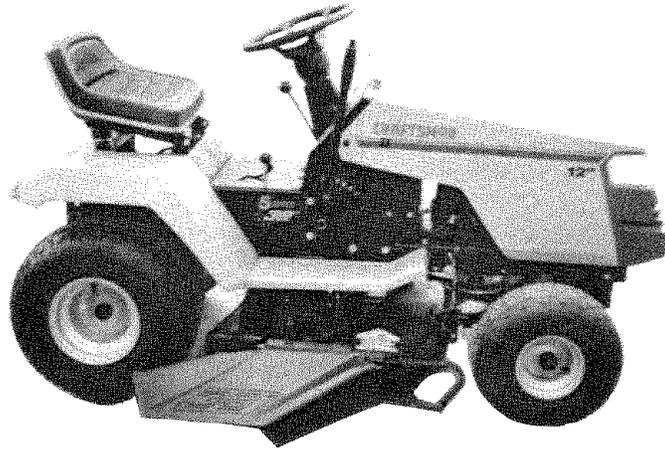


SEARS
OWNER'S
MANUAL

MODEL NO.
917.254520

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



CRAFTSMAN®
12.0 HP IC
ELECTRIC START
38" MOWER DECK
5 SPEED TRANSAXLE
LAWN TRACTOR

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



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



RULES FOR SAFE OPERATION

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 area laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. (See REPAIR PARTS for part number identification).

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.

1. Know the controls and how to stop quickly. READ THIS OWNER'S MANUAL and instructions furnished with attachments.
2. Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. Do not mow when children and others are around.
4. Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
5. Keep your eyes and mind on your tractor, mower, and the area being cut. Do not let other interests distract you.
6. Do not attempt to operate your tractor or mower when not in the driver's seat.
7. Always get on or off your tractor from the operator's left hand side.
8. Clear the work area of objects (wire, rocks, etc.) which might be picked up and thrown.
9. Disengage all attachment clutches before attempting to start the engine.
10. Disengage power to attachments and stop the engine before leaving the operator's position.
11. 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.
12. Disengage power to attachments when transporting or not in use.
13. 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.
14. 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. Refer to page 47.
15. Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
16. While going up or down slopes, place gear shift control lever in 1st gear position to negotiate the slope without stopping.
17. Never mow in wet or slippery grass, when traction is unsure, or at a speed which could cause a skid.
18. Stay alert for holes in the terrain and other hidden hazards. Keep away from drop-offs.
19. Do not drive too close to creeks, ditches, and public highways.
20. Exercise special care when mowing around fixed objects in order to prevent the blades from striking them. Never deliberately run tractor or mower into or over any foreign objects.
21. Never shift gears until tractor comes to a stop.
22. Never place hands or feet under the mower, in discharge chute, or near any moving parts while tractor or mower is running. Always keep clear of discharge chute.
23. Use care when pulling loads or using heavy equipment.
 - a. Use only approved drawbar hitch points.
 - b. Limit loads to those you can safely control.
 - c. Do not turn sharply. Use care when backing.
 - d. Use counterweight or wheel weights when suggested in owner's manual.
24. Watch out for traffic when crossing or near roadways.
25. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
26. Handle gasoline with care - it is highly flammable.
 - a. Use approved gasoline containers.
 - b. 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.
 - c. Open doors if the engine is run in the garage - exhaust fumes are dangerous. Do not run the engine indoors.
27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place and working.
28. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
29. 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.
30. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease. Do not clean product while engine is running.
31. 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.
32. 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.
33. 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.
34. Do not change the engine governor settings or overspeed the engine; severe damage or injury may result.
35. When using the vehicle with mower, proceed as follows:
 - a. Mow only in daylight or in good artificial light.
 - b. Shut the engine off when unclogging chute.
 - c. Check the blade mounting bolts for proper tightness at frequent intervals.
36. Do not operate the mower without the entire grass catcher, on mowers so equipped, or the deflector shield in place.
37. 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.
38. 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.

CAUTION: LOOK FOR THIS WORD TO POINT OUT IMPORTANT EQUIPMENT PRECAUTIONS.

NOTE: LOOK FOR THIS WORD TO POINT OUT IMPORTANT INFORMATION ABOUT THE OPERATION AND PERFORMANCE OF YOUR TRACTOR.

CONGRATULATIONS on your purchase of a Sears Lawn 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.

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. See the nearest Sears store or service center for details.

CUSTOMER RESPONSIBILITIES

Read and retain this manual. Study and observe the safety rules. Always use care when using your tractor. Always keep your tractor and mower clean. Follow a regular schedule in maintaining, caring for, and using your tractor. A well cared for tractor will run better and last longer.

ATTACHMENTS

This unit can use many attachments now available at your Sears store. It cannot use attachments that engage the ground like a plow, harrow, cultivator, or tiller. See page 46 for a list of available attachments.

SERIAL
NUMBER _____

DATE OF PURCHASE _____

THE SERIAL NUMBER WILL BE FOUND ON THE MODEL PLATE UNDER THE SEAT.

YOU SHOULD RECORD THESE NUMBERS AND KEEP FOR FUTURE REFERENCE.

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 instruction in the owner's manual, Sears will repair free of charge any defect in material or workmanship in this electric start riding equipment.

This warranty excludes blade(s), blade adapter(s), spark plug(s), air cleaner and belt(s), which are expendable and become worn during normal use.

This warranty does not cover:

- Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass); and
- repairs necessary because of operator abuse or negligence, including the failure to maintain the equipment according to instructions contained in the owner's manual; and
- riding equipment used for commercial or rental purposes.

FULL 90 DAY WARRANTY ON BATTERY

For 90 days from the 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 may vary from state to state.

SEARS, ROEBUCK and CO., D/731CR-W, Sears Tower, Chicago, IL 60684



DO NOT OVERLOAD TRACTOR BY TOWING WEIGHTS GREATER THAN 150 POUNDS (68 KG).

