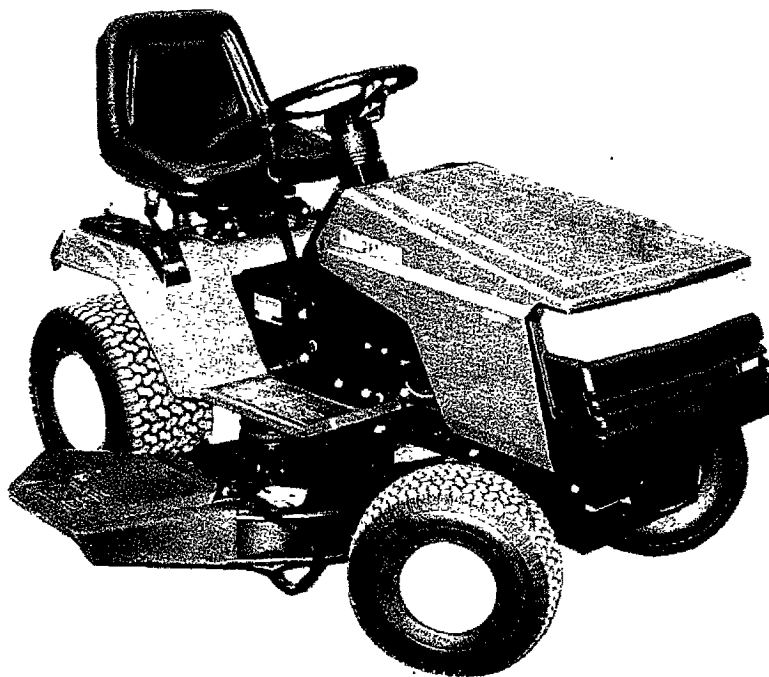


**SEARS**

**OWNER'S  
MANUAL**

**MODEL NO.  
917.255551**

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



**CRAFTSMAN<sup>®</sup>**

**12.5 HP OHV  
ELECTRIC START  
38" MOWER  
AUTOMATIC (HYDROSTATIC)  
DRIVE  
LAWN TRACTOR**

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

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

# SAFETY RULES



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



## IMPORTANT

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

### TRAINING:

- Know the controls and how to stop quickly. Read this owner's manual and instructions furnished with attachments.
- Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- Do not carry passengers. Do not mow when children and others are around.
- Do not attempt to operate your vehicle or mower when not in the driver's seat.
- Always get on or off your vehicle from the operator's left hand side.
- The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.

### PREPARATION:

- Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
- Clear the work area of objects (wire, rocks, etc.) which might be picked up and thrown.
- Disengage all attachment clutches before attempting to start the engine.
- Handle gasoline with care - it is highly flammable.
  - Use approved gasoline containers.
  - Never remove the fuel cap of the fuel tank or add gasoline to a running or hot engine or an engine that has not been allowed to cool for several minutes after running. Never fill tank indoors. Always clean up spilled gasoline.
  - Open doors if the engine is run in the garage - exhaust fumes are dangerous. Do not run the engine indoors.
- Do not operate the mower without the entire grass catcher, on mowers so equipped, or the deflector shield in place.

### OPERATION:

- Keep your eyes and mind on your vehicle, mower, and the area being cut. Do not let other interests distract you.
- Disengage power to attachments and stop the engine before leaving the operator's position.
- Disengage power to mower, stop the engine, and disconnect spark plug wire(s) from spark plug(s) before cleaning, making an adjustment, or repair. Be careful to avoid touching hot muffler or engine components.
- Disengage power to attachments when transporting or not in use.
- Take all possible precautions when leaving the vehicle unattended. Disengage the power take-off, lower the attachments, shift into neutral, set the parking brake, stop the engine, and remove the key.
- Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of slopes (not greater than 15°), never across the face.
- Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- While going up or down slopes, place gearshift control lever in 1st gear position to negotiate the slope without stopping.

- Never mow in wet or slippery grass, when traction is unsure, or at a speed which could cause a skid.
- Stay alert for holes in the terrain and other hidden hazards. Keep away from drop-offs.
- Do not drive too close to creeks, ditches, and public highways.
- Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run vehicle or mower into or over any foreign objects.
- Never shift gears until vehicle comes to a stop.
- Never place hands or feet under the mower, in discharge chute, or near any moving parts while vehicle or mower is running. Always keep clear of discharge chute.
- Use care when pulling loads or using heavy equipment.
  - Use only approved drawbar hitch points.
  - Limit loads to those you can safely control.
  - Do not turn sharply. Use care when backing.
  - Use counterweight or wheel weights when suggested in owner's manual.
- Watch out for traffic when crossing or near roadways.
- When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
- Except for adjustments, do not operate engine if air cleaner or cover directly over carburetor air intake is removed. Removal of such part could create a fire hazard.
- Do not change the engine governor settings or overspeed the engine; severe damage or injury may result.
- When using the vehicle with mower, proceed as follows:
  - Mow only in daylight or in good artificial light.
  - Shut the engine off when unclogging chute.
  - Check the blade mounting bolts for proper tightness at frequent intervals.
- Disengage power to mower before backing up. Do not mow in reverse unless absolutely necessary and then only after careful observation of the entire area behind the mower.

### MAINTENANCE AND STORAGE

- Keep the vehicle and attachments in good operating condition, and keep safety devices in place and working.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease. Do not clean product while engine is running.
- Do not operate without a muffler, or tamper with exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary.
- Under normal usage the grass catcher bag material is subject to deterioration and wear. It should be checked frequently for bag replacement. Replacement bags should be checked to ensure compliance with the original manufacturer's recommendations or specifications.



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

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

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

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

MODEL NUMBER	917.255551
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 unit.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

### PRODUCT SPECIFICATIONS

HORSEPOWER:	12.5
GASOLINE CAPACITY:	5 QUARTS UNLEADED REGULAR
OIL (4.0 PINTS w/o FILTER): (4.5 PINTS w/ FILTER):	SAE 30 (or 10W-30) WINTER: SAE 5W-30
SPARK PLUG (GAP .030 IN.):	CHAMPION RC-12YC
VALVE CLEARANCE:	INTAKE .0015/.0030 IN. EXHAUST .0020/.0035 IN.
GROUND SPEED:	FORWARD: 0-5.5 MPH REVERSE: 0-2.2 MPH
TIRE PRESSURE:	FRONT: 14 PSI REAR: 12 PSI
CHARGING SYSTEM:	15 AMPS @ 3600 RPM
BLADE BOLT TORQUE:	30-35 FT. LBS.

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

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

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

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

This Warranty does not cover:

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

### FULL 90 DAY WARRANTY ON BATTERY

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

WARRANTY SERVICE IS AVAILABLE BY CONTACTING THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. THIS WARRANTY APPLIES ONLY WHILE THIS PRODUCT IS IN USE IN THE UNITED STATES.

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

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

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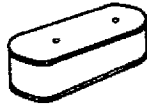



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# ACCESSORIES AND ATTACHMENTS

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

## ENGINE

SPARK PLUG	MUFFLER	AIR FILTER	GAS CAN	ENGINE OIL	STABILIZER
					

## MAINTENANCE

BLADES	BELTS
	

## PERFORMANCE

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

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

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

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

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

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

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

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

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

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

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

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

**SNOW 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, wheel weights, 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, wheel weights, or rear drawbar weight.)

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

**WHEEL WEIGHTS** for rear wheels provide needed traction for snow removal or dozing heavy materials. In pairs. (30 lbs. each.)

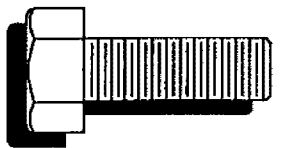
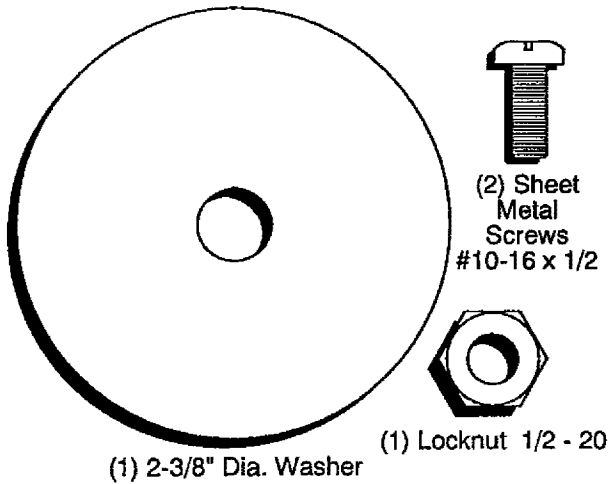
**TRACTOR CAB** has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl and windshields for use as sun protector in summer.

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

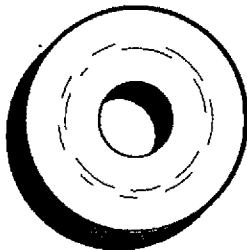
**TRACTOR COVER** protects tractor from weather. Made of Evolution 3 fabric (water-repellent, extremely breathable, light weight, soft, non-abrasive, pliable in all temperatures, durable, stain/tear/puncture resistant, will not shrink or stretch).

# CONTENTS OF HARDWARE PACK

## Parts Bag contents shown full size



(4) Hex Bolts 5/16-18 x 1



(4) Spacers



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



(2) Hex Nuts 1/4 - 20



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

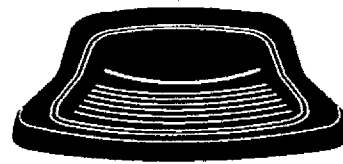


(2) Lockwashers 1/4

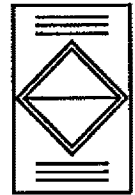


(2) Wing Nuts 1/4 - 20

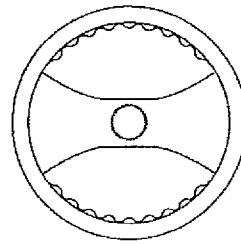
## Parts packed separately in carton



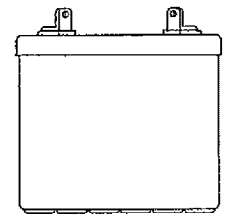
Seat



Battery acid



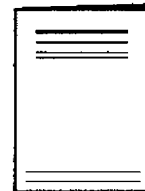
Steering Wheel



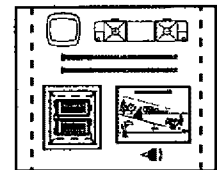
Battery



Steering Boot



Owner's Manual



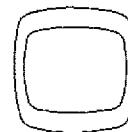
Parts Bag



Steering Bushing



(2) Keys



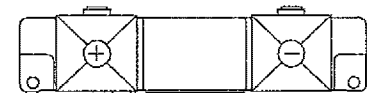
Steering Wheel Insert



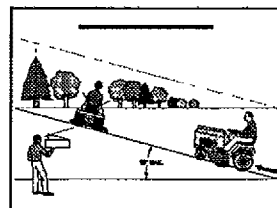
(2) Battery Carriage Bolts 1/4-20 x 7-1/2



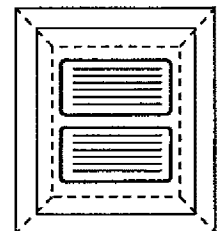
Steering Wheel Adapter



Terminal Guard



15° Slope Sheet



Battery Caps and Instructions

# ASSEMBLY

## TOOLS REQUIRED FOR ASSEMBLY

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

- |                    |                     |
|--------------------|---------------------|
| (1) 5/16" wrench   | (1) 3/4" wrench     |
| (2) 7/16" wrenches | Tire pressure gauge |
| (1) 1/2" wrench    | Screwdriver         |
| (1) 9/16" wrench   | Utility knife       |

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

## TO REMOVE UNIT FROM CARTON UNPACK CARTON

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

## 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 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 1/2-20 hex locknut and tighten securely.
- Snap insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.

## BEFORE ROLLING UNIT OFF SKID (See Fig. 6)

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

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Pull freewheel knob up to disengage transmission.
- Roll unit backwards off skid.
- Remove banding holding discharge guard up against tractor.

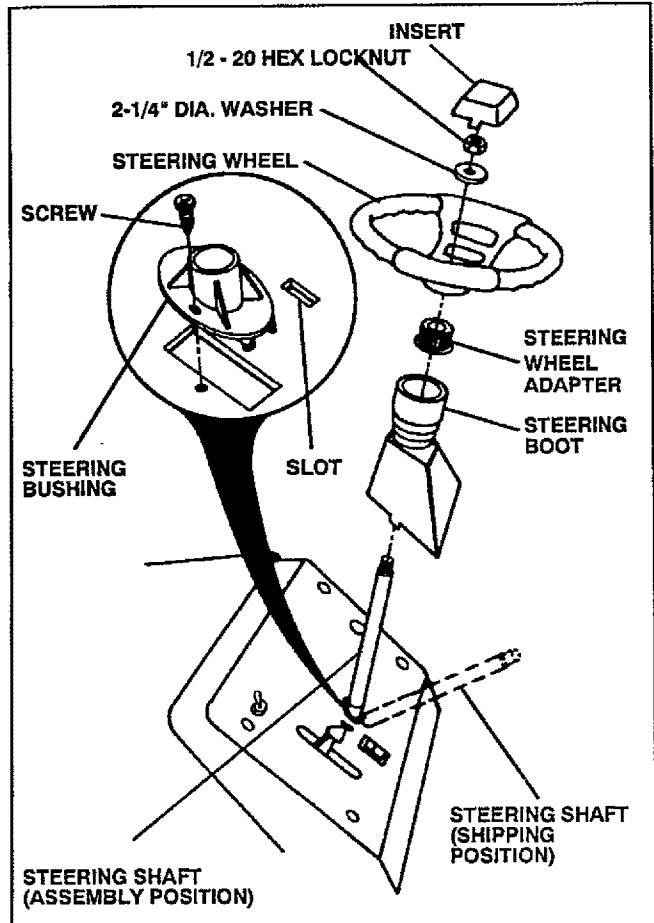


FIG. 1

# ASSEMBLY

## HOW TO SET UP YOUR TRACTOR PREPARE BATTERY (See Fig. 2)



**CAUTION: Wear eye and face shield.**

**Wash hands or clothing immediately if accidentally in contact with battery acid.**

**Do not smoke. Fumes from charged battery acid are explosive.**

**Read the instructions included with the battery vent caps. Always wear gloves, clothing and goggles to protect your hands, skin and eyes.**

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

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

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

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

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

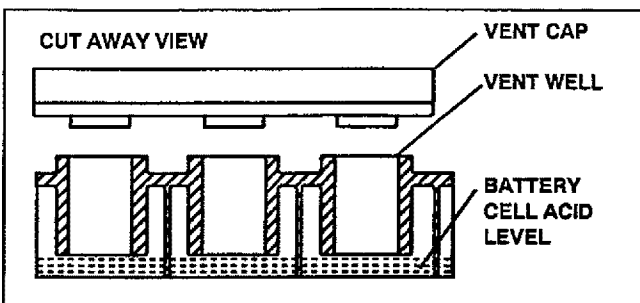


FIG. 2

## INSTALL SEAT (See Fig. 3)

Seat position should be adjusted forward or backward so that the operator can comfortably reach clutch/brake pedal and safely operate the tractor.

- Remove cardboard packing on seat pan.
- Release R.H. slide on seat pan by pulling out on handle and sliding it to the rear position exposing seat mounting holes from bottom. Slide L.H. slide to same rear position.
- Mount rear of seat on slides using mounting hardware shown. Be sure to install spacers between seat and seat slides with cupped side of spacer up toward seat.
- Pull out on adjustment handle and slide seat all the way forward. Install front mounting bolts and spacers. Tighten all mounting bolts securely.
- Lower seat into operating position and sit on seat. Press clutch/brake pedal all the way down. If operating position is not comfortable, adjust seat.
- To adjust seat: Grasp adjustment handle and pull out, slide seat to desired position and release handle.

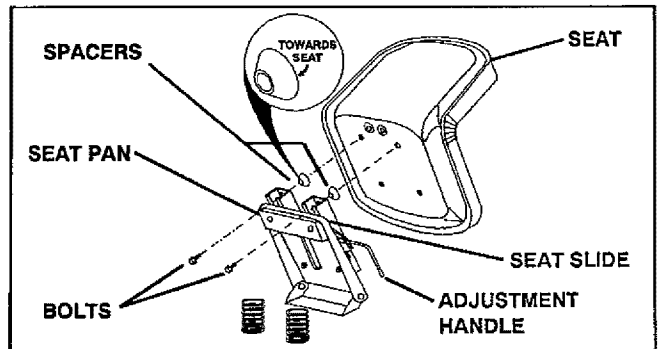


FIG. 3

## CHECK TIRE PRESSURE

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

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

## CHECK 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.



# ASSEMBLY

## INSTALL BATTERY (See Figs. 4 & 5)



**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.

- Lift seat to raised position.
- Lower battery into fender well with battery terminals toward front of unit. Make sure battery rests in battery tray.
- Be sure battery drain tube has not come loose and is securely attached to drain in battery tray.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Slide the two battery bolts through the terminal guard and start the wing nuts onto the threads.
- Position terminal guard over the battery as shown, lower bolts into key holes and slide square shafts of bolts into slots of key holes.
- Tighten wing nuts by hand making sure battery bolts remain in slots of the key holes in the battery support.
- Be sure terminal access doors are closed.

Use terminal access doors for:

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

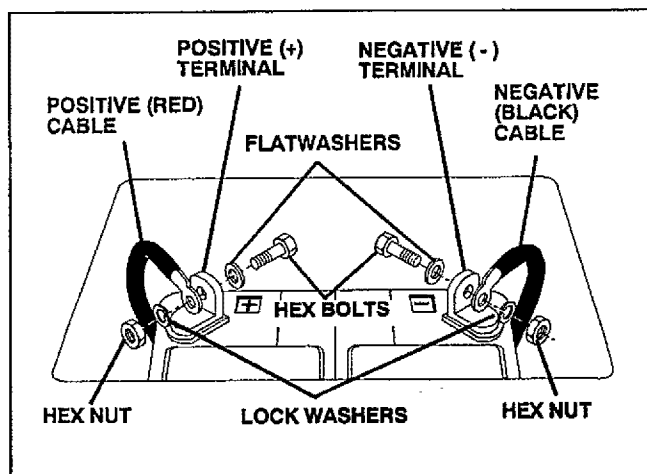


FIG. 4

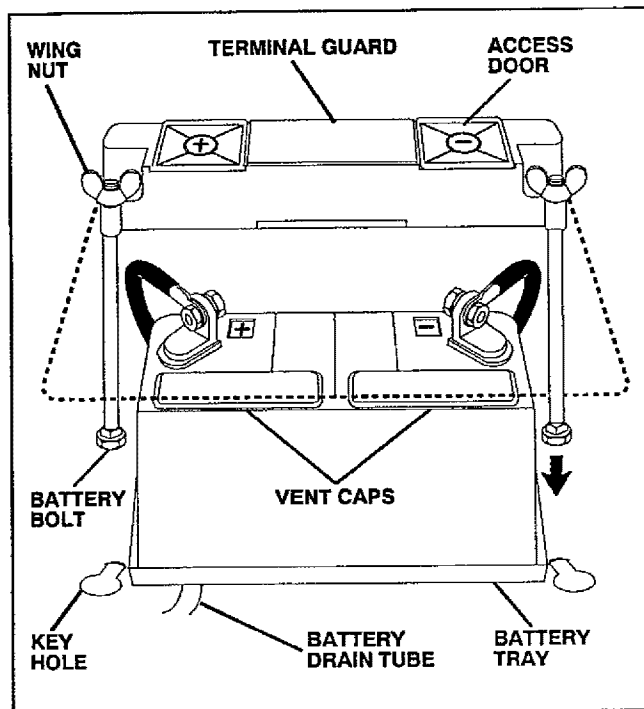


FIG. 5

## ✓ CHECKLIST

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

*PLEASE REVIEW THE FOLLOWING CHECKLIST:*

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

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

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

# OPERATION

## KNOW YOUR TRACTOR

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

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

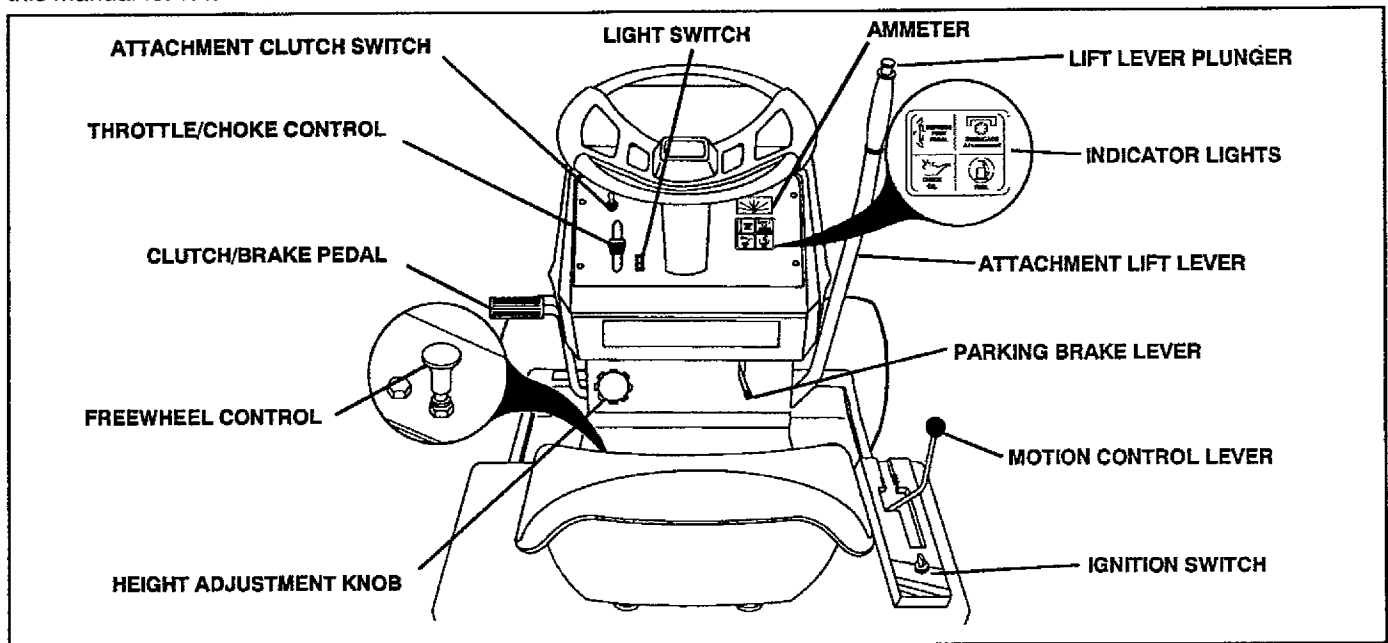


FIG. 6

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

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

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

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

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

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

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

**MOTION CONTROL LEVER** - Selects the speed and di-

rection of the tractor.

