SEARS

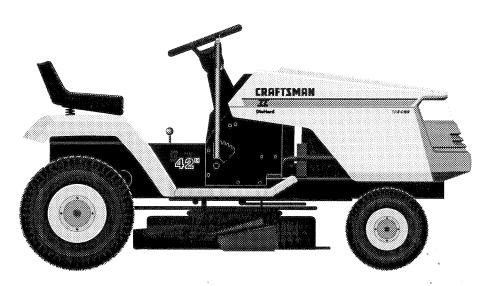
# CRAFTSMAN

MODEL NUMBER 917.257560 OWNER'S MANUAL

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



R



IRGINAL FILE COPY

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



### **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.

#### GENERAL OPERATION

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

#### II. SLOPE OPERATION

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

#### DO:

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

#### DO NOT:

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

#### III. CHILDREN

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

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

#### IV. SERVICE

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



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



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

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

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

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

MODEL NUMBER	917.257560
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DATEOF	PURCHASE
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### MAINTENANCE AGREEMENT

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

### **CUSTOMER RESPONSIBILITIES**

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

#### PHUDUUI SPECIFICATIONS

HORSEPOWER:	18.0
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/O FILTER: 3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RJ-19LM STD361458
VALVE CLEARANCE:	INTAKE: .004"006" EXHAUST: .007"009"
GROUND SPEED (MPH):	FORWARD:  1st 0.77 2nd 1.46 3rd 3.41 4th 4.34 5th 5.57 REVERSE: 1.07
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	5 AMPS BATTERY 3 AMPS HEADLIGHTS
BLADE BOLT TORQUE:	30-35 FT. LBS.

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

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

### LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

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

This Warranty does not cover:

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

#### LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

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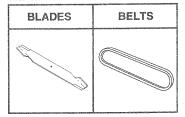
# **ACCESSORIES AND ATTACHMENTS**

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

#### ENGINE

# SPARK PLUG GAS CAN ENGINE OIL FUEL STABILIZER

#### **MAINTENANCE**



#### **PERFORMANCE**

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

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

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

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

BUMPER protects front end of tractor from damage.

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

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

EASY OIL DRAIN VALVE makes oil changes easier, faster.

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

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

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

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

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

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

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

**SNOW BLADE** for snow removal only. 14-inch high, 42-inch wide blade clears 38-inch path when angled left or right. Raises, lowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with tire chains and wheel weights and/or rear drawbar weight.)

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

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

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

SWEEPERS let you collect grass clippings and leaves.

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

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

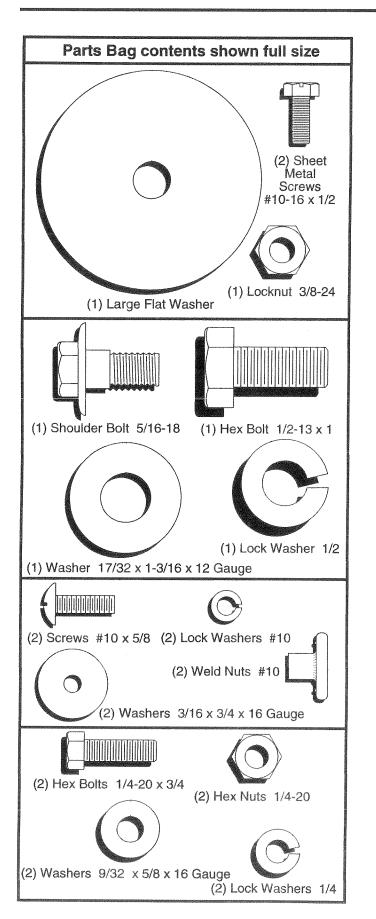
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. Optional accessories include: tinted/tempered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

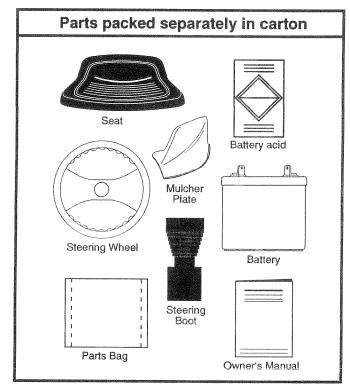
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

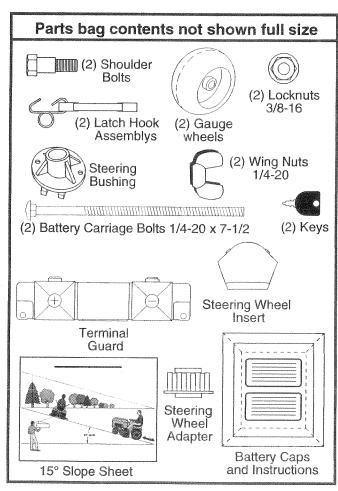
**WEIGHT BRACKET** for drawbar for snow removal applications. Uses (1) 55 lb. weight.

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

# **CONTENTS OF HARDWARE PACK**







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

#### TOOLS REQUIRED FOR ASSEMBLY

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

(1) 5/16" wrench

(1) 9/16" wrench

(2) 7/16" wrenches

(1) Phillips screwdriver

(1) 1/2" wrench

Utility knife

(1) 3/4" wrench

Tire pressure gauge

(1) 3/4" socket with drive ratchet

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

### TO REMOVE TRACTOR FROM CAR-TON

#### **UNPACK CARTON**

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

# TO ROLL TRACTOR OFF SKID (See Fig. 7)

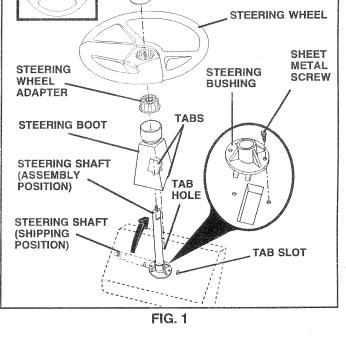
- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

#### BEFORE ROLLING TRACTOR OFF SKID

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

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

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



INSERT

3/8-24 LOCKNUT

LARGE FLAT WASHER

### **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 battery cell acid level. If below the vent wells, add more acid until the correct level is reached.

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

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

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

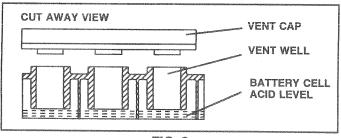


FIG. 2

### **INSTALL SEAT (See Fig. 3)**

Adjust seat before tightening adjustment bolt.

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

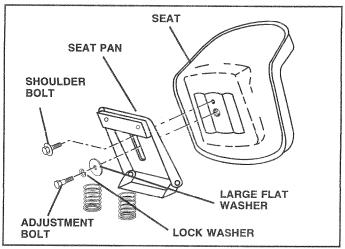


FIG. 3

#### **CHECK TIRE PRESSURE**

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

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

#### **CHECK DECK LEVELNESS**

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

# CHECK FOR PROPER POSITION OF ALL BELTS

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

#### **CHECK BRAKE SYSTEM**

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

### **INSTALL BATTERY (See Figs. 4A and 4B)**



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.

**NOTE:** For ease of battery installation, the heat shield between engine and battery compartment may be removed. Before removing heat shield, note position and routing of all cables and wires. If you remove the shield, be sure it is reassembled properly after installing battery.

- · Lift hood to raised position.
- Be sure battery drain tube has not come loose and is securely attached to drain in battery tray.
- Lower battery into battery tray with 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 battery as shown, lower battery bolts into key holes and slide square shafts of battery bolts into slots of key holes.
- Tighten wing nuts by hand making sure battery bolts remain in slots of the key holes in the battery support.
- Be sure terminal access doors are closed.

#### Use terminal access doors for:

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

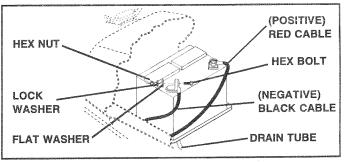


FIG. 4A

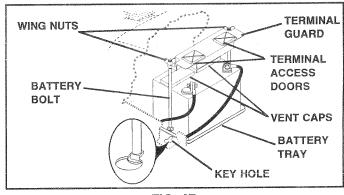


FIG. 4B

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

Assemble gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

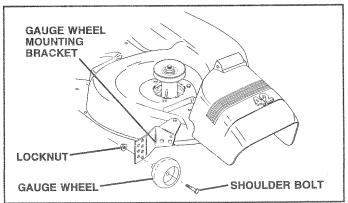


FIG. 5

# INSTALL MULCHER PLATE (See Figs. 6A & 6B)

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

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

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



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

# TO CONVERT TO BAGGING OR DISCHARGING

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

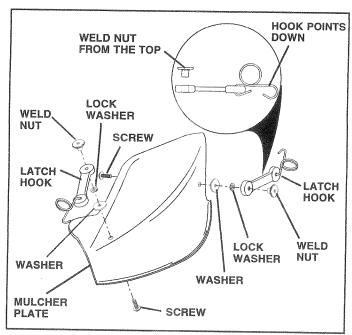


FIG. 6A

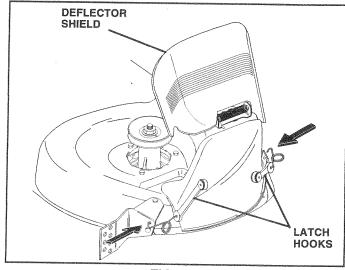


FIG. 6B

### ✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

#### **KNOW YOUR TRACTOR**

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

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

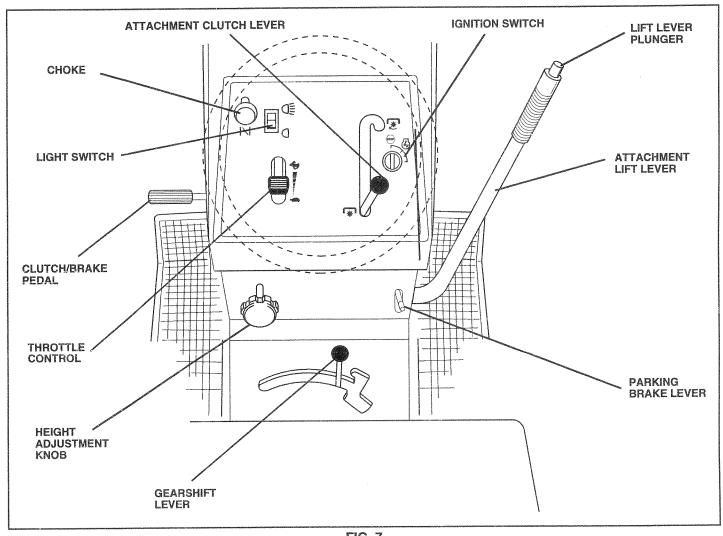


FIG. 7

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

**THROTTLE CONTROL**: Used for starting and controlling engine speed.

**CHOKE CONTROL:** Used for starting a cold engine.

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

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

**IGNITION SWITCH**: Used for starting and stopping the engine.

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

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

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

**ATTACHMENT LIFT LEVER**: Used to raise and lower the mower deck or other attachments mounted to your tractor. **PARKING BRAKE LEVER**: Locks Clutch/Brake Pedal into the brake position.

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



The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask for over the spectacles or standard safety glasses.

### **HOW TO USE YOUR TRACTOR**

### TO SET PARKING BRAKE (See Fig. 8)

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

#### STOPPING (See Fig. 8)

#### **MOWER BLADES -**

Move attachment clutch lever to "DISENGAGED" position.

#### **GROUND DRIVE -**

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

#### **ENGINE** -

• Move throttle control to slow ( ) position.

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

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

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



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

### TO USE THROTTLE CONTROL (See Fig. 8)

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 USE CHOKE CONTROL (See Fig. 8)

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 MOVE FORWARD AND BACKWARD (See Fig. 8)

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.
   IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

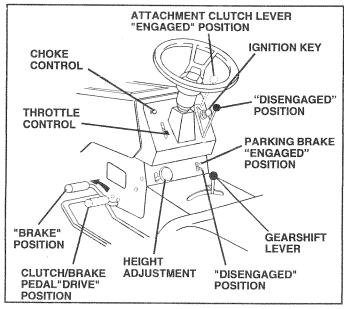


FIG. 8

# TO ADJUST MOWER CUTTING HEIGHT (See Fig. 8)

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

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

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

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

### TO OPERATE MOWER (See Fig. 9)

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

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



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

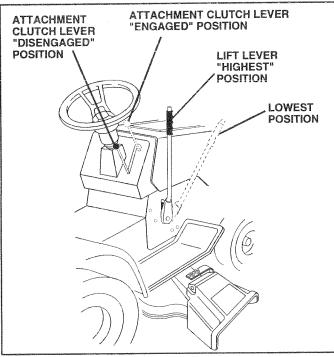


FIG. 9

#### TO OPERATE ON HILLS



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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.

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

#### **TO TRANSPORT**

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

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

### BEFORE STARTING THE ENGINE

### **CHECK ENGINE OIL LEVEL (See Fig. 15)**

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- · Check engine oil with tractor on level ground.
- Remove 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 Castomer Responsibilities section in this manual.

#### ADD GASOLINE

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

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

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



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

### TO START ENGINE (See Fig. 8)

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

- Depress clutch/brake pedal and set parking brake.
- Place gearshift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Pull choke control out to choke (N) position for cold engine start. For warm engine start do not use choke control.
- Move throttle control to midway between fast (\*) and slow (\*) positions.
- Insert key into ignition and turn key clockwise to "START"
   position and release key as soon as engine starts. Do
   not run starter continuously for more than fifteen
   seconds per minute. If engine does not start after
   several attempts, move throttle control to fast (\*)
   position, wait a few minutes and try again.
- When engine starts, slowly push choke control in.
- Move throttle control to fast (�) position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

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

### **MOWING TIPS**

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 10).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.

