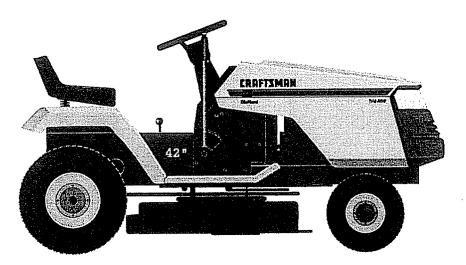




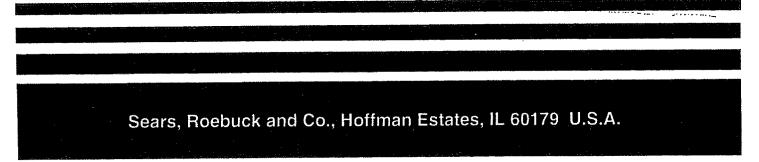
### MODEL NUMBER 917.257562 OWNER'S MANUAL

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





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



#### Safe Operation Practices for Ride-On Mowers

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

#### I. GENERAL OPERATION

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

#### **II. SLOPE OPERATION**

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

#### DO:

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

#### DO NOT:

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

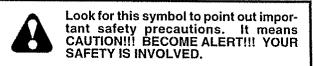
#### **III. CHILDREN**

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

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

#### **IV. SERVICE**

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



#### -----



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, welltrained 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 tractor properly. Always observe the "SAFETY RULES".

MODEL NUMBER

IMBER 917.257562

SERIAL

NUMBER \_

DATE OF PURCHASE \_

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

#### **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 tractor.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

#### **PRODUCT SPECIFICATIONS**

HORSEPOWER:	18.0	
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR	
OIL TYPE (API-SF/SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)	
OIL CAPACITY:	3.0 PINTS	
SPARK PLUG: (GAP: .030")	CHAMPION RJ-19LM STD361458	
VALVE CLEARANCE:	INTAKE: .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:	3 AMPS BATTERY 5 AMPS HEADLIGHTS	
BLADE BOLT TORQUE:	30-35 FT. LBS.	

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

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

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

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

This Warranty does not cover:

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

#### LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

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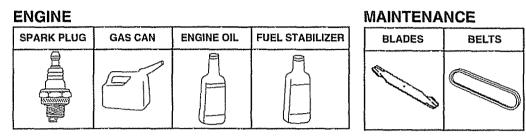
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### **ACCESSORIES AND ATTACHMENTS**

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.



#### 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 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.

**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 also useful for granular deicers and sand.

SWEEPERS let you collect grass clippings and leaves.

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

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

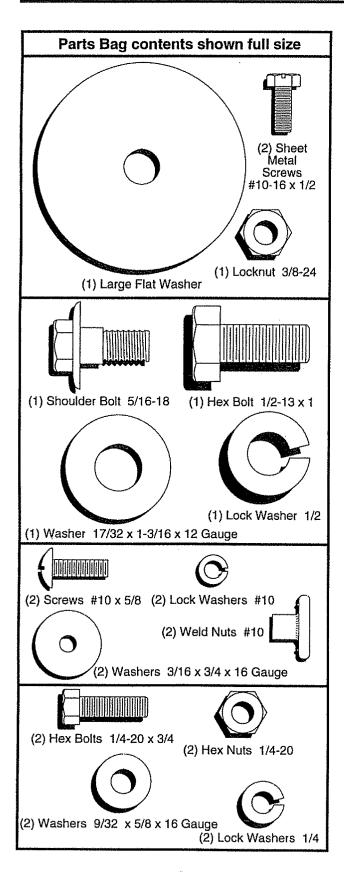
**TRACTOR CAB** has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. **Optional accessories include:**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

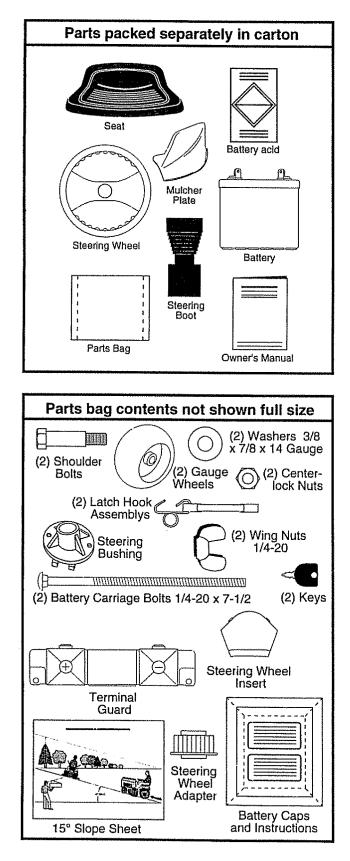
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

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

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

# **CONTENTS OF HARDWARE PACK**





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

#### **TOOLS REQUIRED FOR ASSEMBLY**

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

- (1) 5/16" wrench
- (1) 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**

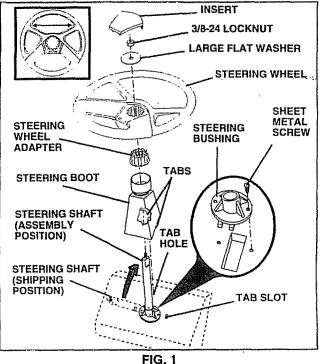
- Remove all accessible loose parts and parts cartons from carton (See page 6).
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Check for any additional loose parts or cartons and remove.

#### **BEFORE ROLLINGTRACTOR 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.



#### 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.

#### 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.

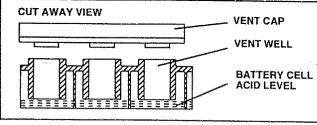
- See instructions packed with vent caps in parts bag.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- Allow battery to stand and settle for at least thirty minutes. After standing, check the battery cell acid level. If below the vent wells,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

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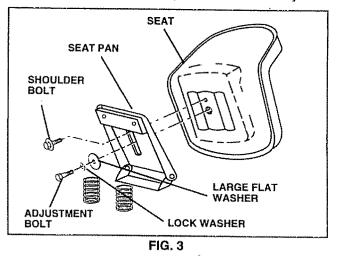


#### FIG. 2

#### **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.



#### **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.

ć.

8

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



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

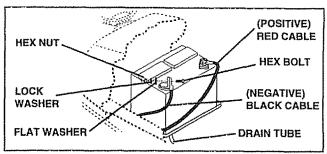
Positive terminal must be connected first to prevent sparking from accidental grounding.

**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.

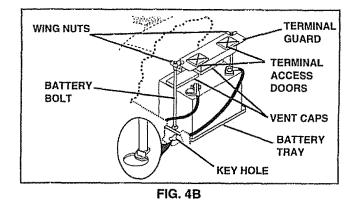
- Lift hood to raised position.
- Be sure battery drain tube has not come loose and is securely attached to drain in battery tray.
- Lower battery into battery tray with terminals to front of tractor.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock 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.



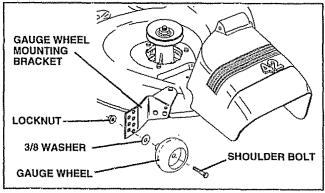




### ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 5)

Assemble gauge wheels with tractor on a flat level surface.

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





#### 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.

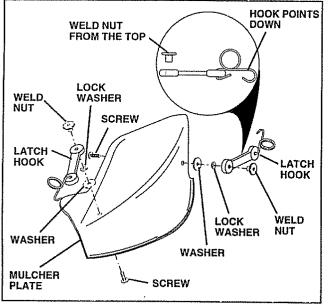
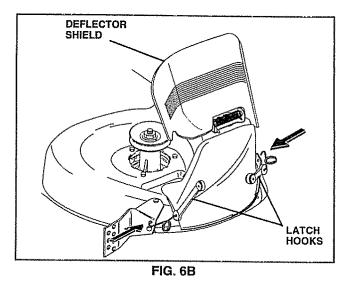


FIG. 6A



#### ✓ 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.

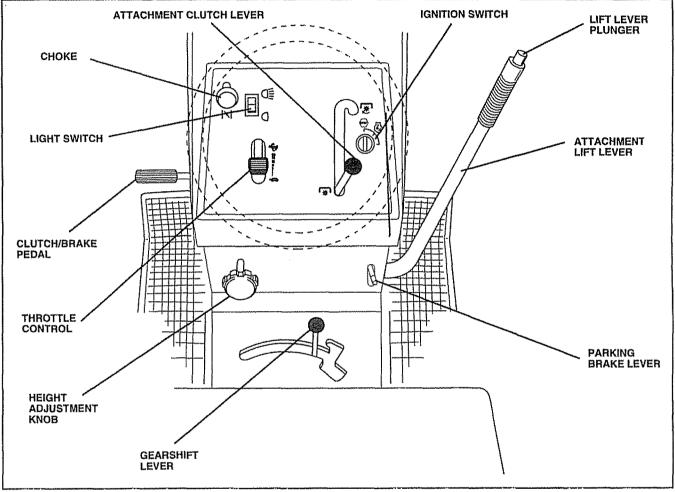
WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- 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.

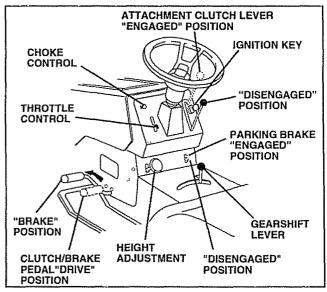


FIG. 8

#### 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.

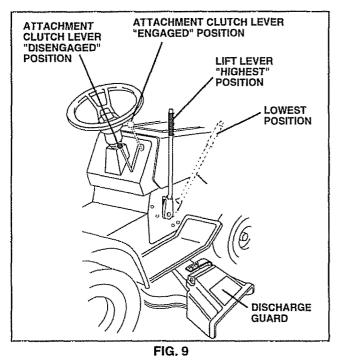
#### TO OPERATE MOWER (See Fig. 9)

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.



### 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 Customer Responsibilities section in this manual.

#### ADD GASOLINE

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

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

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



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

#### TO START ENGINE (See Fig. 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 (|\) 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.