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

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

**THROTTLE/CHOKE CONTROL** - Used for starting and controlling engine speed.

**FREEWHEEL CONTROL** - Disengages transmission for pushing or slowly towing the tractor with the engine off.

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

**INDICATOR LIGHTS** - Indicates clutch/brake pedal engagement, attachment engagement, low oil pressure, and low fuel level.

## **CAUTION** TO AVOID INJURY

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

# OPERATION



The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend Wide Vision Safety Mask for over the spectacles or standard safety glasses, available at Sears Retail or Catalog Stores.

## HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE (See Fig. 7)

Your unit is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

- 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. 7)

### MOWER BLADES -

- Move attachment clutch switch to "DISENGAGED" position.

### GROUND DRIVE -

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

**IMPORTANT: THE MOTION CONTROL LEVER DOES NOT RETURN TO "NEUTRAL" POSITION WHEN THE CLUTCH/BRAKE PEDAL IS DEPRESSED.**

### ENGINE -

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

## TO USE THROTTLE CONTROL (See Fig. 7)

Always operate engine at full throttle.

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

## TO MOVE FORWARD AND BACKWARD (See Fig. 6)

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

- Start tractor with motion control lever in "NEUTRAL" position.
- Release parking brake and clutch/brake pedal.
- Slowly move motion control lever to desired position.

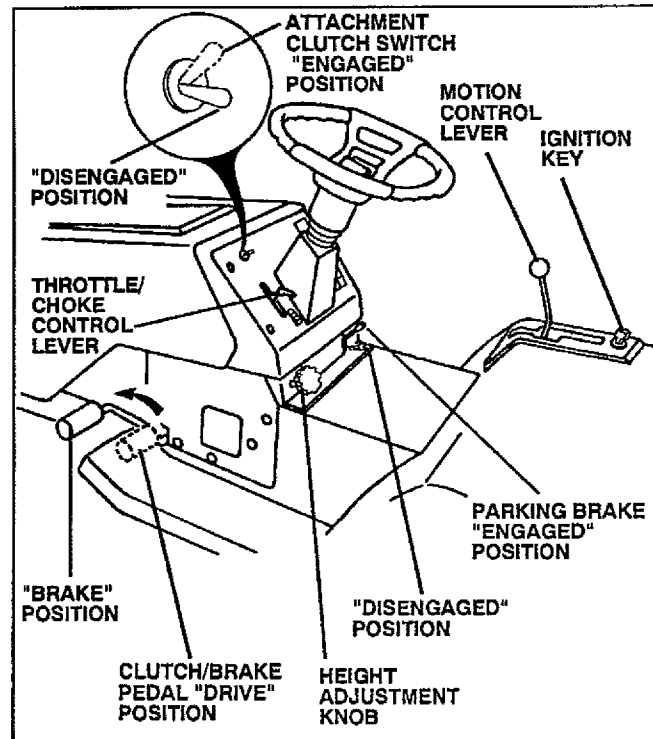


FIG. 7

## TO ADJUST MOWER CUTTING HEIGHT (See Fig. 7)

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

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

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

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

# OPERATION

## TO OPERATE MOWER (See Fig. 8)

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

- Select desired height of cut, using height adjustment knob.
- Lower attachment lift lever.
- Engage mower by pulling attachment clutch switch up and out to "ENGAGED" position.
- TO STOP MOWER - Move attachment clutch switch to "DISENGAGED" position.
- Raise attachment lift lever.



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

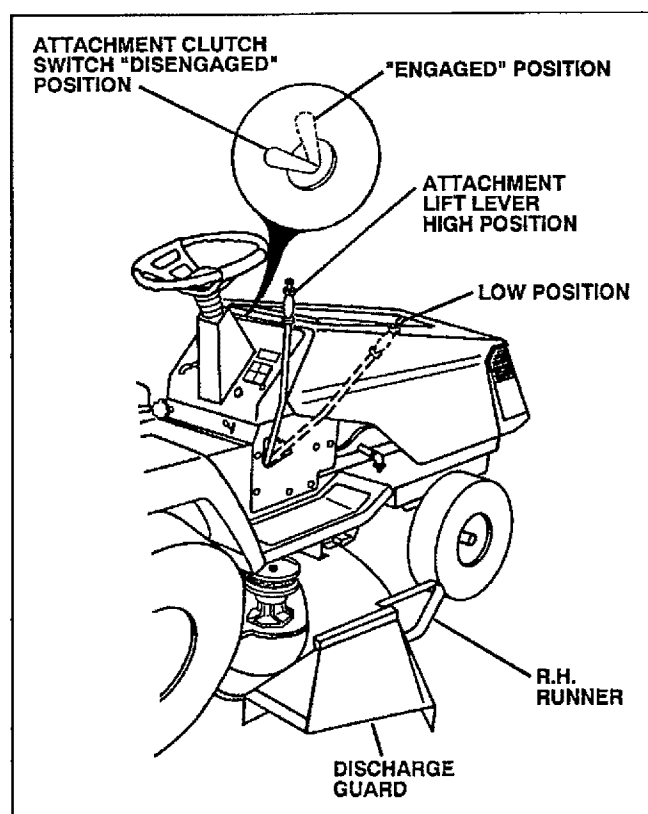


FIG. 8

## 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 motion control lever to "NEUTRAL" position.

**IMPORTANT:** THE MOTION CONTROL LEVER DOES NOT RETURN TO "NEUTRAL" POSITION WHEN THE CLUTCH/BRAKE PEDAL IS DEPRESSED.

- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

## TO TRANSPORT

- Raise attachment lift control to highest position.
- When pushing or towing your unit, be sure motion control lever is in "NEUTRAL" position.
- Pull freewheel control knob up to disengage transmission (See Fig. 6).

- Do not push or tow unit at more than five (5) MPH.

## BEFORE STARTING THE ENGINE

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

- The engine in your unit has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with unit on level ground.
- Unthread and remove the oil fill cap/dipstick; wipe off. Reinsert the dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (see "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

## 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° (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.

# OPERATION

## TO START ENGINE (See Fig. 7)

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

- Depress the clutch/brake pedal and set the parking brake.
- Place motion control lever in "NEUTRAL" position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control lever to "CHOKE" position for cold engine start. For warm engine start, move throttle control to "FAST" position.
- Turn ignition key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If engine does not start after several attempts, move throttle control to "FAST" position, wait a few minutes and try again.
- When engine starts, slowly move throttle control lever to desired running speed.
- Allow engine to warm up for a few minutes before engaging motion control or attachment clutch.

**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 unit.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 8).
- The left hand side of mower should be used for trim-

ming.

- 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. 9).

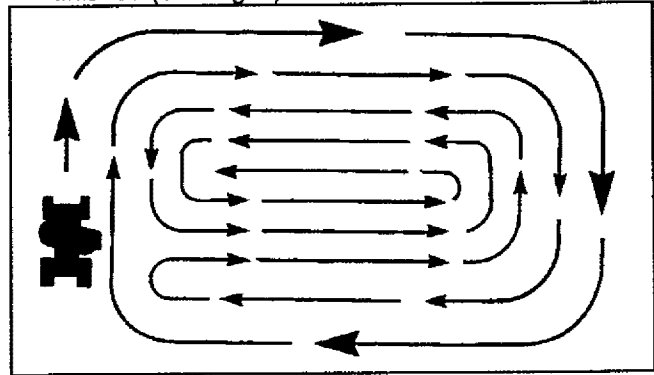


FIG. 9

- 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.

# MAINTENANCE

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

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

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

## GENERAL RECOMMENDATIONS

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

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

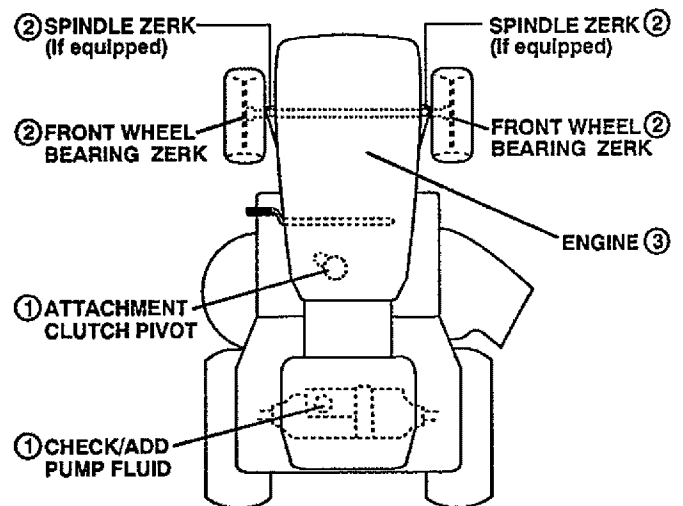
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

## BEFORE EACH USE

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

## LUBRICATION CHART



- ① SAE 10W30 MOTOR OIL API - SF/CC
- ② GENERAL PURPOSE GREASE
- ③ REFER TO ENGINE MAINTENANCE SECTION

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

# MAINTENANCE

## TRACTOR

Always observe safety rules when performing any maintenance.

## BRAKE OPERATION

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

## TIRES

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

## BLADE CARE

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

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

## BLADE REMOVAL (See Fig. 10)

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

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

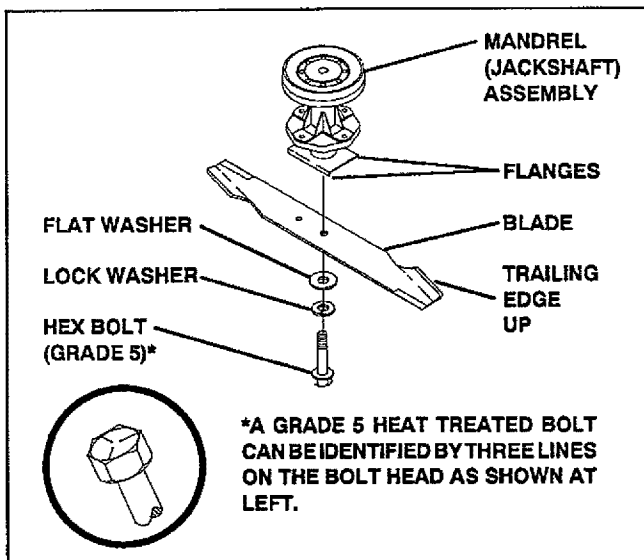


FIG. 10

## TO SHARPEN BLADE (See Fig. 11)

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

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

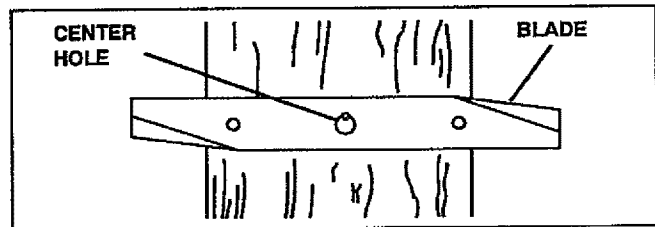


FIG. 11

## BATTERY (See Fig. 12)

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

- Acid solution level in each battery cell should be even with bottoms of vent wells. Add only distilled or iron free water if necessary. Do not overfill.

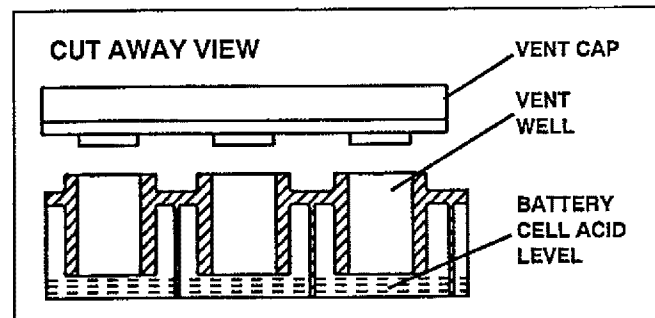


FIG. 12

- 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.

## TO CLEAN BATTERY AND TERMINALS -

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

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

# MAINTENANCE

## TRANSAXLE PUMP FLUID LEVEL (See Figs. 13 & 14)

Check fluid level after every 25 hours of use. Rear drawbar must be removed to check fluid level.

- Remove the four (4) fasteners to remove the drawbar.
- Clean reservoir thoroughly before removing cap.
- Check for proper fluid level in reservoir (should be above the "OIL LEVEL COLD" line).
- If oil is needed, remove cap on reservoir (with a clockwise rotation), and fill to "OIL LEVEL COLD" line with SAE 10W30 oil.
- Replace cap securely (do not overtighten).
- Reassemble drawbar and tighten fasteners securely.

## V-BELTS

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

## TRANSMISSION COOLING (See Fig. 13)

The fan and cooling fins of transmission should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials.
- Thoroughly clean the cooling fins with a cloth, brush, or compressed air.

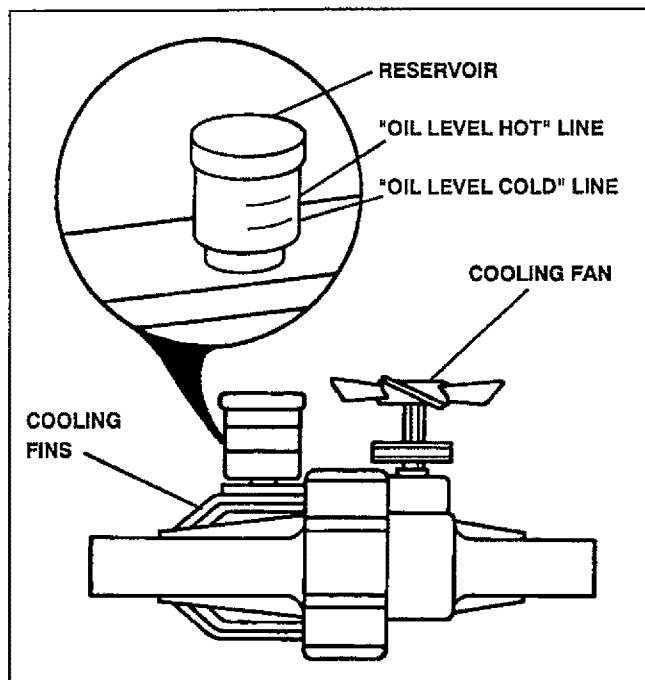


FIG. 13

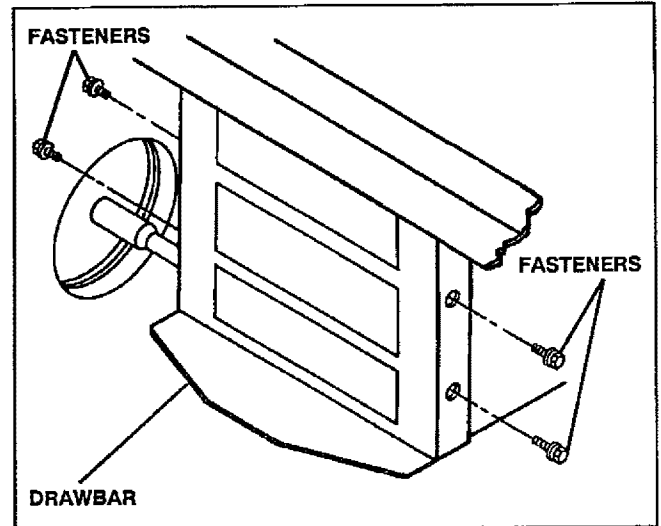


FIG. 14

## ENGINE LUBRICATION

Change the oil after the first two hours of operation and every 50 hours thereafter or at least once a year if the tractor is not used for 50 hours in one year.

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

### TO CHANGE ENGINE OIL (See Figs. 15 and 16) -

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

- Be sure vehicle is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- 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. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

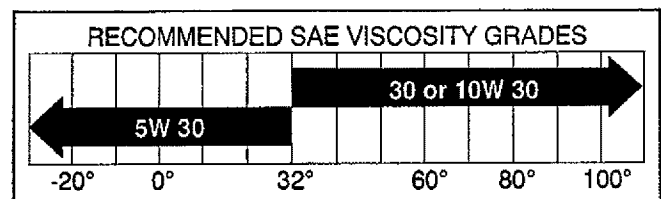


FIG. 15



# MAINTENANCE

## AIR FILTER FOAM PRE-CLEANER (See Fig. 16)

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

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

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

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

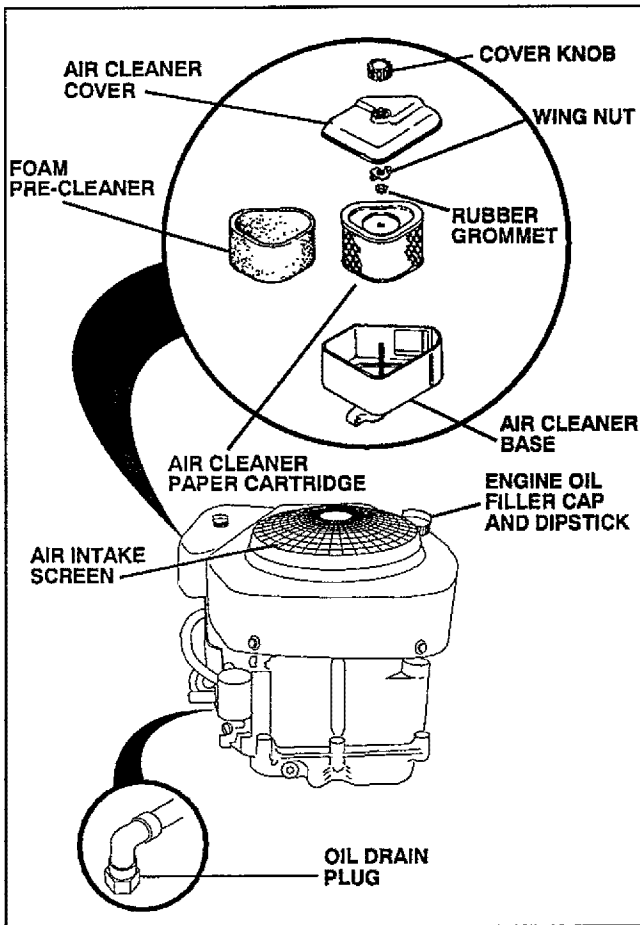


FIG. 16

## CLEAN AIR INTAKE/COOLING AREAS (See Fig. 16)

To insure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled.

**NOTE:** Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed, will cause engine damage due to overheating.

## MUFFLER

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

## SPARK PLUGS

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

# MAINTENANCE

## ENGINE OIL FILTER (See Fig. 17)

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

- Drain oil from engine crankcase ( See "TO CHANGE ENGINE OIL" through step remove drain plug).
- Remove oil filter drain plug located at base of oil filter adapter. Allow oil filter to drain.
- Remove oil filter and wipe off filter adapter. Reinstall oil filter drain plug.
- Apply a thin coating of new engine oil to the rubber gasket on replacement oil filter.
- Install replacement oil filter on filter adapter. Turn oil filter clockwise until rubber gasket contacts the filter adapter, then tighten filter an additional 1/2 turn.
- Fill crankcase with new oil ( See "TO CHANGE ENGINE OIL" in this section of this manual). For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Start the engine and check for oil leaks. Correct any leaks before placing engine into full operation.