 When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

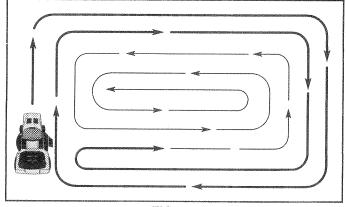


FIG. 10

#### **MULCHING MOWING TIPS**

**IMPORTANT:** FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN AFTER EACH USE.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 11). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

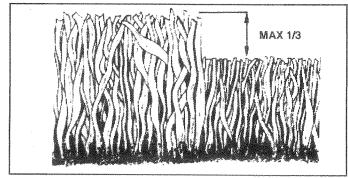


FIG. 11

- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

FIL AS	AINTENANCE SCHEDULE LL IN DATES YOU COMPLETE GULAR SERVICE		ELO AE	EACH!	SE HOURS HOURS	HOURS VERY ?	SHOUP SHOUP	OHOUP VERY	S HOUP OO HOUP VERY BI	S ASON EFORE	SER	VICE	DA	TES
	Check Brake Operation	V		1										
	Check Tire Pressure	4		<b>W</b>										
T	Check for Loose Fasteners	V							V					
Ŗ	Sharpen/Replace Mower Blades				<b>4</b>									
A C	Lubrication Chart				W				V					
Ť	Check Battery Level/Recharge				<b>V</b>									
0	Clean Battery and Terminals				V				<b>W</b>					
R	Check Transaxle Cooling				W									
	Adjust Blade Belt(s) Tension						<b>1</b> 5							
	Adjust Motion Drive Belt(s) Tension						<b>V</b> 5							
	Check Engine Oil Level	V		1										
	Change Engine Oil		V		1,2,3									
le	Clean Air Filter				2									
N	Clean Air Screen				<b>1</b> 2									
G	Inspect Muffler/Spark Arrester		-											
	Replace Oil Filter (If equipped)						1,2							
N	Clean Engine Cooling Fins						<b>1</b> 2							
E	Replace Spark Plug						8/	1						
	Replace Air Filter Paper Cartridge						1/2							
	Replace Fuel Filter							W						

- 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.

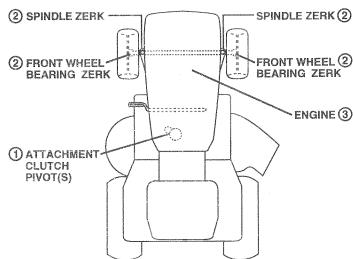
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 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.

#### TRACTOR

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

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

#### **TIRES**

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

#### **BLADE CARE**

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

### **BLADE REMOVAL (See Fig. 12)**

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

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

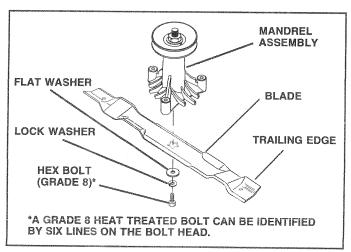


FIG. 12

### TO SHARPEN BLADE (See Fig. 13)

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

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer).
- Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground.
   If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

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

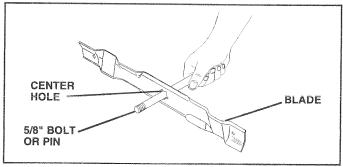


FIG. 13

### BATTERY (See Fig. 14)

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.

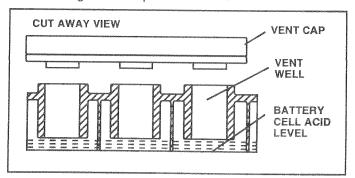


FIG. 14

#### TO CLEAN BATTERY AND TERMINALS

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

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

#### V-BELTS

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

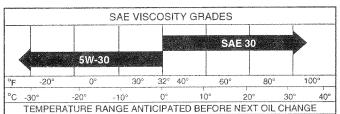
#### TRANSAXLE COOLING

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

#### **ENGINE**

#### LUBRICATION

Only use high quality detergent oil rated with API service classification 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 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. 15)

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 fill dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.

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

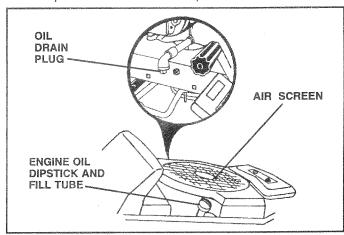


FIG. 15

### **CLEAN AIR SCREEN (See Fig. 15)**

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.

### AIR FILTER (See Fig. 16)

Your engine will not run properly sing 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 or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

Remove knob(s) and cover.

#### TO SERVICE PRE-CLEANER

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

#### TO SERVICE CARTRIDGE

- Remove wing nuts and cartridge plate.
- Carefully remove cartridge to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- 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.

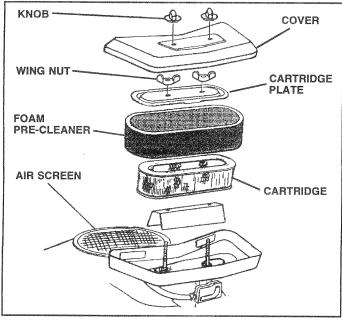


FIG. 16

### **ENGINE COOLING FINS (See Fig. 17)**

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

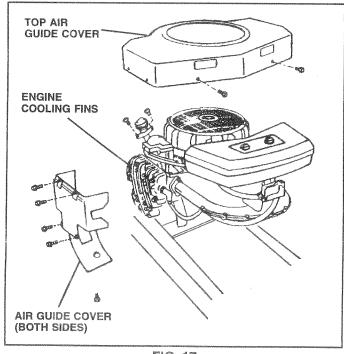


FIG. 17

#### MUFFLER

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

#### **SPARK PLUGS**

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

### IN-LINE FUEL FILTER (See Fig. 18)

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.

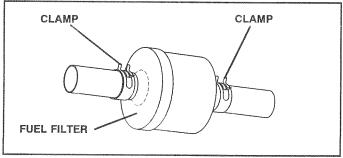


FIG. 18

#### **CLEANING**

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

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



### **CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:**

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

### TRACTOR

### TO REMOVE MOWER (See Fig. 19)

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

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

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

### TO INSTALL MOWER (See Fig. 19)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.

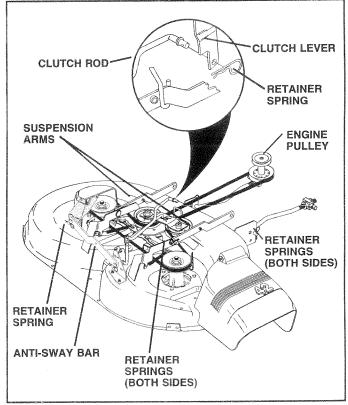


FIG. 19

### 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 under inflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 20 and 21)

You will need two (2) standard 2 x 4 short pieces of wood to make the following adjustment. Similar blocks measuring 1-1/2" thick may also be used.

- Raise mower with attachment lift control to allow two (2) 1-1/2" thick blocks to be placed under rear edge of mower.
- Place one block directly behind the left mandrel. Place the remaining block under the stamped ridge on the right rear edge of mower deck.
- Lower mower deck to its lowest height of cut position (See "TO ADJUST MOWER CUTTING HEIGHT" in Operation section of this manual).
- On both sides of tractor, loosen, but do not remove, the fasteners securing the adjustable pivot brackets to frame. Both brackets must be loose enough to move freely.
- Pull down firmly on suspension arm to remove any slack in pivot bracket and hold while tightening rear fastener first to secure. Tighten remaining fastener.
- Repeat procedure on other side of tractor.
- Raise mower with attachment lift control and remove blocks from under mower.

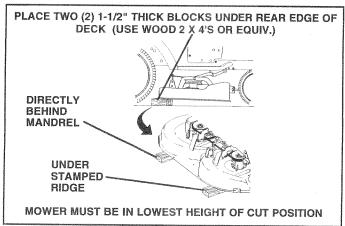
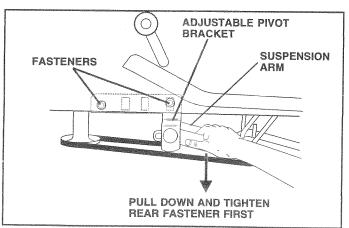


FIG. 20



FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23)

IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/4" to 3/4" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nuts F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nut "F" against trunnion on both front links.
- · Recheck side-to-side adjustment.

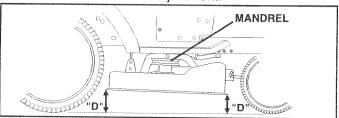


FIG. 22

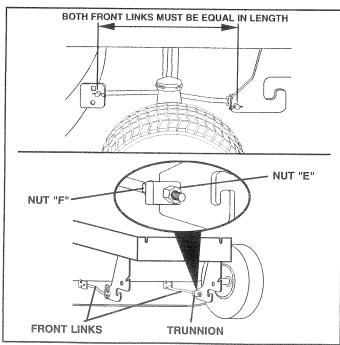


FIG. 21

# TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 24)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake. BELT REMOVAL -

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

#### **BELT INSTALLATION -**

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

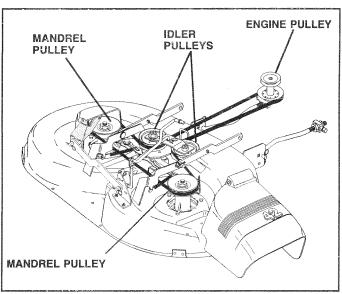


FIG. 24

### TO ADJUST BRAKE (See Fig. 25)

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

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

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

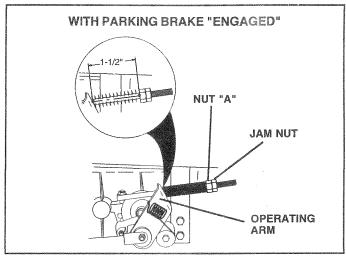


FIG. 25

# TO REPLACE MOTION DRIVE BELT (See Fig. 26)

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.

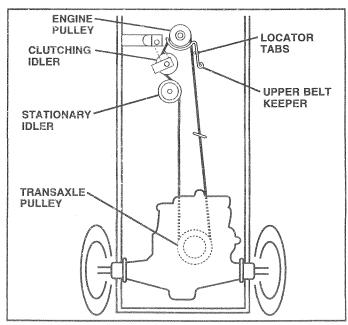


FIG. 26

#### 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. 27)

- 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.

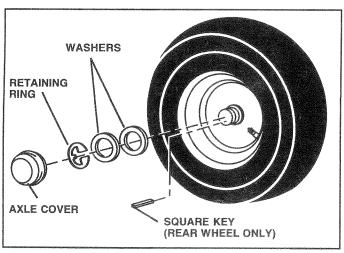


FIG. 27

# TO START ENGINE WITH A WEAK BATTERY (See Fig. 28)



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

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

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

#### TO ATTACH JUMPER CABLES -

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

#### TO REMOVE CABLES, REVERSE ORDER -

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

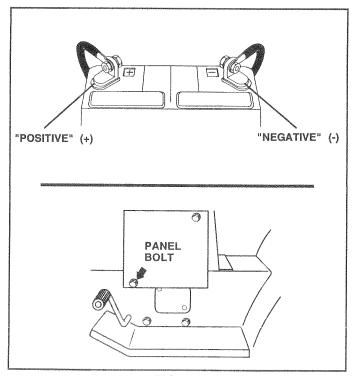


FIG. 28

#### 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 REPLACE FUSE

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

#### TO REMOVE HOOD AND GRILL (See Fig. 29)

- · 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.

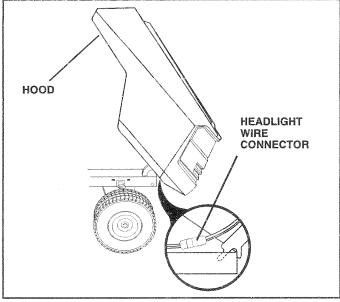


FIG. 29

#### ENGINE

# TO ADJUST THROTTLE CONTROL CABLE (See Fig. 30)

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

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

### TO ADJUST CHOKE CONTROL (See Fig. 31)

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 (|\(\circ\)) position.
- Remove air cleaner cover, filter and cartridge 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 cable until choke is completely closed. Tighten casing clamp screw securely.
- · Reassemble air cleaner.

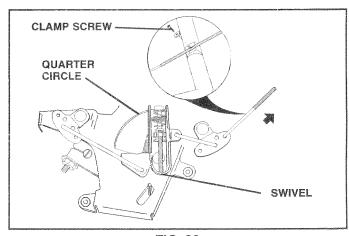


FIG. 30

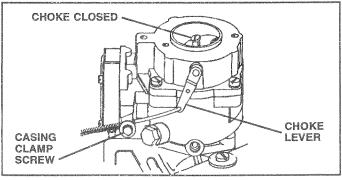


FIG. 31

# TO ADJUST CARBURETOR (See Figs. 32 and 33)

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

In general, turning the 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 (N) 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 AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

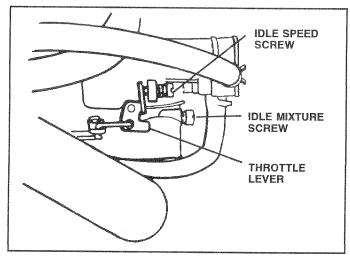


FIG. 32

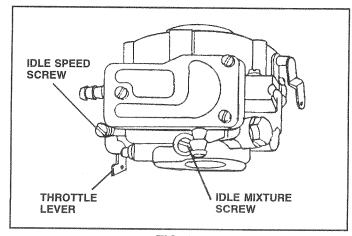


FIG. 33

# 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 SYSTEMPARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

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

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

#### **ENGINE OIL**

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

#### **CYLINDERS**

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

#### OTHER

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

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

# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	<ol> <li>Out of fuel.</li> <li>Engine not "CHOKED" properly.</li> <li>Engine flooded.</li> <li>Bad spark plug.</li> <li>Dirty air filter.</li> <li>Dirty fuel fliter.</li> <li>Water in fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	<ol> <li>Fill fuel tank.</li> <li>See "TO START ENGINE" in Operation section.</li> <li>Wait several minutes before attempting to start.</li> <li>Replace spark plug.</li> <li>Clean/replace air filter.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol>
Hard to start	<ol> <li>Dirty air filter.</li> <li>Bad spark plug.</li> <li>Weak or dead battery.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	1. Clean/replace air filter. 2. Replace spark plug. 3. Recharge or replace battery. 4. Replace fuel filter. 5. Drain fuel tank and refill with fresh gasoline. 6. Check all wiring. 7. Contact an authorized service center/department. 8. Contact an authorized service center/department.
Engine will not turn over	<ol> <li>Clutch/brake pedal not depressed.</li> <li>Attachment clutch is engaged.</li> <li>Weak or dead battery.</li> <li>Blown fuse.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty ignition switch.</li> <li>Faulty solenoid or starter.</li> <li>Faulty operator presence switch(es).</li> </ol>	<ol> <li>Depress clutch/brake pedal.</li> <li>Disengage attachment clutch.</li> <li>Recharge or replace battery.</li> <li>Replace fuse.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace ignition switch.</li> <li>Check/replace solenoid or starter.</li> <li>Contact an authorized service center/department.</li> </ol>
Engine clicks but will not start	Weak or dead battery.     Corroded battery terminals.     Loose or damaged wiring.     Faulty solenoid or starter.	<ol> <li>Recharge or replace battery.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace solenoid or starter.</li> </ol>
Loss of power	1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel.  10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	<ol> <li>Set in "Higher Cut" position/reduce speed.</li> <li>Adjust throttle control.</li> <li>Clean underside of mower housing.</li> <li>Clean/replace air filter.</li> <li>Check oil level/change oil.</li> <li>Clean and regap or change spark plug.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Connect and tighten spark plug wire.</li> <li>Clean engine air screen/fins.</li> <li>Clean/replace muffler.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol>
Excessive vibration	Worn, bent or loose blade.     Bent blade mandrel.     Loose/damaged part(s).	Replace blade. Tighten blade bolt.     Replace blade mandrel.     Tighten loose part(s). Replace damaged parts.

