift off of tractor.
- To reinstall, slide hood pivot brackets into slots in frame.
- Reconnect headlight wire connector and close hood.

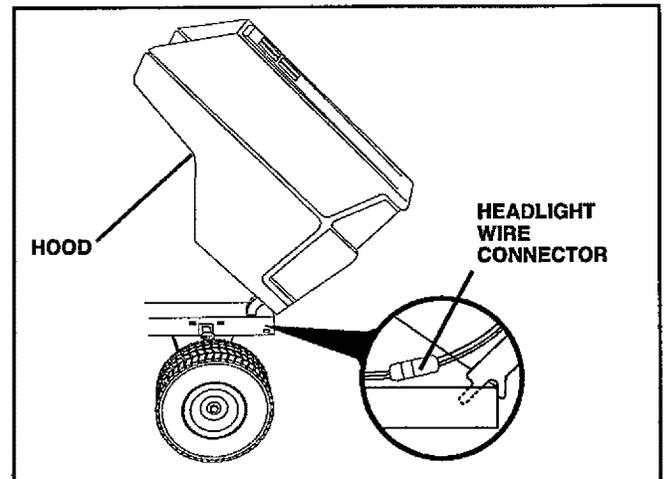


FIG. 43

# SERVICE AND ADJUSTMENTS

## ENGINE

### TO ADJUST THROTTLE CONTROL CABLE (See Fig. 41)

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 speed control lever is against stop screw. If it is not, loosen clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.

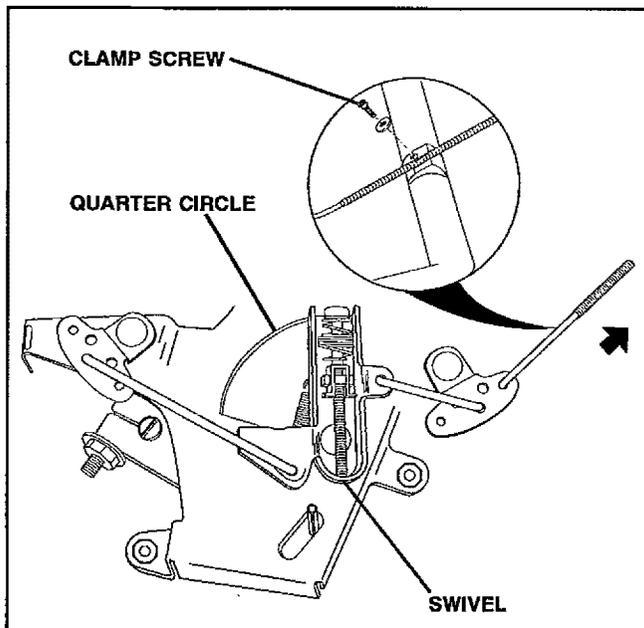


FIG. 41

### TO ADJUST CHOKE CONTROL (See Fig. 42)

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 spitback plate to expose carburetor choke (See "AIR FILTER" in the Customer Responsibilities section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke until choke is completely closed. Tighten casing clamp screw securely.
- Reassemble air cleaner.

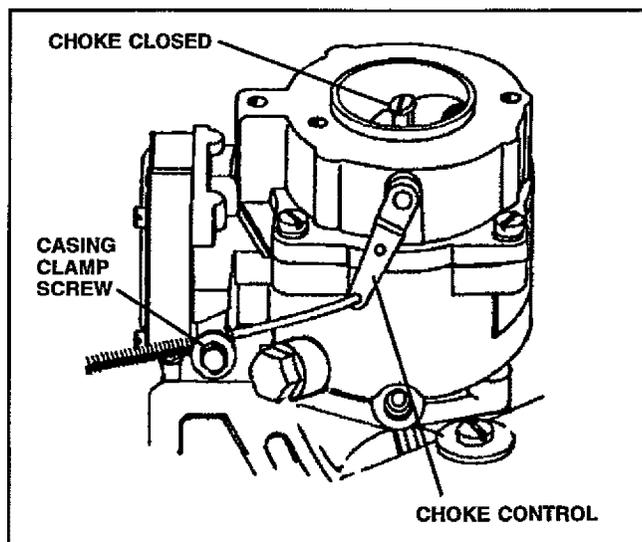


FIG. 42

# SERVICE AND ADJUSTMENTS

## TO ADJUST CARBURETOR (See Figs. 43 and 44)

The carburetor has been present 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.
- 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.

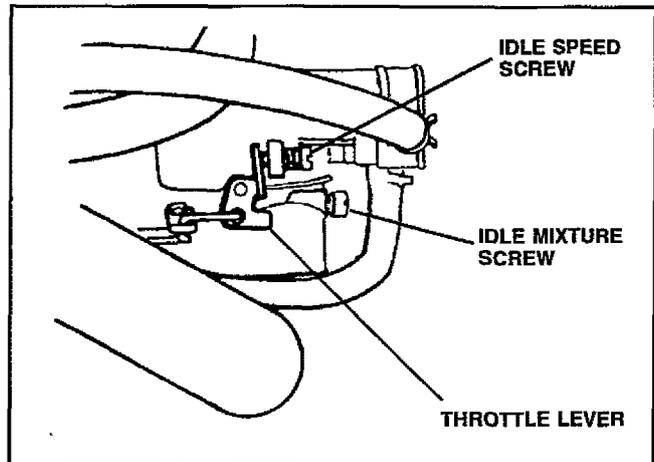


FIG. 43

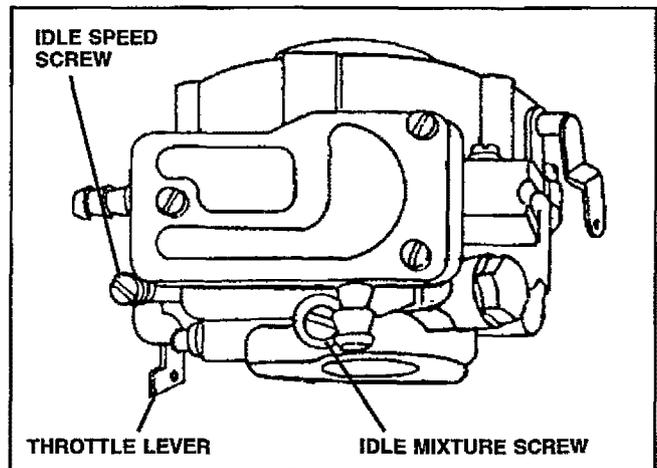


FIG. 44

---

# STORAGE

---

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



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

## TRACTOR

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

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

## BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- Be sure battery drain tube is securely attached.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

## ENGINE

### FUEL SYSTEM

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

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

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

### ENGINE OIL

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

### CYLINDERS

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

### OTHER

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

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

# TROUBLESHOOTING POINTS

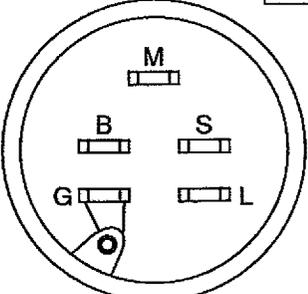
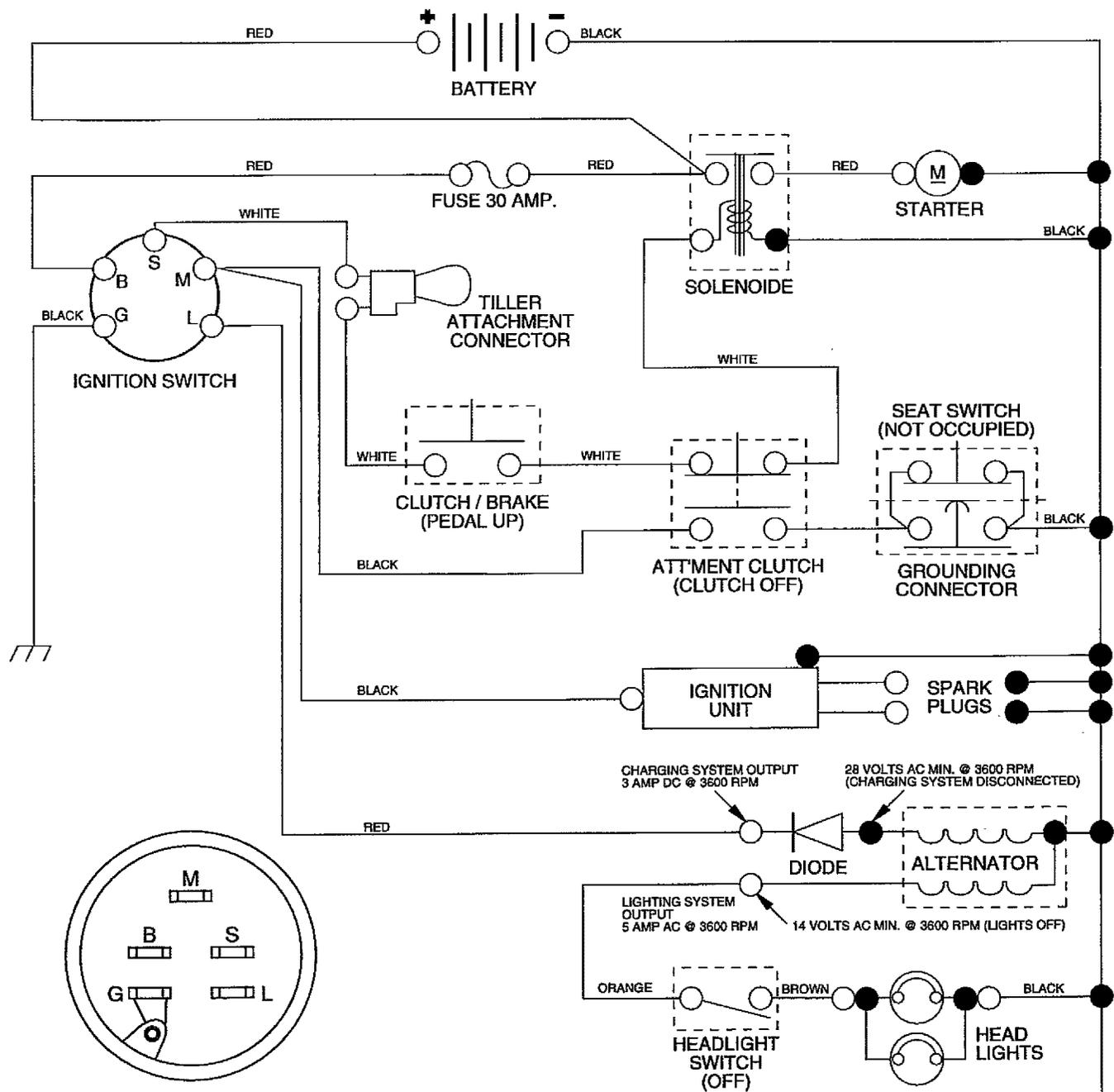
PROBLEM	CAUSE	CORRECTION
<b>Will not start</b>	<ol style="list-style-type: none"> <li>1. Out of fuel.</li> <li>2. Engine not "CHOKED" properly.</li> <li>3. Engine flooded.</li> <li>4. Bad spark plug.</li> <li>5. Dirty air filter.</li> <li>6. Dirty fuel filter.</li> <li>7. Water in fuel.</li>   <li>8. 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 an authorized service center/department.</li> <li>10. Contact an authorized service center/department.</li> </ol>
<b>Hard to start</b>	<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 an authorized service center/department.</li> <li>8. Contact an authorized service center/department.</li> </ol>
<b>Engine will not turn over</b>	<ol style="list-style-type: none"> <li>1. Clutch/brake pedal not depressed.</li> <li>2. Attachment clutch is engaged.</li> <li>3. Weak or dead battery.</li> <li>4. Blown fuse.</li> <li>5. Corroded battery terminals.</li> <li>6. Loose or damaged wiring.</li> <li>7. Faulty ignition switch.</li> <li>8. Faulty solenoid or starter.</li> <li>9. 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. Recharge or replace battery.</li> <li>4. Replace fuse.</li> <li>5. Clean battery terminals.</li> <li>6. Check all wiring.</li> <li>7. Check/replace ignition switch.</li> <li>8. Check/replace solenoid or starter.</li> <li>9. Contact an authorized service center/department.</li> </ol>
<b>Engine clicks but will not start</b>	<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>
<b>Loss of power</b>	<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 an authorized service center/department.</li> <li>15. Contact an authorized service center/department.</li> </ol>
<b>Excessive vibration</b>	<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 an authorized service center/ 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> <li>4. Faulty alternator.</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> <li>4. Replace alternator.</li> </ol>
Engine "backfires" when turning engine "OFF"	<ol style="list-style-type: none"> <li>1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.</li> </ol>