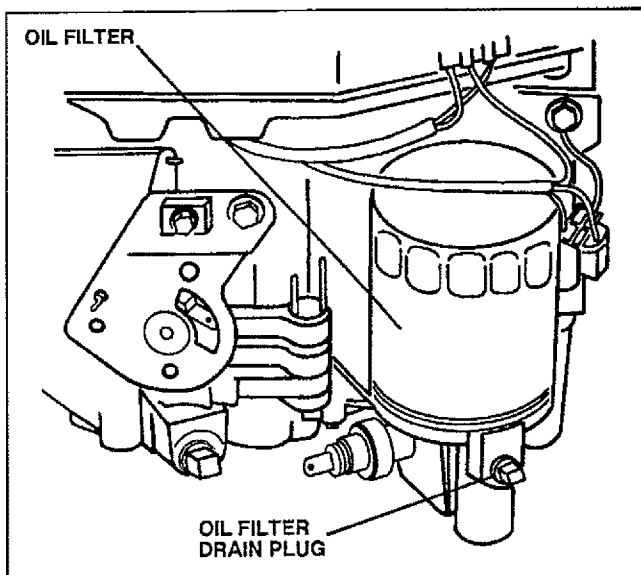


FIG. 17

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

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.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

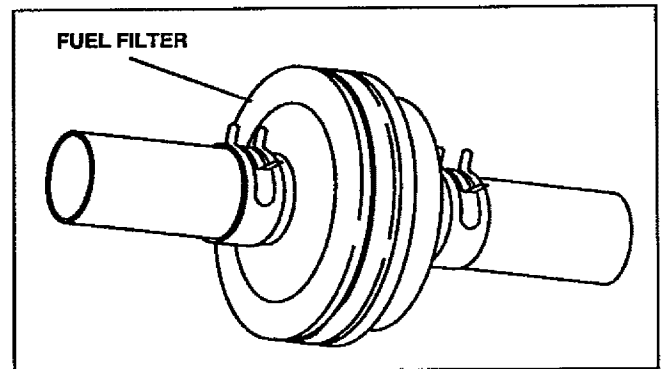


FIG. 18

## 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 unit unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

# SERVICE AND ADJUSTMENTS

## CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:



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

## TRACTOR

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

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

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

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

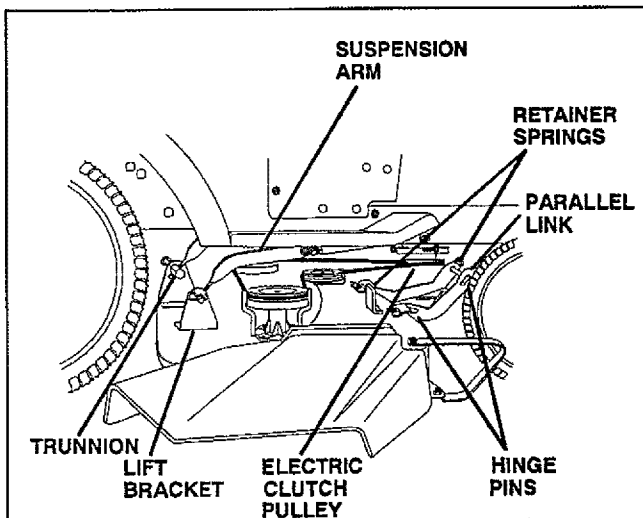


FIG. 19

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

- Raise attachment lift lever to its highest position.
- Turn height adjustment knob to lowest setting.
- Slide mower under tractor with discharge guard to right side of tractor.
- Install parallel link to front axle and mower with hinge pins. Secure hinge pins with retainer springs.
- Lower attachment lift lever to lower suspension arms. Slide trunnions through lift bracket holes and secure with retainer springs.
- Roll belt over electric clutch pulley. Make sure belt is inside all pulley grooves and inside belt guides.
- Raise attachment lift lever to raise mower.
- Turn height adjustment knob to desired setting.

### TO LEVEL MOWER HOUSING

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

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

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

# SERVICE AND ADJUSTMENTS

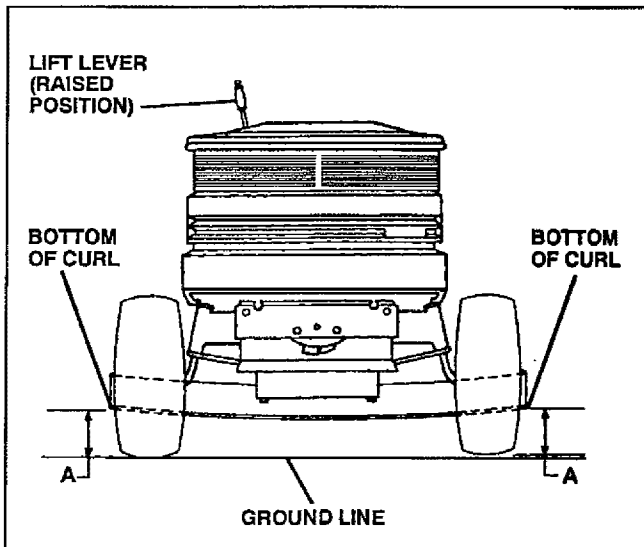


FIG. 20

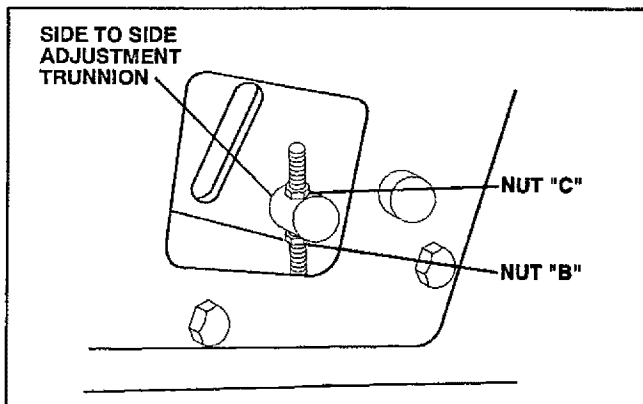


FIG. 21

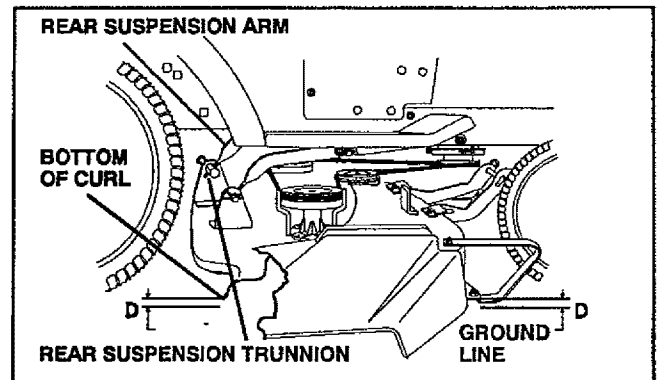


FIG. 22

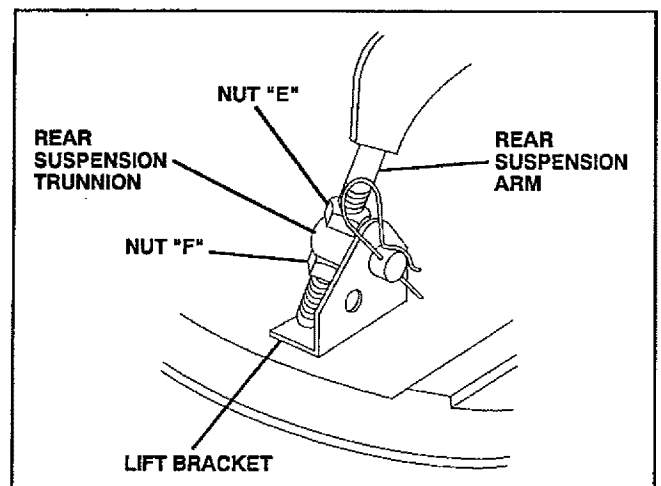


FIG. 23

**FRONT-TO-BACK ADJUSTMENT** (See Figs. 22 and 23) - To obtain the best cutting results, the mower housing should be adjusted so the rear is  $3/4$ "- $7/8$ " higher than the front when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" at front and rear flanges of mower housing as shown.

- To raise rear of mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" on both rear suspension arms an equal number of turns.
- When distance "D" is  $3/4$ "- $7/8$ " higher at rear than front, retighten nuts "E".
- Recheck side-to-side adjustment.

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

# SERVICE AND ADJUSTMENTS

## TO ADJUST ATTACHMENT CLUTCH (See Fig. 24)

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear so the mower blades will not stop as recommended. Adjustments should be made by an authorized service technician.

- Make sure attachment clutch and ignition switches are in the "OFF" position.
- Adjust the three nylon lock nuts until the space between clutch plate and rotor, measures .012 inches at all three slot locations cut in side of brake plate.

**NOTE:** After installing a new electric clutch, run tractor at full throttle, and engage and disengage electric clutch 10 cycles to wear in clutch plate.

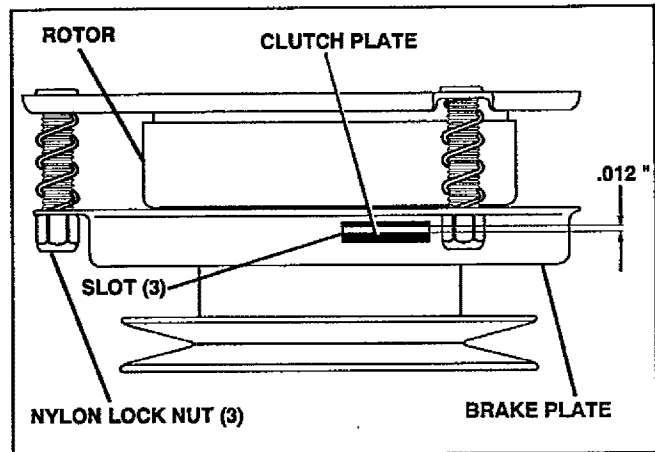


FIG. 24

## TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 25)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on the mower housing.

### BELT REMOVAL -

- Place attachment clutch in "DISENGAGED" position.
- \* Turn height adjustment knob to lowest setting.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off electric clutch pulley.
- Pull belt off both mandrel pulleys.
- Spring belt guide away from idler pulley and pull belt off idler pulley.

### BELT INSTALLATION -

- Place belt around back side and in groove of both mandrel pulleys.
- Spring idler belt guide down and place belt around rear side of idler pulley.
- Roll belt over electric clutch pulley.
- Make sure belt is in all pulley grooves and inside all belt guides.

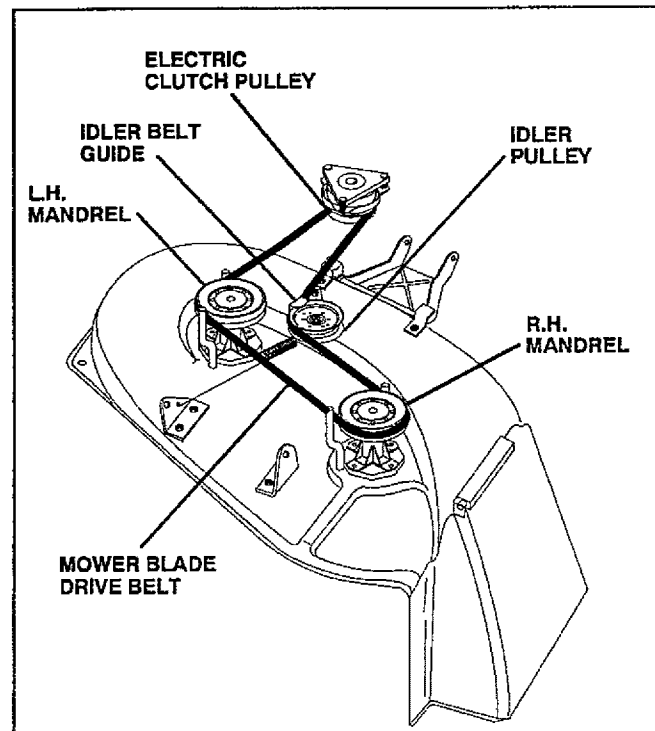


FIG. 25

# SERVICE AND ADJUSTMENTS

## TO ADJUST BRAKE (See Fig. 26)

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

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

- 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 unit for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest Sears Service Center.

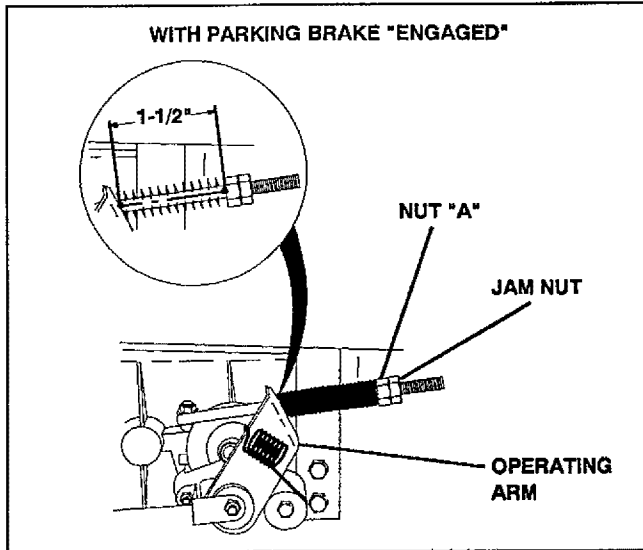


FIG. 26

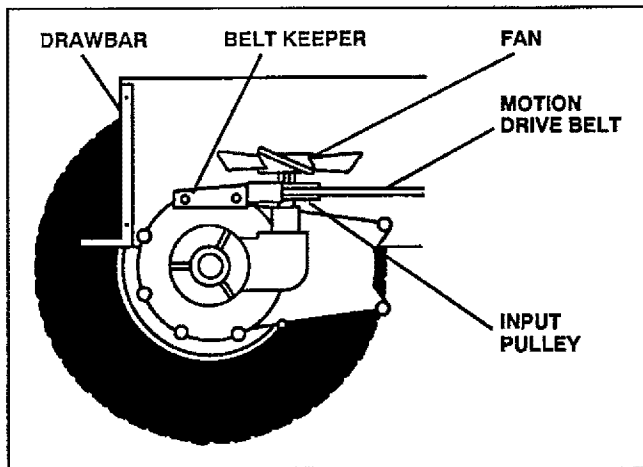


FIG. 27

## TO REPLACE MOTION DRIVE BELT (See Figs. 27 and 28)

Park the tractor on level surface. Engage parking brake. For ease of service, remove rear drawbar from chassis and belt keeper from transmission input pulley. 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 belt from stationary idler and clutching idler.
- Remove clutch locator
- Disconnect clutch wire harness.
- Rotate clutch assembly enough to allow belt to be removed downwards off engine pulley, under belt keeper, and around clutch assembly.
- Remove belt carefully upwards from transmission input pulley and over cooling fan blades.
- Install new belt by reversing above procedure.

**IMPORTANT:** REPLACE ONLY WITH BELT LISTED IN THIS MANUAL.

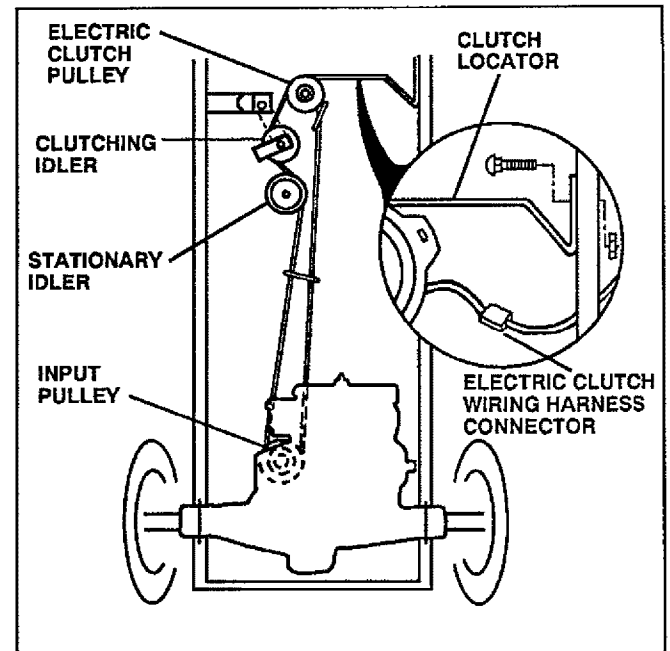


FIG. 28

# SERVICE AND ADJUSTMENTS

## TO ADJUST MOTION CONTROL LEVER (See Fig. 29)

"NEUTRAL" position of the motion control lever has been preset at the factory and adjustment should not be necessary.

If your unit tends to "creep" when the motion control lever is in "NEUTRAL" position, adjust the neutral lever position as follows:

### FORWARD ADJUSTMENT-

- Drive unit forward on a level surface.
- Move motion control lever to the left and back until it stops against forward adjustment plate and release lever.
- If unit "creeps" forward or backward, turn engine off and set parking brake.
- From underside of fender, loosen the two (2) bolts securing forward adjustment plate and move plate 1/16" opposite the direction the unit "creeps":
  - Forward "creep", move plate backwards 1/16 inch.
  - Reverse "creep", move plate forward 1/16 inch.
- Retighten bolts securely.
- Repeat forward drive test and, if necessary, readjust until "creep" is eliminated.

### REVERSE ADJUSTMENT-

- Drive unit in reverse on a level surface.
- Move motion control lever to the right and forward until it stops against reverse adjustment plate and release lever.
- If unit "creeps" forward or backward, turn engine off and set parking brake.
- Loosen and move reverse adjustment plate in the same manner as forward adjustment plate described above:
  - Forward "creep", move plate backwards 1/16 inch.
  - Reverse "creep", move plate forward 1/16 inch.
- Retighten bolts securely.
- Repeat reverse drive test and, if necessary, readjust until "creep" is eliminated.

If "creep" cannot be eliminated by the above adjustments, contact your nearest Sears Service Center.

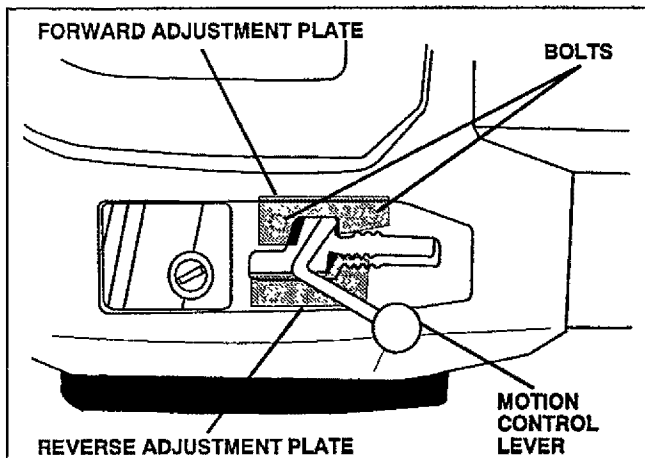


FIG. 29

## 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 unit. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest Sears Service Center.

## TO REMOVE WHEEL FOR REPAIRS (See Fig. 30)

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

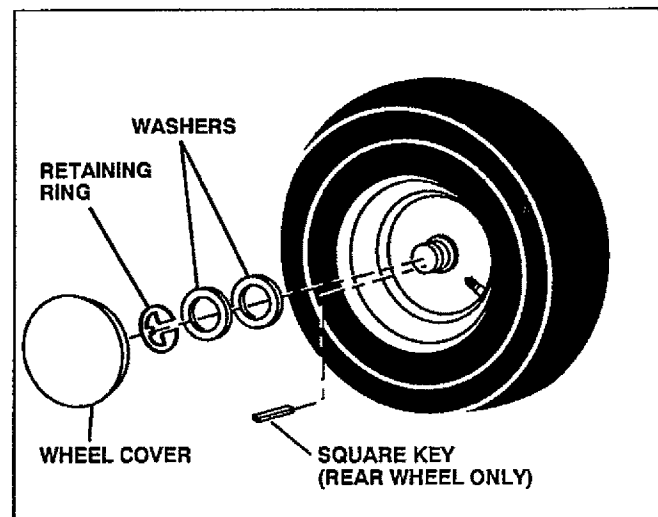


FIG. 30

# SERVICE AND ADJUSTMENTS

## TO START ENGINE WITH A WEAK BATTERY (See Figs. 31 & 32)



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

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

**IMPORTANT:** YOUR UNIT IS EQUIPPED WITH A 12 VOLT NEGATIVE 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 NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to a panel bolt on the left side of the chassis, away from fuel tank and battery.

### TO REMOVE CABLES, REVERSE ORDER -

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

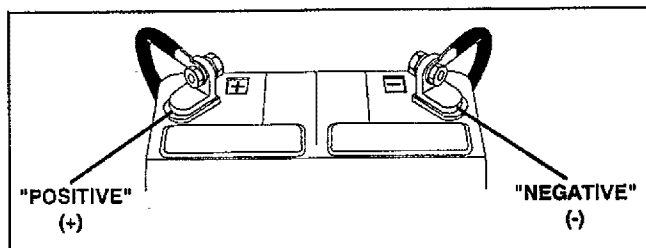


FIG. 31

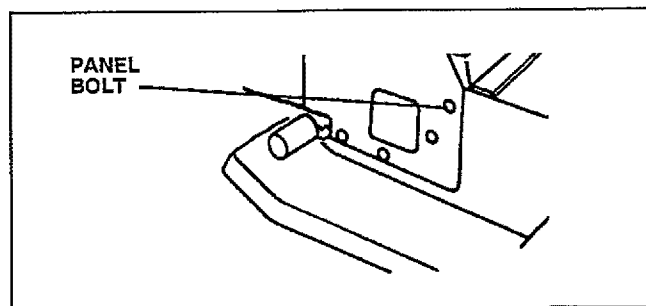


FIG. 32

## TO REPLACE FUSE (See Fig. 33)

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located in the engine compartment, directly in front of the heat shield.

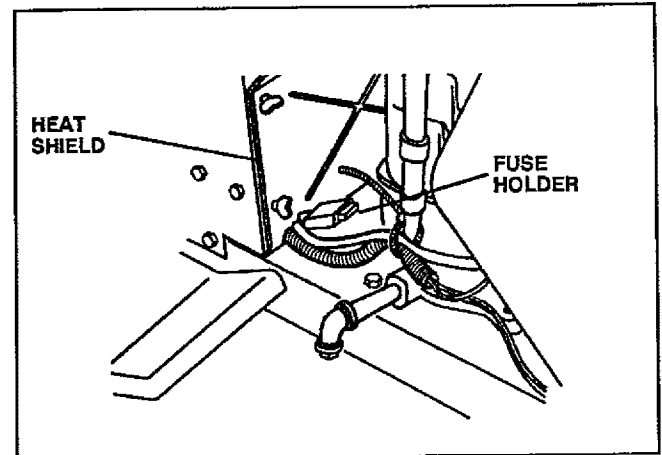


FIG. 33

## 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.



# SERVICE AND ADJUSTMENTS

## TO REMOVE HOOD AND GRILL ASSEMBLY (See Figs. 34 and 35)

- Raise hood.
- Unsnap headlight wire connector.
- Carefully remove springs from hinge brackets.
- Stand at side of tractor. Grasp hood, tilt forward and lift off hinge brackets.
- To reinstall, slide hood pivot rod into slot in hinge brackets, and carefully reinstall hood springs.