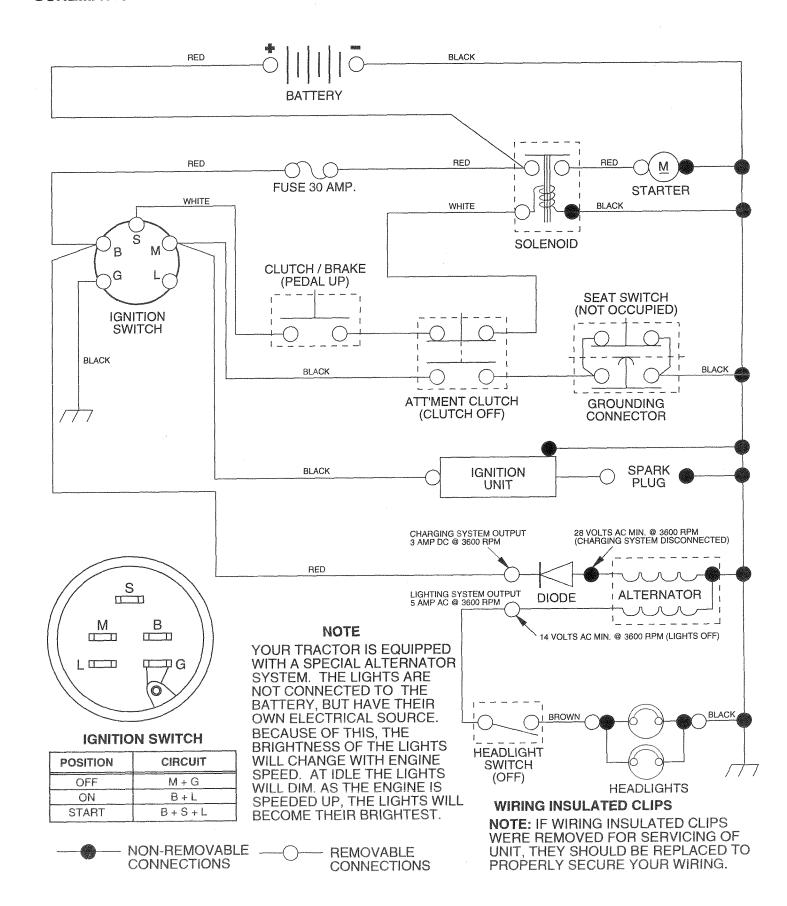
# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.		
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.			
Poor cut - uneven	<ol> <li>Worn, bent or loose blade.</li> <li>Mower deck not level.</li> <li>Buildup of grass, leaves, and trash under mower.</li> <li>Bent blade mandrel.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> <li>Clean around mandrels to open vent holes.</li> </ol>		
Mower blades will not rotate	Obstruction in clutch mechanism.     Worn/damaged mower drive belt.     Frozen idler pulley.     Frozen blade mandrel.	<ol> <li>Remove obstruction.</li> <li>Replace mower drive belt.</li> <li>Replace idler pulley.</li> <li>Replace blade mandrel.</li> </ol>		
Poor grass discharge	<ol> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade.</li> <li>Buildup of grass, leaves and trash under mower.</li> <li>Mower drive belt worn.</li> <li>Blades improperly installed.</li> <li>Improper blades used.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Place throttle control in "FAST" position.</li> <li>Shift to slower speed.</li> <li>Allow grass to dry before mowing.</li> <li>Level mower deck.</li> <li>Check tires for proper air pressure.</li> <li>Replace/sharpen blade. Tighten blade bolt.</li> <li>Clean underside of mower housing.</li> <li>Replace mower drive belt.</li> <li>Reinstall blades sharp edge down.</li> <li>Replace with blades listed in this manual.</li> <li>Clean around mandrels to open vent holes.</li> </ol>		
Headlight(s) not working (if so equipped)	<ol> <li>Switch is "OFF".</li> <li>Bulb(s) burned out.</li> <li>Faulty light switch.</li> <li>Loose or damaged wiring.</li> <li>Blown fuse.</li> </ol>	1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.		
Battery will not charge	Bad battery cell(s).     Poor cable connections.     Faulty regulator (if so equipped).     Faulty alternator.	Replace battery.     Check/clean all connections.     Replace regulator.     Replace alternator.		
Engine "backfires" when turning engine "OFF"	Engine throttle control not set at "SLOW"     position for 30 seconds before stopping engine.	Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.		

# **SERVICE NOTES**

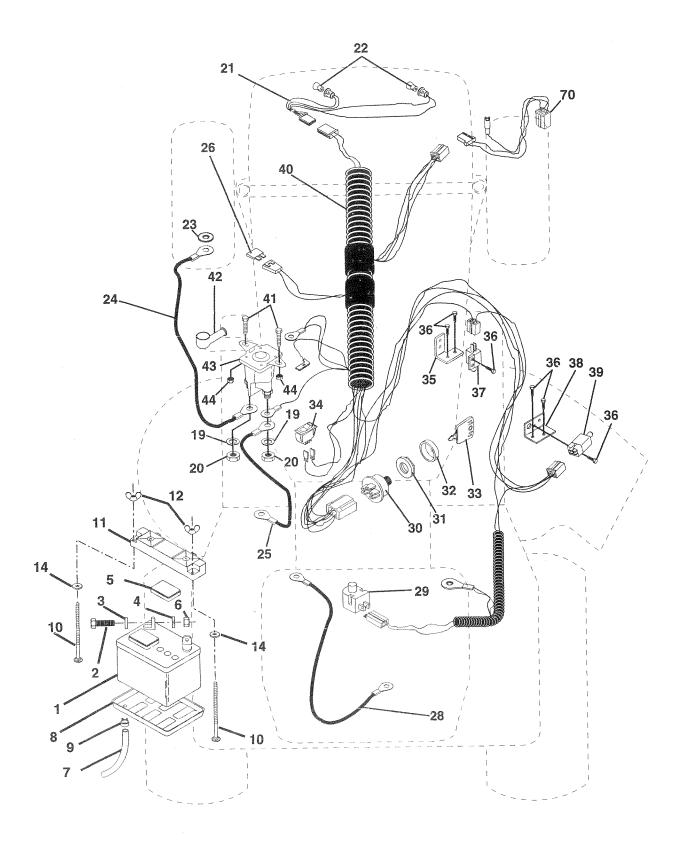
### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

#### **SCHEMATIC**



# 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

### ELECTRICAL



# 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

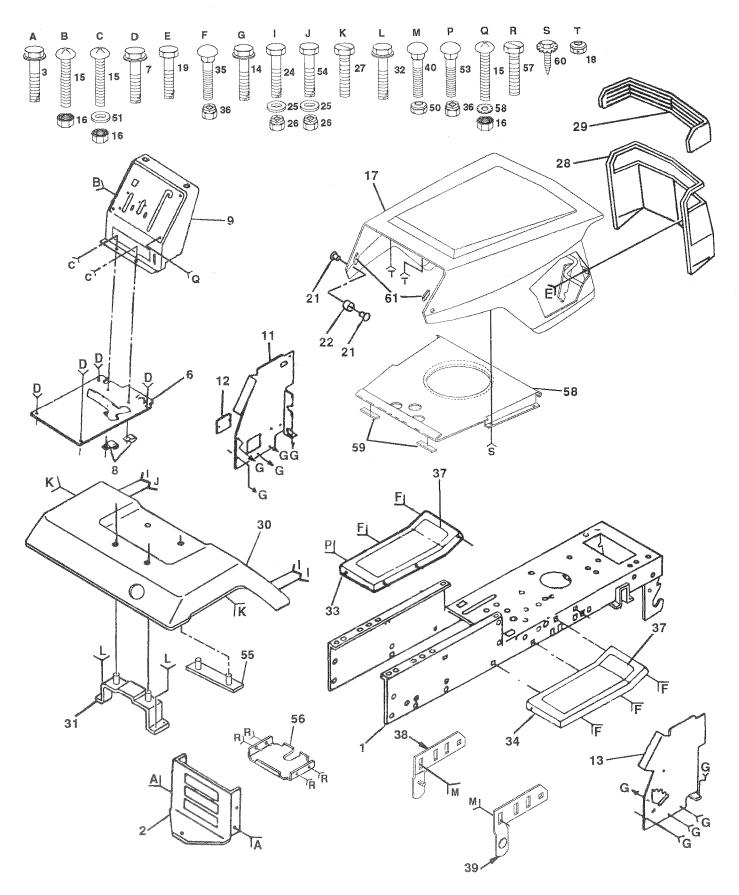
### ELECTRICAL

KE'		DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 14 19 20 1 22 23 24 25 26 28 29 31 32 33 34 35 36 37 89 40 41 42 43	121537X 74760412 19091016 10040400 121264X 73220400 7697J 7603J 109596X 72240460 102476X 123198X 19121618 10090400 73350400 136850 4152J 11150400 108423X 4206J 108824X 4207J 121305X 140399	Battery (Includes Electrolyte) Bolt, Hex 1/4-20 x 3/4 Washer 9/32 x 5/8 x 16 Gauge Washer, Lock 1/4 Caps, Battery Nut, Hex 1/4-20 Tube Tray, Battery Clamp, Hose Bolt, Carriage 1/4-20 x 7-1/2 Guard, Terminal Nut, Wing 1/4-20 Washer 3/8 x 1 x 18 Ga. Washer, Lock 1/4 Nut, Hex, Jam 1/4-20 Harness, Light Socket (With Bulbs) Light Bulb Washer, Lock Internal Tooth 1/4 Cable, Battery Cable, Battery Fuse Cable, Ground Switch, Seat Switch, Ignition 3 pos Nut, Ignition Switch Delta Cover, Key Switch Key, Molded Craftsman Delta Switch, Light Bracket, Switch Interlock Screw, Hex, Tapping #10-24 x 1/2 Switch, Interlock, Clutch Bracket, Switch Switch, Interlock, Attachment Clutch Harness Ignition Dash LT Mech Bolt, Hex 1/4-20 x 1/2 Cover, Terminal Solenoid Nut, Keps 1/4-20 Harness, Engine