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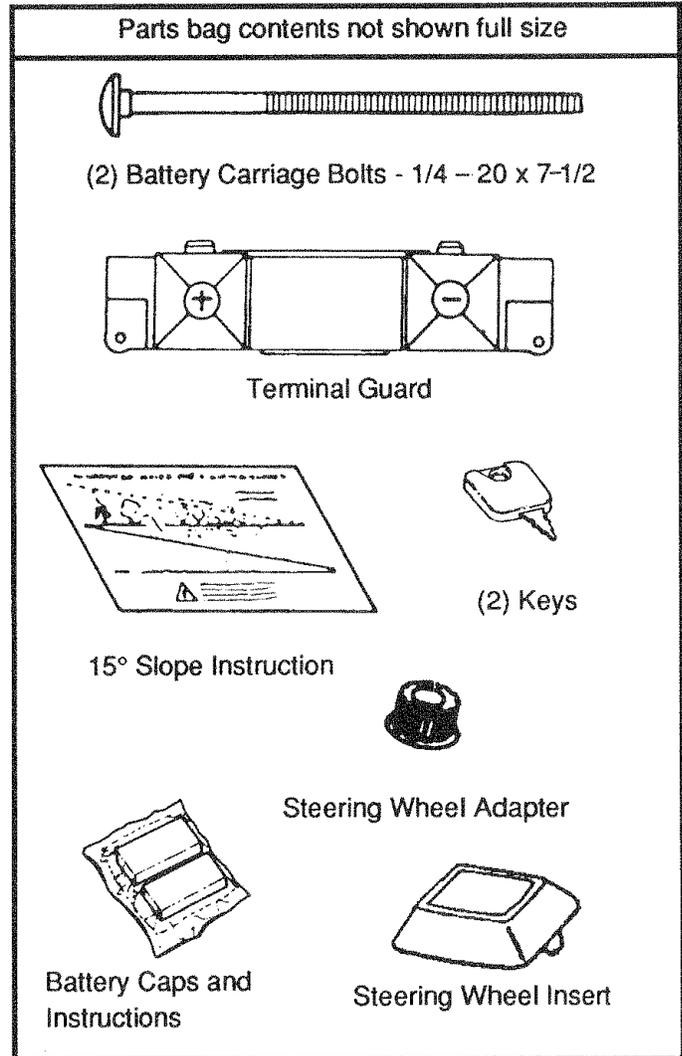
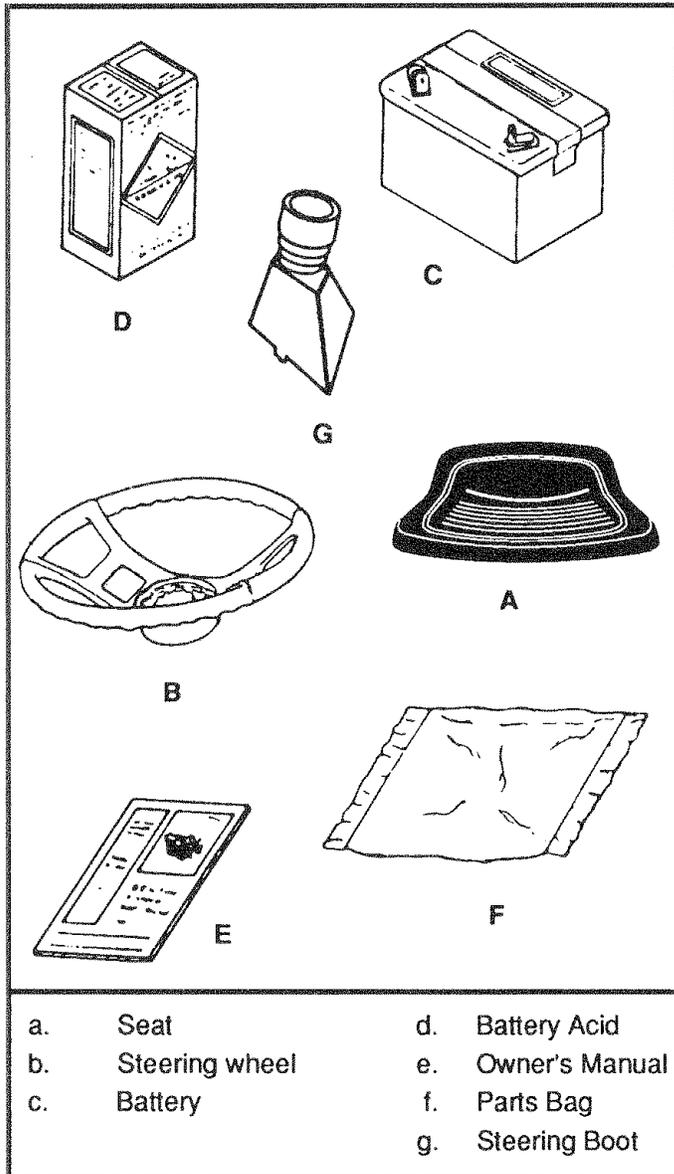
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ASSEMBLY

To assemble tractor you will need:

- | | |
|--------------------|---------------------|
| (2) 7/16" wrenches | Tire Pressure Gauge |
| (1) 1/2" wrench | Screwdriver |
| (2) 9/16" wrenches | Utility Knife |
| (1) 3/4" wrench | 5/16" Wrench |

Take all of the items out of the box. The box contains the items shown below. Open the parts bag and check the contents (see page 6).