# 18 HP 44 " TRACTOR -- MODEL NUMBER 917.255890

## SCHEMATIC



IGNITION SWITCH

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

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

### WIRING INSULATED CLIPS

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

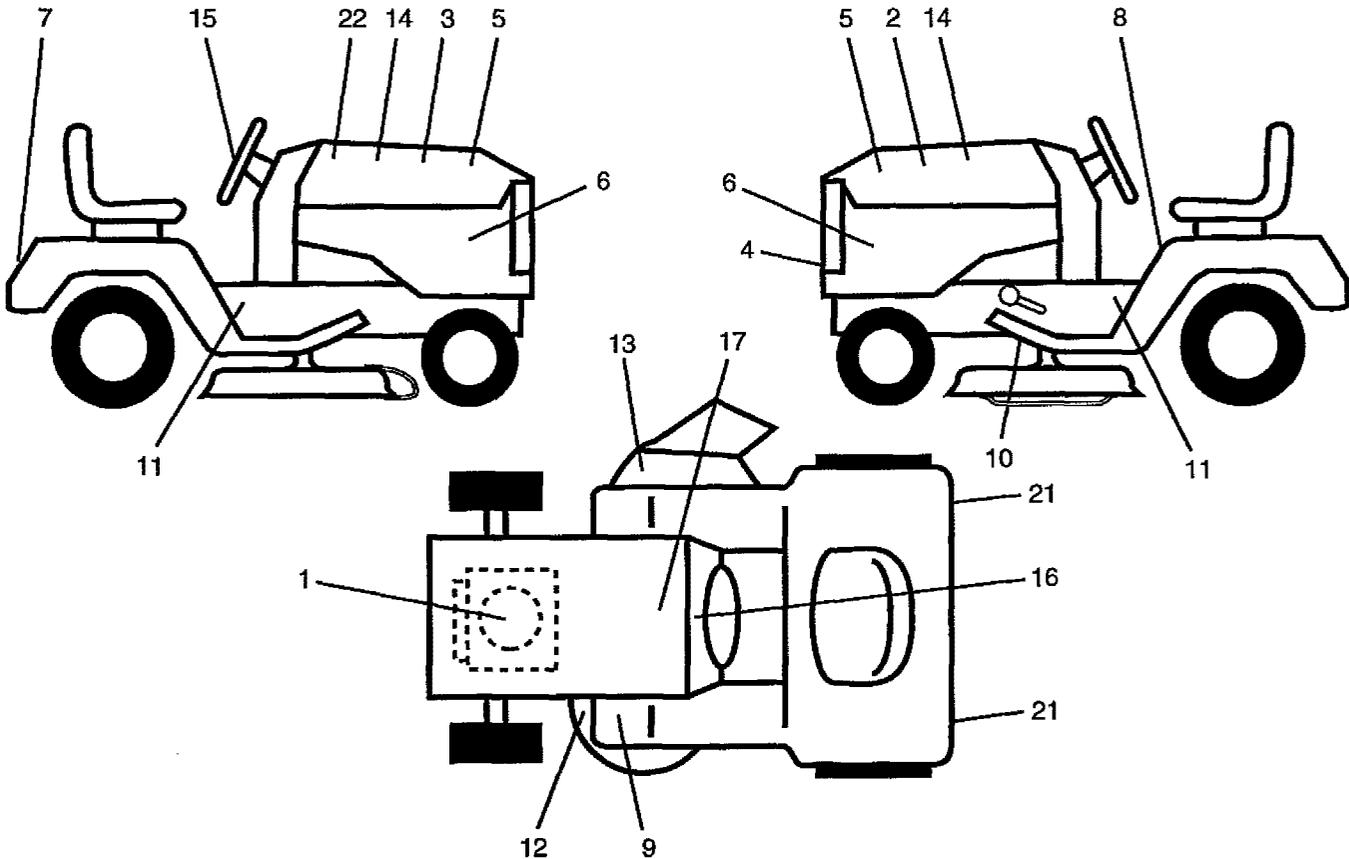
### NOTE

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

# REPAIR PARTS

18 HP 44" TRACTOR -- MODEL NUMBER 917.255890

## DECALS

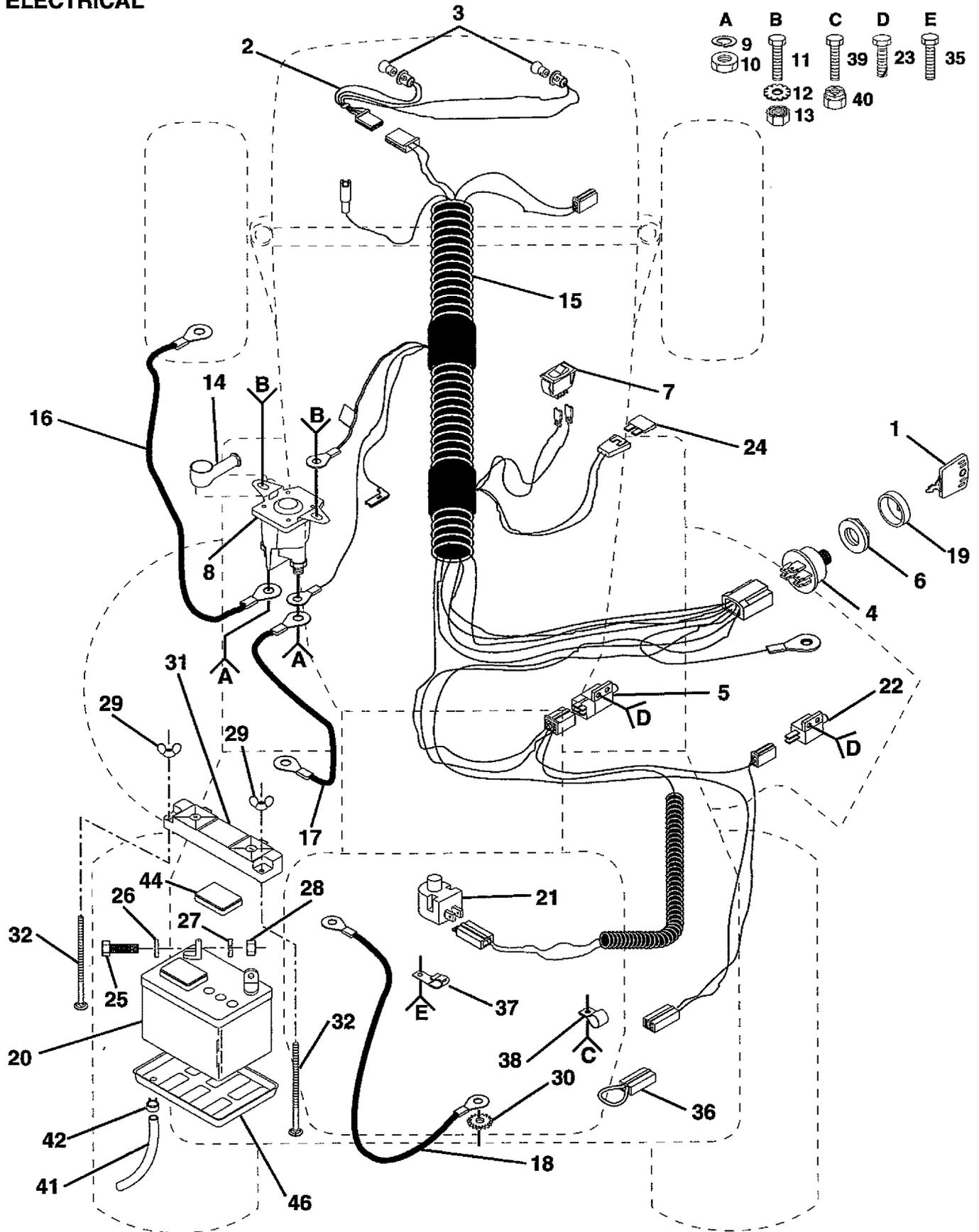


KEY NO.	PART NO.	DESCRIPTION
1	136127	Decal, Engine, HP
2	138280	Decal, Hood, Stripe, L.H.
3	138279	Decal, Hood, Stripe, R.H.
4	138264	Decal, Grill
5	138261	Decal, Side Panel, L.H.
6	108631X	Decal, II
7	125880X	Decal, Fender
8	137537	Decal, Caution
9	4900J	Decal, Clutch/Brake
10	109199X	Decal, V-Belt Drive
11	105567X	Decal, Chassis, Speed/Deck Size
12	136834	Decal, Mower Drive Belt
14	138049	Decal, Side Panel, Diehard
15	132267	Decal, Steering Wheel Insert
16	136794	Decal, Operating Instructions, Dash
17	138047	Decal, Battery, Diehard
21	106202X	Taillight Reflector
22	133644	Decal, Customer Maintenance
--	137758	Owner's Manual, English
--	137759	Owner's Manual, Spanish
--	101539X	Sheet, Slope