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

# 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

### **CHASSIS AND ENCLOSURES**



### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

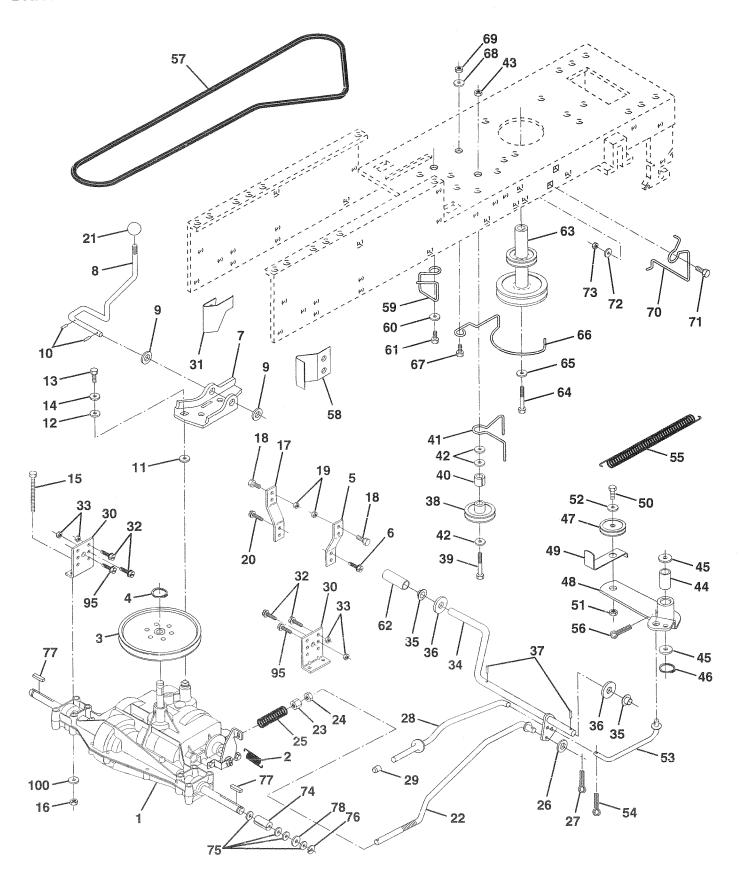
### **CHASSIS AND ENCLOSURES**

KEY NO.	PART NO.	DESCRIPTION
NO.  1 2 3 6 7 8 9 11 12 13 14 15 16 17 18 19 12 22 42 22 62 72 28 29 30 31 32 33 34 35 36 37 38 39	NO.  135034 137275 17490612 130800X031 17490608 126471X 137411X018 122795X 121794X 126276X 17490608 74180512 STD541431 137386X417 108067X 17411310 122933X 124479X STD523707 19131312 STD541437 17490608 123915X 124029X 121642X417 137113 17490612 105465X417 105464X417 STD533707 STD541437 105466X 134774 134775	Chassis Weldment 12ga 38/42 Drawbar, Stretch Screw Thdrol 3/8-16x3/4 Ty-tt Saddle Silkscreen 5 Sp SS Screw Thdrol 3/8-16x1/2 Ty-tt Clip Line Fuel 13/32 Mtg Hole Dash Silkscreened Panel Pnt Dash Lh Cover Access Black Square Panel Dash Rh Weldment Screw Thdrol 3/8-16x1/2 Ty-tt Screw Mach Trhd 5/16-18uncx3/4 Nut Keps 5/16-18 Unc Hood Asm Pnt Weldment GT Slope Nut Pal Screw Hex Wsh. #13-16 HI-Lo 5/8 Rivet Ratchet Nylon Washer Nylon Blk 28x 75x 19 Bolt Fin Hex 3/8-16unc X 3/4 Washer 13/32 X 13/16 X 12 Ga Nut Crownlock 3/8-16 Unc Screw Thdrol 3/8-16x1/2 Ty-tt Grille Grey Lens Headlight Bar Clear Fender Pnt Bracket Pnt Fender Screw Thdrol 3/8-16x3/4 Ty-tt Footrest Pnt Rh (silver) Footrest Pnt Rh (silver) Bolt Rdhd Sht Sqnk 3/8-16 X3/4 Nut Crownlock 3/8-16 Unc Pad Footrest Rbr Sq Craftsman Bracket, Asm. Pivot, L.H., Mower Rear Bracket, Asm. Pivot, R.H., Mower Rear
40 50	STD533710 STD541437	Bolt, Carriage 3/8-16 x 1 Locknut Hex W/Washer 3/8-16
51 53 54 55 56 57 58 59 60 61	STD551025 STD533710 STD523708 140675 108171X 17490512 137357 109227X 17030808 126938X	Washer 13/32 x 3/4 x 16 Ga. Bolt Carriage 3/8-16 x 1 Bolt Fin Hex 3/8-16 x 7/8 Strap Asm. Fender Support Battery Screw Thdrol. 5/16-18 x 3/4 Shield Heat Hood GT Pad Idler Screw Spiderloc Hex Hd. #8 x 1/2 AB Hood Bumpers

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

### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

### DRIVE



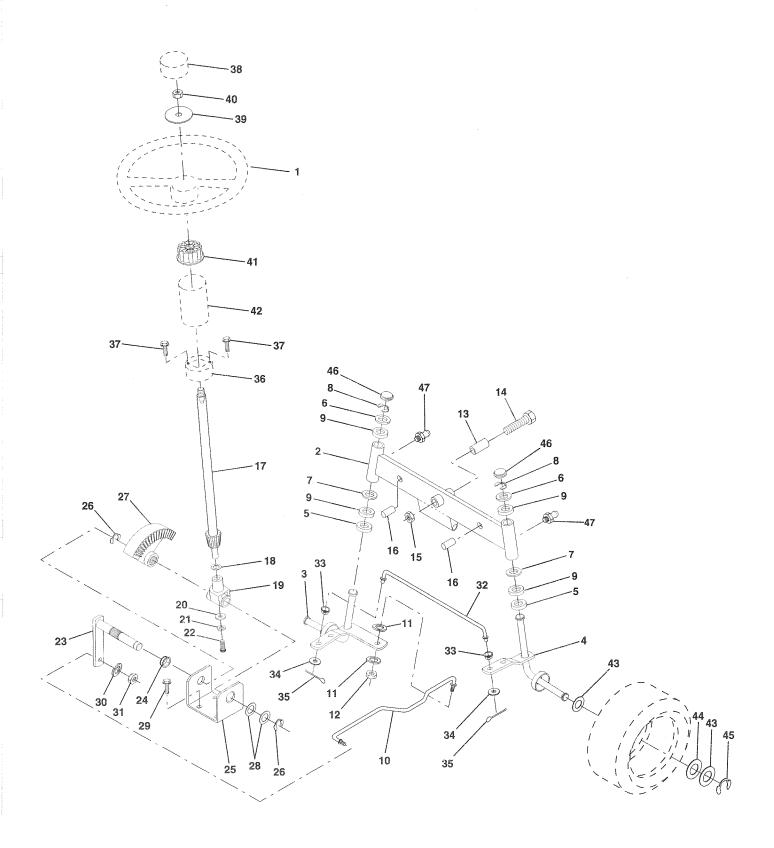
# 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

### DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
35 36 37 38 39 40	137371  110422X 123666X 12000028 121520X 17490512 130802 131679 19151216 STD561210 105701X 19091210 71040412 STD551125 74780544 STD541431 121520X STD523707 STD541437 17490512 106933X 130804 STD541437 17490512 106933X 130804 STD541437 STD561210 128904 124236X 130807 127275 STD523107 STD541431 122424X 120183X STD551062 STD571810 123674X STD523727 4470J	Transaxle 5sp Std Dana, Model No. 4360-56 Spring Return Brake T/a Zinc Pulley Transaxle Alum Ring Retainer # 5100-62 Strap Pnt Torque 30 Deg Blk Screw Thdrol 5/16-18 X 3/4 Tyt Plate Pnt Rod Shift T/a (blk) Rod Shifter Blk (dana) Washer 15/32 X 3/4 X 16 Ga. Pin Cotter 1/8 X 1 Cad Washer Plate Shf 388 Sq Hole Washer 9/32 X 3/4 X 10 Ga Bolt Fin Hex 1/4-28unfx3/4 Gr8 Washer Lock Hvy Helical 1/4 Bolt Fin Hex 5/16-18 X 2-1/2 Nut Crownlock 5/16-18 Strap Pnt Torque 30 Deg Blk Bolt Fin Hex 3/8-16unc X 3/4 Nut Crownlock 3/8-16 Unc Screw Thdrol 5/16-18 X 3/4 Tyt Knob Rd 1/2-13 Plstc Thds Blk Rod Brake Lt Nut Lock Hex W/wsh 3/8-16unc Nut Hex Jam 3/8-16 Unc Spring Rod Brake 2 00 Zinc Washer 13/32 X 13/16 X 16 Ga. Pin Cotter 1/8 X 3/4 Cad Rod Brake Parking Lt Cap Parking Brake Red Bracket Transmission Keeper Belt Lh Bolt Fin Hex 5/16-18 X 3/4 Nut Crownlock 3/8-18 Shaft Asm Pedal Foot 1 930 Bearing Nylon Blk 629 Id Washer 21/32 X 1 X 16 Ga. Pin Roll 3/16 X 1" Pulley Idler Flat Bolt Fin Hex 3/8-16unc X 2-3/4 Spacer Split 395 X 59 Bzp	42 19131312 43 STD54143 44 105706X 45 110812X 46 12000039 47 127783 48 123789X 49 123205X 50 STD523718 51 STD54143 52 STD55103 53 105710X 54 STD561210 55 105709X 56 STD561210 57 130801 58 127274X 59 140312 60 19131312 61 17490612 62 8883R 63 140186 64 71170764 65 STD551143 66 129921 67 STD523710 68 19131312 69 STD541437 70 134683 71 STD523710 68 19132012 73 STD541437 74 109502X 75 121749X 76 STD581075 77 123583X 78 121748X 95 17490612 100 19111216  NOTE: All compo	Bearing Nyl 503 X 628 X 1 25 Washer Hardened Ring Klip #t5304-50 Pulley Idler V Groove Plastic Bellcrank Asm Retainer Belt Style Spring Bolt Hex Hd 3/8-16unc X 1-1/2 Nut Crownlock 3/8-16 Unc Washer 13/32 X 13/16 X 16 Ga. Link Clutch 7 66 Pin Cotter 1/8 X 3/4 Cad Spring Return Clutch 6 75 Pin Cotter 1/8 X 3/4 Cad V-belt Ground Drive Keeper Belt Rh Retainer Belt Chassis Washer 13/32 X 13/16 X 12 Ga. Screw Thdrol 3/8-16x3/4 Ty-tt Cover Pedal Blk Std Pulley Engine Bolt Finhex 7/16-20 x 4 g5 Washer Lock Hvy Hlcl Spr 7/16 Keeper Belt Engine Lh Lt Bolt Fin Hex 3/8-16unc X 1 Washer 13/32 X 13/16 X 12 Ga. Nut Crownlock 3/8-16 Unc Guide Belt Dr Mower Rh Bolt Fin Hex 3/8-16unc X 1 Washer 13/32 X 1-1/4 X 12 Ga Nut Crownlock 3/8-16 Unc Spacer Split .80x1.94 Washer 25/32 X 1 1/4 X 16 Ga
41	109070X	Keeper Belt Retainer	1 inch = 2	25.4 mm

# 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

### STEERING ASSEMBLY



#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

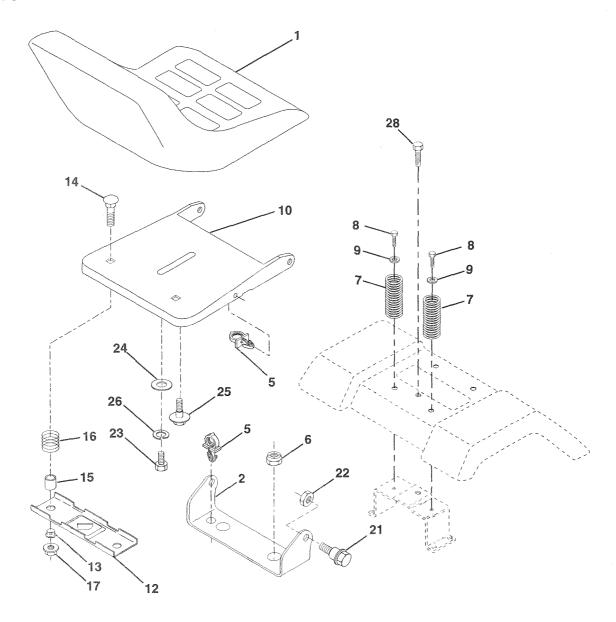
#### STEERING ASSEMBLY

1       139768       Wheel Steering Std Black         2       133988       Axle Asm Front         3       135227       Spindle Asm Lh         4       135228       Spindle Asm Rh         5       6266H       Bearing Race Thrust Harden         6       121748X       Washer 25/32 X 1 5/8 X 16ga         7       19272016       Washer 27/32 X 1 1/4 X 16 Ga         8       12000029       Ring Klip #t5304-75         9       3366R       Bearing Col Strg Blk         10       130468       Link Drag Sol Ball Jt 20 064         11       STD551137       Washer Lock Hvy Hlcl Spr 3/8         12       73610600       Nut Fin Hex 3/8-24 Unf         13       110438X       Spacer Bearing Axle Front         14       74011056       Bolt Hex 5/8-11 Unc X 3-1/2         15       73901000       Locknut Flange 5/8-11 Unc	KEY NO.	PART NO.	DESCRIPTION
16       132624       Pin Axle 5/8 X 1 55/1 54 Lg         17       132614       Shaft Asm Strg 5/8 X 15 19 Lt         18       57079       Washer Thrust 515x 750x 033         19       124035X       Support Shaft         20       126684X       Washer Shim 1/4 X 5/8 X 062         21       STD551125       Washer Lock Hvy Helical 1/4         22       71070410       Screw Hex Socket 1/4-20 X 5/8         23       127501       Shaft Asm Pittman         24       109816X       Syliner Snap In         25       124036X       Bracket Steering         26       12000029       Ring Klip #t5304-75         27       136874       Gear Sector         28       6266H       Bearing Race Thrust Harden         29       17490612       Screw Thdrol 3/8-16x3/4 Ty-tt         30       STD551137       Washer Lock Hvy Hlcl Spr 3/8         31       73610600       Nut Fin Hex 3/8-24 Unf         32       130465       Rod Tie Wire Form 19 75 Mech         33       126847X       Bushing Rod Tie Blk Lt         34       19131416       Washer 13/32 X 7/8 X 16ga         35       STD561210       Srew Siftp #10-16 X 1/2 Ty-b         36       132196 <td>234567890112345678901223456789011234456 111234567890122345678901233456789041234456</td> <td>133988 135227 135228 6266H 121748X 19272016 12000029 3366R 130468 STD551137 73610600 110438X 74011056 73901000 132624 132614 57079 124035X 126684X STD551125 71070410 127501 109816X 124036X 124036X 12000029 136874 6266H 17490612 STD551137 73610600 130465 126847X 19131416 STD551137 73610600 130465 126847X 19131416 STD561210 132196 STD611005 139769 19133808 STD541537 104820X 124749X 121749X 121749X 121749X 121749X 121749X 121748X 12000029 121232X</td> <td>Axle Asm Front Spindle Asm Lh Spindle Asm Rh Bearing Race Thrust Harden Washer 25/32 X 1 5/8 X 16ga Washer 27/32 X 1 1/4 X 16 Ga Ring Klip #t5304-75 Bearing Col Strg Blk Link Drag Sol Ball Jt 20 064 Washer Lock Hvy Hlcl Spr 3/8 Nut Fin Hex 3/8-24 Unf Spacer Bearing Axle Front Bolt Hex 5/8-11 Unc X 3-1/2 Locknut Flange 5/8-11 Unc Pin Axle 5/8 X 1 55/1 54 Lg Shaft Asm Strg 5/8 X 15 19 Lt Washer Thrust 515x 750x 033 Support Shaft Washer Shim 1/4 X 5/8 X 062 Washer Lock Hvy Helical 1/4 Screw Hex Socket 1/4-20 X 5/8 Shaft Asm Pittman Nyliner Snap In Bracket Steering Ring Klip #t5304-75 Gear Sector Bearing Race Thrust Harden Screw Thdrol 3/8-16x3/4 Ty-tt Washer Lock Hvy Hlcl Spr 3/8 Nut Fin Hex 3/8-24 Unf Rod Tie Wire Form 19 75 Mech Bushing Rod Tie Blk Lt Washer 13/32 X 7/8 X 16ga Pin Cotter 1/8 X 3/4 Cad Bushing Strg 5/8 Id Dash Screw Slftp #10-16 X 1/2 Ty-b Insert Cap Strg Wheel Std Blk Washer 13/32 X 2-3/8 X 8 Ga Nut Lock Center 3/8-24unf Adaptor Wheel Strg 640/ 635id Boot Shaft Steering Washer 25/32 X 1 1/4 X 16 Ga Washer 25/32 X 1 5/8 X 16ga Ring Klip #t5304-75 Cap Spindle Fr Top Blk</td>	234567890112345678901223456789011234456 111234567890122345678901233456789041234456	133988 135227 135228 6266H 121748X 19272016 12000029 3366R 130468 STD551137 73610600 110438X 74011056 73901000 132624 132614 57079 124035X 126684X STD551125 71070410 127501 109816X 124036X 124036X 12000029 136874 6266H 17490612 STD551137 73610600 130465 126847X 19131416 STD551137 73610600 130465 126847X 19131416 STD561210 132196 STD611005 139769 19133808 STD541537 104820X 124749X 121749X 121749X 121749X 121749X 121749X 121748X 12000029 121232X	Axle Asm Front Spindle Asm Lh Spindle Asm Rh Bearing Race Thrust Harden Washer 25/32 X 1 5/8 X 16ga Washer 27/32 X 1 1/4 X 16 Ga Ring Klip #t5304-75 Bearing Col Strg Blk Link Drag Sol Ball Jt 20 064 Washer Lock Hvy Hlcl Spr 3/8 Nut Fin Hex 3/8-24 Unf Spacer Bearing Axle Front Bolt Hex 5/8-11 Unc X 3-1/2 Locknut Flange 5/8-11 Unc Pin Axle 5/8 X 1 55/1 54 Lg Shaft Asm Strg 5/8 X 15 19 Lt Washer Thrust 515x 750x 033 Support Shaft Washer Shim 1/4 X 5/8 X 062 Washer Lock Hvy Helical 1/4 Screw Hex Socket 1/4-20 X 5/8 Shaft Asm Pittman Nyliner Snap In Bracket Steering Ring Klip #t5304-75 Gear Sector Bearing Race Thrust Harden Screw Thdrol 3/8-16x3/4 Ty-tt Washer Lock Hvy Hlcl Spr 3/8 Nut Fin Hex 3/8-24 Unf Rod Tie Wire Form 19 75 Mech Bushing Rod Tie Blk Lt Washer 13/32 X 7/8 X 16ga Pin Cotter 1/8 X 3/4 Cad Bushing Strg 5/8 Id Dash Screw Slftp #10-16 X 1/2 Ty-b Insert Cap Strg Wheel Std Blk Washer 13/32 X 2-3/8 X 8 Ga Nut Lock Center 3/8-24unf Adaptor Wheel Strg 640/ 635id Boot Shaft Steering Washer 25/32 X 1 1/4 X 16 Ga Washer 25/32 X 1 5/8 X 16ga Ring Klip #t5304-75 Cap Spindle Fr Top Blk