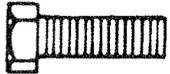
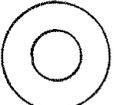
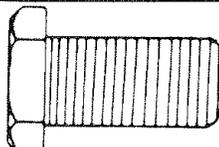
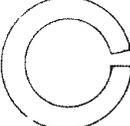
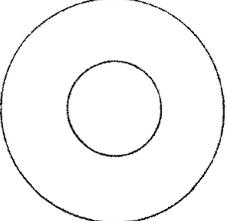
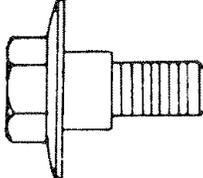
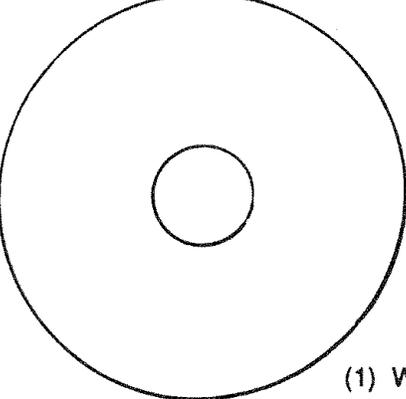


NOTE: RIGHT HAND(R.H.) AND LEFT HAND (L.H.) ARE DETERMINED FROM OPERATOR'S POSITION WHILE SEATED ON THE TRACTOR.



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

ASSEMBLY

ASSEMBLY LOCATION	PARTS BAG CONTENTS SHOWN FULL SIZE
<p>BATTERY</p>	 <p>(2) Wing Nut 1/4-20</p>
<p>BATTERY TERMINALS</p>	 <p>(2) Hex Bolt 1/4-20 x 3/4</p>  <p>(2) Lock Washer 1/4</p>  <p>(2) Washer 9/32 x 5/8 x 16 Ga.</p>  <p>(2) Hex Nut 1/4-20</p>
<p>SEAT</p>	 <p>(1) Adjustment Bolt</p>  <p>(1) Lock Washer 1/2</p>  <p>(1) Washer 17/32 x 1-3/16 x 12 Ga.</p>  <p>(1) Shoulder Bolt 5/16-18</p>
<p>STEERING BUSHING</p>	 <p>(2) Sheet Metal Screw 10-16 x 1/2 ABTBS</p>
<p>STEERING WHEEL</p>	 <p>(1) Washer 2-1/4</p>  <p>(1) Locknut 1/2-20</p>

1. Prepare Battery

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 IN THE BAG OF PARTS. ALWAYS WEAR GLOVES, CLOTHING AND GOGGLES TO PROTECT YOUR HANDS, SKIN AND EYES.

Fill and charge battery (before installing). NOTE: SEE DETAILED INSTRUCTIONS PACKAGED WITH BATTERY VENT CAPS FOUND IN BAG OF PARTS.

- Fill each cell with battery acid. Add the acid until it reaches the bottom of the vent tubes (Fig. 1). Do not add the acid beyond this level or the additional acid can come out when the battery is charged.
- After cells are filled, tilt battery from side to side to release air bubbles.
- Allow battery to stand and settle for at least thirty minutes. If the level of acid falls below the point described in step (a), add more acid until the correct level is reached. Install the battery caps, found in the bag of parts, to cover the vent tubes. 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.
- Neutralize excess battery acid for disposal by adding it to 2 gallons (7 litres) of water in a five gallon (20 litres) plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
- It is recommended that the battery be charged before use. Use a 12 volt battery charger. Charge battery at a rate of 6 amperes for 1 hour. NOTE: OBSERVE SAFETY PRECAUTIONS, LISTED IN BOX ABOVE, 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.

2. Unpack Tractor

- Cut down four corners of the carton with utility knife and fold down sides.
- Disengage parking brake and position front wheels straight ahead (see page 9).
- Install steering wheel
 - Slide the steering bushing over the steering shaft (Fig. 2).
 - Position steering shaft forward until screw holes in dash line up with steering bushing. Install two (2) screws (Fig. 2).
 - Position steering boot over steering shaft.
 - Place bottom of steering boot over two slots in dash (Fig. 2).