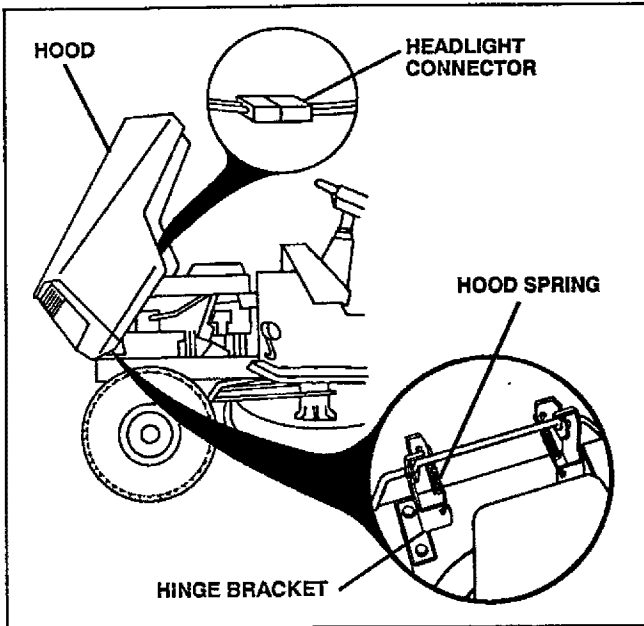


FIG. 34

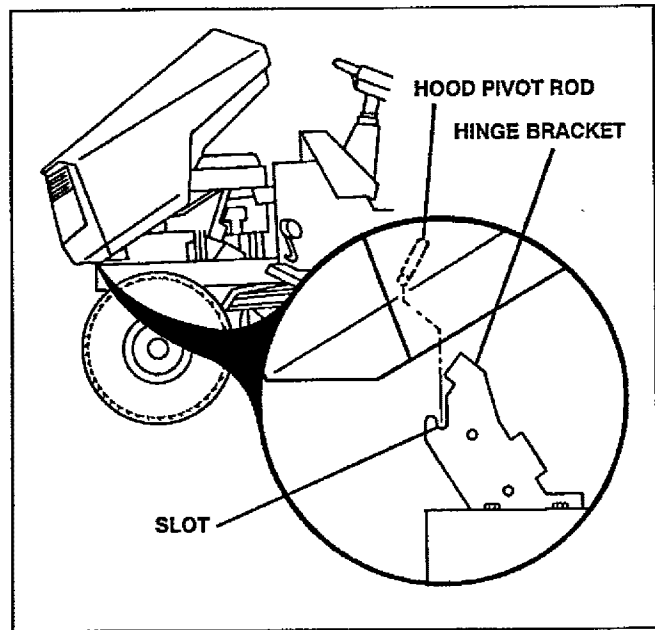


FIG. 35

# SERVICE AND ADJUSTMENTS

## ENGINE

### TO ADJUST THROTTLE CONTROL CABLE (See Fig. 36)

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 from "SLOW" to "CHOKE" position. Slowly move lever from "CHOKE" to "FAST" position.
- Check to see if hole in throttle lever and hole in speed control bracket are aligned.
- If holes are not aligned, loosen cable clamp screw and align the holes by inserting a pencil or a 1/4" drill bit through both holes.
- Pull throttle cable up to remove slack and tighten cable clamp screw. Remove alignment pencil or drill bit.

### TO ADJUST CARBURETOR (See Fig. 37)

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 adjusting needles in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles 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 NEEDLE IS TURNED IN TOO TIGHT.

#### PRELIMINARY SETTING -

- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- With engine off turn idle fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 turn.

#### FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in "NEUTRAL" position.
- Idle speed setting - With throttle control lever in "SLOW" position, engine should idle at 1625 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting - With throttle control lever in "SLOW" position, turn idle fuel adjusting needle in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Recheck idle speed. Readjust if necessary.

#### ACCELERATION TEST -

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

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

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

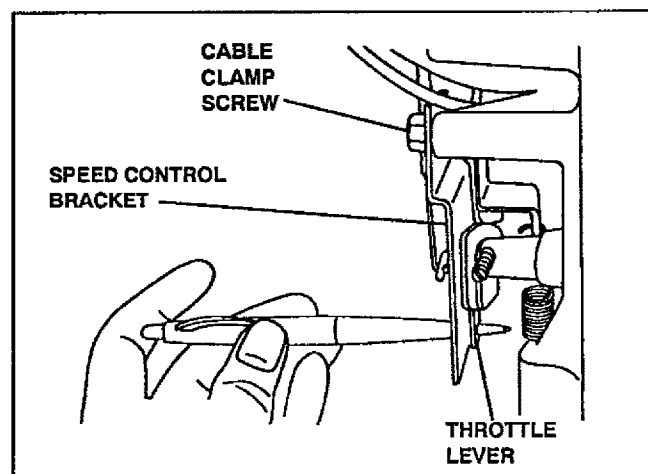


FIG. 36

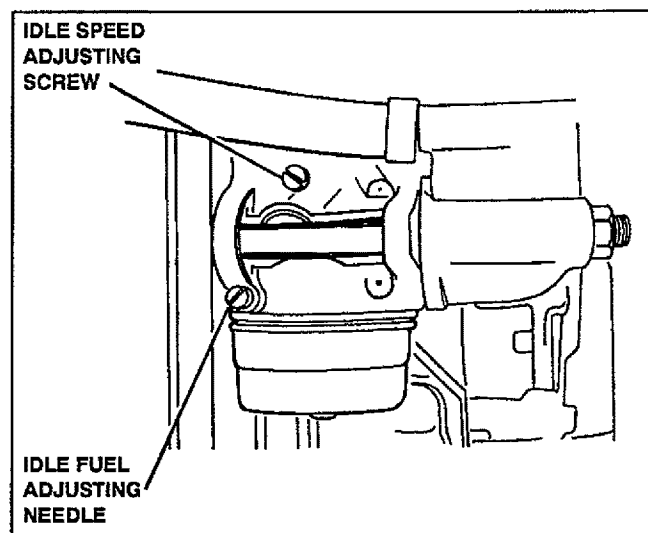


FIG. 37

# STORAGE

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



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

## TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Give blades and underside of housing a good coat of grease or rust preventative. Store in a clean, dry area.

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

## BATTERY

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

## ENGINE FUEL SYSTEM

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

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

**NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. 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 Maintenance section of this manual).

## CYLINDERS

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

## OTHER

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

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

# TROUBLESHOOTING POINTS

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

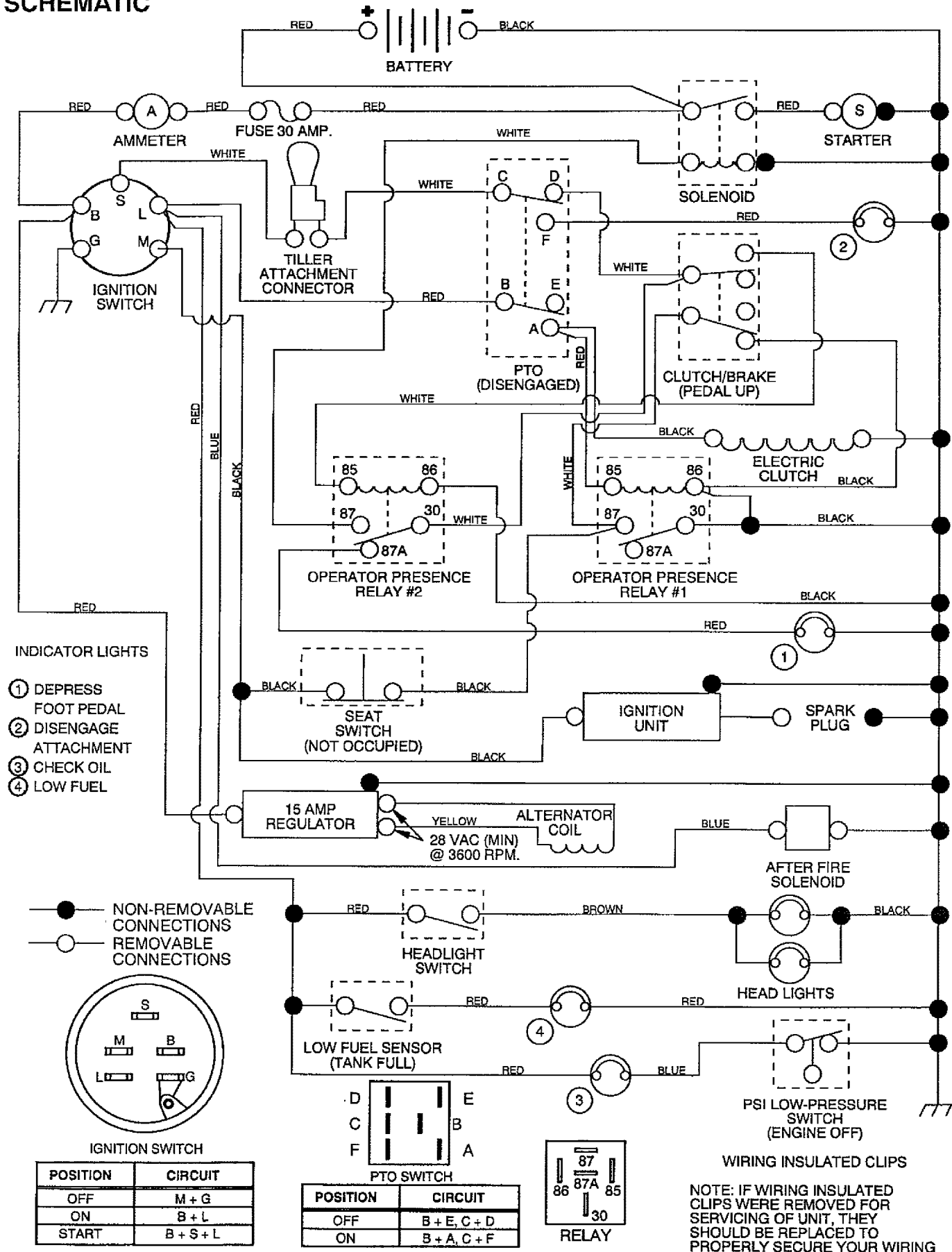
# TROUBLESHOOTING POINTS

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

# SERVICE NOTES

# 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

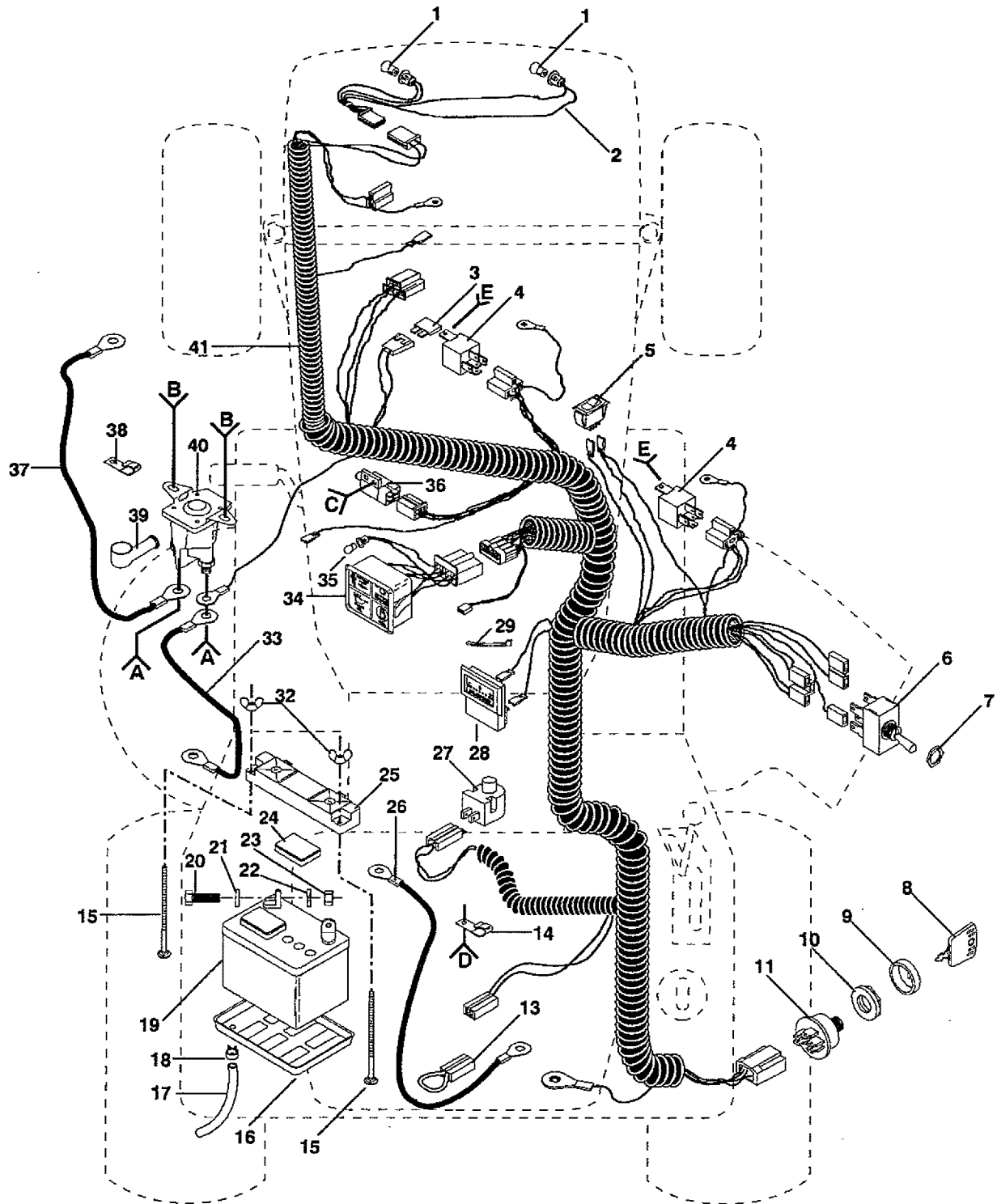
## SCHEMATIC



# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

## ELECTRICAL





# REPAIR PARTS

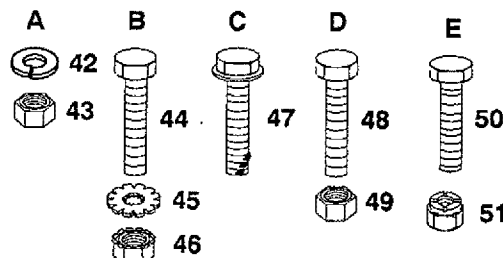
## 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

### ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	7662J	Bulb, Light	28	121422X	Ammeter
2	127441	Harness, Light Socket	29	7192J	Tie, Cable
3	108824X	Fuse, 30 Amp	32	123198X	Nut, Wing 1/4-20
4	109748X	Relay	33	4799J	Cable, Battery
5	110712X	Switch, Light	34	126835X	Assembly, Light Package
6	126019X	Switch, PTO	35	110143X	Bulb, Dashboard Light
7	4022J	Nut, Hex	36	109553X	Switch, Interlock, Clutch Pedal
8	109310X	Molded Key	37	5114J	Cable, Starter
9	123620X	Cover, Key Switch	38	2751R	Clip, Fuel Line
10	124211X	Ignition, Nut	39	719J	Cover, Terminal
11	102972X	Switch, Ignition	40	109081X	Solenoid
13	102501X	Wire, Loop	41	126773X	Harness, Ignition
14	235R	Clip, Insulator	42	STD551125	*Washer, Lock 1/4
15	STD532575	*Bolt, Carriage 1/4-20 x 7-1/2	43	STD541225	*Nut, Jam 1/4-20
16	7603J	Tray, Battery	44	STD522505	*Bolt, Hex 1/4-20 x 1/2 Gr. 5
17	105687X	Tube, Battery Tray	45	STD551225	*Washer, Lock Ext. Tooth 1/4
18	109596X	Clamp, Hose	46	STD541425	*Nut, Keps 1/4-20
19	125603X	Battery	47	STD601005	*Screw, Hex, Tap 10-24 x 1/2
20	STD522507	*Bolt, Hex 1/4-20 x 3/4	48	74780408	Bolt, 1/4-20 x 1/2
21	STD551025	*Washer 9/32 x 5/8 x 16 Ga.	49	73680400	Nut, Crownlock 1/4-20
22	STD551125	*Washer, Lock 1/4	50	74760512	Bolt, Hex Hd. 5/16-18 x 3/4
23	STD541025	*Nut, Hex 1/4-20	51	73680500	Nut, Crownlock 5/16-18
24	121264X	Caps, Battery	--	128343	Manual, Owner's
25	102476X	Guard, Terminal	--	101539X	Sheet, Instruction, Tractor 15° Slope
26	4207J	Cable, Ground	--	120960X	Decal, Battery
27	121305X	Switch, Seat			

\*STANDARD HARDWARE - - PURCHASE LOCALLY

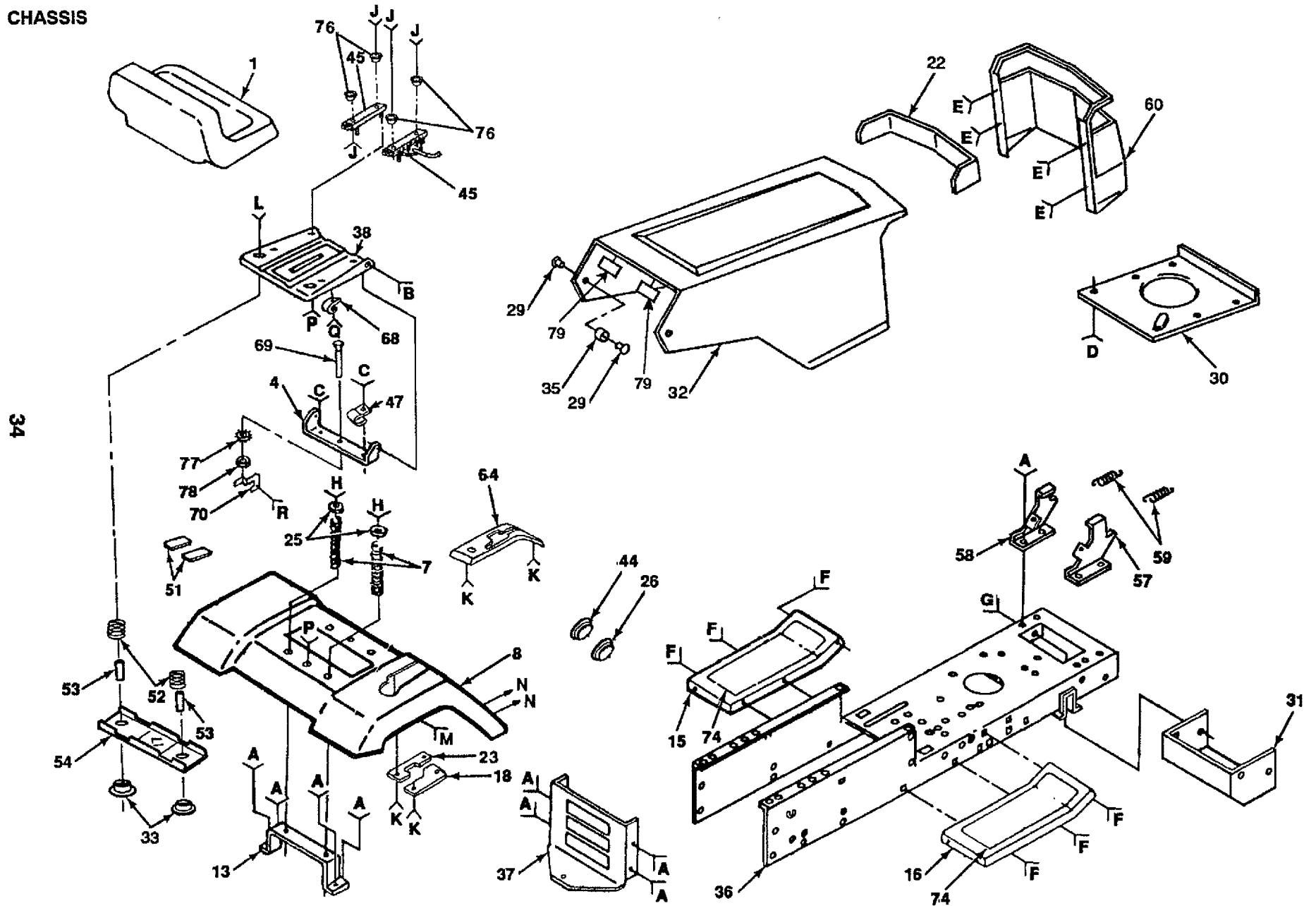
NOTE: All component dimensions given in U.S. inches  
1 inch = 25.4 mm



# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

## CHASSIS



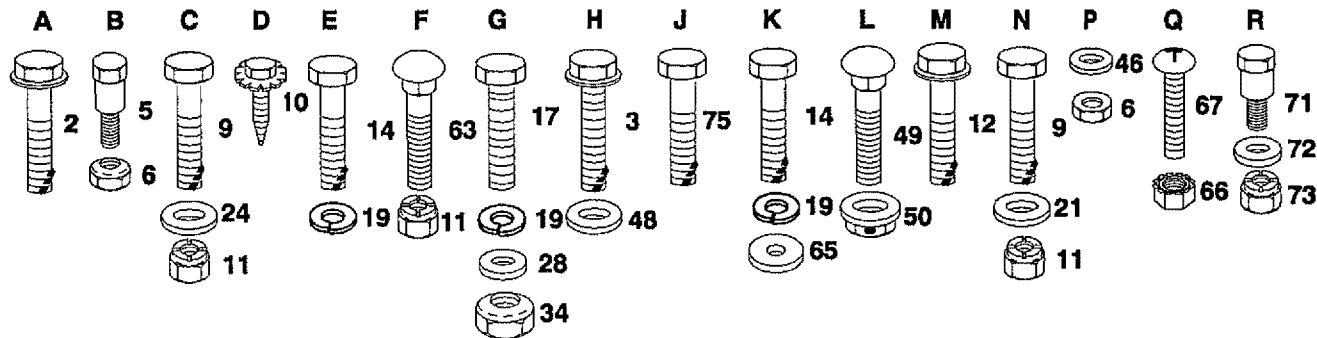
# REPAIR PARTS

## 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

### CHASSIS

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	126826X	Seat	28	19091416	Washer 9/32 x 7/8 x 16 Ga.	68	4171R	#10-32 x 1/2
2	17490612	Screw, Hex, Washer Hd. Thrd. Roll 3/8-16 x 3/4	29	122933X	Rivet, Ratchet, Nylon	69	126654X	Clip, Insulated Control, Bypass
3	17490616	Screw, Hex, Washer Hd. Thrd. Roll 3/8-16 x 1	30	126842X	Shield, Hood, Heat	70	126575X	Arm, Bypass Control
4	126656X	Bracket, Pivot, Seat	31	123665X	Deflector, Heat	71	7605J	Bolt, Shoulder 1/4-20 UNC
5	105529X	Bolt, Shoulder 5/16-18	32	124025X459	Hood Assembly	72	110739X	Washer, Spring
6	STD541431	* Nut, Crownlock 5/16-18	33	121248X	Bushing, Snap	73	73680400	Nut, Crownlock 1/4-20 UNC
7	124181X	Spring, Seat	34	126850X	Nut, Self Retaining 1/4-20	74	105466X	Pad, Footrest
8	126599X459	Fender	35	124479X	Washer, Black, Nylon	75	17190516	Screw, Hex 5/16-18 x 1
9	STD523707	* Bolt, Fin Hex 3/8-16 x 3/4	36	127167X	Chassis Assembly	76	124427X	Spacer
10	17030808	Screw, Spiderlock Hex #8 x 1/2 AB	37	127866	Drawbar	77	STD551237	* Washer, Lock Ext. Tooth 3/8
11	STD541437	* Nut, Crownlock 3/8-16	38	124294X	Pan, Seat	78	73610600	Nut, Fin Hex 3/8-24 UNF
12	17490608	Screw, Hex Washer Hd. Thrd. Roll 3/8-16 x 1/2	44	9151R	Grommet	79	126938X	Bumper, Hood
13	109873X	Bracket, Fender	45	124428X	Slide, Set Seat	—	126778X	Decal, 12.5 HP OHV (Hood Slide)
14	STD512505	* Bolt, Fin Hex 1/4-20 x 1/2	46	19111610	Washer 11/32 x 1 x 10 Ga.	—	126783X	Decal, Rear Fender
15	105465X459	Footrest, L.H.	47	2751R	Clip, Fuel Line	—	126779X	Decal, Grill, Front
16	105464X459	Footrest, R.H.	48	19131614	Washer 13/32 x 1 x 14 Ga.	—	4900J	Decal, Clutch/Brake
17	74760412	Bolt, Hex 1/4-20 x 3/4	49	72050411	Bolt, Carriage 1/4-20 x 1-3/8	—	126780X	Decal, Chassis Side, 38"
18	126597X	Plate, Neutral, Adjust R.H.	50	123976X	Nut, Hex Large Flange, Lock Strip, Foam	—	121215X	Decal, Belt Installation (Under Footrest)
19	STD551125	* Washer, Lock, Hvy Helical Spring	51	121251X	Spring, Seat Compression	—	126776X	Decal, Stripe, (Hood L.H.)
21	19131312	Washer 13/32 x 13/16 x 12 Ga.	52	123740X	Spacer	—	126777X	Decal, Stripe, (Hood R.H.)
22	124029X	Lens Assembly	53	130481	Bracket, Switch Mount	—	106974X	Decal, Caution (Front Fender)
23	126598X	Plate, Neutral, Adjust L.H.	54	121246X	Bracket, Pivot, R.H.	—	127520	Decal, USA (Rear Fender)
24	19131210	Washer 13/32 x 3/4 x 10 Ga.	57	123913X	Bracket, Pivot, L.H.	—	108631X	Decal II
25	124238X	Cap, Spring	58	123914X	Spring, Extension	—	131265	Decal, Light box
26	110436X	Grommet, Split	59	124040X	Grill	—	126779X	Decal, Grill
			60	126741X	* Bolt, Carriage 3/8-16 x 3/4			
			63	STD533707	Console, Shift, Fender Hydro			
			64	126600X	* Washer 9/32 x 3/4 x 16 Ga.			
			65	STD551025	Nut, Keps #10-32 UNF			
			66	73951000	* Screw, Slotted Pan Head			
			67	STD511005				

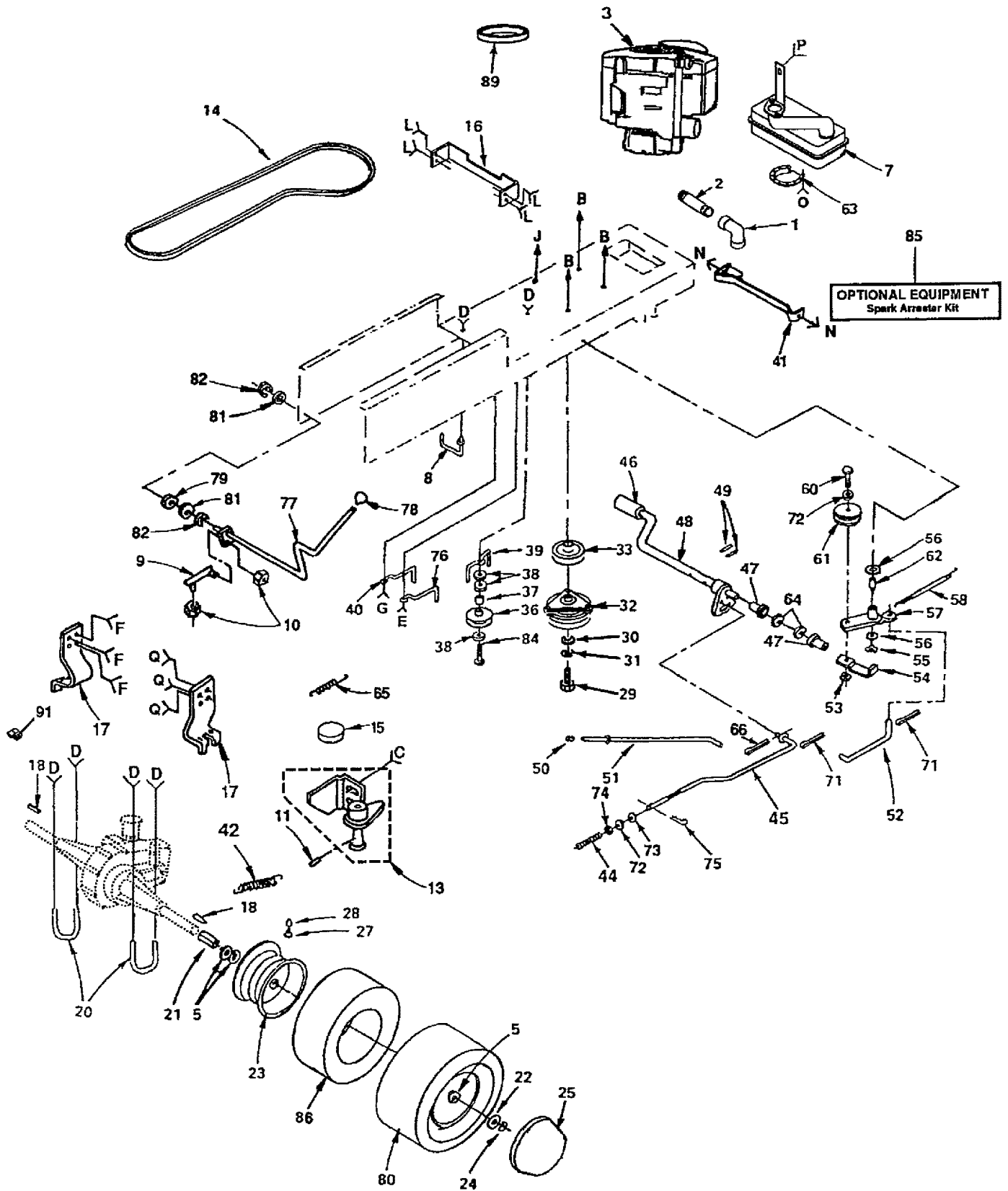
\*STANDARD HARDWARE-PURCHASE LOCALLY  
 NOTE: All component dimensions given in U.S. inches.  
 1 inch = 25.4 mm



# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

DRIVE



# REPAIR PARTS

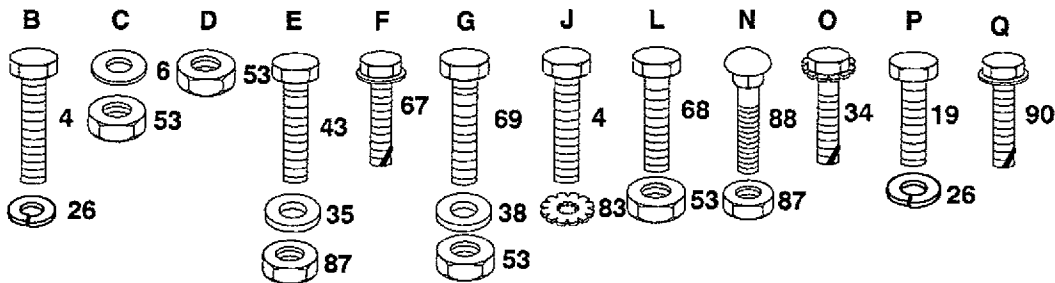
## 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

### DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	13200300	Elbow, 90° 3/8-18 NPT	49	STD571810	* Pin, Roll 3/16 x 1
2	13280336	Nipple, Pipe	50	7733J	Cap, Plunger
3	126784X	Engine 12.5 HP Model No. CV12.5S Type No. 1438	51	125638X	Rod, Brake, Park
4	M010208025	Screw M8 x 1-1/4 x 25mm	52	105710X	Link, Clutch
5	121749X	Washer 25/32 x 1-1/4 x 16 Ga.	53	STD541437	* Nut, Lock 3/8-16
6	19131216	Washer 13/32 x 3/4 x 16 Ga.	54	123205X	Retainer, Belt
7	124196X	Muffler	55	12000039	Ring, Klip
8	126577X	Keeper, Centerspan	56	110812X	Washer, Hardened
9	126589X	Link, Pump Control	57	123789X	Arm, Idler
10	73040400	Nut 1/4-28 Nylock	58	105709X	Spring, Return, Clutch
11	126655X	Pin, Roll, Metric	60	STD523715	* Bolt, Hex 3/8-16 x 1-1/2
13	126912X	Assembly, Friction Pack	61	127783	Pulley, Idler
14	126576X	V-Belt, Drive	62	105706X	Bearing
15	121232X	Cap, Spindle	63	101326L	Deflector, Muffler
16	121187X	Bracket, Mounting, Hydro	64	19211616	Washer 21/32 x 1 x 16 Ga.
17	126649X	Bracket, Transaxle	65	126910X	Spring, Extension
18	123583X	Key, Square 2.5 x .1845/.1865	66	17490612	Retainer, Spring
19	74760508	Bolt, Hex 5/16-18 x 1/2	67	17490616	Screw, Hex, Washer Hd. Thrd. Roll 3/8-16 x 1
20	121189X	U-Bolt 3/8-16 x 2-7/8	68	STD523707	* Bolt, Fin Hex 3/8-16 x 3/4 UNC
21	121199X	Spacer, Split	69	STD523710	* Bolt, Hex 3/8-16 x 1
22	121748X	Washer 25/32 x 1-5/8 x 16 Ga.	71	STD561210	* Pin, Cotter 1/8 x 3/4
23	106108X480	Rim, Rear	72	STD551037	* Washer 13/32 x 13/16 x 16 Ga.
24	STD581075	* E-Ring	73	STD541437	* Nut, Lock Hex W/Washer Insert 3/8-16
25	128342	Cover, Wheel	74	STD541237	* Nut, Hex Jam 3/8-16
26	STD551131	* Washer, Lock, Hvy Helical Spring	75	4497H	Clip, Hairpin
27	65139	Stem, Valve	76	105730X	Keeper, Belt, Engine
28	59192	Cap, Valve	77	126592X	Lever, Control Assembly
29	M010110100	Bolt, Hex M10 x 1.5 x 100	78	126639X	Grip, Knob
30	126197X	Washer 15/32 ID x 1-1/2 OD x 1/4	79	126590X	Bushing, Pivot L.H.
31	STD551143	* Washer, Lock 7/16	80	126811X	Tire, Rear
32	108218X	Clutch, Electric	81	126591X	Washer, Shim
33	109841X	Pulley, Engine	82	STD581050	* E-Ring
34	17030808	Screw, Spiderlock, Hex #8 x 1/2	83	STD551231	* Washer, Lock External Tooth
35	19111212	Washer 11/32 x 3/4 x 12 Ga.	84	STD523727	* Bolt, Hex 3/8-16 x 2-3/4
36	123674X	Idler, Flat	85	121851X	Spark Arrester Kit
37	4470J	Spacer	86	7152J	Tube (not furnished with tractor)
38	19131312	Washer 13/32 x 13/16 x 12 Ga.	87	STD541431	* Nut, Lock 5/16-18
39	109070X	Keeper, Belt	88	STD533107	* Bolt, Carriage 5/16-18 x 3/4
40	121218X	Keeper, Belt, Engine L.H.	89	127073X	Strip, Foam
41	109169X	Locator, Clutch	90	17490612	Screw, Hex Wsh. Thdrl. 3/8-16 x 3/4
42	110422X	Spring, Brake Return	91	2751R	Clip, Insulated
43	74760516	Bolt, Hex 5/16-18 x 1	—	126779X	Decal, Wheel Cover
44	106888X	Spring, Rod Brake			
45	126634X	Rod, Brake			
46	123533X	Cover, Pedal			
47	120183X	Bearing, Nylon			
48	122424X	Shaft, Foot Pedal Assembly			

\*STANDARD HARDWARE - - PURCHASE LOCALLY

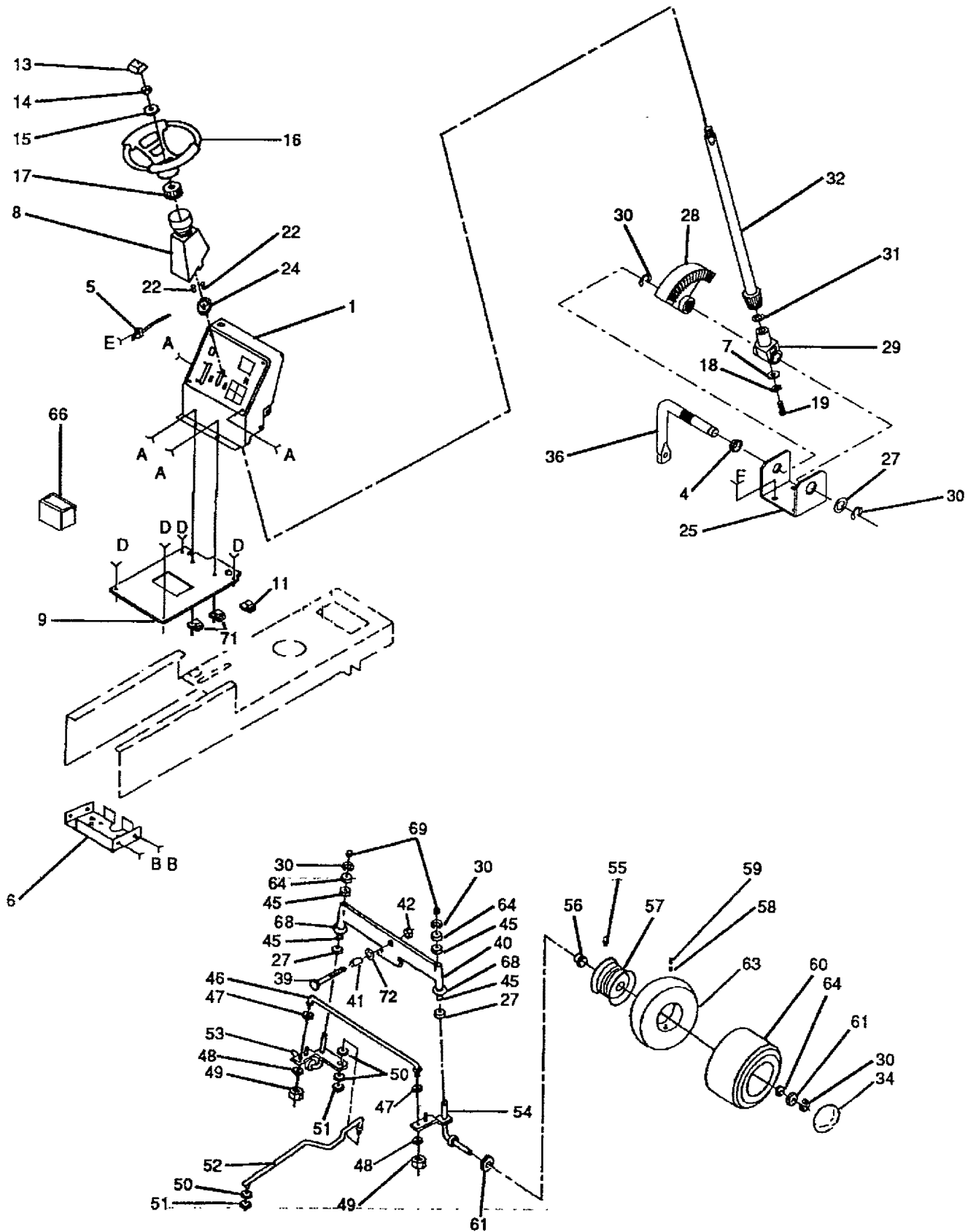
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# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

## STEERING AND FRONT AXLE



# REPAIR PARTS

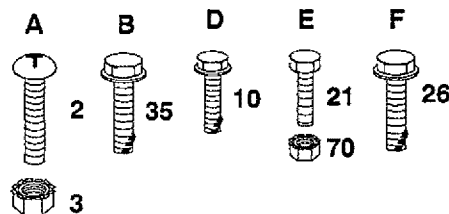
## 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

### STEERING AND FRONT AXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	126532X	Dash	40	105669X	Axle, Front
2	74180512	Screw, Truss Head 5/16-18 x 3/4	41	110438X	Spacer, Bearing, Front Axle
3	STD541431	* Nut, Keps 5/16-18	42	73601000	Locknut, Flange 5/18-16
4	109816X	Nyliner, Snap In	45	3366R	Bearing
5	126235X	Control, Throttle	46	121334X	Rod, Tie
6	108171X	Support, Battery	47	19111216	Washer 11/32 x 3/4 x 16 Ga.
7	126684X	Washer 5/8 x 1/4 x 16 Ga.	48	STD551131	* Washer, Lock Hvy. Helical Spring
8	124417X	Boot, Steering Shaft	49	STD541531	* Nut, Hex, Nylon 5/16-24 UNF
9	126709X	Saddle	50	STD551137	* Washer, Lock 3/8
10	17490608	Screw, Hex Washer Hd. Thrd. Roll 3/8-16 x 1/2	51	73610600	Nut, Fin Hex 3/8-24 UNF
11	2751R	Clip, Insulated	52	128122	Link, Drag
13	126805X	Insert, Steering Wheel	53	105656X	Spindle, L.H.
14	STD541350	* Nut, Lock, Hex, Jam 1/2-20	54	130524	Spindle, R.H.
15	100712K	Washer 2-1/4	55	278H	Fitting, Grease
16	121472X	Wheel, Steering	56	9040H	Bearing, Grease
17	100711L	Adapter, Steering Wheel	57	106732X480	Rim, 6" Front
18	STD551125	* Washer, Lock 1/4	58	59192	Cap, Valve
19	71070410	Screw, Socket Hex 1/4-20 x 5/8	59	65139	Stem, Valve
21	71141008	Screw #10-24 x 1/2	60	126810X	Tire, Front
22	STD611005	* Screw, Hex Tapping #10-16 x 1/2	61	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
24	124373X	Bushing, Steering	63	59904	Tube, Front (Not furnished with tractor)
25	124036X	Bracket, Steering	64	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
26	17490612	Screw, Hex Washer Hd. Thrd. Roll 3/8-16 x 3/4 Type TT	66	126641X	Tool Box, Limited
27	6266H	Bearing, Thrust	68	19272016	Washer 27/32 x 1-1/4 x 16 Ga.
28	124034X	Gear, Sector	69	121232X	Cap, Spindle
29	124035X	Shaft, Support	70	73731000	Nut, Keps #10-24 UNC
30	12000029	Ring, Klip	71	126471X	Clip, Insulated
31	57079	Washer, Hardened	72	19212010	Washer 21/32 x 1-1/4 x 10 Ga.
32	128752	Shaft, Steering,	—	108456X	Decal, Instruction (Dash Panel)
34	128341	Cover, Wheel	—	126775X	Decal, Dash Panel
35	17490512	Screw, Hex Washer Hd. Thrd. Roll 5/16-18 x 3/4	—	126779X	Decal, Wheel Cover
36	124033X	Shaft, Pittman	—	126781X	Decal, Parking Brake (Dash Panel)
39	74761060	Bolt, Hex 5/8-11x 3-3/4	—	126782X	Decal, Steering Wheel Cap