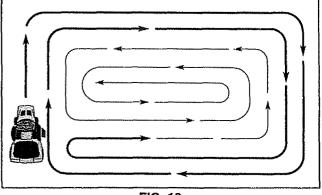


FIG. 10

#### **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.

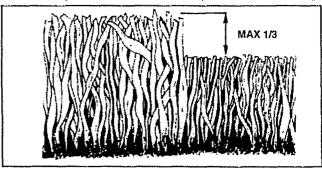
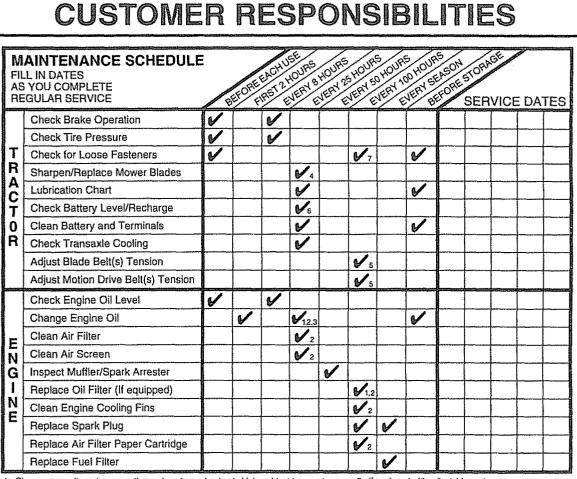


FIG. 11

- 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.



1 - Change more often when operating under a heavy load or in high ambient temperatures

5 - If equipped with adjustable system 6 - Not required if equipped with maintenance-free battery

7 - Tighten front axle pivot bolt to 35 ft.-lbs- maximum

Do not overtighten.

#### **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.

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 soll

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

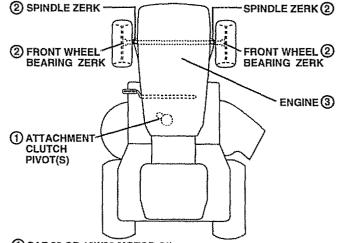
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 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**



() SAE 30 OR 10W30 MOTOR OIL

2 GENERAL PURPOSE GREASE

**③ REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION** 

**IMPORTANT:** DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRI-CANTS 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, POW-DERED GRAPHITE TYPE LUBRICANT SPARINGLY.

### **CUSTOMER RESPONSIBILITIES**

#### TRACTOR

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

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

#### TIRES

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

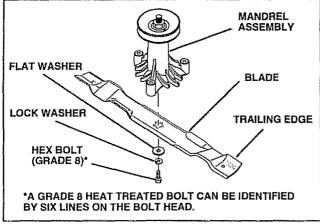


FIG. 12

#### 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.

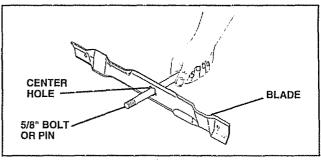
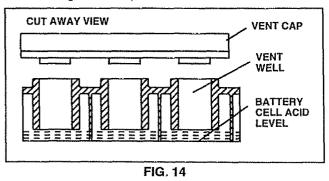


FIG. 13

#### **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.



## CUSTOMER RESPONSIBILITIES

#### TO CLEAN BATTERY AND TERMINALS

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

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

#### **V-BELTS**

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

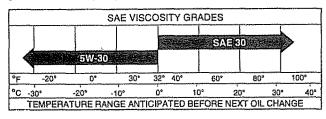
#### TRANSAXLE COOLING

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

#### ENGINE

#### LUBRICATION

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



**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 SF or 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.

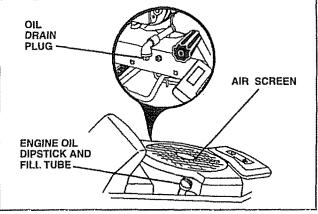


FIG. 15

#### 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)

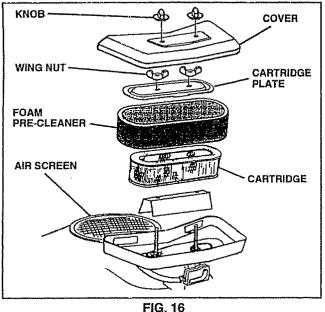
Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner element after every 25 hours of operation or every season. Service paper cartridge every 100 hours or every season, whichever occurs first.

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).

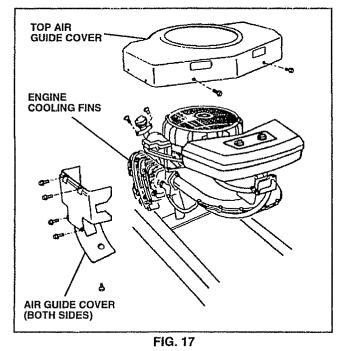
## **CUSTOMER RESPONSIBILITIES**

**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.



#### **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).



#### 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.

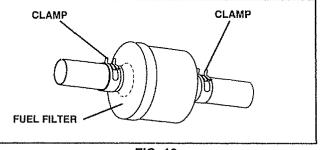


FIG. 18

#### **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.

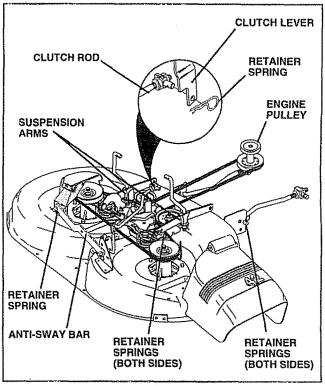


FIG. 19

#### **TO LEVEL MOWER HOUSING**

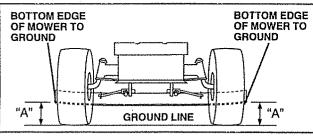
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" on page 3 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

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

- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

**NOTE:** Each full turn of adjustment nut will change mower height about 1/8".

Recheck measurements after adjusting.



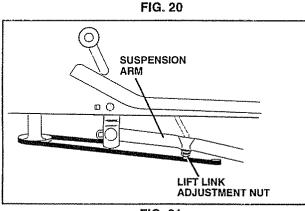


FIG. 21

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.

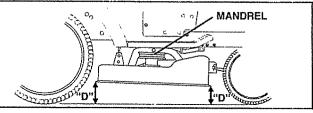


FIG. 22

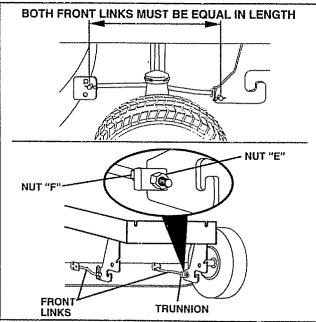


FIG. 23

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 -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual).
- 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.
- Install mower in reverse order of removal instructions.

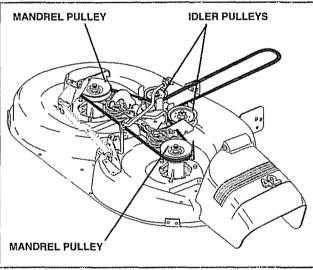


FIG. 24

#### 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.

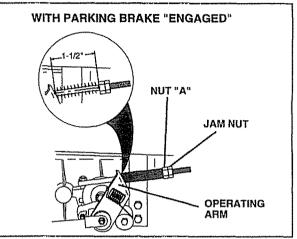


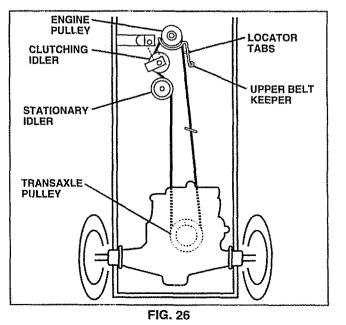
FIG. 25

#### 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.



#### 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.

Replace axle cover.

- 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.
- WASHERS RETAINING RING AXLE COVER AXLE COVER SQUARE KEY (REAR WHEEL ONLY)

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.

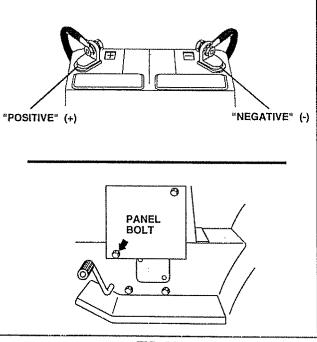


FIG. 28

#### 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.

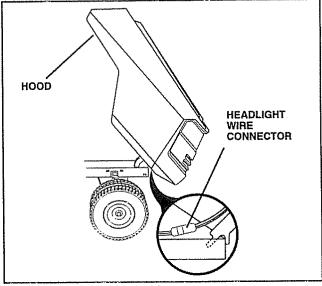
 Check wiring. See electrical wiring diagram in Repair Parts section of this manual.

#### **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.





#### ENGINE

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

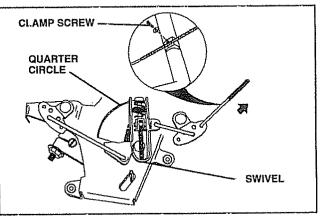
The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- 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.

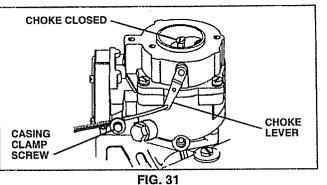
#### TO ADJUST CHOKE CONTROL (See Fig. 31)

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 (|\) 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.







#### 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.

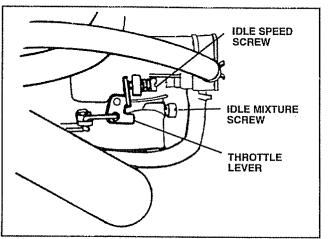
FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- 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 -

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.