# REPAIR PARTS

18 HP 44" TRACTOR -- MODEL NUMBER 917.255890

## ELECTRICAL



# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

## ELECTRICAL

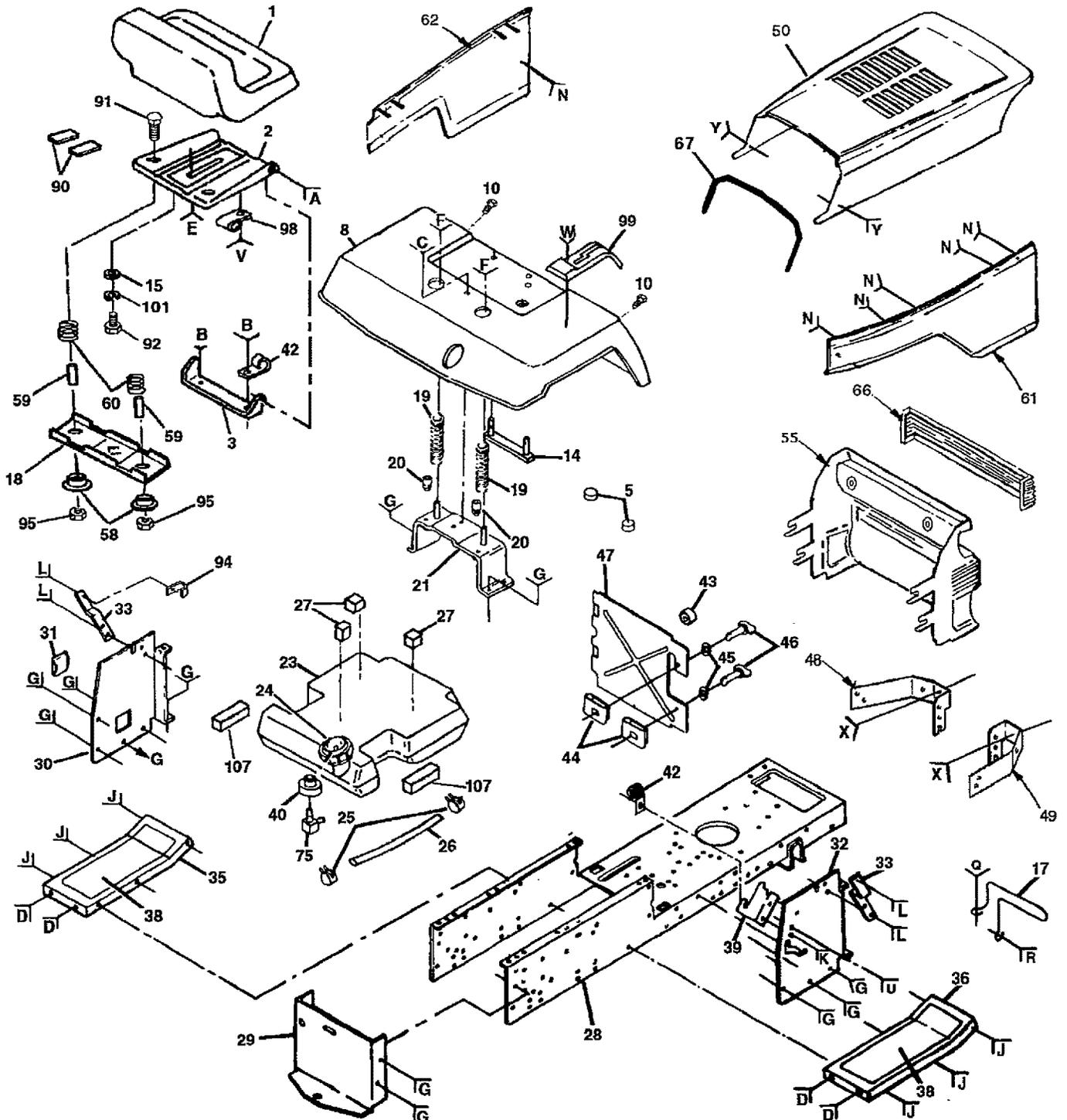
KEY NO.	PART NO.	DESCRIPTION
1	109310X	Key, Ignition
2	136850	Harness, Light Socket (Includes Key Number 3)
3	4152J	Bulb, Light
4	4406R	Switch, Ignition
5	109553X	Switch, Interlock, Attachment Clutch
6	124211X	Nut, Ignition
7	110712X	Switch, Light
8	109081X	Solenoid
9	10090400	Washer, Lock 1/4
10	73350400	Nut, Hex, Jam 1/4-20
11	74780408	Bolt, Hex Head, Fin. 1/4-20 UNC x 1/2
12	11050400	Washer, Lock, External Tooth 1/4
13	73510400	Nut, Hex, Keps 1/4-20
14	131563	Cover, Terminal
15	138318	Harness, Ignition
16	4799J	Cable, Battery
17	4206J	Cable, Battery
18	4207J	Cable, Ground
19	123620X	Cover, Key Switch
20	121537X	Battery
21	121305X	Switch, Seat
22	104445X	Switch, Interlock, Clutch
23	17021008	Screw, Hex Head, Self-Tapping #10-24 x 1/2
24	108824X	Fuse
25	74760412	Bolt, Hex Head 1/4-20 x 3/4
26	STD551025	Washer 9/32 x 5/8 x 16 Gauge
27	STD551125	Washer, Lock 1/4
28	STD541025	Nut, Hex 1/4-20
29	123198X	Nut, Wing 1/4-20
30	11050600	Washer, Lock, External Tooth 3/4
31	102476X	Guard, Terminal
32	72240460	Bolt, Carriage 1/4-20 x 7-1/2
35	74760612	Bolt, Hex Head, Fin. 3/8-16 UNC x 3/4
36	102501X	Wire Loop
37	2751R	Clip, Fuel Line
38	235R	Clip, Insulation
39	74780408	Bolt, Hex Head 1/4-20 x 1/2
40	73680400	Nut, Crownlock 1/4-20
41	7697J	Clamp, Hose
44	121264X	Cap, Battery
46	7603J	Tray, Battery
--	7192J	Wire Tie

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

# REPAIR PARTS

18 HP 44" TRACTOR -- MODEL NUMBER 917.255890

## CHASSIS AND ENCLOSURES



- |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | J | K | L | N | O | Q | R | U | V | W | X |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

# REPAIR PARTS

## 18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

### CHASSIS AND ENCLOSURES

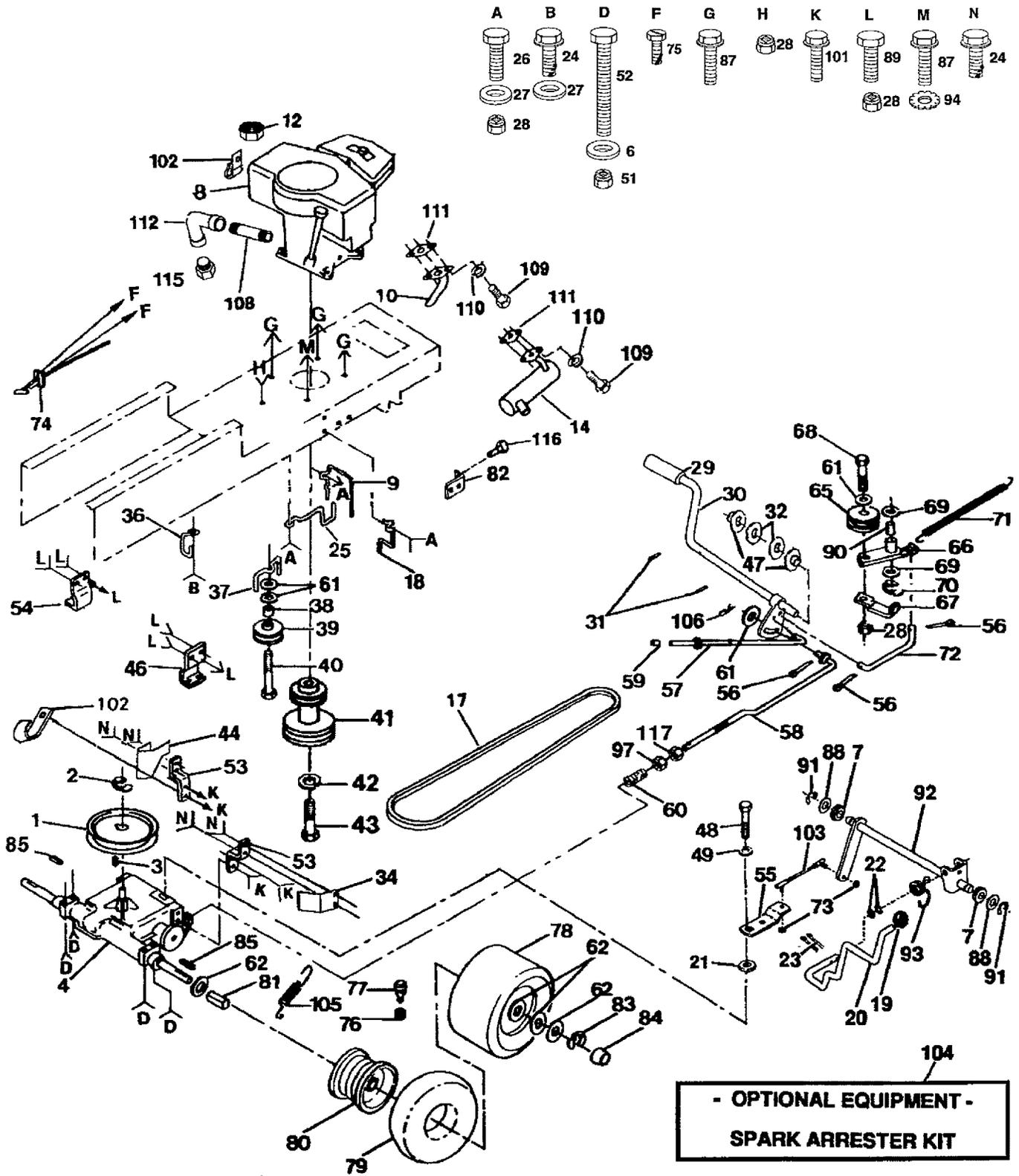
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	127437	Seat	48	136814	Hinge Bracket, Front, L.H.
2	131451	Pan, Seat	49	136813	Hinge Bracket, Front, R.H.
3	126656X	Bracket, Pivot, Seat	50	136673X417	Hood
4	105529X	Bolt, Shoulder 5/16-18	54	108067X	Nut, Pal
5	124238X	Cap, Spring	55	137694	Grill
6	STD541431	Nut, Crownlock 5/16-18	58	121248X	Bushing, Snap
7	STD541437	Nut, Crownlock 3/8-16	59	134300	Spacer, Split
8	123784X417	Fender	60	121250X	Spring, Compression
9	17490508	Screw	61	136670X417	Panel, Side, R.H.
10	17490608	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 1/2	62	136671X417	Panel, Side, L.H.
11	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4	64	10040400	Washer, Lock
12	19131312	Washer 13/32 x 13/16 x 12 Gauge	66	136374	Lens, Clear, Bar
13	STD523707	Bolt, Hex Head 3/8-16 x 3/4	67	137304	Rod, Support, Hood
14	105511X	Strap, Fender	75	139277	Stem, Fuel Tank
15	19171912	Washer 17/32 x 1-3/16 x 12 Gauge	77	74760408	Bolt, Hex Head, Fin. 1/4-20 UNC x 1/2
17	135029	Guard, Muffler	79	11050600	Washer, Lock, External Tooth 3/8
18	121246X	Bracket, Seat Switch	83	17490616	Bolt, Hex Washer Head, Thd., Roll. 3/8-16 x 1
19	124181X	Compression, Spring	84	19131616	Washer 13/32 x 1 x 16 Gauge
20	105531X	Nut, Push	85	19131614	Washer 13/32 x 1 x 14 Gauge
21	137113	Bracket, Fender	86	19060718	Washer 3/16 x 7/16 x 18 Gauge
23	127334X	Tank, Fuel	87	106909X	Screw, Special
24	123549X	Cap, Fuel	88	106910X	Washer
25	123487X	Clamp, Hose	89	108402X	U-Clip
26	5277J	Line, Fuel	90	121251X	Strip, Foam
27	106082X	Pad, Spacer	91	72170410	Bolt, Carriage 1/4-20 x 1-1/4
28	127166X	Chassis Assembly	92	74780814	Bolt, Hex Head, Fin. 1/2-13 x 7/8 Grade 5
29	123785X	Drawbar	93	127018X	Bolt, Shoulder 5/16-18 x .62
30	138644	Panel, Dash, L.H.	94	5320R	Clip, Insulated
31	121794X	Cover, Access	95	123976X	Nut, Hex, Large, Flange
32	138643	Panel, Dash, R. H.	96	STD511005	Screw, Slotted Pan Head #10-24 x 1/4
33	138193	Bracket, Support, Dash	97	73951000	Nut, Hex, Keps #10-24
35	105465X417	Footrest, L.H.	98	4171R	Clip, Insulated
36	105464X417	Footrest, R.H.	99	123825X	Console, Shifter
37	STD533707	Bolt, Carriage 3/8-16 x 3/4	100	STD533710	Bolt, Carriage 3/8-16 UNC x 1
38	105466X	Pad, Footrest	101	STD551150	Washer, Lock 1/4
39	110923X	Bracket, Clutch, Mower	102	10100800	Washer, Lock
40	3645J	Bushing	103	74640806	Screw #8 x 3/8
42	2751R	Clip, Insulated	104	120579X	Nut, Pal
43	110436X	Grommet, Split	107	109227X	Pad, Spacer
44	105839X	Receptacle, 1/4 Turn			
45	105838X	Retainer, 1/4 Turn			
46	123650X	Stud, 1/4 Turn			
47	105867X	Shield, Heat			