\*STANDARD HARDWARE - - PURCHASE LOCALLY

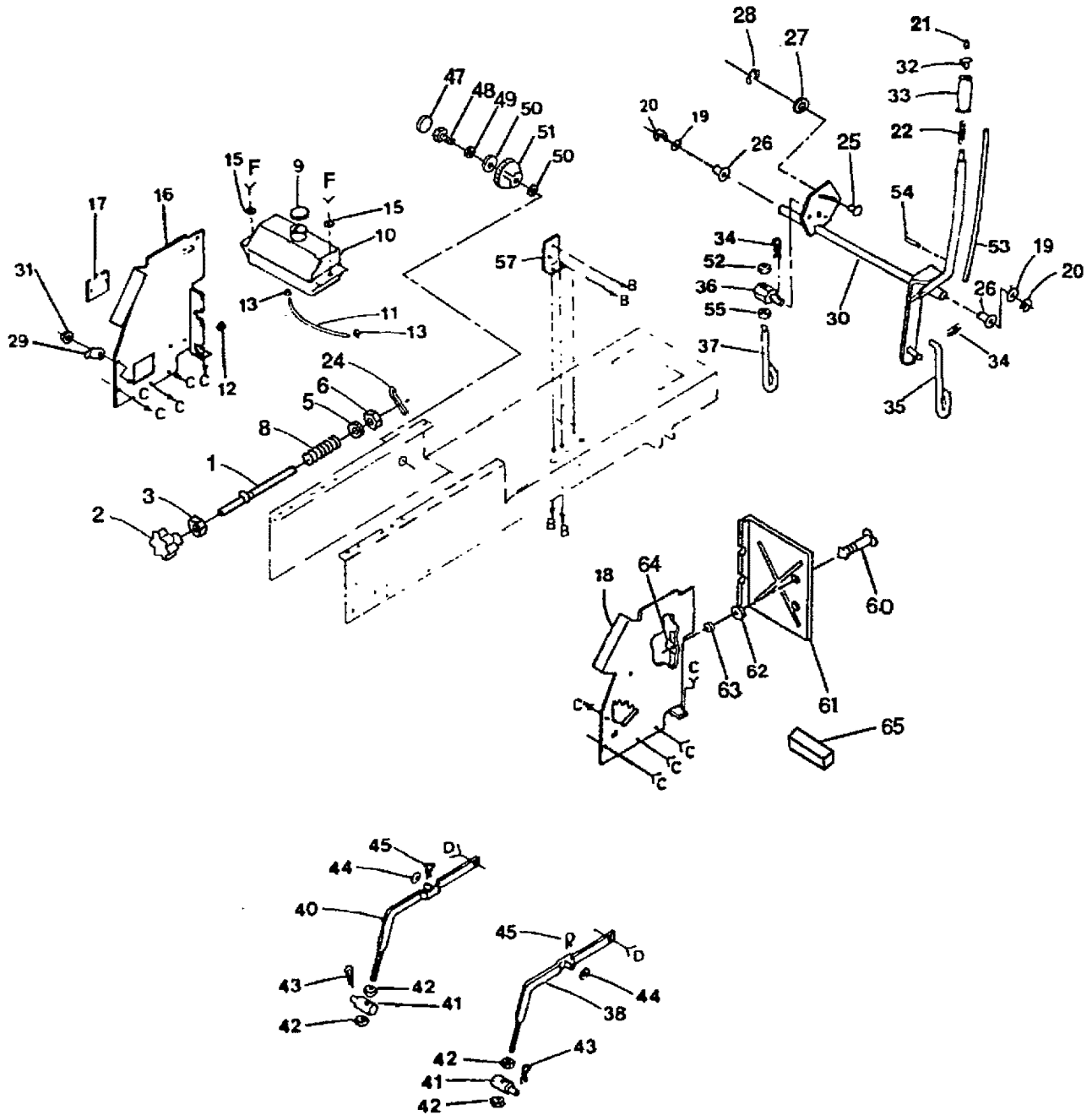
NOTE: All component dimensions given in U.S. inches  
1 inch = 25.4 mm



# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

## LIFT ADJUSTMENT





# REPAIR PARTS

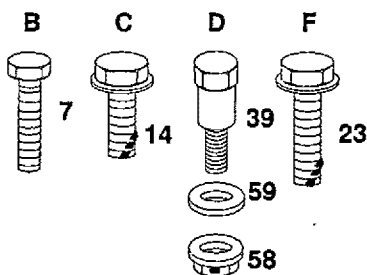
## 12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

### LIFT ADJUSTMENT

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	126971X	Rod, Lift, Adjustment	34	4939M	Retainer, Spring
2	126652X	Knob, Height Adjust	35	110029X	Link, Lift
3	STD541237	* Nut, Hex, Jam 3/8-16	36	110447X	Trunnion, Lift
5	19131016	Washer 13/32 x 5/8 x 16 Ga.	37	110448X	Link, Lift, Adjustable
6	110807X	Nut, Special	38	121598X	Arm, Suspension R.H.
7	STD601005	* Screw, Hex, Tapping, #10-24 x 1/2	39	105848X	Bolt, Shoulder 3/8-16
8	2876H	Spring	40	121599X	Arm, Suspension L.H.
9	123549X	Cap, Fuel	41	106308X	Trunnion, Lift, Lower
10	126798X	Tank, Fuel	42	STD541050	* Nut, Hex 1/2-13
11	101335K	Line, Fuel	43	9135R	Retainer, Spring
12	124028X	Grommet	44	19171516	Washer 17/32 x 15/16 x 16 Ga.
13	123487X	Clamp, Hose	45	4921H	Retainer, Spring
14	17490608	Screw, Hex Washer Thrd. Roll 3/8-16 x 3/4	47	123935X	Plug, Hole
15	19091416	Washer 9/32 x 7/8 x 16 Ga.	48	74780516	Bolt, Hex Fin 5/16-18UNC x 1
16	122795X	Panel, Dash L.H.	49	STD551131	* Washer, Lock Hvy Helical Spring
17	121794X	Cover, Access	50	19112410	Washer 11/32 x 1-1/2 x 10 Ga.
18	126276X	Panel, Dash R.H.	51	123934X	Scale, Height Indicator
19	19211416	Washer 21/32 x 7/8 x 16 Ga	52	73710700	Nut, Crownlock 7/16-20
20	STD581062	* E-Ring	53	122514X	Rod, Assembly, Lever
21	124385X	Button, Plunger	54	105767X	Pin, Groove
22	122512X	Spring, Compression	55	STD541343	* Nut, Hex Jam 7/16-20
23	17490412	Screw, Hex Washer Thrd. Roll 1/4-20 x 3/4	56	STD533707	* Screw 3/8-16 x 3/4
24	STD560907	* Pin, Cotter	57	108236X	Bracket, Switch
25	110810X	Trunnion, Depth Stop	58	73980600	Nut, Flangelock 3/8-16
26	120183X	Bearing, Nylon	59	110739X	Washer, Spring
27	19151216	Washer 15/32 x 3/4 x 16 Ga.	60	123650X	Stud, 1/4 Turn
28	12000037	Ring, Klip	61	105736X	Shield, Heat
29	123933X394	Pointer, Height Indicator	62	STD551025	* Washer 9/32 x 5/8 x 16 Ga.
30	122516X	Shaft, Lift	63	105838X	Retainer, 1/4 Turn
31	120529X	Washer, Nylon .44 x .75 x 032.	64	105839X	Receptacle, 1/4 Turn
32	122364X	Plunger	65	127073X	Strip, Foam
33	126640X	Grip, Handle	---	127074X	Decal, Lift Lever

\*STANDARD HARDWARE - - PURCHASE LOCALLY

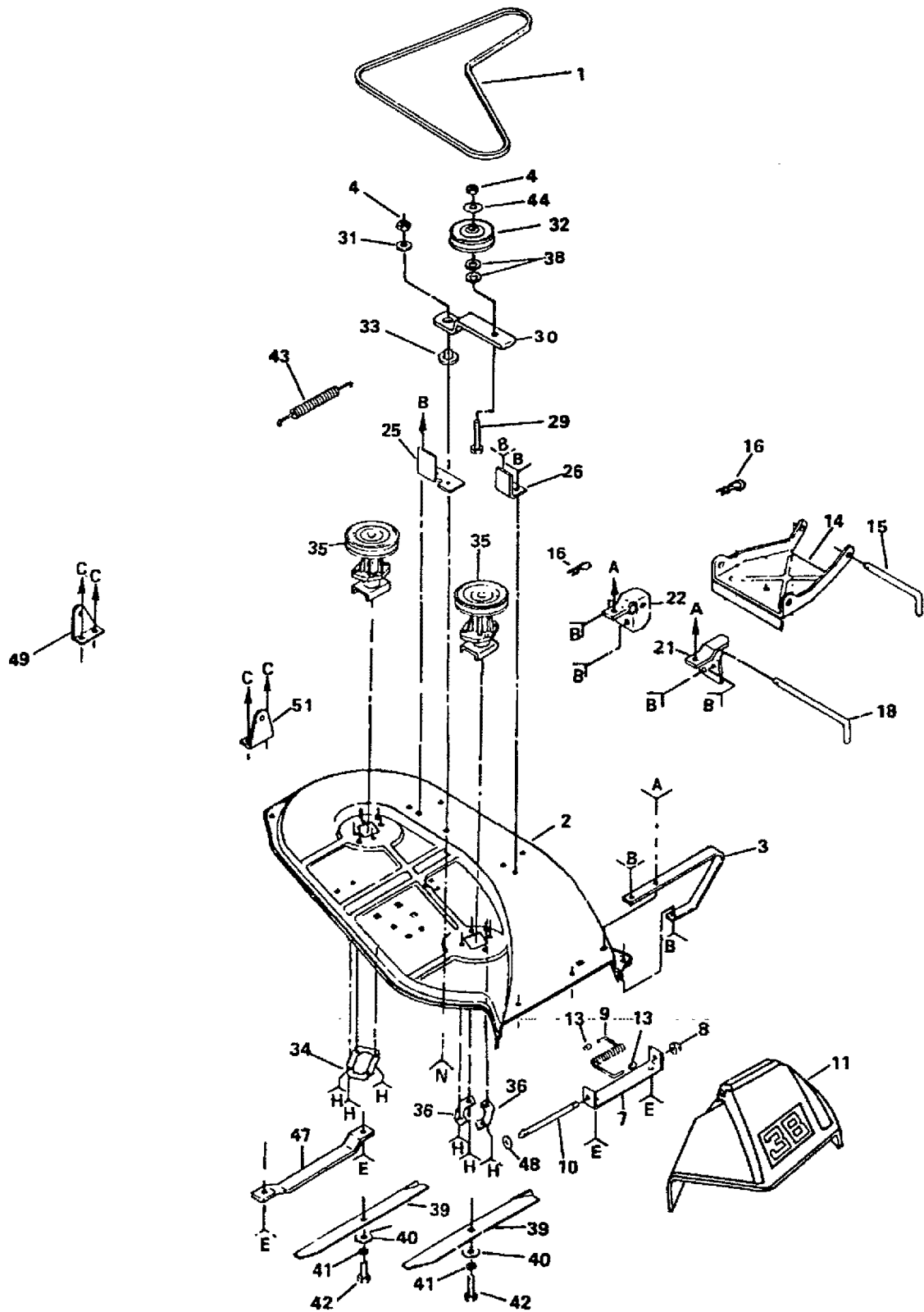
NOTE: All component dimensions given in U.S. inches  
1 inch = 25.4 mm



# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

38" MOWER



# REPAIR PARTS

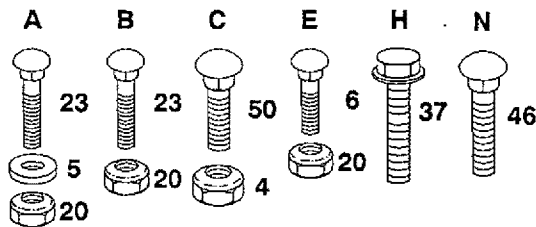
12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

38" MOWER

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	106085X	V-Belt	35	121687X	Mandrel Assembly
2	121458X	Housing	36	100668L	Plate, Support Mandrel
3	8417J	Runner, R.H.	37	17490620	Screw, Hex Washer Hd. Thrd. Roll 3/8-16 x 1-1/4
4	STD541437	* Nut, Lock 3/8-16	38	19131210	Washer 13/32 x 3/4 x 10 Ga.
5	19111216	Washer 11/32 x 3/4 x 16 Ga.	39	121263X	Blade
6	STD533106	* Bolt, Carriage 5/16-18 x 5/8	40	19132012	Washer 13/32 x 1-1/4 x 12 Ga.
7	105896X	Bracket, Deflector	41	STD551137	* Washer, Lock 3/8
8	110452X	Pushnut	42	STD623715	* Bolt, Hex 3/8-24 x 1-1/2 Gr. 5
9	106734X	Spring, Deflector	43	102727X	Spring, Extension
10	106735X	Rod, Hinge	44	STD551037	* Washer 13/32 x 13/16 x 16 Ga.
11	106736X	Deflector, Shield	46	STD533712	* Bolt, Carriage 3/8-16 x 1-1/4
13	105304X	Cap, Sleeve	47	7631J	Runner, L.H.
14	129762X	Link, Parallel	48	19111016	Washer 11/32 x 5/8 x 16 Ga.
15	105744X	Pin, Hinge, Front	49	108673X	Bracket, Susp., Rear, L.H.
16	4921H	Spring, Retainer	50	STD533707	* Bolt, Carriage 3/8-16 x 3/4
18	109835X	Pin, Hinge, Rear	51	105857X	Bracket, Susp., Rear, R.H.
20	STD541431	* Nut, Lock 5/16-18	--	108682X	Decal, Belt Installation
21	109598X	Bracket, Lift R.H.	--	3713J	Decal, Instruction, Caution
22	109597X	Bracket, Lift L. H.	--	121343X	Decal, Cut Finger
23	STD533107	* Bolt, Carriage 5/16-18 x 3/4	--	122217X	Replacement Deck Assembly (Complete)
25	109503X	Support, Arm			
26	109504X	Stop, Deck, Front			
29	STD523722	* Bolt 3/8-16 x 2-1/4			
30	127162X	Arm, Idler			
31	106902X	Spacer			
32	123688X	Pulley, Idler			
33	106513X	Washer, Wear 1/16"			
34	110445X	Plate, Support Mandrel L.H.			

\*STANDARD HARDWARE - - PURCHASE LOCALLY

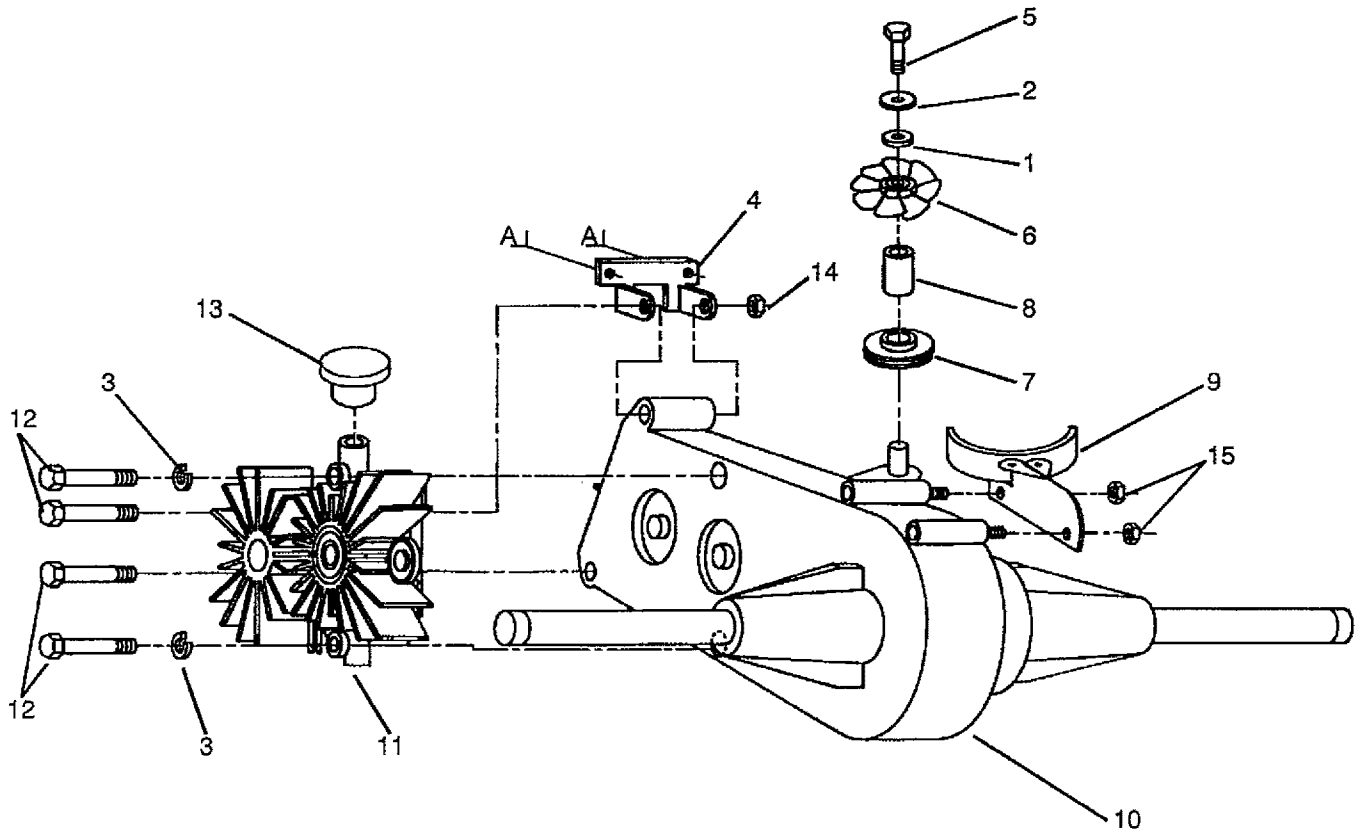
NOTE: All component dimensions given in U.S. inches  
1 inch = 25.4 mm



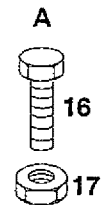
# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

## TRANSAXLE AND PUMP ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	19092016	Washer 9/32 x 1-1/4 x 16 Gauge
2	STD551125	* Washer, Lock, Heavy Helical Spring
3	STD551131	* Washer, Lock
4	121188X	Bracket, Pnt. Mounting, Differential
5	STD522507	* Bolt, Hex 1/4 - 20 UNC x 3/4
6	126578X	Fan, Hydro, 7"
7	126579X	Pulley, Transaxle
8	121211X	Standoff, Fan, Hydro
9	126581X	Guard Assembly, Belt
10	---	Differential Assembly (See pages 46 & 47)
11	---	Pump Assembly (See page 45)
12	STD523145	* Bolt, Hex, Fin 5/16 - 18 UNC x 4.5
13	121323X	Reservoir Pump
14	STD541431	* Nut, Crownlock 5/16 - 18
15	73680400	Nut, Crownlock 1/4 - 20 UNC
16	STD523707	* Bolt 3/8 - 16 x 3/4
17	STD541437	* Nut 3/8 - 16 UNC



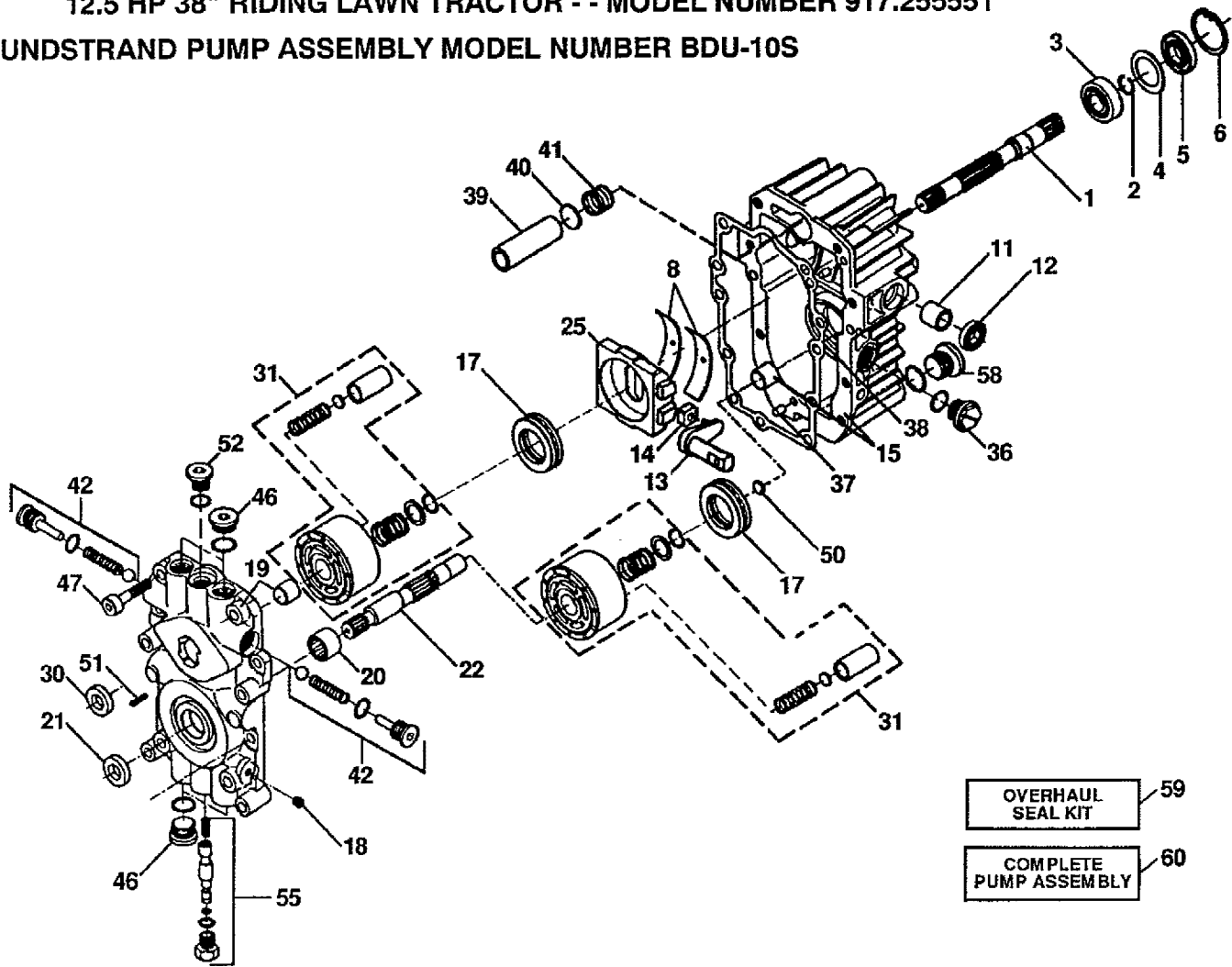
\*STANDARD HARDWARE - - PURCHASE LOCALLY