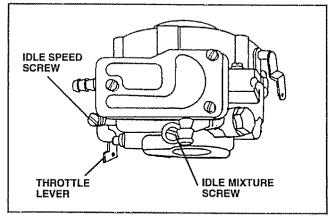


FIG. 33

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

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

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

#### **ENGINE OIL**

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

#### CYLINDERS

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

#### OTHER

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

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

# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	<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 filter.</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>	<ol> <li>Clean/replace air filter.</li> <li>Replace spark plug.</li> <li>Recharge or replace battery.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol>
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	<ol> <li>Weak or dead battery.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty solenoid or starter.</li> </ol>	<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	<ol> <li>Cutting too much grass/too fast</li> <li>Throttle in "CHOKE" position.</li> <li>Build-up of grass, leaves and trash under mower.</li> <li>Dirty air filter.</li> <li>Low oil level/dirty oil.</li> <li>Faulty spark plug.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Water in fuel.</li> <li>Spark plug wire loose.</li> <li>Dirty engine air screen/fins</li> <li>Loise or damaged wiring.</li> <li>Carburetor out of adjustment</li> <li>Engine valves out of adjustment.</li> </ol>	<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/replace muffler.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> </ol>
Excessive vibration	<ol> <li>Worn, bent or loose blade.</li> <li>Bent blade mandrel.</li> <li>Loose/damaged part(s).</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Replace blade mandrel.</li> <li>Tighten loose part(s). Replace damaged parts.</li> </ol>

# **TROUBLESHOOTING POINTS**

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	<ol> <li>Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.</li> </ol>
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	<ol> <li>Obstruction in clutch mechanism.</li> <li>Worn/damaged mower drive belt.</li> <li>Frozen idler pulley.</li> <li>Frozen blade mandrel.</li> </ol>	<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>	<ol> <li>Turn switch "ON".</li> <li>Replace bulb(s).</li> <li>Check/replace light switch</li> <li>Check wiring and connections.</li> <li>Replace fuse.</li> </ol>
Battery will not charge	<ol> <li>Bad battery cell(s).</li> <li>Poor cable connections.</li> <li>Faulty regulator (if so equipped).</li> <li>Faulty alternator.</li> </ol>	<ol> <li>Replace battery.</li> <li>Check/clean all connections</li> <li>Replace regulator.</li> <li>Replace alternator.</li> </ol>
Engine "backfires" when turning engine 'OFF"	<ol> <li>Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ol>	<ol> <li>Move throttle control to "SLOW" position and allow to Idle for 30 seconds before stopping engine</li> </ol>

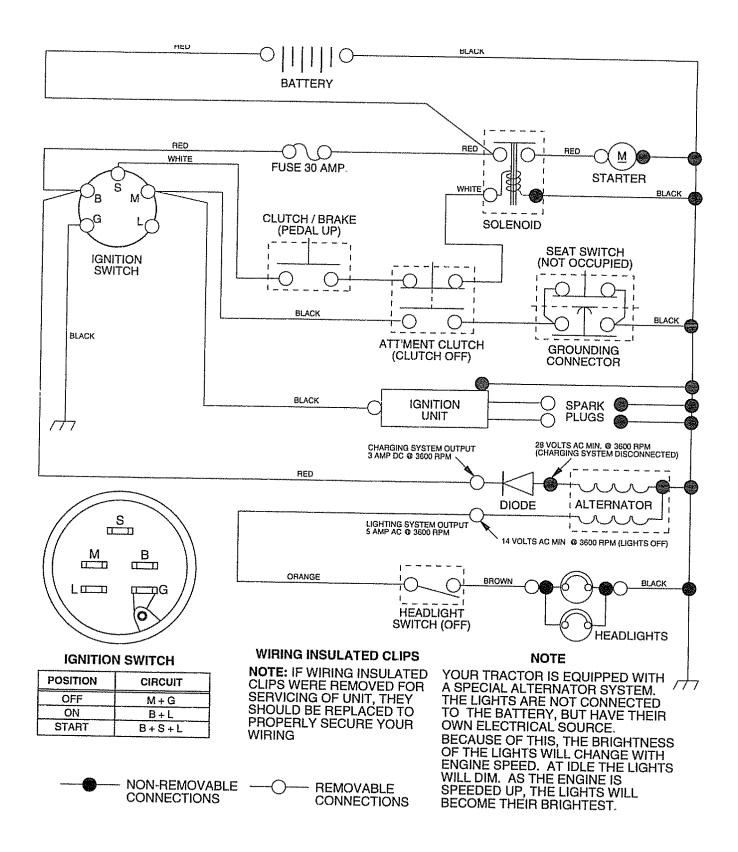
# SERVICE NOTES

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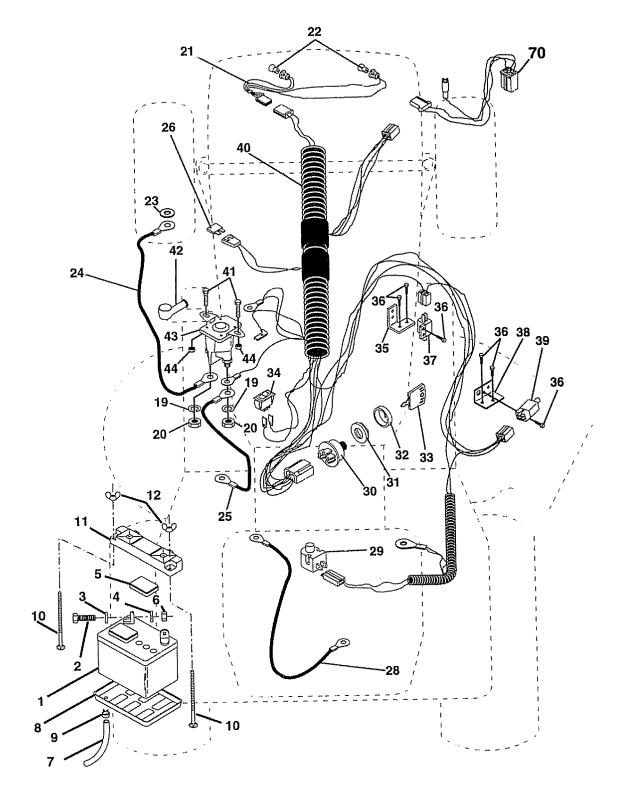
18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

#### SCHEMATIC



18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

#### ELECTRICAL



#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

KEY PART

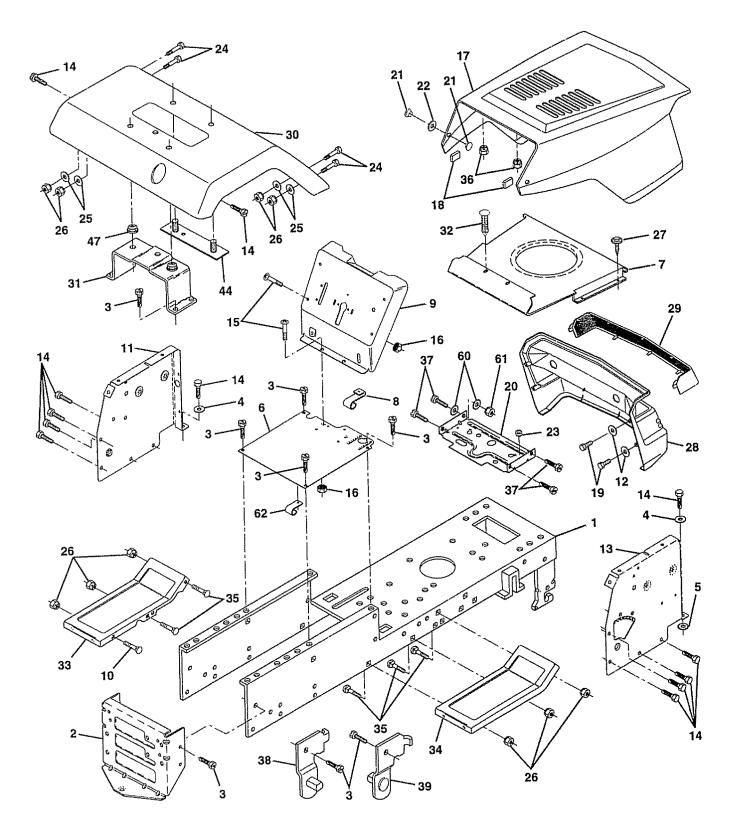
#### ELECTRICAL

NO.	NO.	DESCRIPTION
1	121537X	Battery (Includes Electrolyte)
2	74760412	Bolt, Hex 1/4-20 x 3/4
3	19091016	Washer 9/32 x 5/8 x 16 Gauge
4	10040400	Washer, Lock 1/4
5 6	121264X	Caps, Battery
6	73220400	Nut, Hex 1/4-20
7	7697J	Tube
8 9	7603J	Tray, Battery
10	109596X	Clamp, Hose Bolt, Carriago, 1/4 20 x 7 1/0
11	72240460	Bolt, Carriage 1/4-20 x 7-1/2
12	102476X 123198X	Guard, Terminal
19	10090400	Nut, Wing 1/4-20 Washer, Lock 1/4
20	73350400	Nut, Hex, Jam 1/4-20
21	136850	Harness, Light Socket (With Bulbs)
22	4152J	Light Bulb
	11150400	Washer, Lock, Internal Tooth 1/4
24	108423X	Cable, Battery
25	4206J	Cable, Battery
26	108824X	Fuse
28	4207J	Cable, Ground
29	121305X	Switch, Seat
30	144921	Switch, Ignition 3 Position
31	140400	Nut, Ignition Switch
32	141226	Cover, Ignition Switch
33	140403	Key, Molded, Craftsman
34	110712X	Switch, Light
35	108236X	Bracket, Switch
36	17021008	Screw, Hex, Tapping #10-24 x 1/2
37	104445X	Switch, Interlock, Clutch
38	140336	Bracket, Switch Interlock
39	109553X	Switch, Interlock, Attachment Clutch
40	140414	Harness, Ignition
41 42	71110408	Bolt, Hex Head 1/4-20 x 1/2
	131563 138406	Cover, Terminal Solenoid
	73640400	Nut, Hex, Keps 1/4-20
70	140413	Hamess, Engine
10	170710	namess, chyme