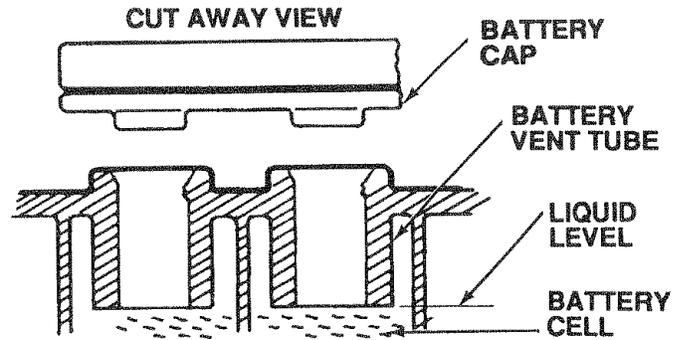


FIGURE 1

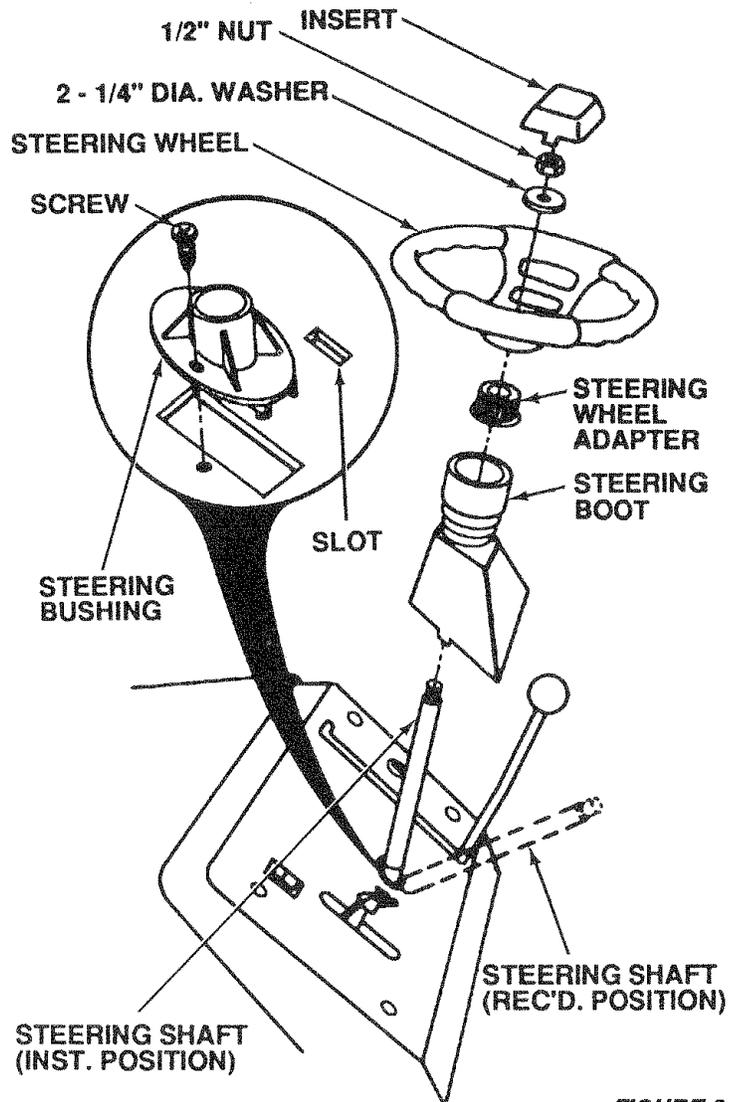


FIGURE 2

- Push steering boot down into aligning slots on dash.
- Place steering wheel adapter on steering shaft.
- With front wheels pointed straight ahead, place steering wheel on steering wheel adapter. Bars of steering wheel should point straight across tractor.

ASSEMBLY

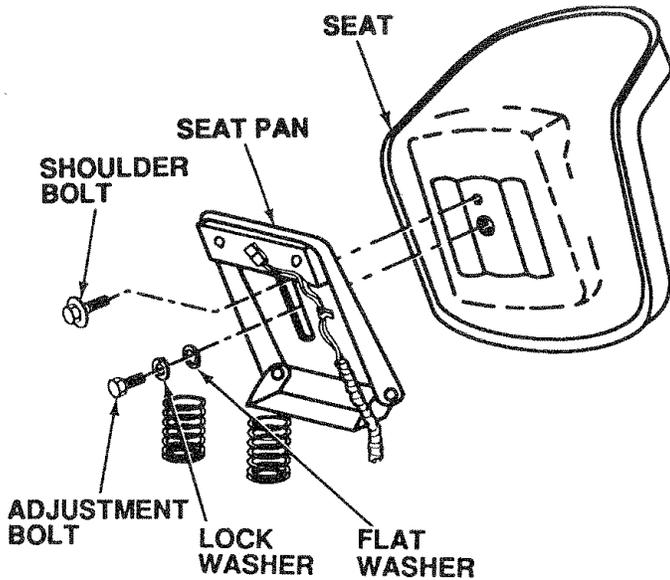


FIGURE 3

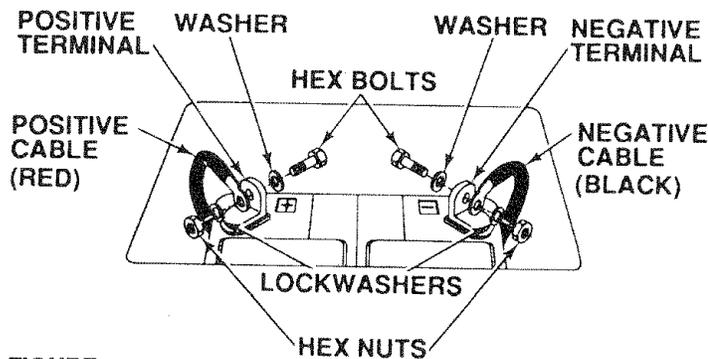


FIGURE 4

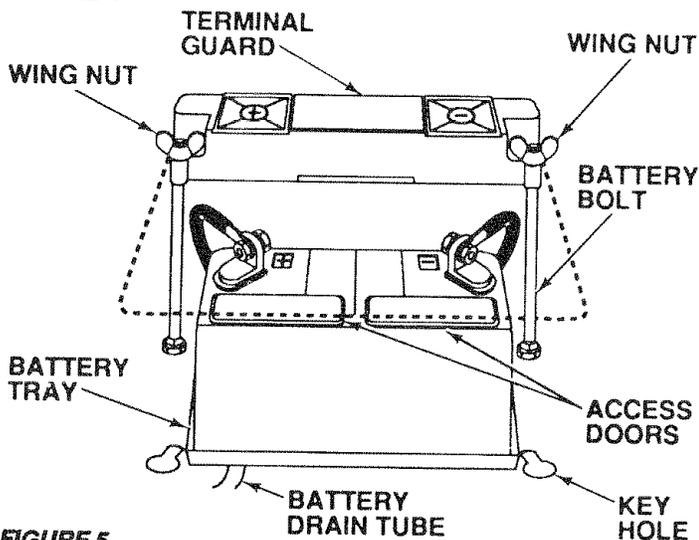


FIGURE 5

3. Install Seat

- Remove cardboard from seat pan.
- Place seat on seat pan. Screw adjustment bolt, lock washer and flat washer into seat (Fig. 3). Screw shoulder bolt into seat (Fig. 3). Adjustment bolt, shoulder bolt and washers found in bag of parts (shown full size on page 6).
- Tighten shoulder bolt using a 1/2" wrench. **NOTE: THE SHOULDER BOLT WILL BE LOOSE IN THE SEAT PAN SLOT.**
- Tighten adjustment bolt, lock washer and flat washer securely.