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

#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

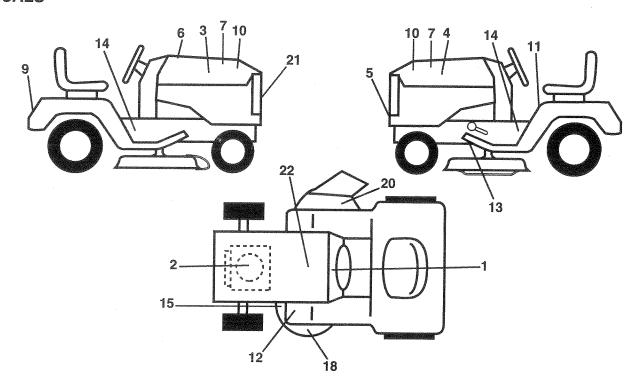
#### **SEAT ASSEMBLY**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	140122 140551	Seat 3350 Blk/red Craftsman Bracket Pnt Pivot Seat (blk )	16 17	121250X 123976X	Spring Cprsn 1 27 Blk Pnt Nut Lock 1/4 Lge Flg Gr 5 Zinc
5	140407	Clip Push-In	21	139888	Bolt Shoulder 5/16-18 Unc Blkz
6	STD541437	Nut Crownlock 3/8-16 Unc	22	STD541431	Nut Crown Lock 5/16-18
7	124181X	Spring Seat Cprsn 2 250 Blk Zi	23	74780814	Bolt Fin Hex 1/2-13 X 7/8 Gr 5
8	17490508	Screw Thdrol 3/8-16 X 1 Ty-tt	24	19171912	Washer 17/32 X 1-3/16 X 12 Ga
9	19131614	Washer 13/32 X 1 X 14 Ga	25	127018X	Bolt Shoulder 5/16-18 X 62
10	140552	Pan Pnt Seat (blk )	26	STD551150	Washer Lock Hvy Hlcl Spr 1/2
12	121246X	Bracket Pnt Mounting Switch	28	17490608	Screw Thdrol. 3/8-16 x 1/2
13	121248X	Bushing Snap Blk Nyl 50 ld		special and a second	and Post of the Control of the Control
14	72050411	Bolt Rond Sht Nk 1/4-20x1-3/8	NOI		nent dimensions given in U.S. inches.
15	134300	Spacer Split 28 X 96 Zinc		1 inch = 25	o.4 mm

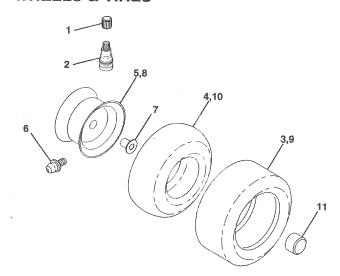
## 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

#### **DECALS**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
6 7 9 10 11	138955 136128 140560 140561 132674 133644 138139 125880X 138049 137537 4900J	Decal Instruction Operat Eng Decal Engine 18 hp B&S Decal Hood Slope Rh Craftsman Decal Hood Slope Lh Craftsman Decal Grille Lt4000 Craft Usa Decal Maint Customer Sears Dom Decal Panel Side I/c Gold/blk Decal Fender Craftsman Red Decal Side Panel Die Hard Decal Caution English/Spanish Decal Clutch/brake English	13 14 15 18 20 21 22	109199X 133139 136832 133179 133178 131265 138047 138311 138836 140372 140373	Decal V-belt Dr Sch Tractor E Decal Chassis 5 Sp 42" Decal Mower Drive Schematic 42 Decal Mower Qc System Decal Mower 3 in One Conv. Decal Lightbox Decal Battery Decal Lift Handle Decal, 1 Pc. Dash LT Manual, Owner's (English) Manual, Owner's (Spanish)
		•			(

#### WHEELS & TIRES

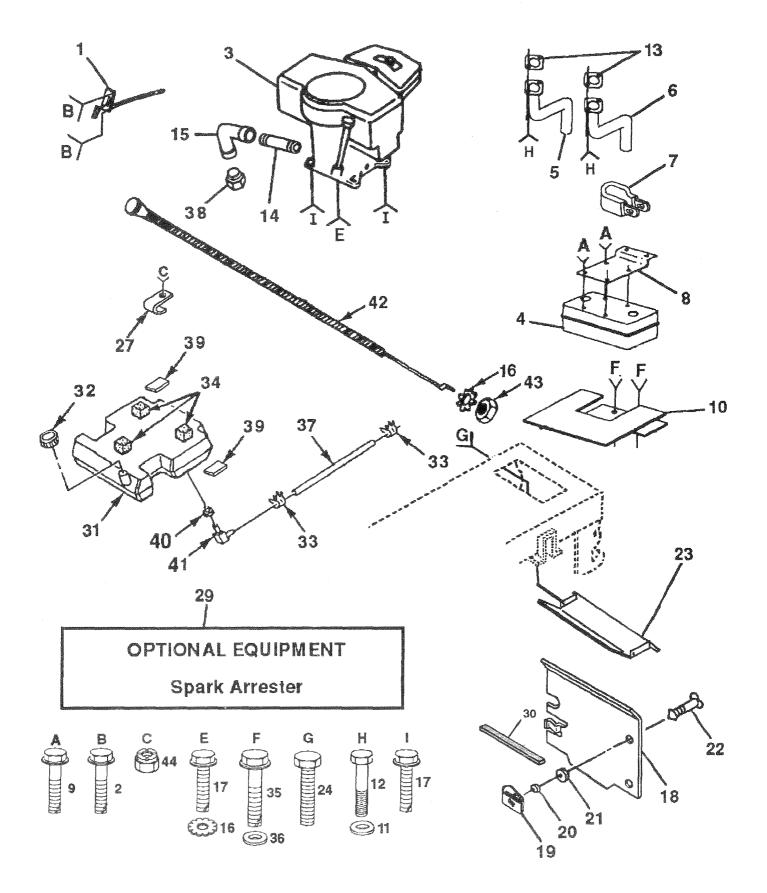


KEY NO.	PART NO.	DESCRIPTION
	59192 65139 106222X 59904 106732X417 278H 9040H 106108X417 122082X 7152J 104757X	Cap Value Tire Stem Value Tire F Ts 15 X 6 0 - 6 Service Tube Inner Front #35060 Rim Asm 6"front Silver Service Fitting Grease Bearing Flange Rim Asm 8"rear Silver Service Tire R Ts 20 x 10-8 Service Tube Rear 9 5 X 8 Service Cap Axle Blk 1 50 X 1 00

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

#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

#### **ENGINE**



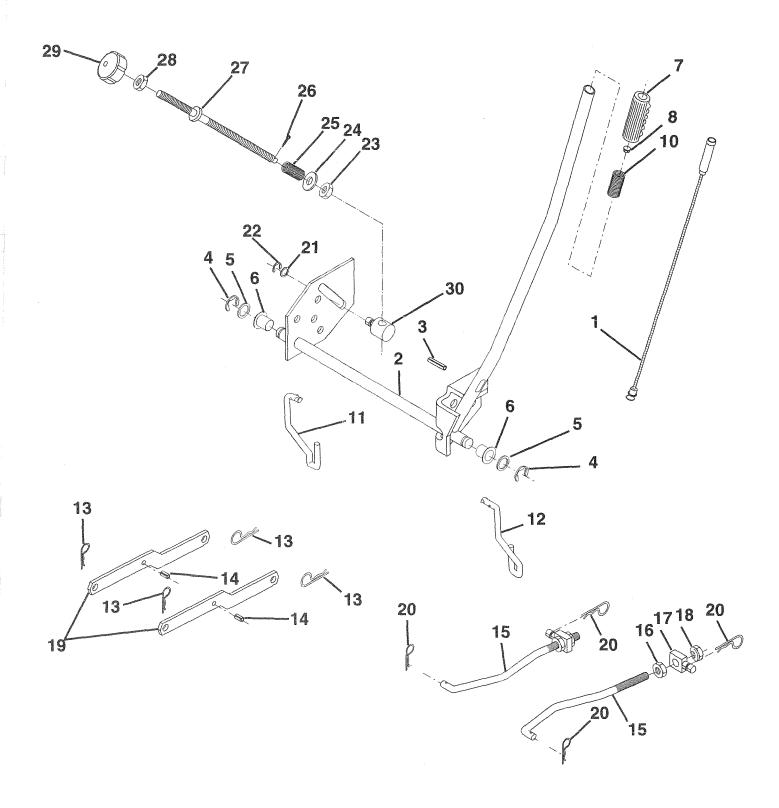
#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

#### ENGINE

KEY NO.		DESCRIPTION
1 2 3	132755 17720410 137518	Control Throt Rh Blk Pdl 15 10 Screw Hex Thd Cut 1/4-20x5/8 T Engine B&s 18hp, Model No.
3 4567890112345678901123456789012223479033333333333333333333333333333333333	137518  137978 136989 136988 138129 122439X 17190408 128199 STD551125 STD522507 8545J 13280336 13200300 STD551237 17490624 137358 105839X 105839X 105838X STD551025 123650X 128953 17021008 2751R 137180 127057X 141069 123549X 123487X 106082X 17490512 19132012 5277J	Engine B&s 18hp, Model No. 422707, Type No. 1522-01 Muffler Exhaust Exhaust Asm. Left Exhaust Asm. Right Clamp Tube Double Engine Bracket Muffler Mounting Screw Hex Whs Thdcut 1/4-20 Unc Heat Shield Lt Washer Lock Hvy. Helical 1/4 Bolt Fin Hex 1/4-20 x 3/4 Gasket Muffler Nipple Pipe 4-1/2" Elbow Std 90 Degree 3/8-18 Npt Washer Lock Ext Tooth 3/8 Screw Thdrol 3/8-16x1-1/2 Tytt Shield Pnt Heat Receptacle 1/4 Turn Dacrotized Retainer 1/4 Turn 365odx 222id Washer 9/32 X 5/8 X 16 Ga Stud 1/4 Turn (replaces 105751 Shield Pnt Heat Browning Grass Screw Tap Hex #10-24 UNC x 1/2 Clip Insulator Arrestor Spark Pinch Weld Hood Blk Tank Fuel 3 50 Rear Cap Asm Fuel W/sym Vented Clamp Hose Blk Spacer Pad Screw Hexwsh Thdrol 5/16-18 x 3/4 Washer 13/32 x 1-1/4 x 12 Ga. Line Fuel Plug Oil Drain (Order From Engine
39 40 41 42 43 44	109227X 3645J 139227 138127 73610600 73680600	Manufacturer) Pad Idler 1.75 x .75 x .06 Bushing Stem Tank Fuel Control Choke Nut Hex 3/8-24 Unf Nut Crownlock 3/8-16