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

18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

### CHASSIS AND ENCLOSURES



#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

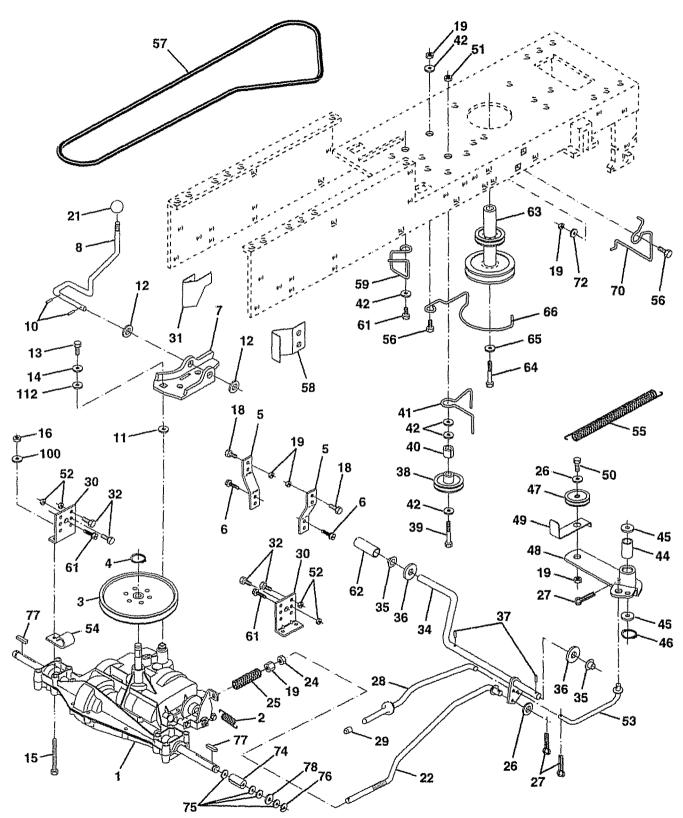
#### **CHASSIS AND ENCLOSURES**

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140341 140356 17490612 STD551025 STD551237 140290X015 142844 126471X 140637X014 STD533710 135464 11030400 126276X	Chassis Drawbar Screw, Thd., Roll. 3/8-16 x 3/4 Type TT Washer 13/32 x 3/4 x 16 Gauge Washer Saddle, 5 Speed Shield, Heat, Hood Clip, Fuel Line Dash, Silkscreened Bolt, Carriage 3/8-16 x 1 Panel, Dash, LH Washer, Lock, Internal/External Tooth 1/4 Panel, Dash, RH
14 15	17490608 74180512	Screw, Thd., Roll. 3/8-16 x 1/2 Type TT Screw, Machine, Thd., Roll. 5/16-18 UNC x 3/4
16 17 18 19 20 21 22 23 24 25	STD541431 137386X417 126938X 17521312 140281 122933X 124479X 124028X STD523710 19131312	Nut, Hex, Keps 5/16-18 UNC Hood Assembly Hood Bumpers Screw, Slotted Hex Head w/PL washer Support, Battery Rivet, Ratchet, Nylon Washer, Nylon .28 x .75 x .19 Bushing, Snap, Nylon, Fuel Line Bolt, Hex Head, Fin. 3/8-16 UNC x 1 Grade 5 Washer 13/32 x 13/16 x 12 Gauge
26 27 28 29 30 31 32 33 45 36 37 38 94 47 61 62	STD541437 17030808 140135 124029X 121642X417 137113 133835 105465X417 105464X417 STD533707 108067X 17490512 139886 139887 140675 105531X 11050500 73680500 141606	Locknut, Hex, with Insert 3/8-16 UNC Screw, Hex Head, Spiderlock #8 x 1/2 AB Grille, Grey Lens, Headlight, Bar, Clear Fender Bracket, Fender Fastener, Christmas Tree Footrest, LH Footrest, RH Bolt, Carriage 3/8-16 x 3/4 Nut, Pal Screw, Thd., Roll. 5/16-18 x 3/4 Pivot Bracket Assembly, LH, Mower, Rear Pivot Bracket Assembly, RH, Mower, Rear Strap Assembly, Fender Nut, Push, Nylon Washer, Lock, Internal/External Tooth 5/16 Nut, Crownlock 5/16-18 Clip, Wire

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

18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

DRIVE

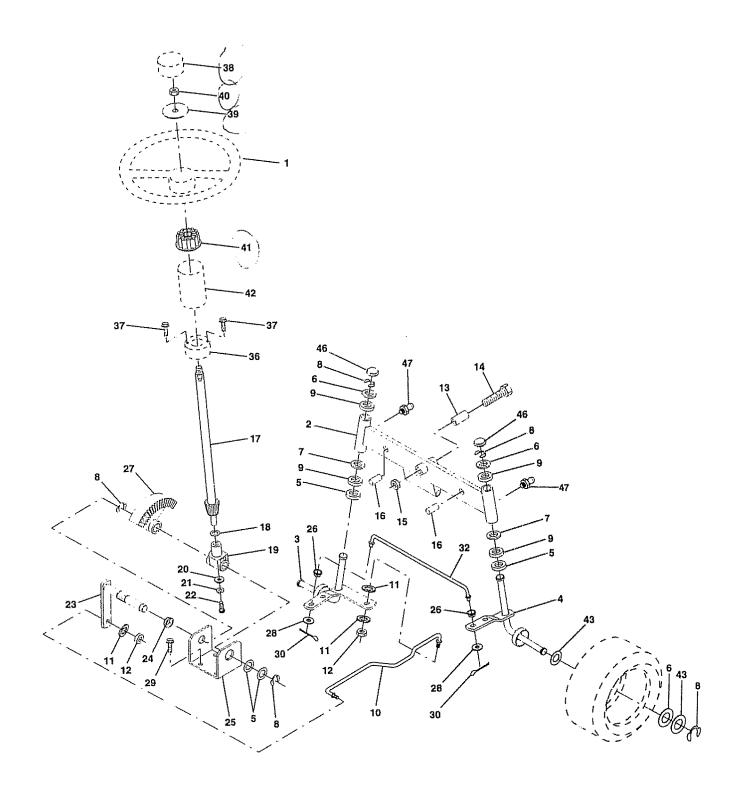


#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

#### DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	142608	Transaxle, Dana, 5 Speed,	40 4470J	Spacer, Split
2 3 4 5 6 7 8 10 11 12 13	110422X 123666X 12000028 121520X 17490512 130802 131679 STD561210 105701X 19151216 71040412	Model Number 4360-82 Spring, Return, Brake Pulley, Transaxle Ring, Retainer Strap, Torque Screw, Thd., Roll. 5/16-18 x 3/4 Plate, Rod, Shift Rod, Shifter Pin, Cotter 1/8 x 1 Washer, Shift Plate, Square Hole Washer 15/32 x 3/4 x 16 Gauge Bolt, Hex Head, Fin.	41 109070X 42 19131312 44 105706X 45 110812X 46 12000039 47 127783 48 123789X 49 123205X 50 STD523713 51 73680600 52 73680500 53 105710X	<ul> <li>Keeper, Belt, Retainer</li> <li>Washer 13/32 x 13/16 x 12 Gauge</li> <li>Bearing, Nylon .503 x .628 x 1.25</li> <li>Washer, Hardened</li> <li>Ring, Klip</li> <li>Pulley, Idler, V-Groove, Plastic</li> <li>Bellcrank Assembly</li> <li>Retainer, Belt</li> <li>Bolt, Hex Head 3/8-16 UNC x 1-1/2</li> <li>Nut, Crownlock 3/8-16 UNC</li> <li>Nut, Crownlock 5/16-18 UNC</li> <li>Link, Clutch</li> </ul>
14 15	STD551125 74780544	1/4-28 UNF x 3/4 Grade 8 Washer, Lock, Heavy Helical 1/4 Bolt, Hex Head, Fin. 5/16-18 x 2-1/2	54 2751R 55 105709X 56 STD52371	Clip Line Fuel 13/32 Mtg Hole Spring, Return, Clutch
16 18	STD541431 STD523710	Nut, Crownlock 5/16-18 Bolt, Hex Head, Fin. 3/8-16 UNC x 1	57 130801 58 127274X 59 140312	V-Belt, Ground Drive Keeper, Belt, RH Retainer, Belt, Chassis
19 21 22 24	STD541437 106933X 130804 STD541237	Nut, Crownlock 3/8-16 UNC Knob, Round 1/2-13 Rod, Brake Nut, Hex, Jam 3/8-16 UNC	61 17490612 62 8883R 63 140186 64 71170764	Screw, Thd., Roll. 3/8-16 x 3/4 Cover, Pedal Pulley, Engine Bolt, Hex Head, Fin.
25 26 27 28 29 30 31 32	106888X STD551037 STD561210 140448 124236X 130807 127275X STD523107	Spring, Rod, Brake Washer 13/32 x 13/16 x 16 Gauge Pin Cotter 1/8 x 3/4 Rod, Brake, Parking Cap, Parking Brake Bracket, Transmission Keeper, Belt, LH Bolt, Hex Head, Fin. 5/16-18 x 3/4	65 STD55114 66 129921 70 134683 72 19132012 74 109502X 75 121749X 76 STD58107 77 123583X	Keeper, Belt, Engine, LH Guide, Mower Drive Belt, RH Washer 13/32 x 1-1/4 x 12 Gauge Spacer, Split .80x1.94 Washer 25/32 x 1-1/4 x 16 Gauge
34 35 36 37 38 39	122424X 120183X STD551062 STD571810 123674X STD523727	Shaft Assembly, Foot Pedal Bearing, Nylon Washer 21/32 x 1 x 16 Gauge Pin, Roll 3/16 x 1 Pulley, Idler, Flat Bolt, Hex Head, Fin. 3/8-16 UNC x 2-3/4	78 121748X 100 19111216 112 19091210 NOTE: All comp	Washer 25/32 x 1 5/8 x 16 Gauge Washer 11/32 x 3/4 x 16 Gauge Washer 9/32 x 3/4 x 10 Gauge bonent dimensions given in U.S. inches. 25.4 mm

18 HP 42" TRACTOR - - MODEL NUMBER 917.257562 STEERING ASSEMBLY



#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

#### STEERING ASSEMBLY

KEY PART NO. NO.	DESCRIPTION
1         139768           2         142033           3         135227           4         135228           5         6266H           6         121748X           7         19272016           8         12000029           9         3366R           10         130468           11         STD551137           12         73610600           13         110438X           14         74011056           15         73901000           16         132624           17         132614           18         57079           19         124035X           20         126684X           21         STD551125           22         71070410           23         127501           24         109816X           25         124036X           26         126847X           27         136874           28         19131416           29         17490612           30         STD541537           31         139769           39         19133808 <t< td=""><td>Wheel Steering Std Black 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 Hicl 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 Bushing Rod Tie Blk Lt Gear Sector Washer 13/32 X 7/8 X 16ga Screw Thdrol 3/8-16x3/4 Ty-tt Pin Cotter 1/8 X 3/4 Cad Rod Tie Wire Form 19 75 Mech Bushing Strg 5/8 Id Dash Screw Sliftp #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 Cap Spindle Fr Top Blk</td></t<>	Wheel Steering Std Black 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 Hicl 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 Bushing Rod Tie Blk Lt Gear Sector Washer 13/32 X 7/8 X 16ga Screw Thdrol 3/8-16x3/4 Ty-tt Pin Cotter 1/8 X 3/4 Cad Rod Tie Wire Form 19 75 Mech Bushing Strg 5/8 Id Dash Screw Sliftp #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 Cap Spindle Fr Top Blk
	Fitting Grease