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

# REPAIR PARTS

18 HP 44" TRACTOR -- MODEL NUMBER 917.255890

## DRIVE



# REPAIR PARTS

## 18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

### DRIVE

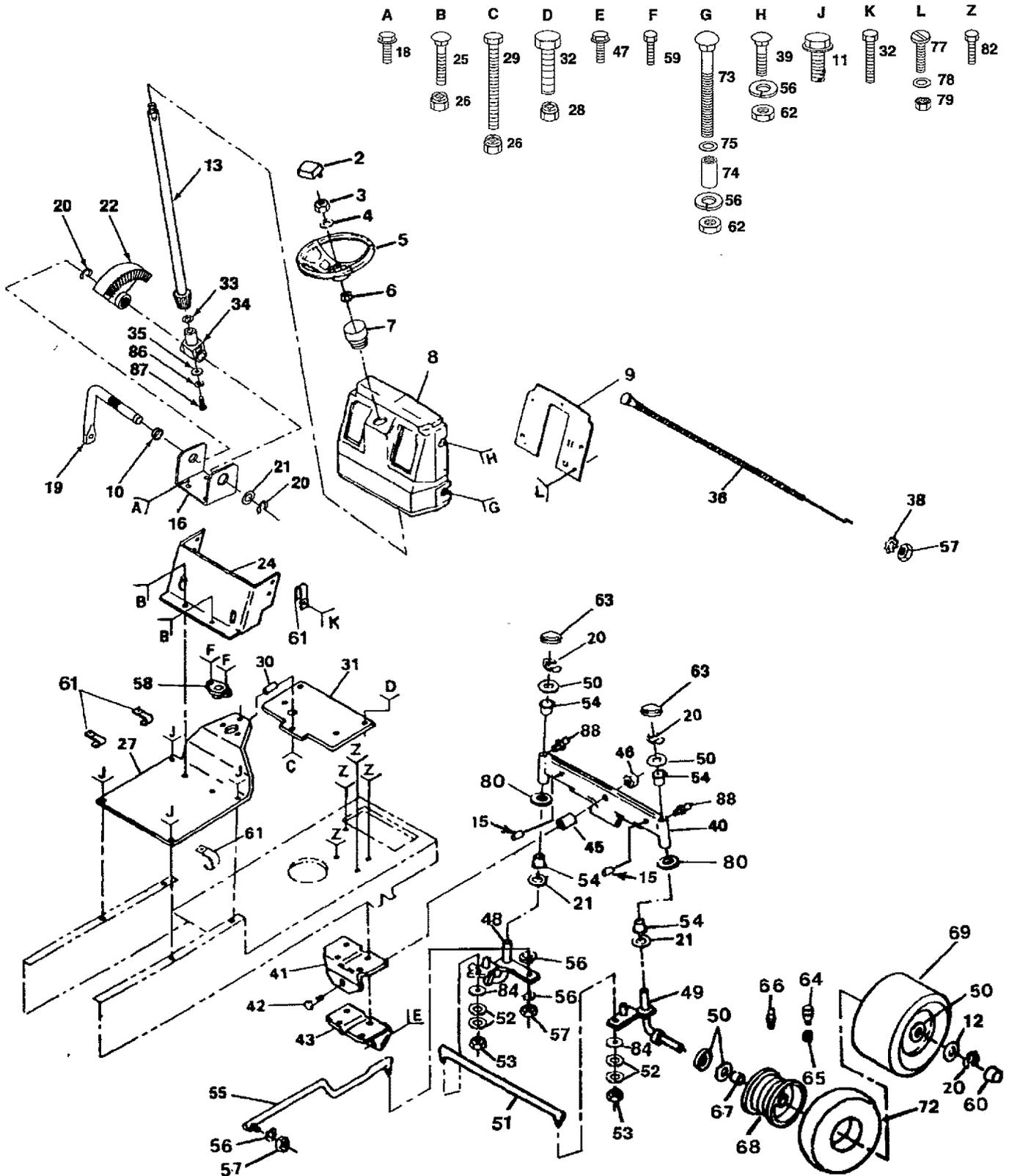
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	121327X	Pulley, Transaxle	60	126909X	Spring, Brake Rod
2	12000004	Ring, Retainer	61	STD551037	Washer 13/32 x 13/16 x 16 Gauge
3	2228M	Key, Woodruff #9	62	123800X	Washer 1-1/32 x 1-5/8 x 16
4	123797X	Transaxle, Peerless, 6 Speed, Model Number 143.820-016	65	127783	Pulley, Idler, V-Groove
6	19111214	Washer 11/32 x 3/4 x 14 Gauge	66	123789X	Arm, Idler
7	71208	Bushing, Steering Rod	67	123205X	Retainer, Belt
8	137620	Engine, Briggs & Stratton, 18 HP, Model #422707, Type #1254-01	68	STD523715	Bolt, Hex Head 3/8-16 X 1-1/2
9	121440X	Guide, Belt, Lower, Engine	69	110812X	Washer, Hardened
10	100229L	Tube Assembly, Exhaust	70	12000039	Ring, Clip
12	STD541437	Nut, Hex, Keps 3/8-16	71	105709X	Spring, Return, Clutch
14	108373X	Muffler	72	105710X	Link, Clutch
17	123796X	V-Belt, Drive	73	73530400	Nut 1/4-28
18	121441X	Guide, Belt, Lower, Engine	74	132755	Control, Throttle
19	106933X	Knob	75	17720410	Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
20	123781X	Rod, Shifter	76	59192	Cap, Valve
21	105701X	Washer, Shift Plate	77	65139	Stem, Valve
22	19171216	Washer 17/32 x 3/4 x 16 Gauge	78	124106X	Tire, Rear
23	STD561210	Pin, Cotter 1/8 x 1	79	7152J	Tube (Optional, Service Item Only)
24	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4	80	124074X361	Rim
25	129921	Keeper, Belt, Engine, L.H.	81	108097X	Spacer, Split
26	STD523710	Bolt, Hex 3/8-16 x 1	82	108236X	Bracket, Switch
27	19131312	Washer 13/32 x 13/16 x 12 Gauge	83	12000053	E-Ring
28	73680600	Nut, Crownlock 3/8-16	84	104757X	Cover, Axle, Rear
29	8883R	Cover, Foot Pedal	85	9396E	Key, Square 1/4 x 2
30	122424X	Shaft, Foot Pedal	87	17490624	Bolt, Hex Washer Head, Thd., Roll. 3/8-16 x 1-1/2
31	1572H	Pin, Roll 3/16 x 1	88	19212016	Washer 21/32 x 1-1/4 x 16 Gauge
32	STD551062	Washer 21/32 x 1 x 16 Gauge	89	STD523707	Bolt, Hex Head 3/8-16 x 3/4
34	123792X	Keeper, Belt, Transaxle, R.H.	90	105706X	Bearing
36	136715	Keeper, Chassis, Center Span	91	12000008	Ring, Klip
37	109070X	Keeper, Belt	92	123772X	Shaft Assembly, Shifter
38	4470J	Spacer	93	123782X	Spring, Torsion
39	123674X	Idler, Flat	94	STD551237	Washer, Lock, Ext. Tooth 3/8
40	STD523727	Bolt, Hex Head 3/8-16 x 2-3/4	97	STD541437	Locknut 3/8-16
41	134826	Pulley, Engine	101	17490512	Screw, Hex Washer Head, Thd., Roll. 5/16-18 x 3/4
42	10040700	Washer, Lock	102	2751R	Clip, Fuel Line
43	71170768	Bolt, Hex Head 7/16-20 x 4-1/4 Grade 5	103	123793X	Rod, Tie
44	123791X	Keeper, Belt, Transaxle, L.H.	104	132922	Spark Arrester Kit
46	123776X	Bracket, Transaxle, RH.	105	110422X	Spring, Brake Return
47	120183X	Bearing, Nylon	106	4497H	Clip, Hair Pin
48	71040412	Bolt, Hex Head 1/4-28 x 3/4	108	13280336	Nipple, Pipe
49	STD551025	Washer 9/32 x 3/4 x 16 Gauge	109	STD522507	Bolt, Hex Head 1/4-20 x 3/4
51	STD541431	Nut, Crownlock 5/16-18	110	STD551125	Washer, Lock 1/4
52	74780544	Bolt, Hex Head 5/16-18 x 2-3/4	111	8545J	Gasket
53	123787X	Strap, Torque	112	13200300	Elbow, Pipe, Standard 90°
54	123780X	Bracket, Transaxle, L.H.	115	- - -	Plug, Oil Drain (Order from Engine Manufacturer)
55	123794X	Shift Arm	116	STD601005	Screw, Hex Head, Self-Tapping #10-24 x 1/2
56	STD561210	Pin, Cotter 1/8 x 3/4	117	73350600	Nut, Hex, Jam 3/8-16 UNC
57	133261	Rod, Parking Brake			
58	123786X	Rod, Brake			
59	124236X	Cap, Plunger			

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

# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

## STEERING AND FRONT AXLE



# REPAIR PARTS

## 18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

### STEERING AND FRONT AXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2	133742	Insert, Steering Wheel	46	73601000	Locknut, Hex W/washer 5/8-11
3	73940800	Nut, Toplock 1/2-20 UNF	47	17490508	Screw, Hex Washer Thd. Rolling 5/16-18 x 1/2
4	100712K	Washer	48	135227	Spindle, L.H.
5	133741	Steering Wheel	49	135228	Spindle, R.H.
6	100711L	Adapter, Steering Wheel	50	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
7	106015X	Sleeve, Steering	51	130467	Rod, Tie
8	136696	Dash	52	STD551131	Washer, Lock 5/16
9	129621X020	Plate, Dash	53	STD541131	Nut, Hex 5/16-24
10	109816X	Nyliner, Snap-In	54	3366R	Bearing
11	17490608	Screw, Hex Washer Head, Thd., Roll. 3/8-16-1/2	55	130468	Link, Drag
12	121748X	Washer 25/32 x 1-5/8 x 16 Gauge	56	STD551137	Washer, Lock 3/8
13	128755	Shaft, Steering	57	STD541137	Nut, Hex 3/8-24
15	132624	Pin, Axle 5/8 x 1.55/1.54	58	1554J	Bushing, Steering
16	124036X	Bracket, Steering	59	17431008	Screw, Hex Head #10-16 x 1/2
18	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4	60	104757X	Cap, Hub, Front
19	127501	Shaft, Pitman	61	2751R	Clip, Fuel Line
20	12000029	Ring, Klip	62	STD541037	Nut, Hex 3/8-16
21	6266H	Bearing, Thrust	63	121232X	Spindle, Cap
22	136874	Gear, Sector	64	59192	Cap, Valve
24	105518X	Dash, Lower	65	65139	Stem, Valve
25	74180512	Screw, Truss Head 5/16-18 x 3/4	66	278H	Fitting, Grease
26	STD541431	Nut, Crownlock 5/16-18	67	9040H	Bearing
27	123783X016	Saddle	68	106732X361	Rim, Front
28	STD541437	Nut, Crownlock 3/8-16	69	106222X	Tire, Front
29	STD523120	Bolt, Hex Head 5/16-18 x 2	72	59904	Tube (Optional, Service Item Only)
30	121236X	Spacer	73	72110622	Bolt, Carriage 3/8-16 x 2-3/4
31	128231	Support Plate, Battery	74	121235X	Spacer
32	STD523707	Bolt, Hex Head 3/8-16 x 3/4	75	19131416	Washer 13/32 x 7/8 x 16 Gauge
33	57079	Washer	77	STD512507	Screw, Pan Head 1/4-20 x 3/4
34	124035X	Shaft, Support	78	19091216	Washer 13/32 x 3/4 x 16 Gauge
35	126684X	Washer 5/8 x 1/4 x 16 Gauge	79	73510400	Nut, Hex, Keps 1/4 NC
36	132779	Control, Choke	80	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
38	STD551237	Washer, Lock, Internal/External Tooth 3/8	82	122819X	Screw, Special 3/8-16 x 3/4
39	72110608	Bolt, Carriage	84	19111216	Washer 11/32 x 3/4 x 16 Gauge
40	108075X	Axle, Front	86	STD551125	Washer, Lock 1/4
41	105663X	Support, Saddle, Rear	87	71070410	Screw, Hex Socket Head 1/4 x 20 x 5/8
42	74761060	Bolt, Hex Head 5/8-11 x 3-3/4	88	6855M	Fitting, Grease
43	105664X	Support, Saddle, Front			
45	110438X	Spacer Bearing, Front Axle			