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

## 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560



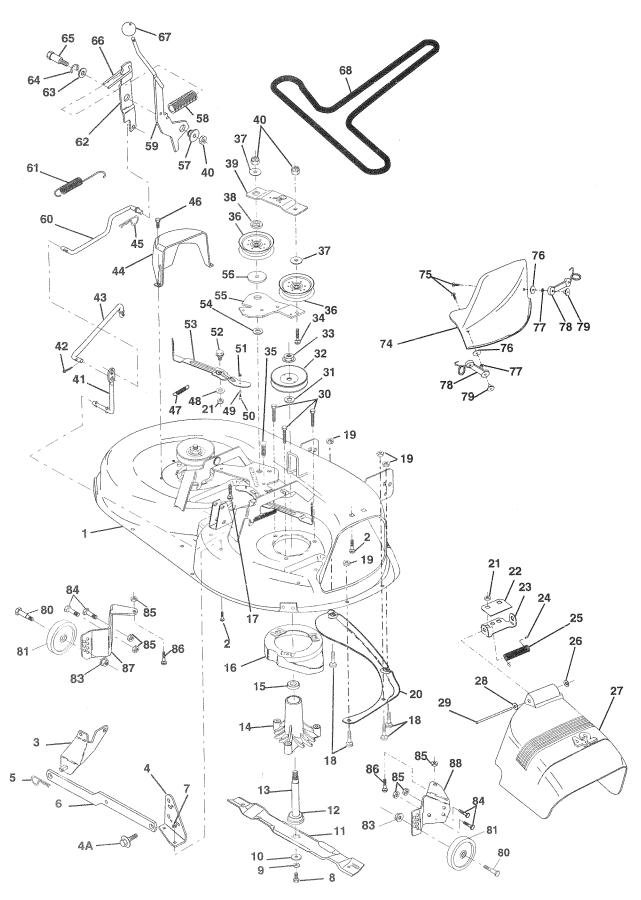
## 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

KEY NO.	PART NO.	DESCRIPTION
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	4939M 135563 127218 73350800 130171 73800800 130832 3146R 19151216 12000037 110807X 19131016 2876H 76020308 126971X 73350600	Rod Asm. Lever Shaft Asm. Lift Pin Groove E Ring #5133-62 Washer 21/32 x 1 x 21 Ga. Bearing Nylong Grip Handle Fluted Button Plunger Read Spring Cprsn Link Lift Lh Fixed Length Link Lift Rh Fixed Length Retainer Spring Pin Roll Slt 5/16 x 1.25 Link Front Nut Jam Hex 1/2-13 Unc Trunnion Blk Zinc Nut Lock W/Wsh 1/2-13 Unc Arm Suspension Rear Retainer Spring Washer 15/32 x 3/4 x 16 Ga. Ring Klip #T5304-37 Nut Spring Washer 13/32 x 5/8 x 16 Ga. Spring 2-1/8" Pin cotter 3/32 x 1/2 Rod Adj. Lift Nut Hex Jam 3/8-16 Knob Inf. 3/8-16 Trunnion Dp. Stop

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

# 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

#### MOWER DECK

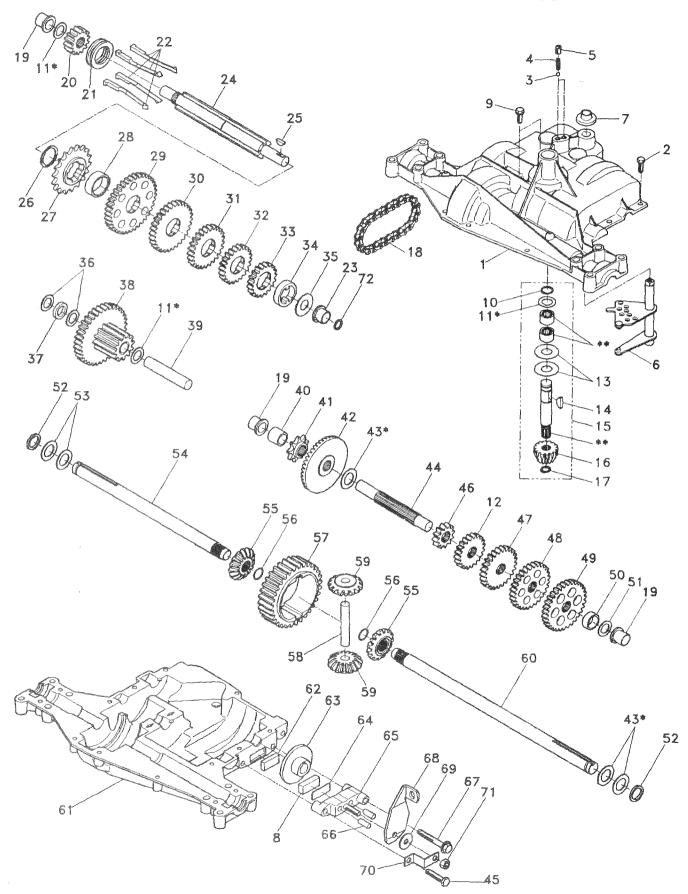


## 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560

#### MOWER DECK

KE'		DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 4 5 6 7 8 9 10 11 2 3 14 15 16 17 18 19 20 1 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	138024 STD533107 138017 138440 132827 STD624008 130832 73800500 850857 STD551137 140296 134149 129895 137645 128774 110485X 136929 72110618 72140505 73800500 136888 STD541431 134753 131267 105304X 123713X 110452X 130968 19111016 131491 138776 129963 129861 137266 STD533717 13835 131494 19131612 133502 133503 STD541437 133551 STD560907 133504	Mower Deck Assembly, 42" Bolt Bracket Asm Fr. Sway Bar Bracket Asm Deck 42" Sway Bar Shoulder Bolt 5/16-18 Thd. Form Retainer Spring Arm, Suspension, Rear Locknut 5/16-18 Bolt 3/8-24 x 1.25 Grade 8 Washer, Lock Washer, Hardened Blade, Mulching, 42" Mower Deck Bearing, Ball Shaft Assembly, Mandrel, Vented (Includes Key Number 12) Housing, Mandrel, Vented Bearing, Ball, Mandrel Stripper, Vented Mower Deck Bolt, Carriage 3/8-16 x 2-1/4 Bolt, Carriage 5/16-18 x 5/8 Locknut 5/16-18 Baffle, Vortex Nut Stiffener Bracket Bracket, Deflector Cap, Sleeve Spring, Torsion, Deflector Nut, Push Shield, Deflector Washer 11/32 x 5/8 x 16 Gauge Rod, Hinge Bolt 5/16-18 x 1.25 Washer, Spacer Pulley, Mandrel Nut, Flanged, Toplock 9/16 Bolt Fastner, Christmas Tree Pulley, Idler, Flat Washer 13/32 x 1 x 12 Gauge Spacer, Idler Arm, Upper Stiffner, Idler Arm, Upper Stiffner, Idler Arm, Upper, Hardened Nut Rod, Pivot, with Nibs Cotter Pin Rod, Clutch, Secondary, with Nibs	46 47 48 49 51 52 53 55 55 55 56 66 66 66 66 67 77 78 79 81 88 88 88 88 88 88 88 88 88 88 88 88	137729 131335 133944 133940 131340 STD541410 139888 131845 133943 133844 122052X 127498 128759 133573 134666 131870 127847 121748X 12000029 128903 127845 106932X 130969 136420 71161010 19061216 STD551110 130758 2029J 137644 133957 73930600 74760512 73510500 72110504 132263 132262 130794	Screw, Hex Hd, Thdcut 1/4-20 x 5/8 Spring, Extension Washer, Hardened Roller Assembly, Cam Follower Bolt, Shloulder #10-24 Grade 5 Locknut Bolt, Shoulder 5/16-18 UNC Arm Assembly, Pad, Brake Washer, Hardened Arm, Idler Spacer, Retainer Bushing, Large, Brass Spring, Mower Clutch Arm, Clutch, Primary Rod, Clutch, Primary, with Nibs Spring, Extension, Return Arm, Clutch, Secondary Washer 25/32 x 1-5/8 x 16 Gauge Ring, Klip Bolt, Shoulder 3/8-16 UNC x 1.44 Keeper, Spring Knob Rd. 3/8-16 Plstc. V-Belt, 42" Mower Mulcher Cover Screw Washer #10 Washer, Lock Latch Assembly, Bagger Nut, Weld Bolt, Shoulder Wheel, Gauge, Donut Nut, Lock 3/8-16 Bolt, Hex Head 5/16-18 UNC x 3/4 Nut, Keps 5/16 - 18 UNC x 3/4 Nut, Keps 5/16 - 18 UNC x 1/2 Bracket, Gauge, Wheel LH Bracket, Gauge, Wheel RH Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 33) Mower Deck, Complete (Std. Deck, Order separately mulcher blade, mulcher plate and gauge wheel components Key Nos. 11, 74-88)
45	140088 STD624003	Guard, Mandrel, LH Retainer		1 inch = 25	.4 mm

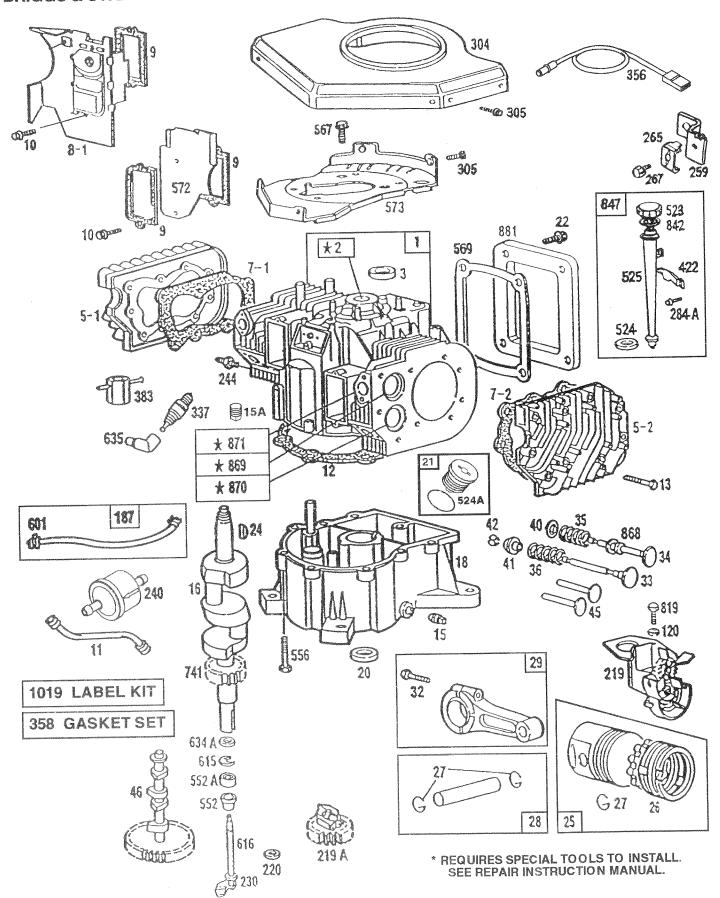
# 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560 DANA TRANSAXLE - MODEL NUMBER 4360-56

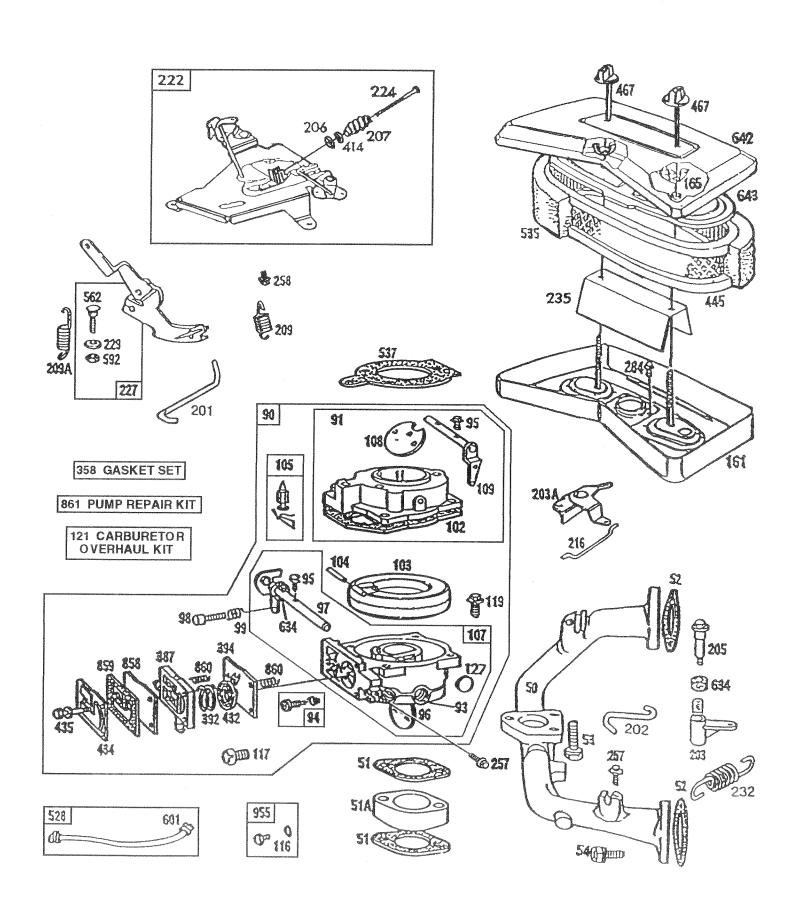


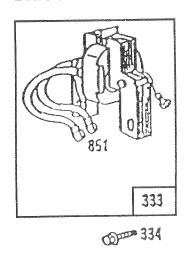
# 18 HP 42" TRACTOR - - MODEL NUMBER 917.257560 DANA TRANSAXLE - MODEL NUMBER 4360-56