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

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2 5 7

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13 14

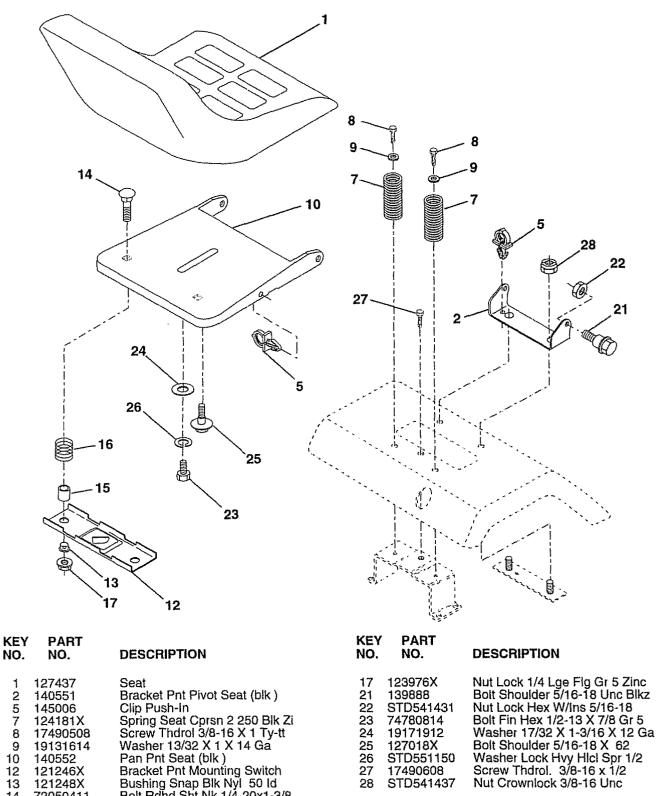
15 16 121248X

72050411

134300

121250X

18 HP 42" TRACTOR - - MODEL NUMBER 917.257562 SEAT ASSEMBLY



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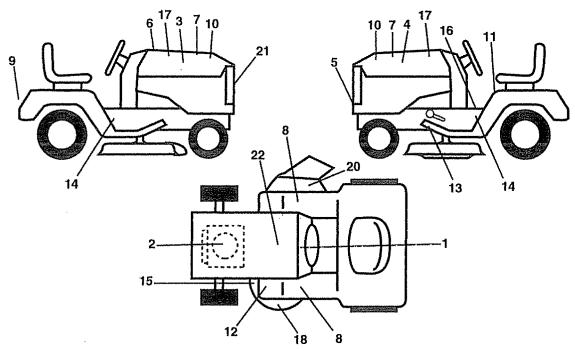
STD541437

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

18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

DECALS

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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	138955	Decal Instruction Operat Eng	13	109199X	Decal V-belt Dr Sch Tractor E
2	142222	Decal Engine 18 hp B&S	14	133139	Decal Chassis 5 Sp 42"
3	140560	Decal Hood Slope Rh Craftsman	15	136832	Decal Mower Drive Schematic 42
4	140561	Decal Hood Slope Lh Craftsman	16	140837	Decal, Parking Brake, Saddle
5	132674	Decal Grille Lt4000 Craft Usa	17	142269	Decal, Insert, Hood, 18 HP
6	133644	Decal Maint Customer Sears Dom	18	133179	Decal Mower Qc System
7	142246	Decal Panel Side B&S	20	133178	Decal Mower 3 in Óne Conv.
8	105466X	Pad, Footrest	21	131265	Decal Lightbox
9	125880X	Decal Fender Craftsman Red	22	138047	Decal Battery
10	138049	Decal Side Panel Die Hard	** **	138311	Decal Lift Handle
11	137537	Decal Caution English/Spanish		138836	Decal, 1 Pc. Dash LT
12	4900J	Decal Clutch/brake English		145422	Manual, Owner's (English)
		<b>.</b>	uir	145423	Manual, Owner's (Spanish)

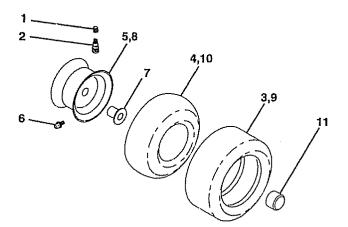
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KEY

PART

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**WHEELS & TIRES** 

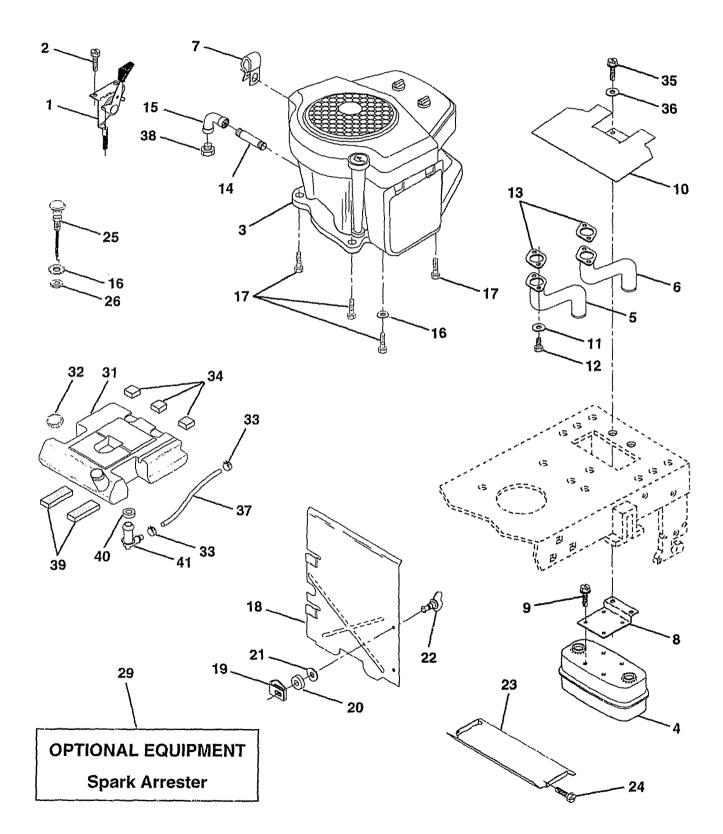


NO.	NO.	DESCRIPTION
1	59192 65139	Cap Value Tire Stem Value
2 3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Inner Front #35060
5	106732X417	Rim Asm 6"front Silver Service
6	278H	Fitting Grease
7	9040H	Bearing Flange
8	106108X417	Rim Asm 8"rear Silver Service
9	122082X	Tire R Ts 20 x 10-8 Service
10	7152J	Tube Rear 9 5 X 8 Service
11	104757X	Cap Axle Blk 1 50 X 1 00

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

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18 HP 42" TRACTOR - - MODEL NUMBER 917.257562
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ENGINE



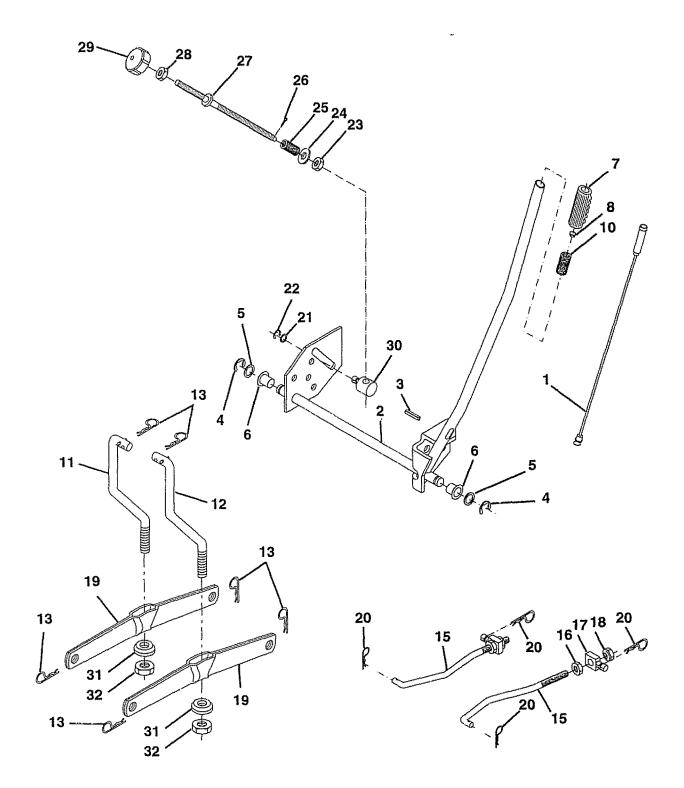
## 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

#### ENGINE

KE NO		DESCRIPTION
1 2 3	132755 17720410 143837	Control Throt Rh Blk Pdl 15 10 Screw Hex Thd Cut 1/4-20x5/8 T Engine B&s 18hp, Model No.
3 45678901123456789012234569123345678 90112345678901222222333335678	137978 144069 144068 138129 122439X 17190408 143600 STD551125 STD522507 8545J 13280336 13200300 STD551237 17490624 137358 105839X 105839X 105839X 105838X 110436X 123650X 128953 17021008 138127 73610600 137180 141069 123549X 123487X 105082X 17490512 19132012 5277J	Lingine Bas Tanp, Model No. 422707, Type No. 1527-01 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 Bushing, Snap, Split Stud 1/4 Turn (replaces 105751 Shield Pnt Heat Browning Grass Screw Tap Hex #10-24 UNC x 1/2 Control Choke Nut Hex 3/8-24 Unf Arrestor Spark 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	109227X 3645J 139277	Manufacturer) Pad Idler 1.75 x .75 x .06 Bushing Stem Tank Fuel