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



# REPAIR PARTS

## 18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

### LIFT ADJUSTMENT

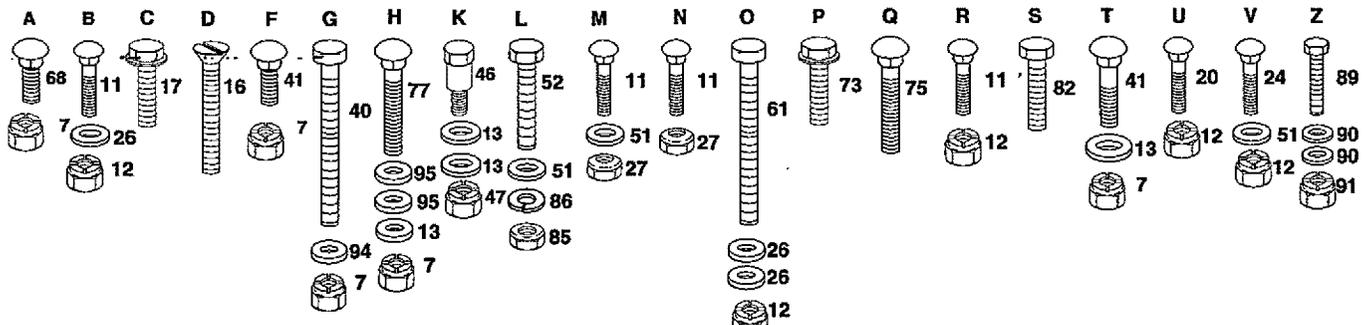
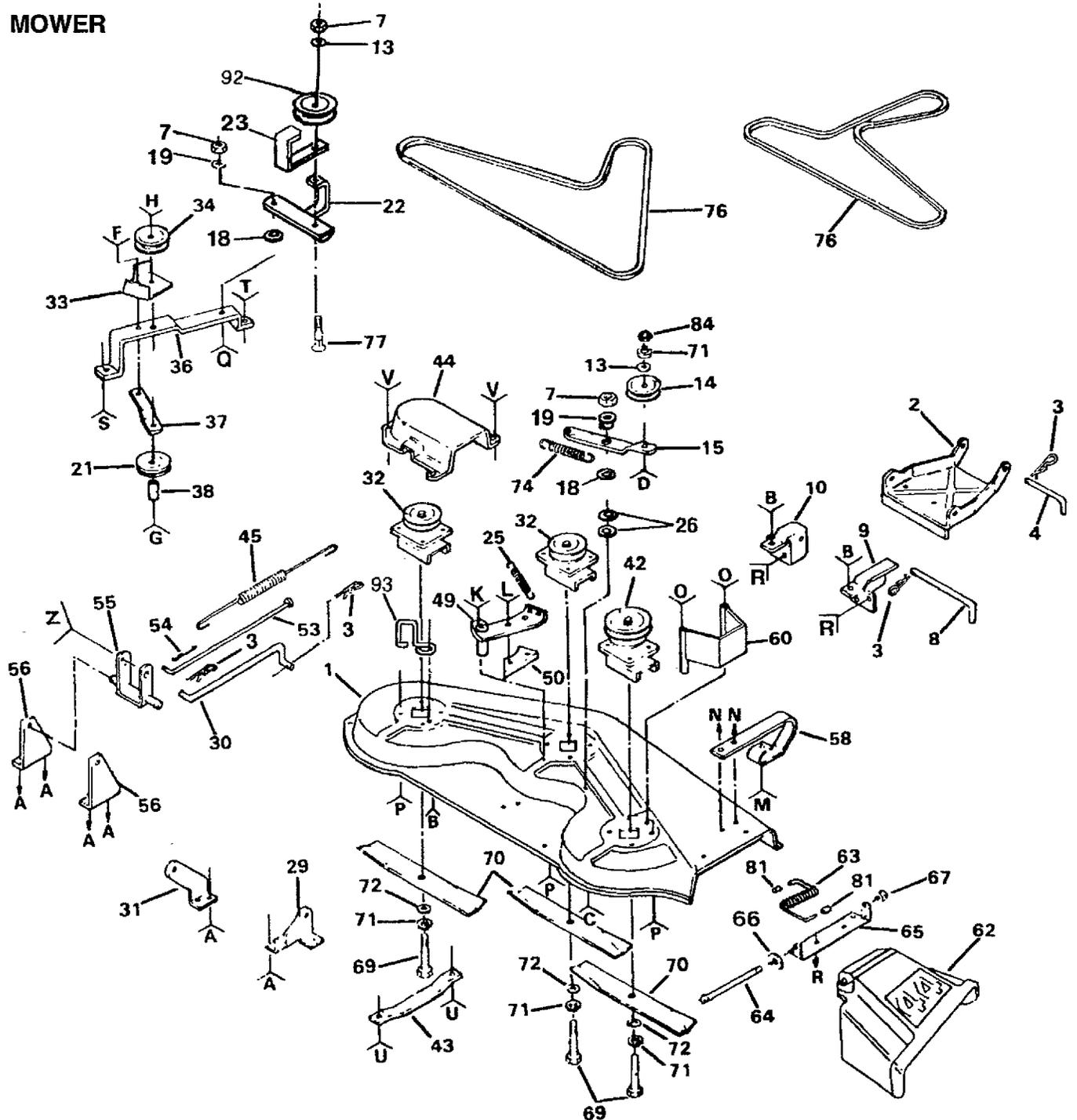
KEY NO.	PART NO.	DESCRIPTION
1	106933X	Knob
2	110924X	Lever, Mower Clutch
3	138170	Bracket, Pivot
4	73710700	Nut, Crownlock, Jam 7/16-20 UNF
5	STD523707	Bolt, Hex Head 3/8-16 x 3/4
6	106451X	Bolt, Shoulder
7	108387X	Rod, Clutch, Primary
8	76020412	Pin, Cotter 1/8 x 3/4
9	106308X	Trunnion, Lift, Lower
10	109728X	Bellcrank
12	106444X	Bracket, Bellcrank
13	12000037	Ring, Klip
14	100734K	Knob, Height Adjustment
15	110807X	Nut, Special
16	110729X	Rod, Adjust, Lift
17	2876H	Spring
18	19131016	Washer 13/32 x 5/8 x 16 Gauge
20	121000X	Shaft, Lift
21	121002X	Lever, Lift (Includes Key No. 22)
22	121006X	Rod, Lever
23	122364X	Plunger, Lever
24	125631X	Grip, Handle
25	STD523715	Bolt, Hex Head 3/8-16 x 1-1/2
27	110739X	Washer, Spring 3/8
28	110810X	Trunnion, Depth Stop
29	19151216	Washer 15/32 x 3/4 x 16 Gauge
30	9135R	Clip, Retainer
31	4939M	Spring, Retainer
32	110447X	Trunnion, Lift
33	4921H	Retainer Spring
34	19171516	Washer 17/32 x 15/16 x 16 Gauge
35	110448X	Link, Lift Adjust
36	110029X	Link, Lift
38	STD541237	Nut, Hex, Jam 3/8-16
40	121599X	Arm, Suspension, L.H.
41	105848X	Bolt, Shoulder 3/8-16
42	121598X	Arm, Suspension, R.H.
43	STD541050	Nut, Hex, Fin. 1/2-13
44	58606	Spring
45	76020308	Pin, Cotter 3/32 x 1/2
46	19131410	Washer 13/32 x 7/8 x 10 Gauge
47	73980600	Locknut 3/8-16
48	12000022	E-Ring
49	19292016	Washer 29/32 x 1-1/4 x 16 Gauge
50	73360700	Nut, Hex 7/16-20 UNF
51	121252X	Upstop, Mower
52	72140608	Bolt, Carriage 3/8-16 x 1
53	73680600	Nut, Crownlock 3/8-16
54	122365X	Button, Plunger

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

# REPAIR PARTS

18 HP 44" TRACTOR -- MODEL NUMBER 917.255890

## MOWER



# REPAIR PARTS

## 18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

### MOWER

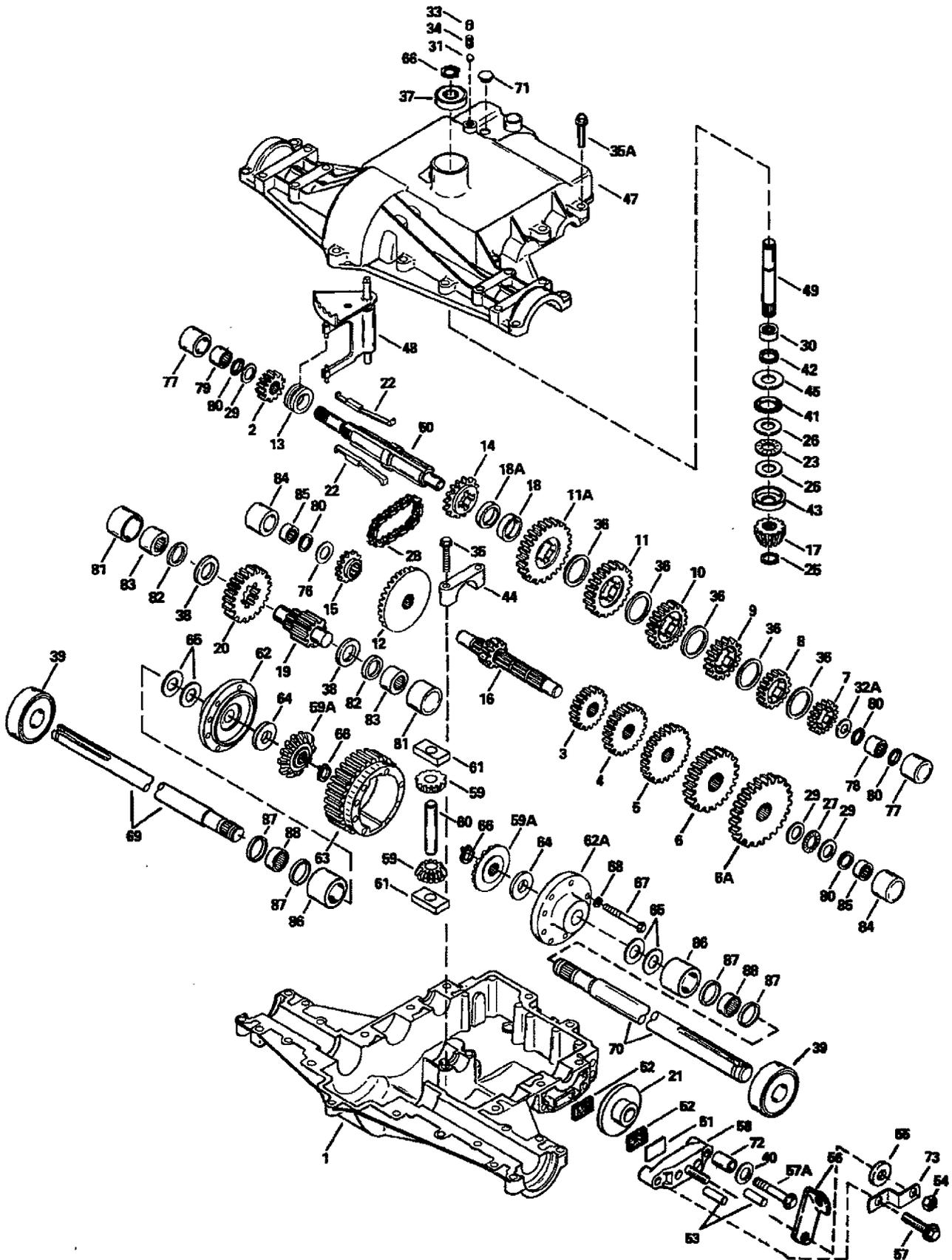
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	121423X	Housing, Mower	50	102951X	Brake, Block
2	129762	Stop Assembly, Parallel Link	51	STD551031	Washer 11/32 x 11/16 x 16 Gauge
3	4921H	Retainer, Spring	52	STD523112	Bolt, Hex Head 5/16-18 x 1-1/4
4	105744X	Hinge Pin, Front	53	108394X	Rod, Brake
7	73680600	Nut, Crownlock 3/8-16	54	STD560907	Pin, Cotter 3/32 x 3/4
8	109835X	Hinge Pin, Rear	55	110384X	Shaft, Rock
9	106512X	Bracket, Lift, R.H.	56	108393X	Support, Rock Shaft
10	106511X	Bracket, Lift, L.H.	58	136321	Runner, R.H.
11	STD533107	Bolt, Carriage 5/16-18 x 3/4	60	102924X	Guard, Belt, R.H.
12	73680500	Nut, Crownlock 5/16-18	61	74760580	Bolt, Hex Head 5/16-18 x 5
13	19131614	Washer 13/32 x 1 x 14 Gauge	62	109785X	Shield, Deflector
14	102932X	Idler, Flat	63	106734X	Spring
15	106526X	Arm, Idler Deck	64	106735X	Rod, Hinge
16	74110632	Screw, Flat Head 3/8-16 x 2	65	137607	Bracket, Deflector
17	STD523712	Bolt, Hex Head 3/8-16 x 1-1/4	66	19111016	Washer 11/32 x 5/8 x 16 Gauge
18	106513X	Washer, Wear	67	110452X	Nut, Push
19	106902X	Spacer	68	STD533707	Bolt, Carriage 3/8-16 x 3/4
20	72110505	Bolt, Carriage 5/16-18 x 5/8	69	STD623715	Bolt, Hex Head 3/8-24 x 1-1/2 Grade 5
21	102403X	Pulley, Idler	70	106635X	Blade
22	121424X	Arm, Idler	71	STD551137	Washer, Lock 3/8
23	121426X	Guide, Belt	72	19132012	Washer 13/32 x 1-1/4 x 12 Gauge
24	72110506	Bolt, Carriage 5/16-18 x 3/4	73	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4
25	106530X	Spring	74	7644J	Spring, Extension
26	19111216	Washer 11/32 x 3/4 x 16 Gauge	75	72140612	Bolt, Carriage 3/8-16 x 1-1/2
27	1685H	Locknut 5/16-18	76	106085X	V-Belt
29	123807X	Bracket, Suspension, Rear, R.H.	77	72140616	Bolt, Carriage 3/8-16 x 2
30	108235X	Rod, Clutch	81	105304X	Cap, Sleeve
31	123808X	Bracket, Suspension, Rear, L.H.	82	STD523710	Bolt, Hex Head 3/8-16 x 1
32	136818	Mandrel, Secondary	84	STD541037	Nut, Hex 3/8-16
33	106529X	Guide, Belt	85	STD541031	Nut, Hex 5/16-18
34	677A451	Pulley, Idler	86	STD551131	Washer, Lock 5/16
36	106523X	Bar, Support, Idler	89	74760412	Bolt, Hex Head 1/4-20 x 3/4
37	106522X	Brace, Idler, Deck	90	19091616	Washer 9/32 x 1 x 16 Gauge
38	121236X	Spacer	91	73680400	Nut, Crownlock 1/4-20
40	STD523730	Bolt, Hex Head 3/8-16 x 3	92	121316X	Pully, Idler
41	STD533710	Bolt, Carriage 3/8-16 x 1	93	121352X	Keeper, Belt
42	121704X	Mandrel, Primary	94	19131316	Washer 13/32 x 13/16 x 16 Gauge
43	7631J	Runner, L.H.	95	19131410	Washer 13/32 x 7/8 x 10 Gauge
44	106214X	Guard	--	121825X	Replacement Mower Deck
45	121427X	Spring, Extension			
46	121827X	Bolt, Shoulder			
47	73930600	Nut, Centerlock 3/8-16			
49	106606X	Arm, Brake			