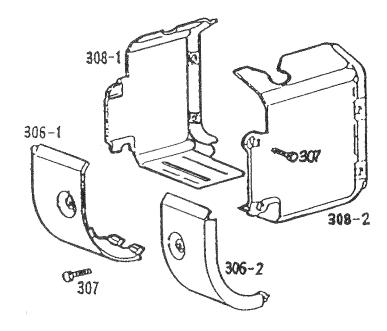
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	138248	Housing, Upper	41	105928X	Sprocket, 9 Teeth
2	2274J	Screw, Self-Tapping, Large	42	106605X	Gear, Bevel, 42 Teeth
3	134400	1/4-20 x .734 Ball, Detent	43 44	134394 <sup>1</sup>	Assembly, Kit, Shim, .750 Shaft Shaft, Drive
4	105904X	Spring, Detent	45	106596X	Screw, Self-Tapping, Large
5	105905X	Screw, Set			5/16-18 X 1.44
6	134788	Kit, Shifter Assembly	46	105933X	Gear, Spur, 12 Teeth
7	134399	Boot, Shifter	47	106589X	Gear, Spur, 25 Teeth
8 9	120951X 134791	Puck, Friction	48	120408X	Gear, Spur, 28 Teeth
10	2267J	Screw, Self-Tapping, with Sealer Ring, Retaining	49 50	105937X 105936X	Gear, Spur, 31 Teeth Spacer .781 x 1.00 x .375
11		Assembly, Kit, Shim .625 Shaft	51	2226J	Washer, Plain .632 x 1.00 x .060
12	120407X	Gear, Spur, 20 Teeth		134401	Washer, Neoprene
13	120415X	Washer, Plain .632 x 1.38 x .046	53	2264J	Washer, Plain .758 x 1.25 x .031
14	2257J	Key, Woodruff, #9	54	120474X	Axle, L.H.
15	106846X	Assembly, Kit, Input Shaft		120409X	Gear, Miter, 15 Teeth
16 17	106095X	Pinion, Bevel, 14 Teeth	56 57	105941X	Ring, Retaining
18	105909X 105910X	Ring, Retaining Chain, 24 Pitches		110071X 120952X	Gear, Spur, 32 Teeth Shaft, Cross
19	105911X	Bearing, Flange		106592X	Gear, Miter, 15 Teeth
20	138242	Gear, Spur, 14 Teeth		120475X	Axle, R.H.
21	138246	Collar, Clutch		138247	Housing, Lower
22	138238	Assembly, Kit, Clutch Keys		120961X	Puck, Friction
23	138240	Bearing, Flange		7294J	Disc, Brake
24 25	138245	Shaft, Intermediate		108989X	Spacer Law Broke
25 26	2244J 105916X	Key, Woodruff, #61 Ring, Retaining		120953X 120954X	Jaw, Brake Pin, Dowel
27	120470X	Sprocket, 18 Teeth	67	134799	Screw, Self-Tapping, Large
28	110070X	Spacer	•		5/16-18 x 2.25
29	108977X	Gear, Spur, 37 Teeth		138244	Lever, Actuating
30	124644X	Gear, Spur, 30 Teeth		108996X	Washer, Plain .321 x 1.00 x .055
31	108980X	Gear, Spur, 25 Teeth		120956X	Bracket, Anti-Rotation
32 33	120406X	Gear, Spur, 22 Teeth		73810500	Locknut 5/16-24
34	134796 134797	Gear, Spur, 19 Teeth Spacer 1.133 x 1.50 x .375		138241 120416X	Square Ring Grease
35	105925X	Washer, Plain .640 x 1.37 x .061	10	1204107	diease
	2232J	Washer, Plain .632 x 1.00 x .026	*	Use in combina	ations to maintain proper clearances
37	108978X	Spacer .630 x 1.00 x .169			· ·
38	110079X	Assembly, Gear, Combination of	**	Order Key No.	15
00	1040001/	12 Teeth and 35 Teeth	B 1 /	- All	and office and office of the state of the st
39 40	124639X	Shaft, Idler	NOT	E: All compone	ent dimensions given in U.S. inches
40	120472X	Spacer .633 x .87 x .755		1 inch = 25.4	+ 111111

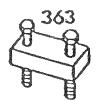
18 HP 42" TRACTOR - - MODEL NUMBER 917.257560
BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1522-01

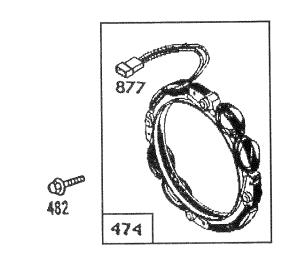


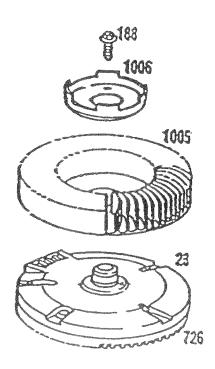


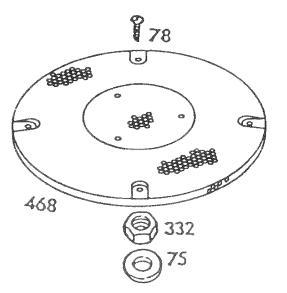


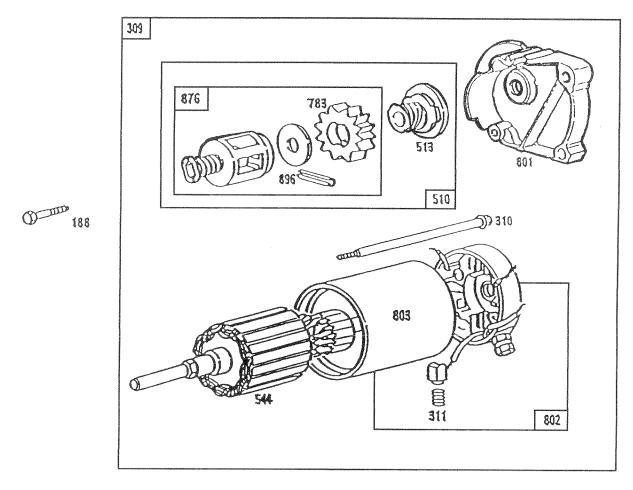












Reference Number		309	310	311	544	801	802	803
		Motor and	Thru Bolt	Brush	Armature	Drive End Cap	End Cap Ass'y.	
Manufacturer		Drive Ass'y.	Assembly	Assembly	Assembly		Commutator	Assembly
Briggs &	Housing							713330111011
Stratton	Length							
12V	3-5/8"	394808	94003	395538	390837	394860	395537•	398159