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

18 HP 42" TRACTOR - - MODEL NUMBER 917.257562 MOWER LIFT

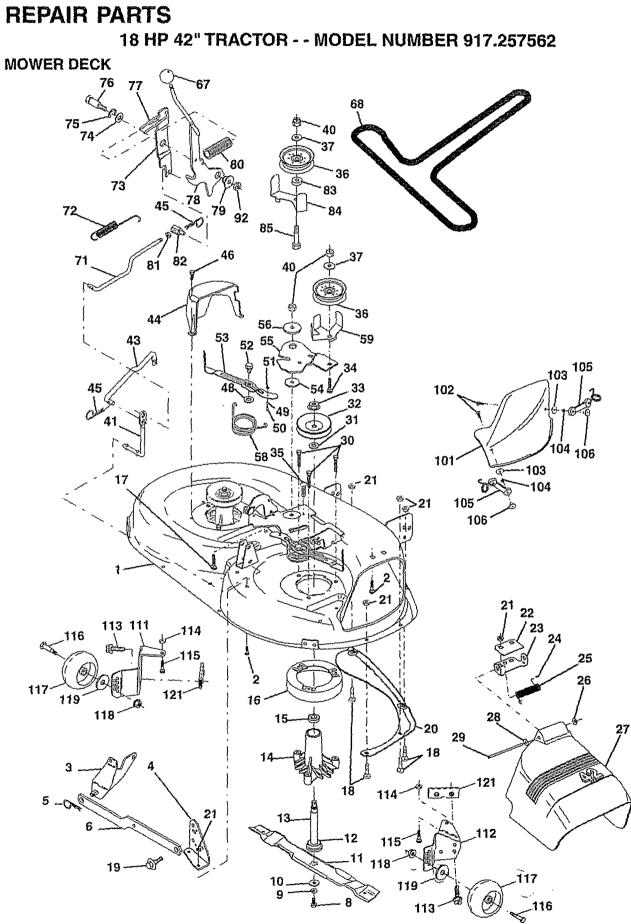


### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

#### **MOWER LIFT**

KEY NO.		DESCRIPTION
10 11 12 15 16 17 89 21 22 24 26 27	19151216 12000037 110807X 19131016 2876H 76020308 126971X 73350600 138057 110810X	Wire Assy., Inner, with Plunger 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 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 Bearing, Pivot, Lift, Special Locknut with Nylon Insert 3/8-24

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



#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

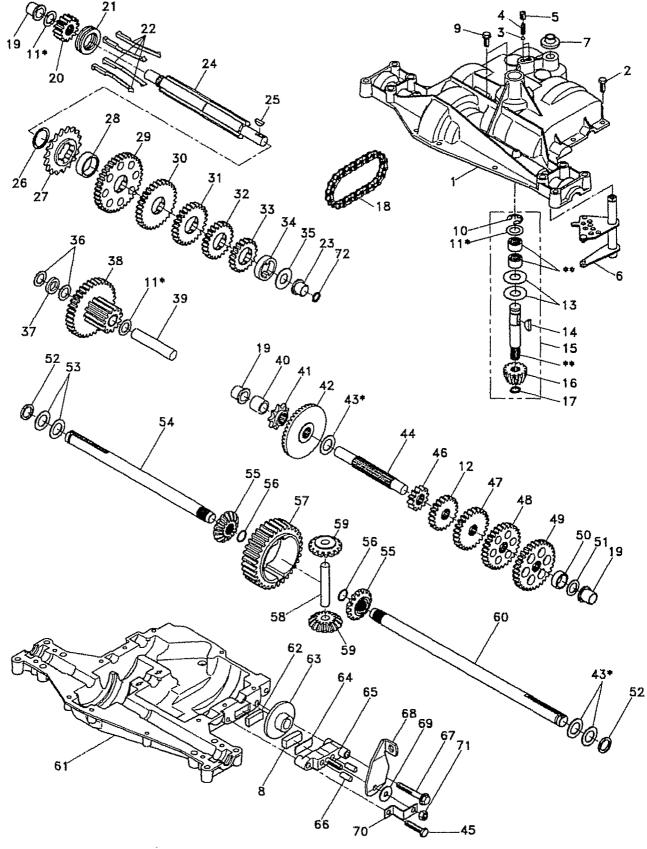
#### **MOWER DECK**

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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	144393	Mower Deck Assembly, 42"		133943	Washer, Hardened
2	STD533107	Bolt		140084	Arm, Idler
3	138017	Bracket Asm Fr. Sway Bar		122052X	Spacer, Retainer
4	138440	Bracket Asm Deck 42" Sway Bar		140086	Spring, Torsion, Brake
5	STD624008	Retainer Spring	59 67	141043 106932X	Guard, Idler Knob Rd. 3/8-16 Plstc.
6 8	130832 850857	Arm, Suspension, Rear Bolt 3/8-24 x 1.25 Grade 8		144200	V-Belt, 42" Mower
9	STD551137	Washer, Lock	71	142427	Rod, Clutch, Primary
10	140296	Washer, Hardened		131870	Spring, Extension, Return
11	134149	Blade, Mulching, 42" Mower Deck		127847	Arm, Clutch, Secondary
12	129895	Bearing, Ball		121748X	Washer 25/32 x 1-5/8 x 16 Gauge
13	137645	Shaft Assembly, Mandrel, Vented		12000029	Ring, Klip
		(Includes Key Number 12)		128903	Bolt, Shoulder 3/8-16 UNC x 1.44
14	128774	Housing, Mandrel, Vented		127845	Keeper, Spring
15	110485X	Bearing, Ball, Mandrel	78	140334	Arm, Clutch, Primary
16	140329	Stripper, Vented Mower Deck		127498	Bushing, Large, Brass
17	72110610	Bolt, Carriage 3/8-16 x 2-1/4	80 81	128759 73350600	Spring, Mower Clutch Nut, Hex, Jam 3/8-16
18 19	72140505 132827	Bolt, Carriage 5/16-18 x 5/8 Bolt, Shoulder	82	142028	Trunnion
20	136888	Baffle, Vortex	83	120958X	Washer Sintered
21	73800500	Locknut 5/16-18	84	144394	Keeper, Belt Idler Fixed
22	134753	Stiffener Bracket		74760636	Bolt, Hex Head 3/8-16 x 2-1/4
23	131267	Bracket, Deflector	92	73800600	Locknut, Hex W/Wash Insert
24	105304X	Cap, Sleeve		136420	Mulcher cover
25	123713X	Spring, Torsion, Deflector Nut, Push Shield Deflector		71161010	Screw
26	110452X	Nut, Push		19061216	Washer #10
27	130968	oneid, benedior	104	STD551110 130758	Washer, Lock
28	19111016	Washer 11/32 x 5/8 x 16 Gauge	100	2029J	Latch Assembly, Bagger Nut, Weld
29 30	131491 138776	Rod, Hinge Bolt 5/16-18 x 1.25	111	140353	Bracket, Gauge, Wheel L.H.
31	129963	Bolt 5/16-18 x 1.25 Washer, Spacer Pulley, Mandrel	112	132262	Bracket, Gauge, Wheel R.H.
32	129861		113	17490512	Screw, Thdrol 5/16 -18 x 3/4
33	137266	Nut, Flanged, Toplock 9/16	114	73510500	Nut, Hex Keps 5/16-18 UNC
34	STD533717	Bolt		72110504	Bolt, Carriage 5/16UNC x 1/2
35	133835	Fastner, Christmas Tree	116	137644	Bolt, Shoulder
36	131494	Pulley, Idler, Flat	117	133957	Wheel, Gauge
37	STD551037	Washer 13/32 x 13/16 x 16 Gauge Nut, Crownlock	118	73930600 STD551037	Nut, Centerlock 3/8-16
40	73680600	Nut, Crownlock	119	143723	Washer 3/8 x 7/8 x 14 Ga. Bracket, Extruded Gauge Wheel
41 43	133551 140083	Rod, Pivot, with Nibs Rod, Clutch, Secondary, with Nibs	121	130794	Mandrel Assembly (Includes Key
43 44	140088	Guard, Mandrel, LH		100734	Numbers 8-10, 12-15, 31 and 33)
45	STD624003	Retainer	<del>.</del>	145411	Mower Deck, Complete
46	137729	Screw, Hex Hd, Thdcut 1/4-20 x 5/8			(Standard Deck; Order Mulcher
48	133944	Washer, Hardened			Plate and Gauge Wheel
49	133940	Roller Assembly, Cam Follower			Components Separately - Key
50	131340	Bolt, Shloulder #10-24 Grade 5			Nos. 101-106, 111-119, 121)
51	STD541410		1107	<b>T</b> . All	ant dimensions along in 110 in-to-
52	139888	Bolt, Shoulder 5/16-18 UNC	NOI		nent dimensions given in U.S. inches
53	131845	Arm Assembly, Pad, Brake		1  inch = 25	J.M 1566

18 HP 42" TRACTOR - - MODEL NUMBER 917.257562

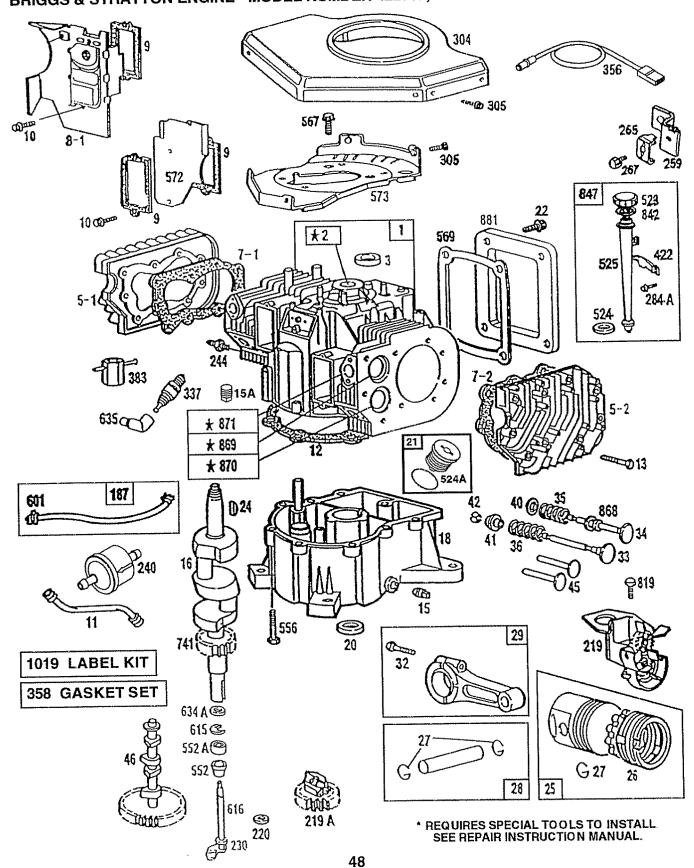
**DANA TRANSAXLE - MODEL NUMBER 4360-82** 