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

# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

PEERLESS TRANSAXLE - MODEL NUMBER 143.820-016



# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

PEERLESS TRANSAXLE- MODEL NUMBER 143.820-016

REF PART NO. NO.	DESCRIPTION	REF PART NO. NO.	DESCRIPTION
1 770088	Case, Transaxle	47 772098	Cover, Transaxle
2 778253	Gear, Spur 15 Teeth	48 784342	Rod and Fork Assembly, Shift
3 778211	Gear, Spur 12 Teeth	49 776274	Shaft, Input
4 778240	Gear, Spur 18 Teeth	50 776313	Shaft, Brake, 4 Keyed
5 778201	Gear, Spur 25 Teeth	51 790007	Plate, Brake Pad
6 778202	Gear, Spur 28 Teeth	52 790006	Pad, Brake
6A 778208	Gear, Spur 31 Teeth	53 786026	Pin, Dowel
7 778209	Gear, Spur 19 Teeth	54 792075	Locknut 5/16-24
8 778203A	Gear, Spur 22 Teeth	55 792076	Washer, Flat
9 778204A	Gear, Spur 25 Teeth	56 790047	Lever, Brake
10 778239A	Gear, Spur 32 Teeth	57 792073	Screw, Flanged Hex Head, Thread Forming 1/4-20 x 1-1/4
11 778207A	Gear, Spur 37 Teeth	57A 792085	Screw, Flanged Hex Head, Thread Forming 1/4-20 x 2-1/4
11A 778216A	Gear, Spur 41 Teeth		Holder, Brake Pad
12 778246	Gear, Bevel 33 Teeth	58 790025	Pinion, Differential Bevel
13 784216	Collar, Shift	59 778197	Gear, Bevel
14 786123	Sprocket 18 Teeth	59A 778198	Pin, Drive
15 786082	Sprocket 9 Teeth	60 786019	Block, Drive
16 776291	Shaft, Counter (with 9 Tooth Gear)	61 786027	Carrier, Differential, Threaded Holes
17 778245	Bevel Pinion, Input 13 Teeth	62 774833	Carrier, Differential
18 786121	Spacer, Neutral .350/.340 Thick	62A 774834	Gear, Ring 31 Teeth
18A 786122	Spacer, Neutral .276/.268 Thick	63 778248	Washer
19 776275	Shaft, Output 9 Teeth	64 780107	Washer, Thrust
20 778247	Gear, Output 35 Teeth	65 780042	Ring, Snap
21 790043	Disk, Brake	66 792018	Screw, Hex Head 1/4-20 x 2-1/4
22 792138	Key	67 792020	Washer, Lock 1/4
23 780084	Bearing, Thrust	68 792006	Axle 12-5/16"
25 788040	Ring, Retaining	69 774832	Axle 16-3/16"
26 780051	Washer, Thrust	70 774831	Plug, Hex Head 9/16-18 Thread
27 780071	Bearing, Thrust	71 792074	Spacer
28 786081	Chain, Roller (Number 41 Chain, 24 Links)	72 786067	Bracket, Brake Lever
29 780072	Washer, Thrust	73 786086	Washer
30 780155	Bearing, Needle	76 780153	Sleeve, Stepped
31 792077	Ball, Steel	77 786144	Bearing, Needle
32A 780139	Washer, Thrust	78 780150	Bearing, Needle, Capped
33 792078	Screw, Set 3/8-16 x 3/8	79 780152	"O" Ring
34 792079	Spring	80 792001	Sleeve, Stepped
35 792073	Screw, Flanged Hex Head, Thread Forming 1/4-20 x 1-1/4	81 786142	Ring, Square Cut
35A 792129	Screw, Hex Head, Thread Forming 5/16-18 x 1-1/4	82 788071	Bearing, Needle, Capped
36 780108	Washer, Thrust	83 780049	Sleeve, Stepped
37 780119	Bearing, Ball	84 786143	Bearing, Needle, Capped
38 780128	Washer, Thrust	85 780151	Sleeve, Stepped
39 780050	Bearing, Ball	86 786145	Ring, Square Cut
40 792128	Washer, Flat	87 788070	Bearing, Needle
41 788077	"O" Ring	88 780031	
42 788042	Seal, Oil		
43 780166	Washer, Cupped		
44 786131	Cap, Bearing		
45 780165	Washer, Flat		

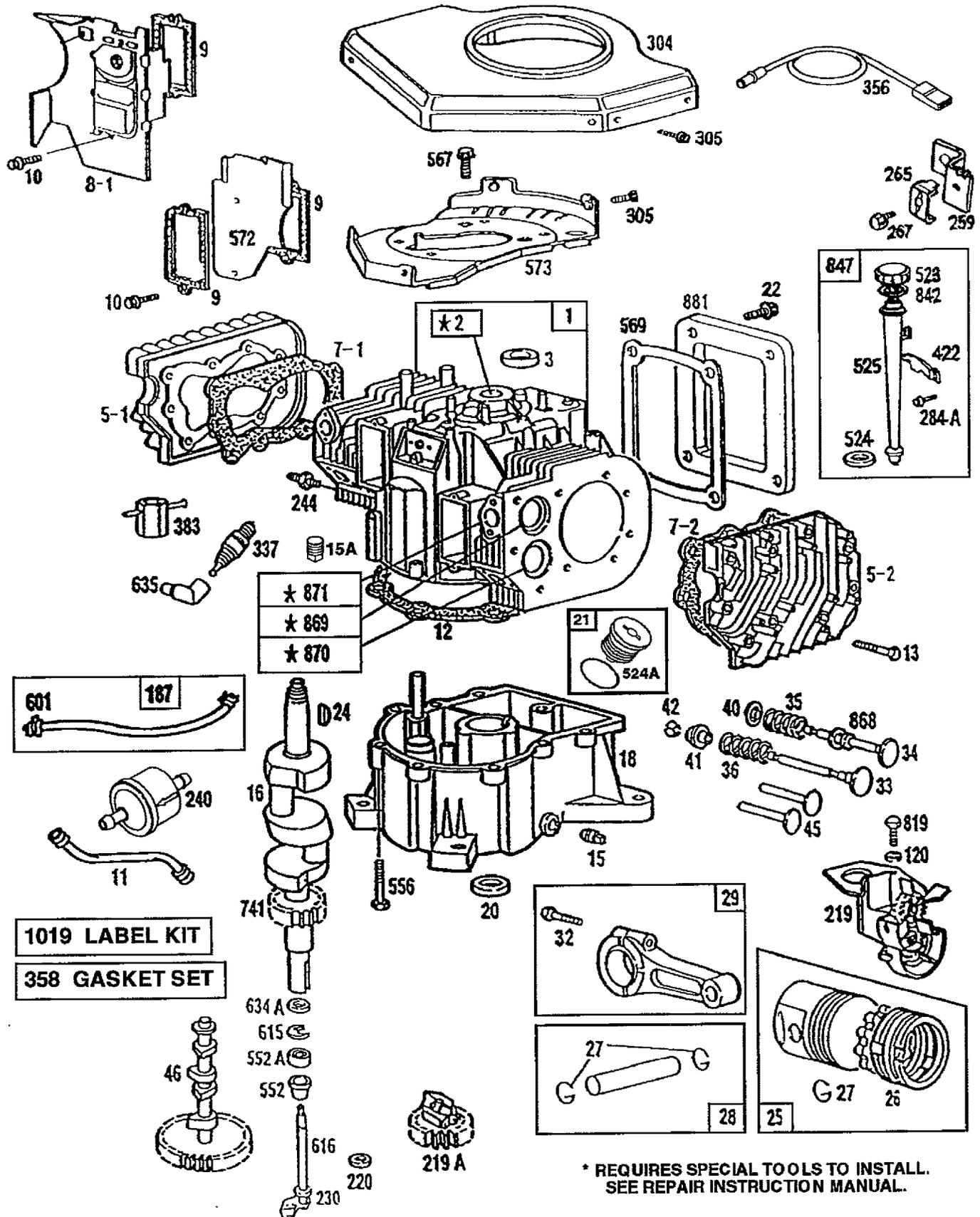
**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

Parts must be ordered from Tecumseh Products Co.

# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01

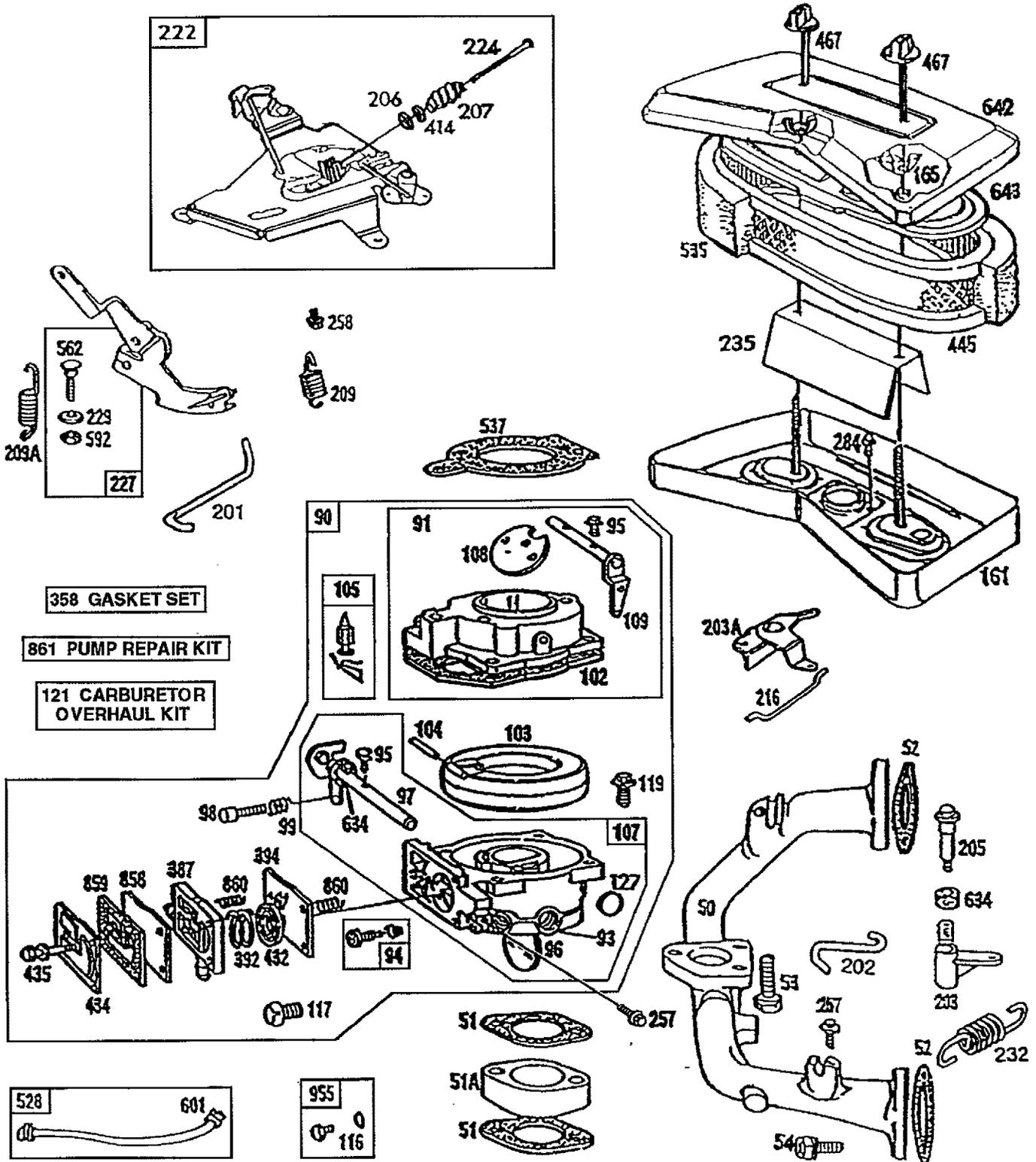


\* REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

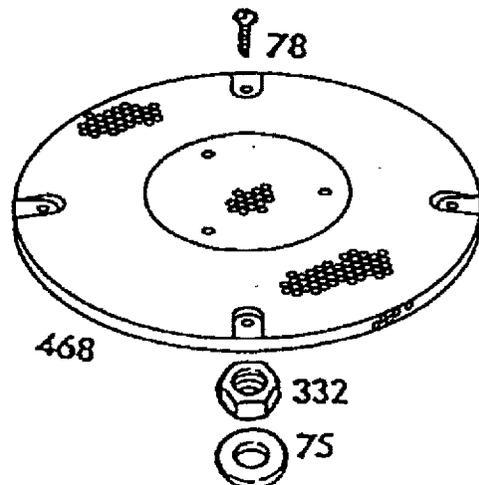
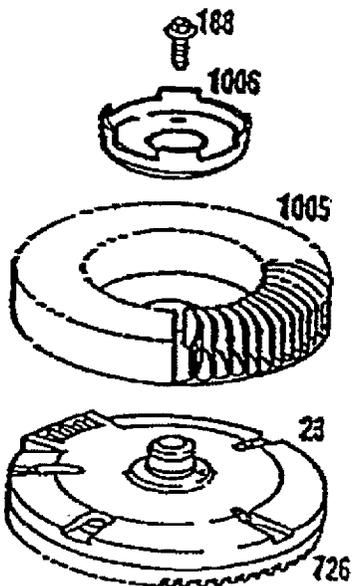
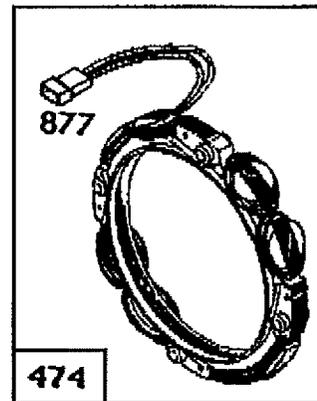
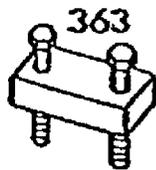
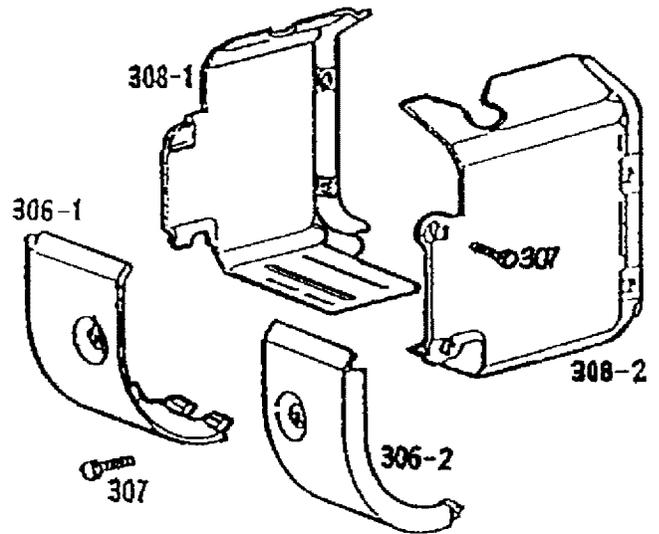
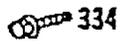
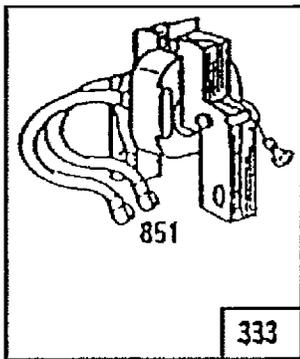
BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01



# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

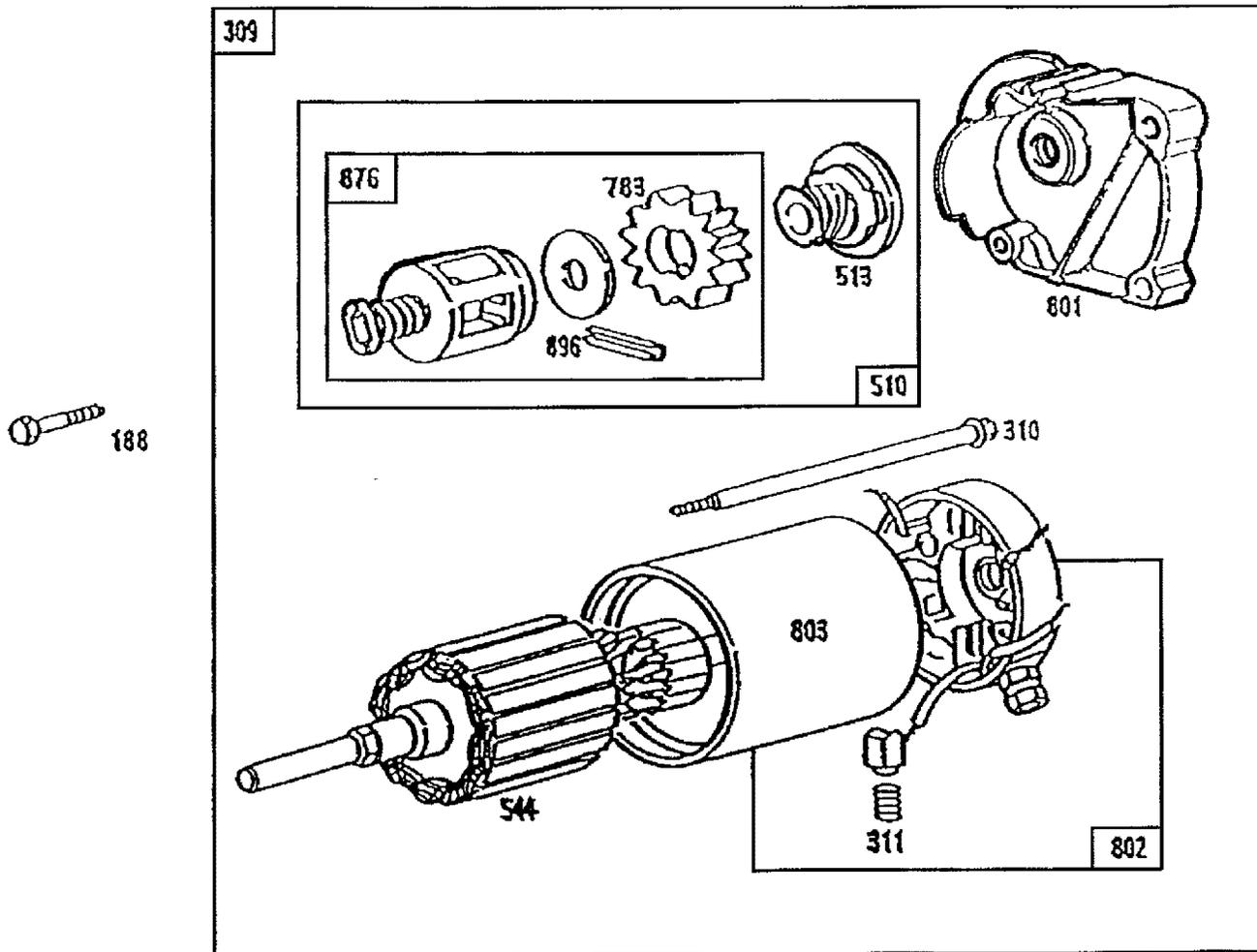
BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01



# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01



Reference Number		309	310	311	544	801	802	803
Manufacturer		Motor and Drive Ass'y.	Thru Bolt Assembly	Brush Assembly	Armature Assembly	Drive End Cap Assembly	End Cap Ass'y. Commutator	Housing Assembly
Briggs & Stratton	Housing Length							
12V	3-5/8"	394808	94003	395538	390837	394860	395537*	398159

\*Includes Brush Set

Reference Number	510	513	783	876	896
Starter Motor Mfr.	Starter Drive Group	Clutch Assembly	Gear	Pinion Spring Kit	Roll Pin
Briggs & Stratton					
12V	490421	398003	280104	490467	94288(Copper)