NOTE: SEAT POSITION SHOULD BE ADJUSTED FORWARD OR BACKWARD SO THAT THE OPERATOR CAN COMFORTABLY REACH CLUTCH/BRAKE PEDAL AND SAFELY OPERATE TRACTOR.

- Place seat in operating position. Sit on the seat and press clutch/brake pedal all the way down. If operating position is not comfortable, adjust seat.
- To adjust: raise seat. Loosen adjustment bolt. Slide seat to desired position. Tighten adjustment bolt securely.



ADJUSTMENT BOLT, LOCK WASHER AND FLAT WASHER MUST BE TIGHTENED SECURELY TO PREVENT MOVEMENT OF SEAT.

4. Check Tires

Check the air pressure in the tires. Tires with too much air pressure will cause the unit to ride rough. The wrong air pressure will also keep the mower from cutting level. The correct air pressure is shown on the side of the tires. If the air pressure is not shown, set to pressures shown in the REPAIR AND ADJUSTMENT section (page 14).

5. Install Battery



BEFORE INSTALLING BATTERY, REMOVE METAL BRACELETS, WRIST WATCH BANDS, RINGS, ETC. FROM YOUR PERSON. TOUCHING THESE ITEMS TO BATTERY TERMINALS COULD RESULT IN BURNS.

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 IN THE BAG OF PARTS. ALWAYS WEAR GLOVES, CLOTHING AND GOGGLES TO PROTECT YOUR HANDS, SKIN AND EYES.

- Place 2 1/4" diameter washer on steering shaft and install a 1/2" locknut (washer and locknut found in bag of parts). Tighten securely.
- Snap insert into steering wheel.
- Remove plastic on tractor hood.
- Raise attachment lift handle (see page 9).
- Roll Tractor off skid. Be careful of staples in skid.

ASSEMBLY

- a. Lift seat (Fig. 3).
- b. Lower battery into fender well with battery terminals toward front of tractor (Fig. 4). Make sure battery rests in battery tray (Fig. 5).

NOTE: BE SURE BATTERY DRAIN TUBE IS SECURELY ATTACHED TO BATTERY TRAY DRAIN (Fig. 5).



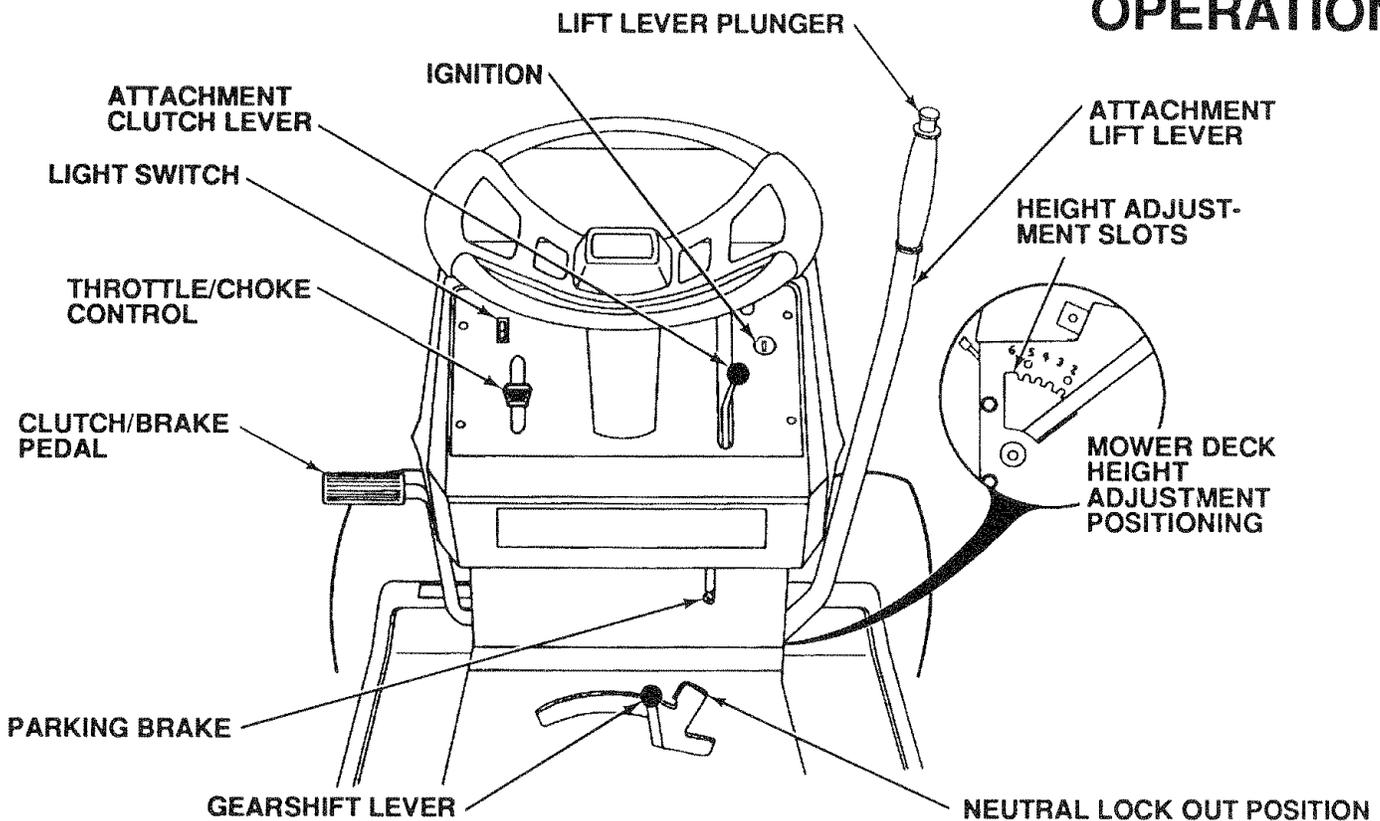
POSITIVE TERMINAL MUST BE CONNECTED FIRST TO PREVENT SPARKS FROM ACCIDENTAL GROUNDING.