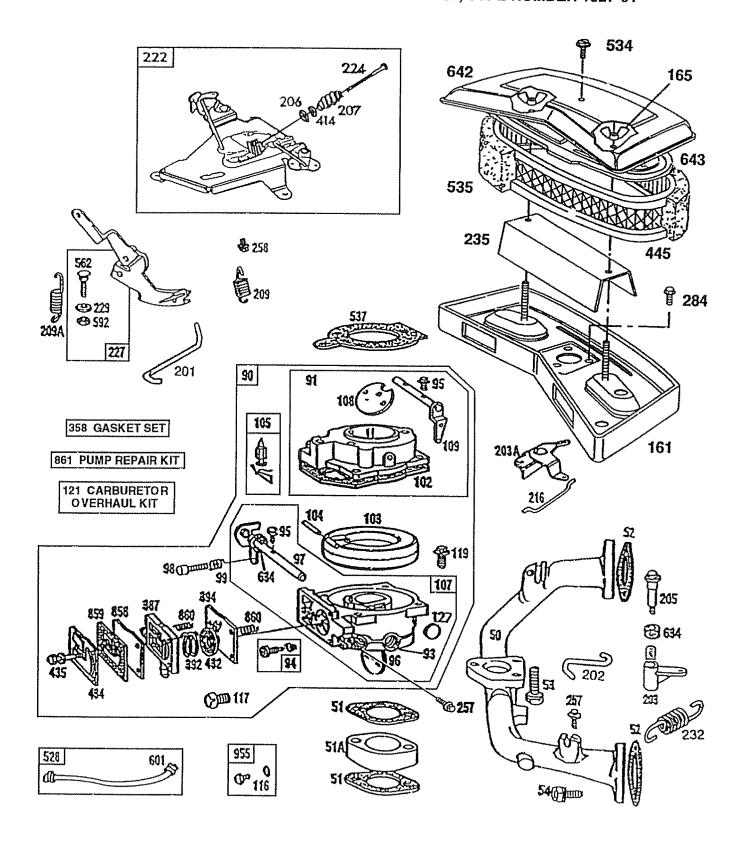
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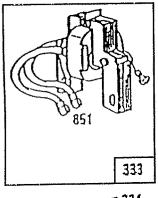
#### 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562 DANA TRANSAXLE - MODEL NUMBER 4360-82

-	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1 2	142671 2274J	Housing, Upper Screw, Self-Tapping, Large 1/4-20 x .734	41 42 43	105928X 106605X 134394 *	Sprocket, 9 Teeth Gear, Bevel, 42 Teeth
3 4 5	134400 105904X 105905X	Ball, Detent Spring, Detent Screw, Set		120473X 106596X	Assembly, Kit, Shim .750 Shaft Shaft, Drive Screw, Self-Tapping, Large
6 7 8	134788 134399 120951X	Kit, Shifter Assembly Boot, Shifter Puck, Friction	46 47	142678 106589X	5/16-18 x 1.44 Gear, Spur, 12 Teeth Gear, Spur, 25 Teeth
9 10 11	134791 142672	Screw, Tapping w/Sealer Ring, Retaining Assembly, Kit, Shim .625 Shaft	49 50	120408X 105937X 105936X 2226J	Gear, Spur, 28 Teeth Gear, Spur, 31 Teeth Spacer .781 x 1.00 x .375
12 13 14	120407X 120415X 142674	Gear, Spur, 20 Teeth Washer, Plain .632 x 1.38 x .046 Key, Woodruff, #9	52 53	134401 2264J	Washer, Plain .632 x 1.00 x .060 Washer, Neoprene Washer, Plain .758 x 1.25 x .031
15 16 17	106846X 106095X 105909X	Assembly, Kit, Input Shaft Pinion, Bevel, 14 Teeth Ring, Retaining	55 56	120474X 120409X 105941X	Axle, L.H. Gear, Miter, 15 Teeth Ring, Retaining
18 19 20	105910X 105911X 142675	Chain, 24 Pitches Bearing, Flange	58 59	110071X 120952X 106592X	Gear, Spur, 32 Teeth Shatt, Cross Gear, Miter, 15 Teeth
20 21 22 23	138246 138238 143051	Gear, Spur, 14 Teeth Collar, Clutch Assembly, Kit, Clutch Keys	61 62	120475X 142680 120961X	Axle, R.H. Housing, Lower Puck, Friction
24 25	143673 2244J	Bearing, Flange Shaft, Intermediate Key, Woodruff, #61	64 65	7294J 108989X 120953X	Disc, Brake Spacer Jaw, Brake
26 27 28	105916X 120470X 110070X	Ring, Retaining Sprocket, 18 Teeth Spacer	67	120954X 134799	Pin, Dowel Screw, Self-Tapping, Large 5/16-18 x 2.25
29 30 31	142677 120405X 108980X	Gear, Spur, 37 Teeth Gear, Spur, 30 Teeth Gear, Spur, 25 Teeth	69 70	138244 108996X 120956X	Lever, Actuating Washer, Plain 321 x 1.00 x .055 Bracket, Anti-Rotation
32 33 34	120406X 134796 134797	Gear, Spur, 22 Teeth Gear, Spur, 19 Teeth Spacer 1.133 x 1.50 x .375	72	143045	Locknut 5/16-24 Seal, Oil Grease
36 37	105925X 2232J 108978X	Washer, Plain .640 x 1.37 x .061 Washer, Plain .632 x 1.00 x .026 Spacer .630 x 1.00 x .169	*		ations to maintain proper clearances
38 39	110079X 124639X	Assembly, Gear, Combination of 12 Teeth and 35 Teeth Shaft, Idler	NOT	Order Key No. E: All compone	ent dimensions given in U.S. inches
40	120472X	Spacer .635 x .875 x .755		1 inch = 25.4	1 mm



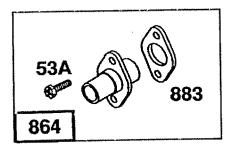
18 HP 42" TRACTOR - - MODEL NUMBER 917.257562 BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1527-01



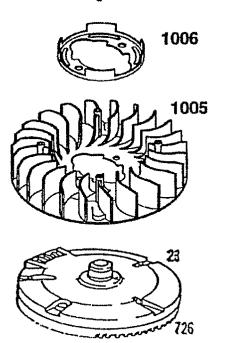


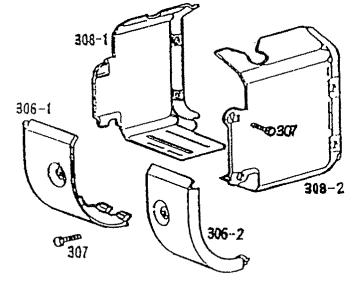


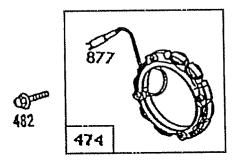


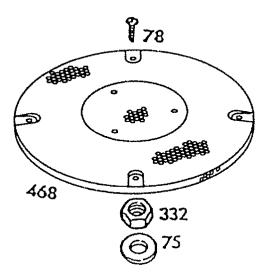


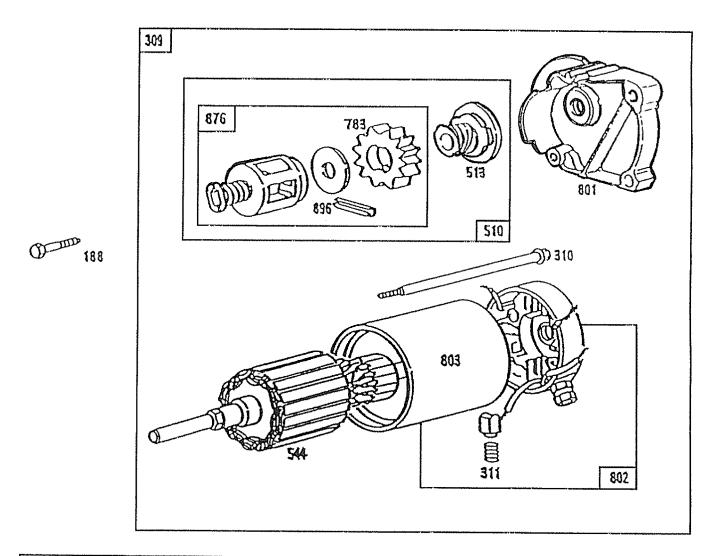












er	309	310	311	544	801	802	803
1	Motor and	Thru Bolt	Brush	Armature	Drive End Cap		
	DIIVE ASS Y.	Assembly	Assembly	Assembly	Assembly	Commutator	Assembly
ngth		:					
5/8*	394808	94003	395538	390837	394860	395537.	398159
	ising ngth	Motor and Drive Ass'y, Ising Igth	Motor and Thru Bolt Drive Ass'y. Assembly ising ingth	Motor and Thru Bolt Brush Drive Ass'y, Assembly Assembly Ising Ingth	Motor and Thru Bolt Brush Armature Drive Ass'y, Assembly Assembly Assembly Ising agth	Motor and Thru Bolt Brush Armature Drive End Cap Drive Ass'y, Assembly Assembly Assembly Assembly Ising ngth	Motor and Thru Bolt Brush Armature Drive End Cap End Cap Ass'y. Drive Ass'y. Assembly Assembly Assembly Commutator

\*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	495878	398003	280104	495877	94288(Copper)