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

# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

SUNDSTRAND PUMP ASSEMBLY MODEL NUMBER BDU-10S



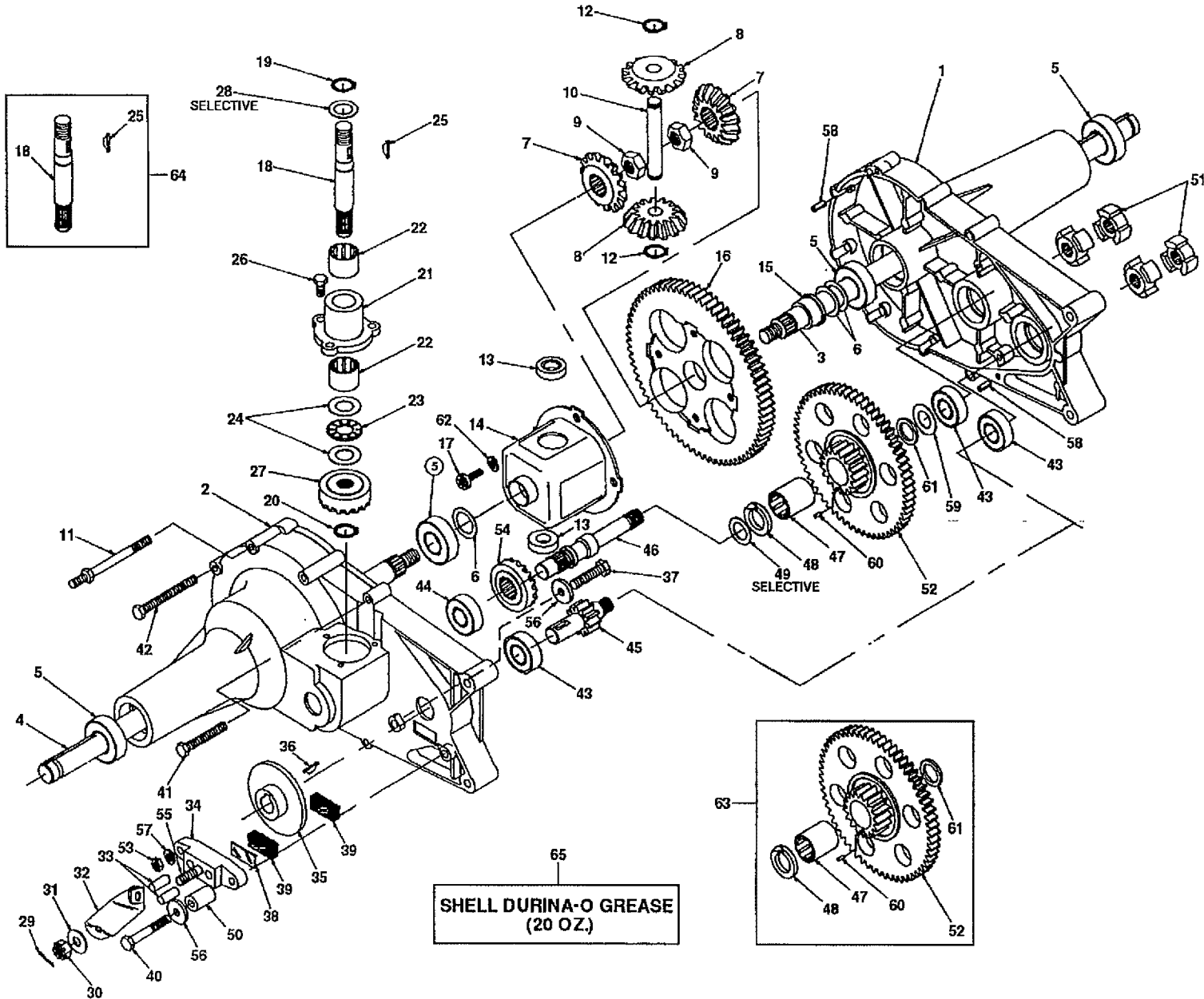
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	122756X	Shaft, Pump	32	127150X	Block Kit, Cylinder (MOTOR)
2	122716X	* Ring, Retaining	36	127151X	Plug, Plastic
3	122745X	Bearing, Ball	37	122786X	Pin, St. Hdls.
4	122715X	* Spacer	38	122718X	Gasket, Center Section
5	122700X	* Seal, Lip	39	122731X	Filter
6	122699X	* Ring, Retaining	40	122730X	Washer, Thrust
8	122767X	Bearing, Cradle	41	122728X	Spring, Helical Compression
11	122747X	Bearing, Journal	42	127152X	Check Valve Kit
12	122717X	* Seal, Lip	46	122787X	Plug, St. Thd.
13	122748X	Arm, Trunnion	47	122752X	Screw Socket Head Cap
14	122749X	Guide, Slot	50	122788X	Washer, Thrust
15	127146X	Housing Kit, Transmission	51	122789X	Pin, Spiral
17	122770X	Bearing, Thrust Ball	52	122754X	Plug, St. Thd.
18	122771X	Plug, Pipe	55	127153X	Bypass Valve Kit
19	127147X	Center Section Kit	58	122727X	Adhesive Label, Bar Coded
20	122773X	Bearing, Needle	59	122790X	Plug, St. Thd.
21	122722X	* Seal, Lip	60	127154X	Overhaul Seal Kit, BDU-10
22	122750X	Shaft, Motor			Includes: items marked with * and O-Rings for Check Valves and Bypass Valve
25	127148X	Swashplate, Variable			
30	122723X	* Seal, Lip	61	121430X	Complete Pump Assembly
31	127149X	Block Kit, Cylinder (PUMP)			

# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

AGRI-FAB TRANSAXLE MODEL NUMBER 486.121431X

4/6



# REPAIR PARTS

12.5 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.255551

AGRI-FAB TRANSAXLE MODEL NUMBER 486.121431X

47

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	122614X	Housing, Half L.H.	36	123065X	Key, Hi-Pro 3/16 x 5/8"
2	122615X	Housing, Half R.H.	37	122666X	Screw, Hex 1/4-20 x 1.50
3	122616X	Axle L.H.	38	122667X	Plate, Puck
4	122620X	Axle R.H.	39	122668X	Puck, Brake
5	122621X	Bearing, Ball	40	123066X	Screw, Hex W/Patch 1/4-20 x 2.00
6	122622X	Washer, Flat 3/4 x 1-1/8 x .030	41	122670X	Screw, Hex Self-Tap 1/4-20 x 2.00
7	122623X	Gear, Miter	42	122671X	Screw, Hex Self-Tap 1/4-20 x 3.00
8	122624X	Gear, Miter	43	126982X	Bearing, Ball
9	122625X	Nut, Hex Jam W/Patch 1/2-20	44	122673X	Bearing, Ball
10	122626X	Shaft, Cross	45	122674X	Shaft, Pinion W/11 Tooth Gear
11	122688X	Screw, Stud	46	122675X	Shaft, Drive
12	122629X	Snap, Ring	47	123059X	Bearing, Needle
13	122631X	Bearing, Thrust	48	123060X	Bronze Thrust Brg. 5/8 x 1-1/4 x 7/64
14	122633X	Housing Assembly, Differential	49	122654X	Washer, Flat .62 x 1.0 x .040
15	122634X	Bearing, Flange	---	123061X	Washer, Flat .62 x 1.0 x .050
16	122640X	Gear, Differential 72 Tooth	50	122689X	Spacer
17	122641X	Bolt, Torx Head 1/4-28 x 5/8"	51	121839X	Coupling
18	122642X	Shaft, Input	52	126975X	Gear, 60 and 17 Tooth
19	122643X	Snap, Ring	53	122682X	Nut, Hex 1/4-20
20	122644X	Retaining Ring 7/16"	54	122683X	Gear, Drive Pinion 17 Tooth
21	122645X	Housing, Input Bearing	55	122684X	Bolt, Square Head
22	122646X	Bearing, Needle	56	122685X	Washer 15/16 x .265 x .125
23	122647X	Bearing, Thrust	57	122686X	Washer 1/4" Spring Lock
24	122648X	Washer, Flat 5/8 x 1-1/8 x .030	58	122687X	Pin, Roll 3/16" x 1/2"
25	122649X	Key, Hi-Pro 3/32 x 5/8	59	122652X	Washer, Flat .62 x 1.0 x .030
26	122650X	Screw, Hex W/Patch 1/4-20 x 3/4	60	123062X	Pin, Dowel 3/32 x 1/4
27	122651X	Gear, Input Pinion 17 Tooth	61	123063X	Seal, Grease
28	123061X	Washer, Flat .62 x 1 x .05	62	126976X	Shell, Durina-O Grease (20oz.)
---	122678X	Washer, Flat .62 x 1.125 x .060	63	126977X	Washer, Head Spring Lock 1/4"
---	122654X	Washer, Flat .62 x 1 x .040	64	126978X	Washer, Flat .50 x 1.0 x .020
29	122656X	Pin, Cotter	---	126979X	Washer, Flat .50 x 1.0 x .030
30	122653X	Nut, Castle 5/16-24	65	126980X	Assembly, Gear, Reduction
31	122659X	Washer, Flat .343 x .88 x .062	66	126981X	Assembly, Shaft, Input
32	122660X	Arm, Brake Actuator	---	121431X	Transaxle Assembly Complete
33	122662X	Pin, Brake Actuating			
34	122663X	Brake, Yoke			
35	122664X	Disc, Brake			

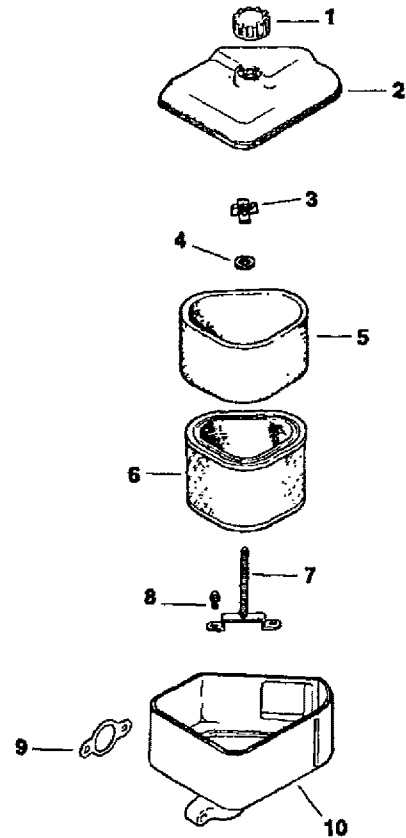
NOTE: All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

12.5 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.255551  
 ENGINE KOHLER - MODEL NUMBER CV12.5S, TYPE NUMBER 1438

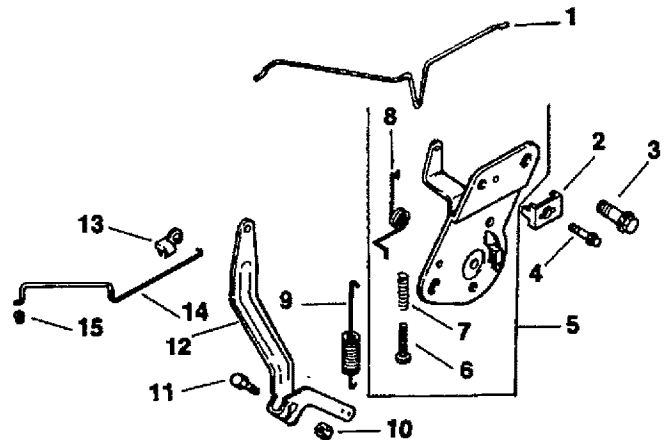
## AIR INTAKE/FILTRATION

- |    |           |                         |
|----|-----------|-------------------------|
| 1  | 12 341 01 | Knob, air cleaner cover |
| 2  | 12 096 06 | Cover, air cleaner      |
| 3  | 12 100 01 | Wing nut                |
| 4  | X-25-63   | Washer, plain 1/4       |
| 5  | 12 083 08 | Precleaner, element     |
| 6  | 12 083 05 | Element, air cleaner    |
| 7  | 12 072 03 | Stud, mounting plate    |
| 8  | 12 086 01 | Screw, mtg. plate stud  |
| 9  | 12 041 02 | Gasket, air cleaner     |
| 10 | 12 094 01 | Base, air cleaner       |



## ENGINE CONTROLS

- |    |            |  |
|----|------------|--|
| 1  | 12 079 03  | Linkage, choke                         |
| 2  | 12 237 01  | Clamp, cable                           |
| 3  | SM-0645020 | Screw, hex. hd. M6 x 1.0 x 20 (2)      |
| 4  | SM-0545016 | Screw, cable clamp                     |
| 5  | 12 536 01  | Control, speed assembly (Includes 6-8) |
| 6  | SM-0443025 | Screw                                  |
| 7  | 12 089 11  | Spring                                 |
| 8  | 12 089 04  | Spring, choke return                   |
| 9  | 12 089 12  | Spring, governor                       |
| 10 | SM-0641060 | Nut, governor arm M6 x 1.0             |
| 11 | SM-0642025 | Screw, governor arm M6 x 1.0 x 25      |
| 12 | 12 090 05  | Lever, governor                        |
| 13 | 25 158 09  | Bushing                                |
| 14 | 12 079 01  | Linkage, throttle                      |
| 15 | 25 158 08  | Bushing                                |



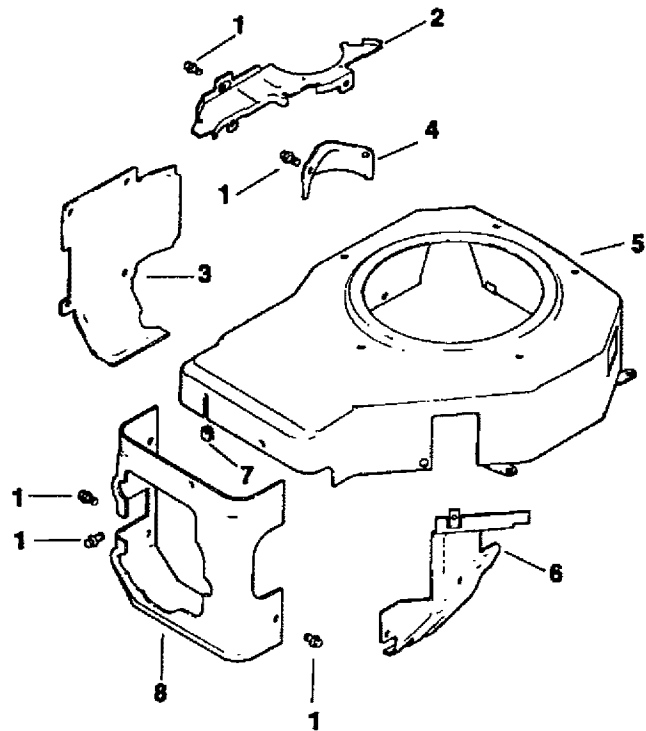


# REPAIR PARTS

## 12.5 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.255551 ENGINE KOHLER - MODEL NUMBER CV12.5S, TYPE NUMBER 1438

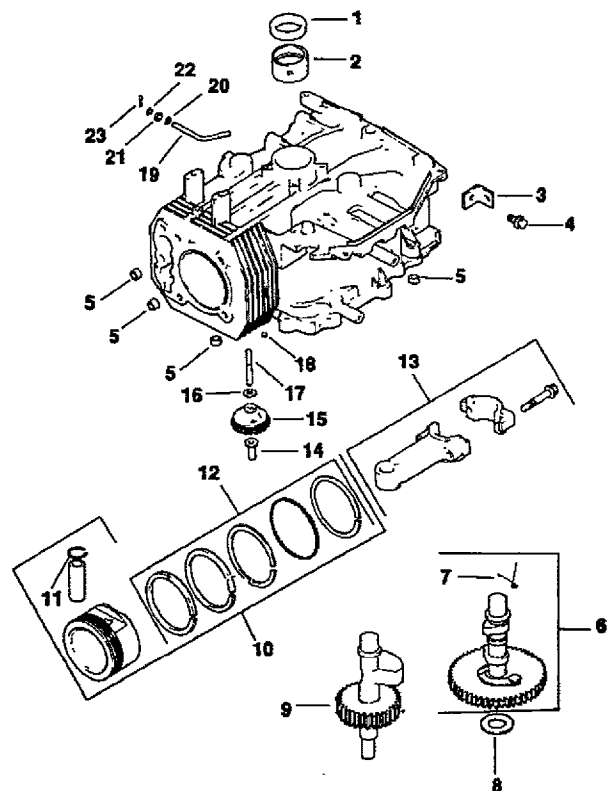
### BLOWER HOUSING & BAFFLES

- |   |            |                                    |
|---|------------|------------------------------------|
| 1 | SM-0545010 | Screw, mounting M5 x 0.8 x 10 (14) |
| 2 | 12 146 01  | Plate, blower housing              |
| 3 | 12 063 01  | Baffle, cylinder barrel            |
| 4 | 12 096 01  | Cover, starter                     |
| 5 | 12 027 04  | Housing, blower                    |
| 6 | 12 063 02  | Baffle, carburetor                 |
| 7 | 12 313 03  | Grommet, blower housing            |
| 8 | 12 063 03  | Baffle, cylinder head              |



### CRANKCASE

- |    |            |  |
|----|------------|--|
|    |            | Block, cylinder (Use Short block part # 12 522 02) |
| 1  | 12 032 03  | Seal, crankshaft                                   |
| 2  | 12 030 01  | Bearing, crankshaft (Std.) (Flywheel end)          |
|    | 12 030 02  | Bearing, crankshaft (.25)                          |
|    | 12 030 03  | Bearing, crankshaft (.50)                          |
| 3  | 12 445 02  | Strap, lifting                                     |
| 4  | SM-0839025 | Screw, lifting strap                               |
| 5  | 12 380 03  | Dowel, locating (4)                                |
| 6  | 12 010 02  | Camshaft assembly (Includes 7)                     |
| 7  | 12 089 05  | Spring, actuating                                  |
| 8  | 12 422 01  | Shim, camshaft                                     |
|    | 12 422 02  | Shim, camshaft (A.R.)                              |
|    | 12 422 03  | Shim, camshaft (A.R.)                              |
|    | 12 422 11  | Shim, camshaft (A.R.)                              |
|    | 12 422 12  | Shim, camshaft (A.R.)                              |
|    | 12 422 06  | Shim, camshaft (A.R.)                              |
|    | 12 422 07  | Shim, camshaft (A.R.)                              |
| 9  | 12 144 04  | Shaft, balance                                     |
| 10 | 12 874 01  | Piston w/Ring Set (Std.)                           |
|    | 12 874 02  | Piston w/Ring Set (.25)                            |
|    | 12 874 03  | Piston w/Ring Set (.50)                            |
| 11 | 12 018 02  | Retainer, piston pin (2)                           |
| 12 | 12 108 01  | Ring Set (Std.)                                    |
|    | 12 108 02  | Ring Set (.25)                                     |
|    | 12 108 03  | Ring Set (.50)                                     |
| 13 | 12 067 01  | Connecting Rod (Std.)                              |
|    | 12 067 02  | Connecting Rod (.25)                               |
| 14 | 12 380 01  | Pin, governor regulating                           |
| 15 | 12 043 05  | Gear, governor assembly                            |
| 16 | SM-0631005 | Washer, governor gear thrust                       |
| 17 | 12 144 02  | Shaft, governor gear                               |
| 18 | 52 139 09  | Plug, cup  |
| 19 | 12 144 01  | Shaft, governor cross                              |
| 20 | SM-0631015 | Washer, governor shaft                             |
| 21 | 12 032 01  | Seal, governor cross shaft                         |
| 22 | X-25-102   | Washer, plain                                      |
| 23 | 12 380 04  | Pin, governor hitch                                |

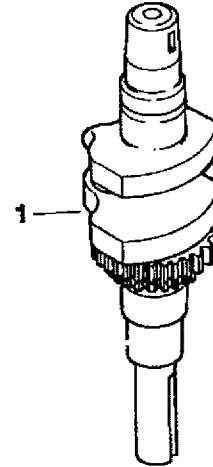


# REPAIR PARTS

**12.5 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.255551  
ENGINE KOHLER - MODEL NUMBER CV12.5S, TYPE NUMBER 1438**