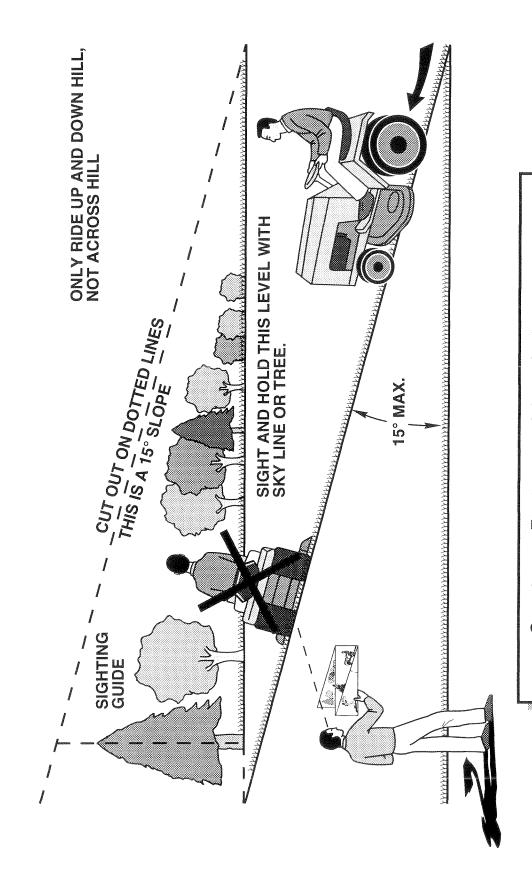
<sup>\*</sup>Includes Brush Set

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

444533		PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
2 399265 Sael, Oil 50 213290 5-1 493457 Head, Cylinder Number 1 51 271412 5-2 493458 Head, Cylinder Number 2 51 280391 7-1 271868 Gasket, Cylinder Head Number 1 52 270884 8-1 398065 Saek, Cylinder Head Number 2 53 93970 8-2 222892 Cover, Breather, Cylinder Number 2 72, Air 8 94326 8-2 222892 Cover, Breather, Cylinder Number 2 72, Air 8 94326 8-2 222892 Cover, Breather, Cylinder Number 2 72, Air 8 94326 8-2 222892 Cover, Breather, Cylinder Number 2 72, Air 8 94326 8-2 222892 Cover, Breather, Cylinder Number 2 72, Air 8 94326 8-2 27803 Gasket, Valve Cover 90 485181 9 27803 Screw, Sems 91 485035 11 280225 Tube, Breather 90 485181 12 281703 Gasket, Crankcase Cover 1/64" 94 491538 271189 Gasket, Crankcase Cover 1/64" 94 491538 271189 Gasket, Crankcase Cover 1/64" 94 491538 13 94239 Plug, Oil Drain 97 392672 13 949028 Crankshaft 99 26157 14 94304 Base Assembly, Crankcase 103 298614 14 94304 Base Assembly, Crankcase Cover 1/64" 94 1956 15 94239 Plug, Pipe 98 191920 16 394028 Crankshaft 99 26157 17 494196 Key, Timing Gear 102 271607 18 94304 Base Assembly, Crankcase Cover 1/64 94 1956 18 94239 Plug, Pipe 104 92 1957 18 94304 Base Assembly, Crankcase Cover 1/64 104 230895 19 394908 Serial Assembly, Crankcase Cover 1/64 104 230895 19 394919 Serial Assembly, Crankcase Cover 1/64 104 230895 19 394919 Serial Assembly, Crankcase Cover 1/64 104 230895 19 394919 Serial Assembly, Crankcase Cover 1/64 104 230895 19 19 19 19 19 19 19 19 19 19 19 19 19 1	1	494533	Cylinder Assembly	45		Tappet, Valve
3 319086 Seal, Oil 5-1 493457 Head, Cylinder Number 1 51 271412 5-2 493458 Head, Cylinder Number 2 51A 280319 5-2 174867 "Gasket, Cylinder Head Number 1 51 270412 5-2 174868 "Gasket, Cylinder Head Number 2 53 39370 5-8 222898 Cover, Sereather, Cylinder Number 2 53 39370 8-1 398065 Breather Assembly Number 1 54 393208 8-2 222898 (Use with Key Number 572, Air 7 8 222511 6-2 222892 (Use with Key Number 572, Air 7 8 34326 8-2 222898 (Use with Key Number 572, Air 7 8 34326 8-2 222898 (Seak, Valve Cover 9 9 495181 10 94382 Screw, Sems 91 495385 11 280225 Tube, Breather 99 495181 12 271703 "Gasket, Crankcase Cover 1/64" 94 491538 271189 "Gasket, Crankcase Cover 1/64" 94 491538 15 94239 Plug, Oil Drain 97 392672 15 294724 Screw, Cylinder Head 99 20157 16 394028 Crankshaft 99 201675 17 Seal, Oil 104 230896 18 493304 Base Assembly, Crankcase Cover 1/64 99 49166 18 493304 Base Assembly, Crankcase Cover 1/64 99 49166 18 493304 Base Assembly, Crankcase Cover 1/64 99 201675 19 49160 Flywheel and Ring Gear Assembly, 100 2098614 10 291675 Seal, Oil 104 230896 11 594959 Piston Assembly, 101° Oversize 394957 Piston Assembly, 020° Oversize 1394958 Piston Assembly, 020° Oversize 1394962 Ring Set, Piston, O30° Oversize 149 229 394406 Rod Assembly, Connecting, 020° Undersize Crankpin Bore 26828 Spring, Intake Valve Nature Valve Rod 20164 Ring Governor Idle 1000 Rod 20164 Ring Set, Piston, O30° Oversize 149 26828 Spring, Intake Valve Nature Valve Rod 20164 Ring Set, Piston, O30° Oversize 149 26828 Spring, Intake Valve Rod 201568 Retainer, Intake Valve Rod 20164 Ring Set, Piston O70° Cerabia Retainer, Intake Valve Rod 20164 Ring Set, Piston O70° Cerabia Retainer, Intake Valve Rod 20164 Ring Set, Piston Retainer, Intake Valve Rod 20164 Ring Set, Piston Retainer, Intake Valve Rod 20164 Ring Set, Piston Retainer, Intake Valve Rod 20164 Ring	2	399265		46	213520	Gear, Cam
5-2 493458		391086	Seal, Oil		213290	Manifold, Intake
7-1         271868         *Gasket, Cylinder Head Number 1         52         270884         *Gasket, Intake Manifold Mounting B-1         39805         Screw, Sems, Carburetor Mounting B-1         39806         Screw, Sems, Carburetor Mounting Green Kell With Mounting Holes)         Screw, Sems, Carburetor Mounting Screw, Sems, Lock, Mulfler Screw, Sems, Carburetor Mounting B-1         Screw, Sems, Lintake Manifold Mnt.         Washer, Spring Screw, Sems, Intake Manifold Mnt.           9 27803         *Gasket, Valve Cover         90         495181         223016         Screw, Sems, Carburetor Mounting Screw, Sems, Carburetor Mounting Washer, Spring         Lock, Muffler Screw, Sems, Carburetor Mounting Washer, Spring         Valve Mulfler Screw, Sems, Carburetor Mounting Washer, Spring         Valve Mulfler Screw, Sems, Carburetor Mounting Washer, Spring         Valve Mulfler Screw, Sems, Carburetor Mulfler Screw, Sems, Carburetor Mulfler         Valve Mulfler Screw, Sems, Carburetor Mulfler         Valve Assembly, Loper Carburetor Bushing, Throttle Agitation of Screw, Sems, Carburetor Mulfler         Valve Assembly, Carburetor Idle         Valve Mounting         Valve Assembly, Throttle and Choke Valve Mounting         Valve Mounting         Valve Mounting         Valve Mounting         Valve Choke         Valve, Choke         Valve, Choke         Valve, Choke         Valve, Choke         Valve, Choke         Valve, Choke         Valv		493457			271412 **	
7-2 271868						Spacer, Carburetor
8-1   398065   Breather Ássembly Number 1   54   93206   Screw, Sems, Intake Manifold Mnt.						
Section						
Cuse with Key Number 572, Air						
Saffle with Mounting Holes   81 223016	8-2	222092				
9 27803 * Gasket, Valve Cover 10 99 495181 Carburetor Assembly 10 94382 Screw, Sems 91 495035 Body Assembly, Upper Carburetor 12 280225 Tube, Breather 93 231209 Bushing, Throttle Shaft 271188 * Gasket, Crankcase Cover .005" 271188 * Gasket, Crankcase Cover .005" 271188 * Gasket, Crankcase Cover .005" 394555 Screw, Cylinder Head 94555 Screw, Cylinder Head 94497 Plug, Pipe 98 91820 Screw, Machine, Fillister Head Spring, Standard 10 99 26157 Seal, Oil 10 10 10 10 10 10 10 10 10 10 10 10 10						
10   94382   Screw, Sems   91   495035   Body Assembly, Upper Carburetor   12   271703   "Gasket, Crankcase Cover 1/64"   94   491538   "Valve Assembly, Carburetor Idle   Screw, Cylinder Head   95   93499   Screw, Sems, Throttle and Choke   Valve Mounting   Valve, Throttle   Shaft and Lever, Throttle   Shaf	a	27803				
11   280225			Screw Sems			
271703			Tube. Breather			
271189		271703		94		* Valve Assembly, Carburetor Idle
13         94565         Screw, Cylinder Head         96         221939         Valve, Throttle           15         94239         Plug, Oil Drain         97         392672         Shaft and Lever, Throttle           15A         94497         Plug, Pipe         98         91920         Screw, Machine, Fillister Head           16         394028         Crankshaft         99         26157         Spring, Throttle Adjustment           18         493304         Base Assembly, Crankcase         102         291675         Seal, Oil         104         230896         "Plat, Carburetor Body           21         399195         Seal Assembly, Cylinder Plug         105         394683         "Valve, Fuel Inlet           22         94724         Screw, Sems, Crankcase Cover         107         491543         Body, Lower Carburetor           23         491180         Flywheel and Ring Gear Assembly         109         392673         Shaft and Lever, Thoke           24         222698         Key, Flywheel         117         2313338         Jet, Needle Valve           25         394955         Piston Assembly, Standard         119         94152         Screw, Sems, Hex Head           25         394957         Piston Assembly, Oo'Oversize         120 <td></td> <td>271188</td> <td>* Gasket, Crankcase Cover .005"</td> <td>95</td> <td>93499</td> <td>Screw, Sems, Throttle and Choke</td>		271188	* Gasket, Crankcase Cover .005"	95	93499	Screw, Sems, Throttle and Choke
15   94239   Plug, Oil Drain   97   392672   Shaft and Lever, Throttle						
15A         94497         Plug, Pipe         98         91920         Screw, Machine, Fillister Head           16         394028         Crankshaft         99         26157         Spring, Throttle Adjustment           18         493304         Base Assembly, Crankcase         102         271607         "Gasket, Carburetor Body           20         291675         Seal, Oil         104         230896         "Pin, Float Hinge           21         399195         Seal Assembly, Cylinder Plug         105         394683         "Valve, Fuel linet           22         94724         Screw, Sems, Crankcase Cover         107         491543         Body, Lower Carburetor           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, Otoversize         120         92290         Washer, Lock           394957         Piston Assembly, Oversize         121         491539         Jet, Needle Valve           26         394957         Piston Assembly, Oversize         127         223472         Plug, Welch           26         39495						
18						
94196 Key, Timing Gear 18 493304 Base Assembly, Crankcase 20 291675 Seal, Oil 104 230896 21 399195 Seal Assembly, Cylinder Plug 22 94724 Screw, Sems, Crankcase Cover 23 491180 Flywheel and Ring Gear Assembly, Magneto 24 222698 Key, Flywheel 25 394955 Piston Assembly, Standard 26 394956 Piston Assembly, O30" Oversize 27 394958 Pision Assembly .030" Oversize 28 394959 Ring Set, Piston, O10" Oversize 29 394960 Ring Set, Piston .010" Oversize 394961 Ring Set, Piston .010" Oversize 394962 Ring Set, Piston .030" Oversize 394963 Pin Assembly, Connecting 391286 Pin Assembly, Piston, Standard 40 221596 Retainer, Intake Valve 40 221596 Retainer, Intake Valve 41 292260 Rotocoil, Exhaust Valve 42 93630 Retainer, Exhaust Valve 43 292260 Rotocoil, Exhaust Valve 44 293630 Retainer, Exhaust Valve 45 293630 Retainer, Exhaust Valve 46 293630 Retainer, Exhaust Valve 47 29260 Rotocoil, Exhaust Valve 48 293630 Rotocoil, Exhaust Valve 49 3630 Retainer, Exhaust Valve 49 3630 Retainer, Exhaust Valve 49 3630 Retainer, Exhaust Valve 49 3630 Rotocoil, Exhaust Valve						
18         493304         Base Assembly, Crankcase         103         298514         Float, Carburetor           20         291675         Seal, Oil         104         230896         ***Pin, Float Hinge           21         399195         Seal Assembly, Cylinder Plug         105         394683         ***Valve, Fuel Inlet           22         947724         Screw, Sems, Crankcase Cover         107         491543         Body, Lower Carburetor           Mounting         108         223534         Valve, Choke           23         491180         Flywheel and Ring Gear Assembly, Magneto         116         280474         O-Ring           24         222698         Key, Flywheel         117         231333         Jet, Needle Valve           25         394955         Piston Assembly, O10" Oversize         129         92290         Washer, Lock           394956         Piston Assembly, O30" Oversize         129         92290         Washer, Lock           394957         Piston Assembly, Standard         161         198826         Body, Air Cleaner           394958         Piston Assembly Color Oversize         127         223472         Plug, Welch           394959         Ring Set, Piston         3010" Oversize         165         9428	10					* Gasket Carburator Rody
20	18		Rase Assembly Crankcase			
21   399195						
22   94724   Screw, Sems, Crankcase Cover Mounting			Seal Assembly, Cylinder Plug			
23				107	491543	Body, Lower Carburetor
Magneto						
24         222698         Key, Flywheel         117         231338         Jet, Needle Valve           25         394955         Piston Assembly .010" Oversize         119         94152         Screw, Sems, Hex Head           394957         Piston Assembly .020" Oversize         120         92290         Washer, Lock           394958         Pision Assembly .030" Oversize         121         491539         Carburetor Overhaul Kit           26         394959         Ring Set, Piston .010" Oversize         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 Assembly, Connecting         203         280997         Crank, Bell           391286         Pin Assembly, Connecting         203A         490207         Crank, Bell           397158         Rod Assembly, Connecting         207         26233	23	491180				
25   394955   Piston Assembly, Standard   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   Pision Assembly .030" Oversize   127   223472   Plug, Welch   2234960   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 Assembly, Piston, Standard   391286   Pin Assembly, Piston, Standard   391286   Pin Assembly, Connecting   203A   490207   Crank, Bell   29   394306   Rod Assembly, Connecting   203A   490207   Crank, Bell   203A   490207   Crank, Bell   205   93971   Screw, Shoulder   206   94298   Nut, Square   207   262337   Spring, Compression   208   24298   Nut, Square   209   262352   Spring, Governor   209   209   209   209   209   209   209   209   209   209   209   209	0.4	000000				
394956						
394957	20					
394958						
26         394959         Ring Set, Piston, Standard         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 Assembly, Piston, Standard         202         262684         Link, Throttle           391286         Pin Assy, Piston .005" Oversize         203         280997         Crank, Bell           29         394306         Rod Assembly, Connecting         2034         490207         Crank, Bell           397158         Rod Assembly, Connecting         205         93971         Screw, Shoulder           30         94671         Screw, Connecting Rod         207         262337         Spring, Compression           33         390420         Valve, Intake         209         262352         Spring, Governor           34         261528         Valve, Intake         10 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
394960	26					
394962 Ring Set, Piston .030" Oversize 27 260924 Lock, Piston Pin 28 299691 Pin Assembly, Piston, Standard 391286 Pin Assy., Piston .005" Oversize 29 394306 Rod Assembly, Connecting 397158 Rod Assembly, Connecting, .020" Undersize Crankpin Bore 32 94671 Screw, Connecting Rod 39 261528 Valve, Intake Uses: 393606 Seal Assembly and Retainer (Key Number 868) 35 65906 Spring, Intake Valve 40 221596 Retainer, Intake Valve 41 292260 Rotocoil, Exhaust Valve Rotocoil(2) 42 93630 Retainer, Exhaust Valve Rotocoil(2) 48 93535 Screw, Hex Head 201 262683 Link, Governor 202 262684 Link, Throttle 203 280997 Crank, Bell 203A 490207 Crank, Bell 203A 490207 Crank, Bell 205 93971 Screw, Shoulder 206 94298 Nut, Square 207 262337 Spring, Compression 209 262352 Spring, Governor 209 262352 Spring, Governor Idle 209A 261563 Spring, Governor Idle		394960	Ring Set, Piston .010" Oversize			
27 260924 Lock, Piston Pin 28 299691 Pin Assembly, Piston, Standard 391286 Pin Assy., Piston .005" Oversize 29 394306 Rod Assembly, Connecting 397158 Rod Assembly, Connecting, .020" Undersize Crankpin Bore 32 94671 Screw, Connecting Rod 33 390420 Valve, Exhaust 34 261528 Valve, Intake Uses: 393606 Seal Assembly and Retainer (Key Number 868) 35 65906 Spring, Intake Valve 40 221596 Retainer, Intake Valve 41 292260 Rod Retainer, Exhaust Valve Rotocoil(2) 42 93630 Retainer, Exhaust Valve Rotocoil(2) 45 201 262683 Link, Governor 202 262683 Link, Governor 203 280997 Crank, Bell 203 490207 Crank, Bell 204 205 93971 Screw, Shoulder 205 93971 Screw, Shoulder 206 94298 Nut, Square 207 262337 Spring, Compression 209 262352 Spring, Governor 209 262352 Spring,			Ring Set, Piston .020" Oversize			Line, Fuel, 28" (Cut to Suit)
28 299691 Pin Ássembly, Piston, Standard 391286 Pin Assy., Piston .005" Oversize 29 394306 Rod Assembly, Connecting 397158 Rod Assembly, Connecting, .020" Undersize Crankpin Bore 32 94671 Screw, Connecting Rod 33 390420 Valve, Exhaust 201 262684 Link, Throttle 203 280997 Crank, Bell 204 205 93971 Screw, Shoulder 205 93971 Screw, Shoulder 206 94298 Nut, Square 207 262337 Spring, Compression 209 262352 Spring, Governor 209 262352 Spring, Governor 209 261563 Spring, Governor Idle 209 261563 Spring, G						
391286 Pin Assy., Piston .005" Oversize 29 394306 Rod Assembly, Connecting 397158 Rod Assembly, Connecting, .020" Undersize Crankpin Bore 206 94298 Nut, Square 32 94671 Screw, Connecting Rod 390420 Valve, Exhaust 209 262352 Spring, Governor Idle 209 262352 Spring						
29 394306	28		Pin Assembly, Piston, Standard			
397158 Rod Assembly, Connecting, .020" Undersize Crankpin Bore 32 94671 Screw, Connecting Rod 33 390420 Valve, Exhaust 261528 Valve, Intake Uses: 393606 Seal Assembly and Retainer (Key Number 868) 35 65906 Spring, Intake Valve 40 221596 Retainer, Intake Valve 42 93630 Retainer, Exhaust Valve Rotocoil(2)  Rod Assembly, Connecting, .020" Undersize Crankpin Bore 206 94298 Nut, Square 207 262337 Spring, Compression 209 262352 Spring, Governor 209A 261563 Spring, Governor Idle 209A	20		Rod Assambly Connecting			Crank Roll
.020" Undersize Crankpin Bore 32 94671 Screw, Connecting Rod 33 390420 Valve, Exhaust 261528 Valve, Intake Uses: 393606 Seal Assembly and Retainer (Key Number 868) 35 65906 Spring, Intake Valve 36 26828 Spring, Exhaust Valve 47 292260 Retainer, Intake Valve 48 93630 Retainer, Exhaust Valve Rotocoil(2)  206 94298 Nut, Square 207 262337 Spring, Compression 209 262352 Spring, Governor Idle 209A 261563 Spring, Gove	23					
32 94671 Screw, Connecting Rod 207 262337 Spring, Compression 33 390420 Valve, Exhaust 209 262352 Spring, Governor 34 261528 Valve, Intake 209A 261563 Spring, Governor Idle Uses: 393606 Seal Assembly and Retainer (Key Number 868) * Included in Gasket Set (491856) *** Included in Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and 40 221596 Retainer, Intake Valve 42 93630 Retainer, Exhaust Valve Rotocoil(2) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** MOTE: All component dimensions given in U.S. inches		00.100				
33 390420 Valve, Exhaust 209 262352 Spring, Governor 209A 261563 Spring, Governor 209A 261563 Spring, Governor Idle Uses: 393606 Seal Assembly and Retainer (Key Number 868) * 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 Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856), and Carburetor Overhaul Kit (491539) *** Included in both Gasket Set (491856)	32	94671				
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				NOT	E: All compone	ent dimensions given in U.S. inches

# **SERVICE NOTES**

# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

# SEARS

# OWNER'S MANUAL

MODEL NO. 917.257560

#### IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

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

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

# **CRAFTSMAN®**

#### 18 HP TWIN CYLINDER ELECTRIC START 3 in One Convertible 42" MOWER 5 SPEED TRANSAXLE LAWN TRACTOR

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

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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

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- MODEL NUMBER 917.257560
- ENGINE MODEL NO. 422707, TYPE NO. 1522-01
- PART NUMBER
- PART DESCRIPTION

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