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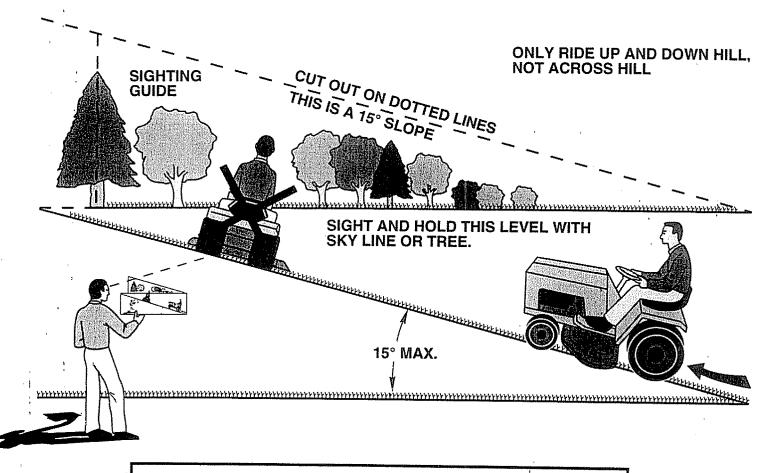
KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	494533	Cylinder Assembly	51	271412	*** Gasket, Carburetor & Intake Elbow
ż	491756	Bearing, Cylinder	51A	281411	Spacer, Carburetor
3		* Seal, Oil	52	270884	* Gasket, Intake Manifold Mounting
5-1	493457	Head, Cylinder Number 1	53	93970	Screw, Sems, Carburetor Mounting
		Head, Cylinder Number 2	54	93208	Screw, Sems,
	493458	* Cooket, Cylinder Hand Number 1	54	33200	
7-1		* Gasket, Cylinder Head Number 1	75	000511	Intake Manifold Mounting
		* Gasket, Cylinder Head Number 2	75	222511	Washer, Spring
8-1	495754	Breather Assembly Number 1	78	94834	Screw, Sems
8-2	222892	Cover, Breather, Cylinder Number		495181	Carburetor Assembly
		2 (Use with Key Number 572,	91	495035	Body Assembly, Upper Carburetor
		Air Baffle with Mounting Holes)	93	231209	Bushing, Throttle Shaft
9	27803	* Gasket, Valve Cover	94	491538	** Valve Assembly, Carburetor Idle
10	94830	Screw, Sems	95	93499	Screw, Sems,
11	280225	Tube, Breather			Throttle and Choke Valve Mounting
12	271703	* Gasket, Crankcase Cover, 1/64"	96	221939	Valve, Throttle
	271188	* Gasket, Crankcase Cover, .005"	97	392672	Shaft and Lever, Throttle
		* Gasket, Crankcase Cover, .009"	98	91920	Screw, Machine, Fillister Head
13	94565	Screw, Cylinder Head	99		Spring, Throttle Adjustment
15	94239	Plug, Oil Drain		271607	** Gasket, Carburetor Body
	94497	Plug, Pipe		298514	Float, Carburetor
16	394028	Crankshaft		230896	** Pin, Float Hinge
10				394683	** Valve, Fuel Inlet
10	94196	Key, Timing Gear			
18	493304	Base Assembly, Crankcase	107	491543 223534	Body, Lower Carburetor
20		* Seal, Oil			Valve, Choke
21	399195	Seal Assembly, Cylinder Plug		392673	Shaft and Lever, Choke
22	94724	Screw, Sems,		280474	O-Ring
		Crankcase Cover Mounting	117	231338	Jet, Needle Valve
23	491180	Flywheel and Ring Gear Assembly,		94152	Screw, Sems, Hex Head
		Magneto		491539	Carburetor Overhaul Kit
24	222698	Key, Flywheel		223472	Plug, Welch
25	394955	Piston Assembly, Standard Size		496599	Body, Air Cleaner
	394956	Piston Assembly, .010" Oversize		94289	Nut, Wing
	394957	Piston Assembly, .020" Oversize	187	299146	Line, Fuel, 28" (Cut to Suit)
	394958	Pision Assembly, .030" Oversize	188	93535	Screw, Hex Head
26	394959	Ring Set, Piston, Standard Size	201	262683	Link, Governor
	394960	Ring Set, Piston, .010" Oversize	202	262684	Link, Throttle
	394961	Ring Set, Piston, .020" Oversize		280997	Crank, Bell
	394962	Ring Set, Piston, .030" Oversize		A 490207	Crank, Bell
27	260924	Lock, Piston Pin	205		Screw, Shoulder
28	299691	Pin Assy., Piston, Standard Size	206		Nut, Square
	391286	Pin Assy., Piston .005" Oversize	207		Spring, Compression
29	394306	Rod Assembly, Connecting	209		Spring, Governor
20	397158	Rod Assembly, Connecting,		A 261563	Spring, Governor Idle
	091100	.020" Undersize Crankpin Bore	<b>040</b>		
20	04671	Sorow, Copposing Pod	216 219	262375 393415	Link Oil Slinger Assembly
32	94671	Screw, Connecting Rod			
33	390420	Valve, Exhaust	219/		Gear, Governor
34	261528	Valve, Intake	220	222773	Washer, Thrust
		Uses: 393606 Seal Assembly and	*	les afreste al la	
	05000	Retainer (Key Number 868)	-	inciuaea in	Gasket Set (495868)
35	65906	Spring, Intake Valve	**		
36	26828	Spring, Exhaust Valve	**	included in	Carburetor Overhaul Kit (491539)
40	221596	Retainer, Intake Valve			
41	292260	Rotocoil, Exhaust Valve	***		both Gasket Set (495868), and
42	93630	Retainer, Exhaust Valve Rotocoil(2)		Carburetor	Overhaul Kit (491539)
45	261368	Tappet, Valve			
46	213421	Gear, Cam	NOT		ponent dimensions given in U.S. inches
50	213290	Manifold, Intake		1 inch =	25.4 mm

## 18 HP 42" TRACTOR - - MODEL NUMBER 917.257562 BRIGGS & STRATTON ENGINE - MODEL NUMBER 422707, TYPE NUMBER 1527-01

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
222 491282	Plate Assembly, Governor Control	552A 262331	Upper Bushing, Governor
224 94297	Screw, Pan Head	556 93585	Screw, Sems, Hex Head
227 491297 229 62199	Lever Assembly, Governor	562 93853	Bolt, Governor Lever
230 223882	Washer	567 93777	Screw, Hex Head,
230 223662 232 262539	Washer, Governor Crank, Inside	F00 0700.47	Back Plate to Cylinder
235 224995	Spring, Governor Control Shield, Spitback	569 272645	* Gasket, Crankcase
240 493629	Filter Fuel (in Fuel Line to Tenk)	572 224580	Baffle, Air, Cylinder Number 2
244 230318	Filter, Fuel (In Fuel Line to Tank) Connector, Impulse Pump	573 491304 592 92278	Back Plate Assembly
257 93897	Screw, Sems	601 93053	Nut, Hex
258 93949	Screw, Sems	615 94296	Clamp, Fuel Line
259 223890	Bracket, Cable	616 491530	Retainer, E-Ring Crank, Governor
265 221535	Clamp, Casing	634 271013	** Washer, Throtte Shaft
267 93496	Screw, Hex Head	634A 491287	* Seal, Governor Shaft
284 94264	Screw, Hex Head	635 66538	Elbow, Spark Plug
284A 93469	Screw, Hex Head	642 225008	Cover, Air Cleaner
304 495588		643 496700	Cartridge Plate, Air Cleaner
305 94608	Screw, Sems 1/2	726 391362	Gear, Flywheel Ring
306-1 222846			(Includes Mounting Parts)
306-2 223734		741 262694	Gear, Timing
307 94386 308-1 224774	Screw, Sems	819 94675	Screw, Hex Head
308-2 224775	Cover, Air Guide Cover, Air Guide	842 270920	* Seal, Oil Filler Cap
309	Motor, Starting (See Chart on	847 495715	Dipstick and Tube Assembly
	Illustrated Pages for Replacement	851 493880 858 270989 *	Terminal, Ignition Cable
	Parts for Starting Motors)	859 271025 *	*** Diaphragm, Damping *** Gasket, Carburetor Pump
332 230674	Nut, Hex	860 261358 *	*** Spring (2)
333 394891	Armature Group,	861 393397	Repair Kit, Pump
	MAGNETRON® Ignition	868 393606	Seal Assembly and Retainer
334 93381	Screw, Sems, Armature Mounting	869 261463	Seat, Intake Valve, Standard
337 802592	Plug, Spark, Resistor (with Gasket)	870 213316	Seat, Exhaust Valve, Standard
356 494705 358 495868	Wire, Ground	871 261961	Guide, Exhaust Valve
363 19203	Gasket Set	231218	Guide, Intake Valve (See Manual)
383 89838	Puller, Flywheel (Optional Accy.) Wrench, Spark Plug	877 393456	Connector Assembly, Dual-Circuit
387 280197	Body, Pump	881 495901	Cover Plate, Crankcase
392 261395	**** Spring, Pump	955 397882	(Includes Gasket - Key #569)
394 272638	**** Diaphragm	1005 281053	Plug and Seal, Solenoid
414 220680	Washer	1006 224413	Fan, Flywheel Retainer, Fan
422 222875	Clamp, Oil Filler	1019 491262	Decal Kit
432 221377	**** Cap, Spring		Doodint
434 223688	Cover, Diaphragm	RPM Setting	s: Low Speed: 1100-1400
435 93829	Screw, Diaphragm Cover		High Speed: 3200-3400
445 394019	Cartridge, Air Cleaner		
468 224521 474 393474	Screen, Flush Rotating	* Included in C	Sasket Set (495868)
482 93621	Stator, Alternator, Dual-Circuit Screw, Sems	** Included in C	
523 494927	Cap and Dipstick, Oil Filler	included in (	Carburetor Overhaul Kit (491539)
524 280860	* Seal, Filler Tube	*** Included in h	oth Gasket Set (495868), and
524A 271485	Seal, Tube	Carburetor C	Overhaul Kit (491539)
525 495348	Tube, Oil Filler		
528 393815	Impulse Line and Clamp Assembly	**** Included in b	oth Carburetor Overhaul Kit (491539),
534 94823	Screw, Round Head	and Pump R	epair Kit (393397)
535 271271	Element, Air Cleaner		
537 271411 552 262332	*** Gasket, Air Cleaner Lower Bushing, Governor	NOTE: All compo	nent dimensions given in U.S. inches
	Lower Dusning, dovernor	1 inch = 2	5.4 MM

# SERVICE NOTES

## SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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SEARS OWNER'S MANUAL	<b>CRAFTSMAN</b> ® 18 HP TWIN CYLINDER ELECTRIC START 3 in One Convertible 42" MOWER 5 SPEED TRANSAXLE LAWN TRACTOR
MODEL NO. 917.257562	<ul> <li>Each tractor has its own model number. Each engine has its own model number.</li> <li>The model number for your tractor will be found on the model plate located under the seat.</li> <li>The model number for your engine will be found on the blower housing of the engine.</li> <li>All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center/Department and most Retail Stores.</li> </ul>
IF YOU NEED REPAIR SERVICE, CALL FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER: <b>1-800-4-REPAIR</b> (1-800-473-7247) FOR REPLACEMENT PARTS INFORMATION AND ORDERING, CALL THIS TOLL FREE NUMBER: <b>1-800-FON-PART</b> (1-800-366-7278)	<ul> <li>WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE DOLLOWING INFORMATION:</li> <li>PRODUCT - TRACTOR</li> <li>MODEL NUMBER - 917.257562</li> <li>ENGINE MODEL NO 422707, TYPE NO. 1527-01</li> <li>PART NUMBER</li> <li>PART DESCRIPTION</li> <li>Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians professional technicians specifically trained to insure that we meet our pledge to you, we service what we sell.</li> </ul>
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