## CRANKSHAFT

- 1 12 014 02 Crankshaft

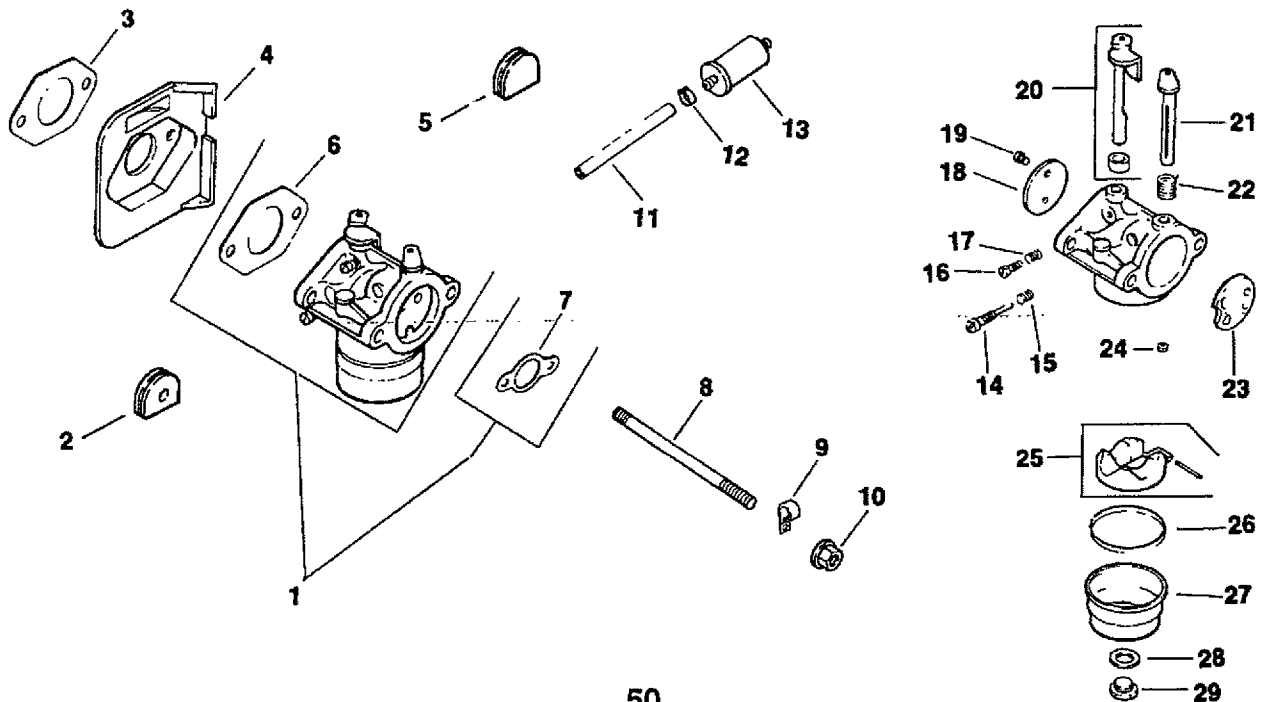


## FUEL SYSTEM

- |    |            |  |    |           |                                |
|----|------------|--|----|-----------|--------------------------------|
| 1  | 12 853 01  | Kit, carburetor w/gaskets (Includes 6,7,14-29) | 17 | 12 089 09 | Spring, idle fuel              |
| 2  | 12 313 05  | Grommet  | 18 | 12 146 03 | Plate, throttle                |
| 3  | 12 041 01  | Gasket, carburetor (2)                         | 19 | 25 086 27 | Screw, throttle plate (2)      |
| 4  | 12 265 01  | Deflector, heat                                | 20 | 12 144 09 | Shaft, throttle w/lever & seal |
| 5  | 12 313 01  | Grommet  | 21 | 12 144 08 | Shaft, choke                   |
| 6  | 12 041 01  | Gasket, carburetor                             | 22 | 12 089 10 | Spring, choke return           |
| 7  | 12 041 02  | Gasket, air filter                             | 23 | 12 146 02 | Plate, choke                   |
| 8  | M-0629122  | Stud, carburetor M6 x 1.0 x 110 (2)            | 24 | 12 337 01 | Jet, main                      |
| 9  | 48 154 01  | Clip, fuel line                                | 25 | 12 757 02 | Kit, float                     |
| 10 | SM-0641060 | Nut, carburetor M6 x 1.0 (2)                   | 26 | 12 041 05 | Gasket, bowl                   |
| 11 | 25 353 20  | Hose, fuel                                     | 27 | 12 104 01 | Bowl, fuel                     |
| 12 | X-426-9    | Clamp, fuel line (2)                           | 28 | 12 041 06 | Gasket, bowl ret. screw        |
| 13 | 45 050 01  | Filter, fuel                                   | 29 | 12 086 05 | Screw, fuel bowl               |
| 14 | 12 368 01  | Needle, idle                                   |    |           |                                |
| 15 | 12 089 09  | Spring, idle speed                             |    |           |                                |
| 16 | 12 086 04  | Screw, idle speed adj.                         |    |           |                                |

**NOT ILLUSTRATED**

- 12 757 01 Kit, carburetor repair  
12 755 09 Kit, high altitude jet



# REPAIR PARTS

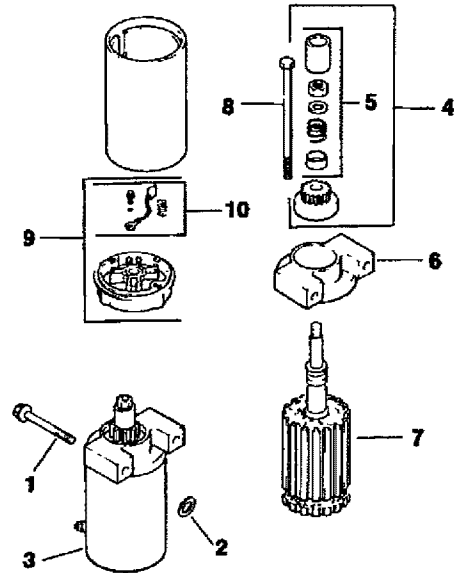
## 12.5 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.255551 ENGINE KOHLER - MODEL NUMBER CV12.5S, TYPE NUMBER 1438

### STARTING SYSTEM

- |    |            |  |
|----|------------|--|
| 1  | SM-0839065 | Screw, bendix starter M8 x 1/25 x 65.5 (2) |
| 2  | 12 468 01  | Washer (2)                                 |
| 3  | 12 098 05  | Starter assembly (Includes 4-10)           |
| 4  | 12 755 12  | Kit, drive (Includes 5)                    |
| 5  | 12 755 06  | Kit, drive parts                           |
| 6  | 12 227 01  | Cap, drive end                             |
| 7  | 12 170 02  | Armature                                   |
| 8  | 12 086 02  | Screw, hex. flange                         |
| 9  | 12 243 01  | Cap, commutator end (Includes 10)          |
| 10 | 48 755 15  | Kit, brush                                 |

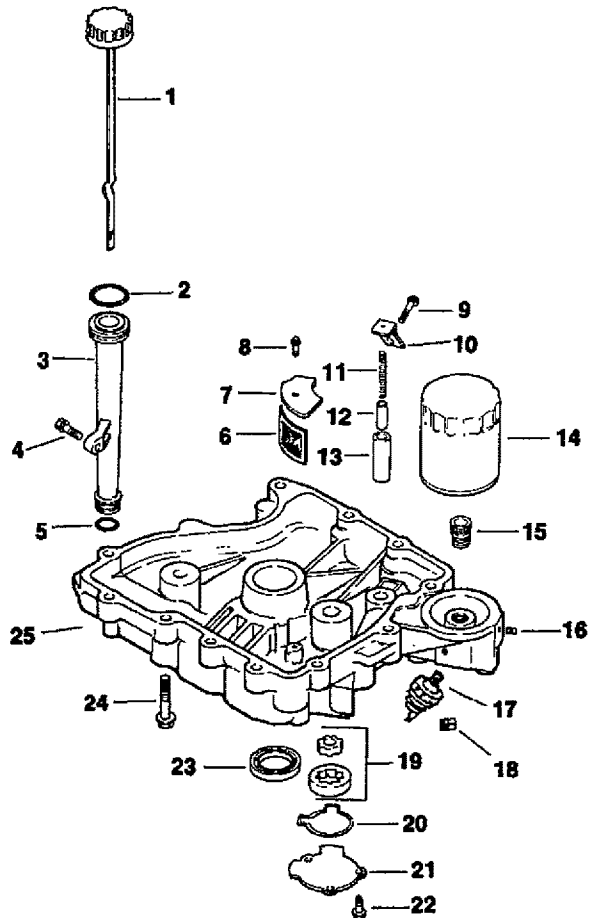
### NOT ILLUSTRATED

- |           |                    |
|-----------|--------------------|
| 52 357 01 | Lubricant, starter |
|-----------|--------------------|



### OIL PAN/LUBRICATION

- |    |            |   |
|----|------------|---|
| 1  | 12 038 01  | Dipstick  |
| 2  | 12 153 02  | O-Ring, upper oil fill tube                         |
| 3  | 12 123 04  | Tube, oil fill                                      |
| 4  | SM-0545020 | Screw, oil fill tube M5 x 0.8 x 20                  |
| 5  | 12 153 01  | O-Ring, lower oil fill tube                         |
| 6  | 12 162 02  | Screen, oil pick-up                                 |
| 7  | 12 096 03  | Cover, oil pick-up screen                           |
| 8  | SM-0545016 | Screw, screen cover                                 |
| 9  | SM-1039025 | Screw, oil pump relief valve bracket M10 x 1.5 x 25 |
| 10 | 12 126 02  | Bracket, oil pump relief bracket                    |
| 11 | 12 089 03  | Spring, oil pump relief valve                       |
| 12 | 12 462 01  | Piston, oil pump relief valve                       |
| 13 | 12 208 01  | Body, oil pump relief valve                         |
| 14 | 52 050 02  | Filter, oil   |
| 15 | 12 136 01  | Adapter   |
| 16 | X-75-23    | Plug  |
| 17 | 52 099 06  | Switch, oil pressure                                |
| 18 | X-75-10    | Plug, sq. hd. solid 3/8 N.P.T.F. (2)                |
| 19 | 12 393 01  | Pump, oil   |
| 20 | 12 032 04  | O-Ring, oil pump cover                              |
| 21 | 12 096 02  | Cover, oil pump                                     |
| 22 | SM-0545016 | Screw, oil pump cover M5 x 0.8 x 16 (3)             |
| 23 | 12 032 03  | Seal, oil (P.T.O. end)                              |
| 24 | SM-0839045 | Screw, oil pan M8 x 1.25 x 45 (12)                  |
| 25 | 12 199 09  | Pan, oil  |



# REPAIR PARTS

## 12.5 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.255551 ENGINE KOHLER - MODEL NUMBER CV12.5S, TYPE NUMBER 1438

### EXHAUST

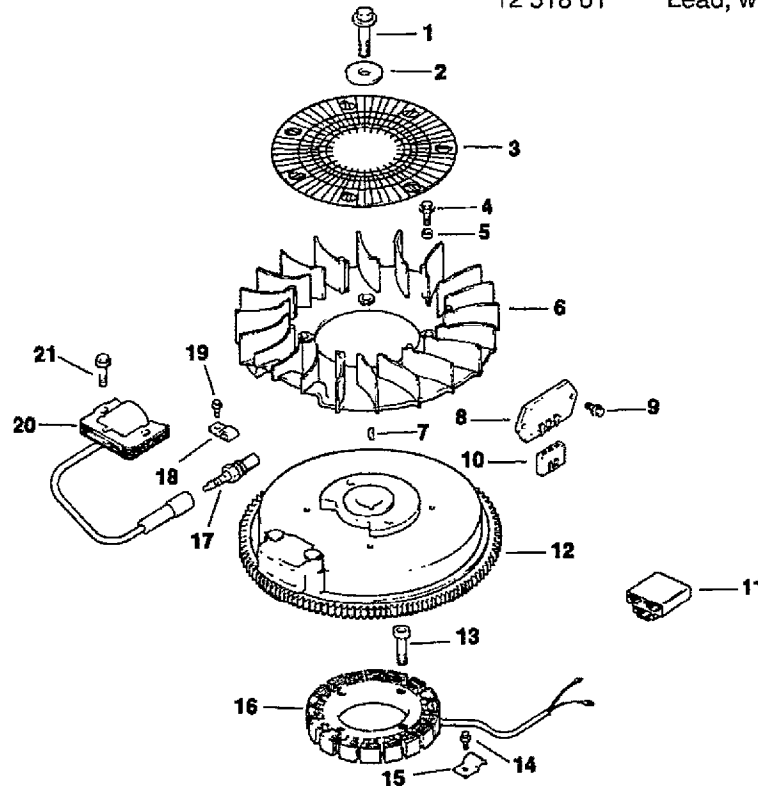
- 1 M-0829036 Stud, exhaust manifold M8 x 1.25 x 20 (2)
- 2 12 041 03 Gasket, exhaust manifold
- 3 SM-0841080 Nut, muffler mtg M8 x 1.25 (2)
- 4 12 126 11 Bracket, muffler
- 5 12 445 01 Strap, lifting
- 6 SM-0645025 Screw, lifting strap M6 x 1.0 x 25 (3)



Short Block 12 522 02  
Gasket Set 12 755 01

### IGNITION/ELECTRICAL

- 1 SM-1040045 Screw, flywheel mounting
  - 2 52 468 15 Washer, flywheel mtg. screw
  - 3 12 162 01 Screen, grass
  - 4 SM-0639016 Screw, fan mounting (4)
  - 5 12 112 01 Spacer, fan (4)
  - 6 12 157 01 Fan
  - 7 X-42-15 Key
  - 8 41 403 09 Rectifier-regulator
  - 9 SM-0639016 Screw, rectifier-regulator M6 x 1.0 x 16 (2)
  - 10 236602 Connector, rectifier-regulator
  - 11 236473 Connector (3 contact)
  - 12 12 025 01 Flywheel assembly
  - 13 SM-0544025 Screw, stator mounting M5 x 0.8 x 25 (4)
  - 14 SM-0545010 Screw, stator harness clip M5 x 0.8 x 10
  - 15 12 154 02 Clip, stator harness
  - 16 41 085 07 Stator - 15 amp
  - 17 12 132 02 Spark plug
  - 18 X-728-1 Clip, kill lead
  - 19 SM-0545010 Screw, lead clip
  - 20 12 584 01 Module, ignition
  - 21 SM-0545020 Screw, ignition module M5 x 0.8 x 20 (2)
- NOT ILLUSTRATED
- 25 518 05 Lead, black, rectifier to connector (5" - 14 gauge uninsulated push on tab terminals)
  - 12 518 01 Lead, white, ground to kill

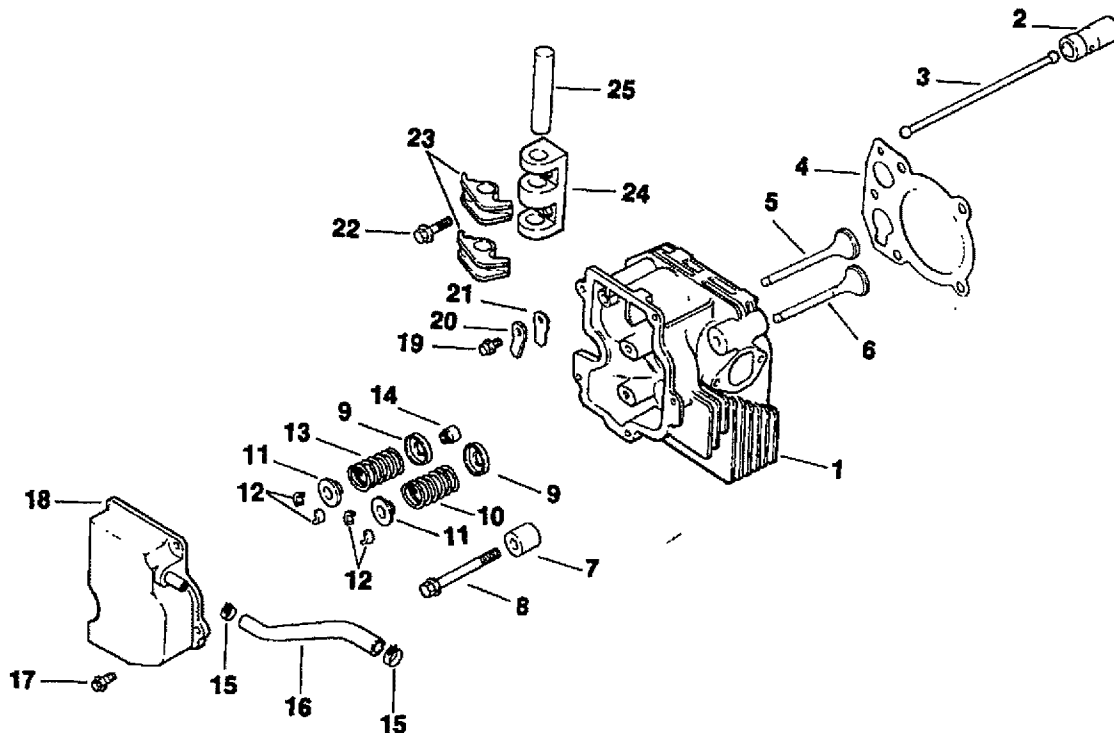


# REPAIR PARTS

12.5 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.255551  
 ENGINE KOHLER - MODEL NUMBER CV12.5S, TYPE NUMBER 1438

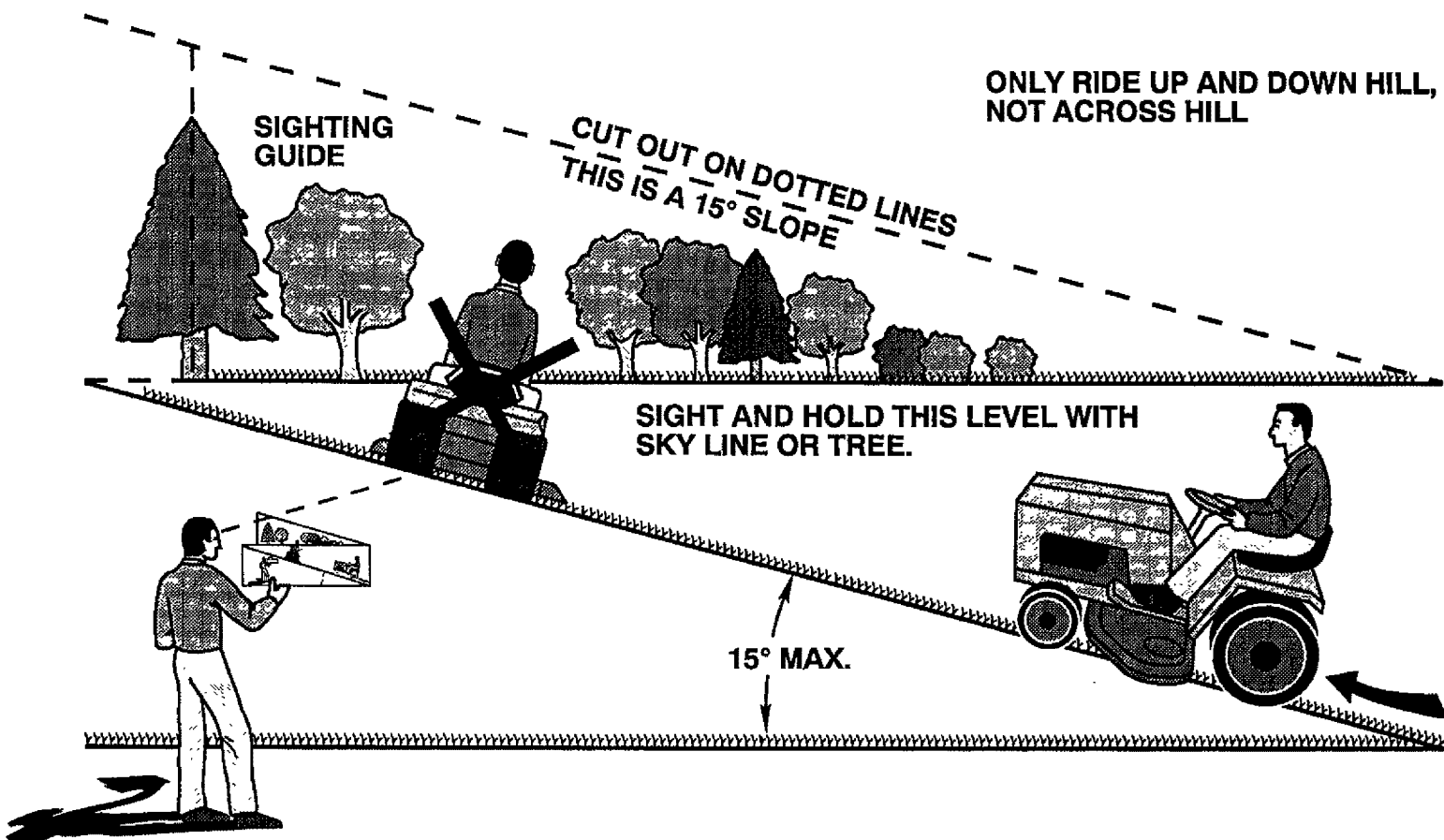
## CYLINDER HEAD/VALVE/BREATHER

1	12 318 01	Head, cylinder	16	12 326 03	Hose, breather
2	12 351 01	Lifter, valve (2)	17	SM-0645020	Screw, valve cover M6 x 1.0 x 20 (3)
3	12 411 01	Rod, push (2)	18	12 096 07	Cover, valve w/nipple
4	12 041 04	Gasket, cylinder head	19	SM-0545010	Screw, breather reed ret. M5 x 0.8 x 1
5	12 017 01	Valve, intake (Std.)	20	12 018 01	Retainer, breather reed
	12 017 02	Valve, intake (.25)	21	12 402 01	Reed, breather
6	12 016 01	Valve, exhaust (Std.)	22	SM-0642025	Screw, rocker bridge M6 x 1.0 x 25 (2)
	12 016 02	Valve, exhaust (.25)	23	12 186 01	Arm, rocker (2)
7	12 112 04	Spacer, head bolt exhaust port	24	12 126 05	Bridge, rocker arm
8	M-1040080	Screw, cylinder head M10 x 1.5 x 80 (5)	25	12 144 03	Shaft, rocker arm
9	52 018 01	Retainer, spring (2)	NOT ILLUSTRATED		
10	12 089 15	Spring, exhaust valve (green)	12 755 02	Kit, cylinder head	
11	12 173 01	Cap, valve spring (2)	12 522 02	Short Block	
12	12 755 03	Kit, retainer (2)	12 755 01	Gasket Set	
13	12 089 01	Spring, intake valve			
14	12 032 02	Seal, valve stem			
15	X-426-9	Clamp, hose (2)			




# SERVICE NOTES

# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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SLOPE SHEET

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

**SEARS**  
OWNER'S  
MANUAL

**MODEL NO.  
917.255551**

**HOW TO ORDER  
REPAIR PARTS**

**CRAFTSMAN<sup>®</sup>**  
**12.5 HP OHV**  
**ELECTRIC START**  
**38" MOWER**  
**AUTOMATIC (HYDROSTATIC)**  
**DRIVE**  
**LAWN TRACTOR**

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

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

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

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

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

- **PRODUCT - LAWN TRACTOR**
- **MODEL NUMBER - 917.255551**
- **ENGINE MODEL NUMBER - CV12.5S Type 1438**
- **PART NUMBER**
- **PART DESCRIPTION**

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

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