- c. Connect **RED** battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut (shown full size on pg. 6) found in bag of parts. Tighten securely with two 7/16" wrenches. (Fig. 4).

- d. Connect **BLACK** ground cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut (shown full size on pg. 6) found in bag of parts. Tighten securely (Fig. 4).
- e. To prevent corrosion, apply grease to the battery terminals after installing cables.
- f. Slide two battery bolts through terminal guard and start the wing nuts onto the threads (Fig. 5).
- g. Position terminal guard over battery as shown (Fig. 5) and align bolt heads with key holes next to battery tray (Fig. 5).
- h. Lower bolt heads into key holes and slide square shafts of bolts into slots of key holes (Fig. 5).
- i. Tighten wing nuts.
- j. Close terminal access doors.

CAUTION: DO NOT START ENGINE UNTIL YOU HAVE REVIEWED THE OPERATION SECTION OF THIS MANUAL.

OPERATION



KNOW YOUR TRACTOR

ATTACHMENT CLUTCH LEVER: Push lever up to engage attachment. There will be an engine hesitation as the clutch engages.

ATTACHMENT LIFT LEVER: Use the attachment lift lever to raise and lower the attachment mounted to your tractor. Pull lever back slightly and push button, then move the lift lever forward to lower attachment.

CLUTCH/BRAKE PEDAL: The pedal has 2 functions; a clutch and a brake. To engage the brake push the pedal completely down.

HEIGHT ADJUSTMENT: Use the height adjustment slots to adjust the mower height. Push the attachment lift lever plunger down and position the attachment lift lever into the desired slot. Release lift lever plunger.

GEARSHIFT: Press the clutch/brake pedal down firmly and move gearshift lever to desired speed.

IGNITION: Place key in ignition and turn to the right to start. The switch spring returns from the start position.

LIGHT SWITCH: Turns the headlights on and off.

PARKING BRAKE: To set the parking brake, push the clutch/brake pedal completely down. Hold the parking brake lever in "Engage" position and release pressure from pedal. Clutch/brake pedal will remain in brake position.

THROTTLE/CHOKE CONTROL: Use the throttle control to increase or decrease the speed of the engine, and to choke the engine for starting. Push lever to the right and forward to choke.

NEUTRAL LOCKOUT POSITION: Transmission is disengaged when gearshift lever is in this position.