# REPAIR PARTS

## 18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

### BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01

KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
1	494533	Cylinder Assembly	50	213290	Manifold, Intake
2	399265	Bearing, Cylinder	51	271412	*** Gasket, Carburetor & Intake Elbow
3	391086	Seal, Oil	51A	280319	Spacer, Carburetor
5-1	493457	Head, Cylinder Number 1	52	270884	* Gasket, Intake Manifold Mounting
5-2	493458	Head, Cylinder Number 2	53	93970	Screw, Sems, Carburetor Mounting
7-1	271867	* Gasket, Cylinder Head Number 1	54	93208	Screw, Sems, Intake Manifold Mnt.
7-2	271868	* Gasket, Cylinder Head Number 2	75	222511	Washer, Spring
8-1	398065	Breather Assembly Number 1	78	94326	Screw, Sems
8-2	222892	Cover, Breather, Cylinder Number 2 (Use with Key Number 572, Air Baffle with Mounting Holes)	81	223016	Lock, Muffler Screw
9	27803	* Gasket, Valve Cover	90	495181	Carburetor Assembly
10	94382	Screw, Sems	91	495035	Body Assembly, Upper Carburetor
11	280225	Tube, Breather	93	231209	Bushing, Throttle Shaft
12	271703	* Gasket, Crankcase Cover, 1/64"	94	491538	** Valve Assembly, Carburetor Idle
	271188	* Gasket, Crankcase Cover, .005"	95	93499	Screw, Sems, Throttle and Choke Valve Mounting
	271189	* Gasket, Crankcase Cover, .009"	96	221939	Valve, Throttle
13	94565	Screw, Cylinder Head	97	392672	Shaft and Lever, Throttle
15	94239	Plug, Oil Drain	98	91920	Screw, Machine, Fillister Head
15A	94497	Plug, Pipe	99	26157	Spring, Throttle Adjustment
16	394028	Crankshaft	102	271607	** Gasket, Carburetor Body
	94196	Key, Timing Gear	103	298514	Float, Carburetor
18	493304	Base Assembly, Crankcase	104	230896	** Pin, Float Hinge
20	291675	Seal, Oil	105	394683	** Valve, Fuel Inlet
21	399195	Seal Assembly, Cylinder Plug	107	491543	Body, Lower Carburetor
22	90887	Screw, Sems, Crankcase Cover Mounting	108	223534	Valve, Choke
		Uses: 92268 Washer, Lock	109	392673	Shaft and Lever, Choke
23	491180	Flywheel and Ring Gear Assembly, Magneto	116	280474	O-Ring
24	222698	Key, Flywheel	117	231338	Jet, Needle Valve
25	394955	Piston Assembly, Standard Size	119	94152	Screw, Sems, Hex Head
	394956	Piston Assembly, .010" Oversize	120	92290	Washer, Lock
	394957	Piston Assembly, .020" Oversize	121	491539	Carburetor Overhaul Kit
	394958	Piston Assembly, .030" Oversize	127	223472	Plug, Welch
26	394959	Ring Set, Piston, Standard Size	161	398826	Body, Air Cleaner
	394960	Ring Set, Piston, .010" Oversize	165	94289	Nut, Wing
	394961	Ring Set, Piston, .020" Oversize	187	299146	Line, Fuel, 28" (Cut to Suit)
	394962	Ring Set, Piston, .030" Oversize	188	93535	Screw, Hex Head
27	260924	Lock, Piston Pin	201	262683	Link, Governor
28	299691	Pin Assy., Piston, Standard Size	202	262684	Link, Throttle
	391286	Pin Assy., Piston .005" Oversize	203	280997	Crank, Bell
29	394306	Rod Assembly, Connecting	203A	490207	Crank, Bell
	397158	Rod Assembly, Connecting, .020" Undersize Crankpin Bore	205	93971	Screw, Shoulder
32	94671	Screw, Connecting Rod	206	94298	Nut, Square
33	390420	Valve, Exhaust	207	262337	Spring, Compression
34	261528	Valve, Intake	209	262351	Spring, Governor
		Uses: 393606 Seal Assembly and Retainer (Key Number 868)	209A	261563	Spring, Governor Idle
35	65906	Spring, Intake Valve	216	262375	Link
36	26828	Spring, Exhaust Valve	219	393415	Oil Slinger Assembly
40	221596	Retainer, Intake Valve			* Included in Gasket Set (491856)
41	292260	Rotocoil, Exhaust Valve			** Included in Carburetor Overhaul Kit (491539)
42	93630	Retainer, Exhaust Valve Rotocoil(2)			*** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539)
45	261368	Tappet, Valve			
46	213421	Gear, Cam			

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

# REPAIR PARTS

18 HP 44" TRACTOR - - MODEL NUMBER 917.255890

BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1254-01

KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
219A	394348	Gear, Governor	535	271271	Element, Air Cleaner
220	222773	Washer, Thrust	537	271411	*** Gasket, Air Cleaner
222	491282	Plate Assembly, Governor Control	552	262332	Lower Bushing, Governor
224	94297	Screw, Pan Head	552A	262331	Upper Bushing, Governor
227	491297	Lever Assembly, Governor	556	93585	Screw, Sems, Hex Head
229	62199	Washer	562	93853	Bolt, Governor Lever
230	223882	Washer, Governor Crank, Inside	567	93777	Screw, Hex Head, Back Plate to Cylinder
232	262539	Spring, Governor Control			
235	224039	Shield, Spitback	569	270981	* Gasket, Crankcase
240	493629	Filter, Fuel (In Fuel Line to Tank)	572	224580	Baffle, Air, Cylinder Number 2
244	230318	Connector, Impulse Pump	573	491304	Back Plate Assembly
257	93897	Screw, Sems	592	92278	Nut, Hex
258	93949	Screw, Sems	601	93053	Clamp, Fuel Line
259	223890	Bracket, Cable	615	94296	Retainer, E-Ring
265	221535	Clamp, Casing	616	491530	Crank, Governor
267	93496	Screw, Hex Head	634	271013	** Washer, Throtte Shaft
284	94264	Screw, Hex Head	634A	491287	Seal, Governor Shaft
284A	93469	Screw, Hex Head	635	66538	Elbow, Spark Plug
304	492656	Housing, Blower	642	223579	Cover, Air Cleaner
305	94608	Screw, Sems 1/2	643	223714	Cartridge Plate, Air Cleaner
	94513	Screw, Sems 3/4	726	391362	Gear, Flywheel Ring (Includes Mounting Parts)
306-1	222846	Shield, Cylinder			
306-2	223734	Shield, Cylinder	741	262694	Gear, Timing
307	94386	Screw, Sems	819	94675	Screw, Hex Head
308-1	222848	Cover, Air Guide	842	271170	Seal, Oil Filler Cap
308-2	222849	Cover, Air Guide	847	394394	Dipstick and Tube Assembly
309	---	Motor, Starting (See Chart on Illustrated Pages for Replacement Parts for Starting Motors)	851	221798	Terminal, Ignition Cable
		Armature Assembly	858	270989	**** Diaphragm, Damping
319	394988	Nut, Hex	859	271025	**** Gasket, Carburetor Pump
332	230674	Armature Group, MAGNETRON® Ignition	860	261358	**** Spring (2)
333	394891	Screw, Sems, Armature Mounting	861	393397	Repair Kit, Pump
		Plug, Spark, Resistor (with Gasket)	868	393606	Seal Assembly and Retainer
334	93381	Wire, Ground	869	261463	Seat, Intake Valve, Standard
356	494705	Gasket Set	870	213316	Seat, Exhaust Valve, Standard
358	491856	Puller, Flywheel (Optional Accessory)	871	261961	Guide, Exhaust Valve
363	19203	Wrench, Spark Plug		231218	Guide, Intake Valve (See Manual)
		Body, Pump	877	393456	Connector Assembly
383	89838	**** Spring, Pump	881	212455	Cover Plate, Crankcase
387	280197	**** Diaphragm	955	397882	Plug and Seal, Solenoid
392	261395	Washer	1005	280815	Fan, Flywheel
394	270988	Clamp, Oil Filler	1006	224413	Retainer, Fan
414	223882	**** Cap, Spring	1019	491262	Decal Kit
422	222875	Cover, Diaphragm			
432	221377	Screw, Diaphragm Cover			
434	223688	Cartridge, Air Cleaner			
435	93829	Knob, Air Cleaner			
445	394019	Screen, Flush Rotating			
467	493903	Stator, Alternator, Dual Circuit			
468	224521	Screw, Sems			
474	393474	Cap and Dipstick, Oil Filler			
482	93621	Seal, Filler Tube			
523	494927	Seal, Tube			
524	271157	Tube, Oil Filler			
524A	271485	Impulse Line and Clamp Assembly			
525	495348				
528	393815				

RPM Settings: Low Speed: 1100-1400  
High Speed: 3500-3700

\* Included in Gasket Set (491856)

\*\* Included in Carburetor Overhaul Kit (491539)

\*\*\* Included in both Gasket Set (491856), and  
Carburetor Overhaul Kit (491539)

\*\*\*\* Included in both Carburetor Overhaul Kit (491539),  
and Pump Repair Kit (393397)

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

---

# SERVICE NOTES

---

---

# SERVICE NOTES

---

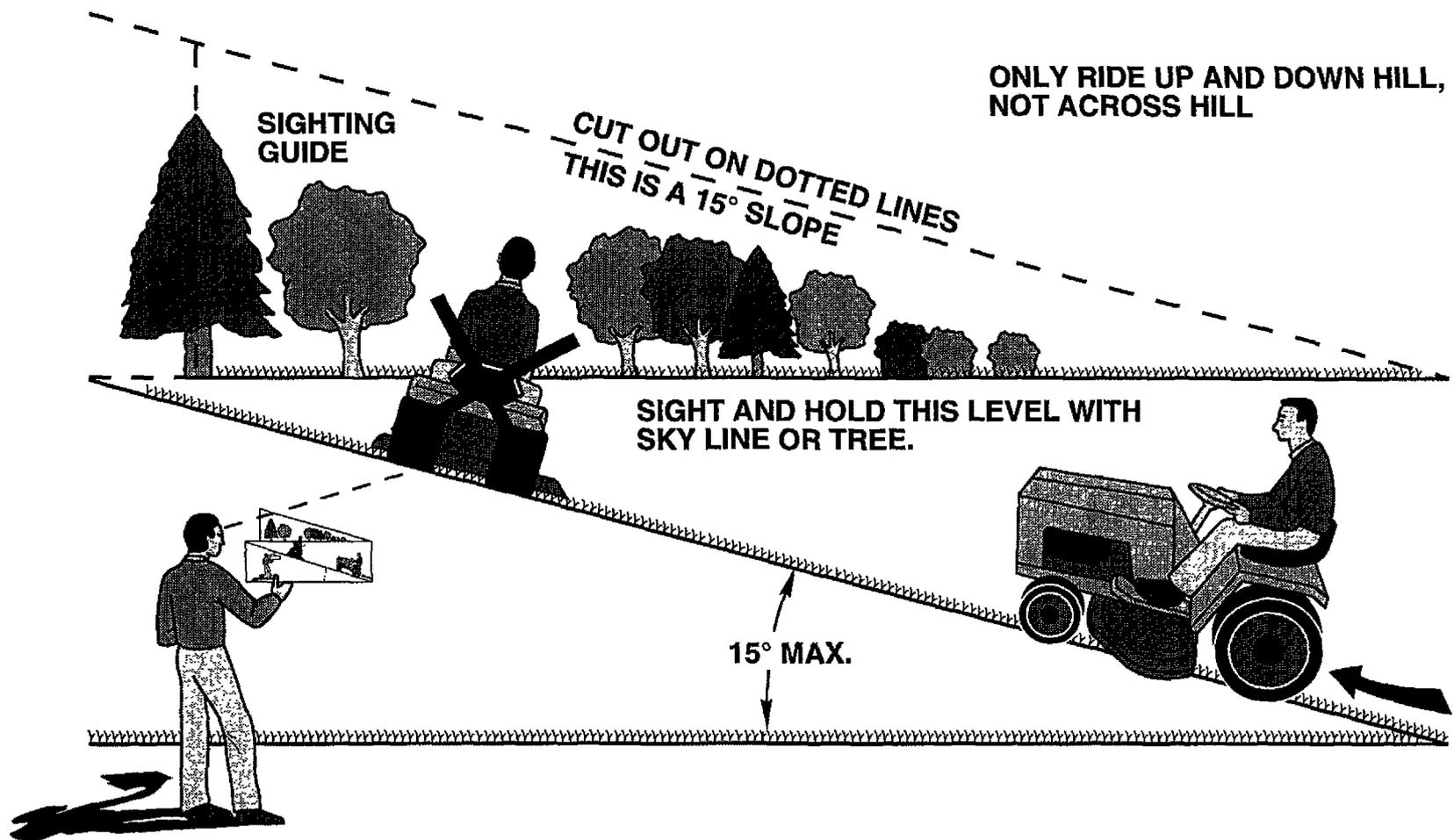
---

# SERVICE NOTES

---

# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION

55



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.  
917.255890**

**HOW TO ORDER  
REPAIR PARTS**

**CRAFTSMAN®**

**18.0 HP TWIN CYLINDER  
ELECTRIC START  
44" MOWER  
6 SPEED TRANSAXLE  
GARDEN TRACTOR**

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

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

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

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

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

- **PRODUCT - GARDEN TRACTOR**
- **MODEL NUMBER - 917.255890**
- **ENGINE MODEL NO. - 422707, TYPE NO. 1254-01**
- **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.