OPERATION

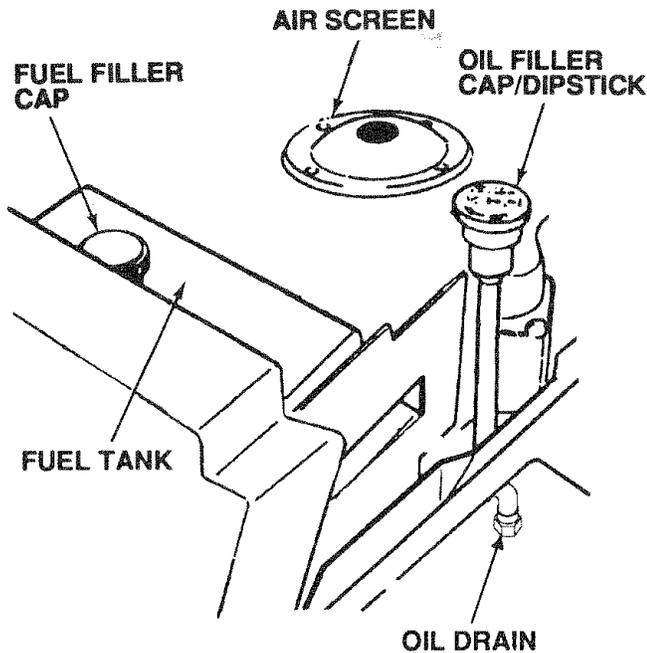


FIGURE 6

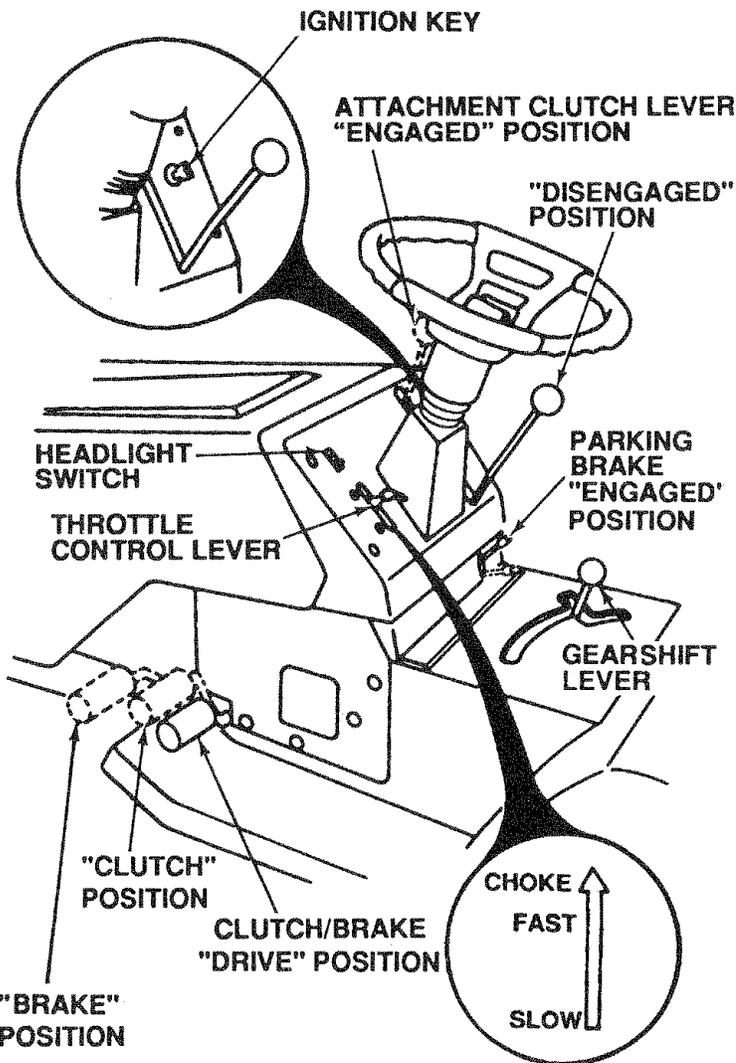


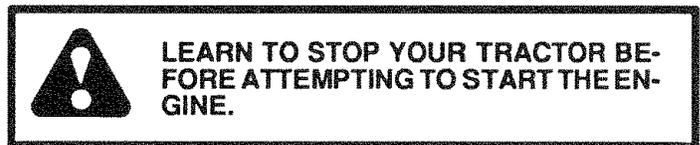
FIGURE 7

1. Stopping Your Tractor

NOTE: REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE:

- Push clutch-brake pedal into full "BRAKE" position. Keep your foot on pedal (Fig. 7).
- Place attachment clutch lever in "DISENGAGED" position.
- Move gearshift lever to "NEUTRAL" position.
- Lift up to place parking brake in "ENGAGED" position (Fig. 10) and release pressure from clutch/brake. Pedal should remain in "BRAKE" position.
- Move throttle control to "S" (slow) position.
- Turn ignition key to "OFF" position. Never use choke to stop engine.

2. Preparing the Engine

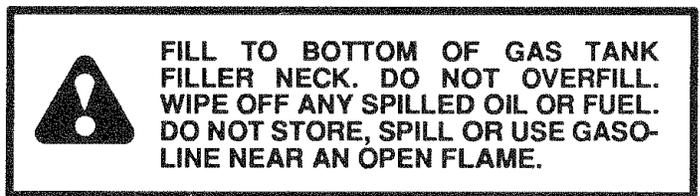


- This engine has been shipped filled with summer weight oil (For cold weather operation see chart page 16). Check engine oil level. Refer to REPAIR AND ADJUSTMENT section (page 16).

Changing oil after the first two hours (or two mowings) will help eliminate break-in residue which might be damaging to your engine.

- Fill fuel tank (Fig. 6). Use fresh, clean, regular unleaded gasoline. Capacity is 5 quarts (4.7 litres).

NOTE: FRESH, CLEAN WINTER GRADE FUEL MUST BE USED TO INSURE GOOD COLD WEATHER STARTING



CAUTION: 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 ANY ENGINE WHILE IN STORAGE.

TO AVOID ENGINE PROBLEMS, THE FUEL SYSTEM SHOULD BE EMPTIED BEFORE STORAGE FOR 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.

OPERATION

3. Starting the Engine

- Move throttle control lever (Fig. 7) past "FAST" to the "CHOKE" position.
- Fully depress clutch/brake pedal.
- Turn ignition key to "START" and release key as soon as engine starts.

CAUTION: DO NOT RUN STARTER CONTINUOUSLY FOR MORE THAN FIFTEEN SECONDS PER MINUTE.

- If engine does not start after four or five tries, move throttle control lever to "FAST" position, wait a few minutes and try again. If the engine does not start after four or five more tries, see the TROUBLESHOOTING Chart (page 25).
- After the engine starts move throttle control lever slowly to the "SLOW" position.
- To start a hot engine move the throttle control lever to a position between "FAST" and "SLOW".

READ THE "RULES FOR SAFE OPERATION" CAREFULLY BEFORE OPERATING YOUR MOWER.

DO NOT OVER LOAD TRACTOR BY TOWING WEIGHTS GREATER THAN 150 POUNDS (68 KG).



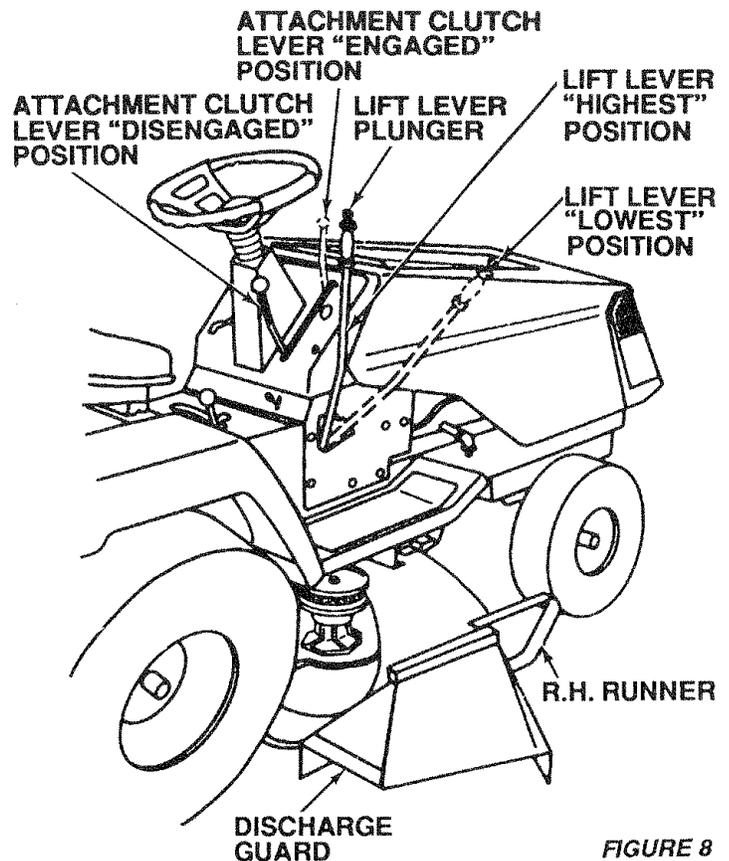
ALWAYS WEAR SUBSTANTIAL FOOTWEAR AND AVOID LOOSE FITTING CLOTHING THAT COULD GET CAUGHT IN MOVING PARTS.

DO NOT OPERATE THE MOWER WITHOUT EITHER THE ENTIRE GRASS CATCHER, ON MOWERS SO EQUIPPED, OR THE DEFLECTOR SHIELD IN PLACE.

CAUTION

TO AVOID INJURY

- Read owner's manual.
- Know location and function of all controls.
- Keep guards, safety shield 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 blades and back slowly down.
- Be sure blades and engine have stopped before placing hands or feet near the blades.
- Remove key when leaving machine.



WHEN PARKING BRAKE IS ENGAGED, MAKE SURE IT WILL KEEP TRACTOR FROM MOVING.



NEVER PLACE YOUR HANDS OR FEET IN OR UNDER ANY POWERED ATTACHMENT OR NEAR ANY MOVING PART WHILE TRACTOR OR ANY POWERED ATTACHMENT IS RUNNING.

4. Operating Your Lawn Tractor and Mower

NOTE: THIS TRACTOR IS EQUIPPED WITH AN OPERATOR PRESENCE SENSING SWITCH. ANY ATTEMPT BY THE OPERATOR TO LEAVE THE SEAT WITH THE ENGINE RUNNING AND THE ATTACHMENT CLUTCH LEVER ENGAGED WILL SHUT OFF THE ENGINE.

CAUTION: DO NOT ADD ADDITIONAL WEIGHT TO THE TRACTOR OTHER THAN THE OPTIONAL WHEEL WEIGHTS. EXCESSIVE WEIGHT MAY OVERLOAD AND DAMAGE THE TRANSAXLE.

- Depress lift lever plunger and move the attachment lift lever to the highest position. See Fig. 8.
- Start the engine. (See Starting the Engine).
- Move the throttle lever to mid range position. Fully depress clutch/brake pedal. Select a low (1st or 2nd) gear until you become more familiar with the operation of the unit.

OPERATION

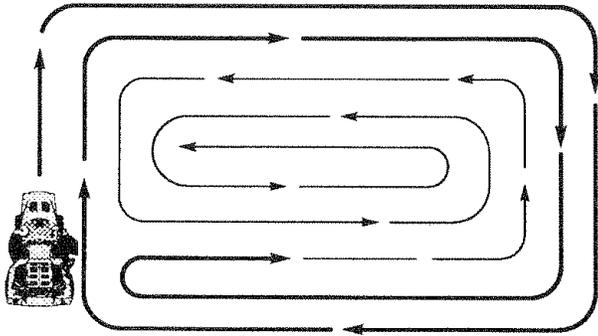


FIGURE 9

SPEED SELECTION GUIDE		
FUNCTION	GEARSHIFT	THROTTLE
Normal Mowing	2 or 3	
Heavy Mowing	1 or 2	
Snow Blowing	1	FAST
Snow Blade	2	
Transport	4-5	

- Slowly release clutch/brake pedal and proceed to the mowing area.
- Stop the unit, then select a mowing speed. (See Speed Selection Guide, above).
- Move throttle lever to half throttle and slowly move attachment clutch lever to engaged position, Fig. 8.
- Slowly release clutch/brake pedal.
- Move throttle lever to fast position.
- Observe height of cut and readjust as desired (see page 9).

CAUTION: BEFORE YOU MOVE THE GEARSHIFT LEVER, COME TO A COMPLETE STOP. FAILURE TO DO SO CAN RESULT IN GEAR BOX DAMAGE.

5. Mowing Tips

NOTE: TIRE CHAINS CANNOT BE USED WITH THE MOWER ATTACHED.

- Mower should be adjusted properly front to back and side to side for good mowing performance. Refer to REPAIR AND ADJUSTMENT section (page 22).
- Use the runner on the R.H. side as a guide; the blade cuts approximately an inch (2.54 cm) outside the runner (Fig. 8).
- 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 (Fig. 9), start by turning to the right so that the clippings will discharge away from shrubs, fences, driveways, etc. After two or three rounds, mow in the opposite direction making left hand turns until finished.
- If grass is extremely tall, it should be mowed twice. The first time cut relatively high; the second time to the desired height.
- The left hand side of mower should be used for trimming.
- See Speed Selection Guide.
- Do not mow tall, dry (brown) grass over 6 inches (15.24 cm) tall. It is a fire hazard.

6. Operating the Tractor on Hills



DO NOT DRIVE UP OR DOWN HILLS WITH SLOPES GREATER THAN 15° AND DO NOT DRIVE ACROSS ANY SLOPE. REFER TO PAGE 47.

- Move gearshift lever to "1st" gear before starting up or down hills.
- AVOID STOPPING OR SHIFTING ON HILLS.
- If slowing is necessary, move throttle control lever to slower position.



LEAVE ENOUGH ROOM WHEN STOPPING AND STARTING TO ALLOW SLIGHT TRACTOR ROLL DOWNHILL AS CLUTCH/BRAKE PEDAL MOVES THROUGH CLUTCH POSITION.

- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position.
- To restart tractor movement, make sure tractor is in the lowest speed range ("1st" Gear) and release clutch/brake pedal SLOWLY.
- Make all turns gradually.

7. Transporting Your Tractor

For pushing or towing your tractor, place gearshift lever in "N" position. Do not tow or push at more than 6 MPH (9.7 KPH).

MAINTENANCE

To keep your tractor running better and longer, perform necessary service using the following maintenance schedule:

WITH EVERY MOWING

1. Make sure all nuts on bolts are tight and cotter pins and retainer springs are secure.
2. Observe all safety precautions.
3. Keep tractor well lubricated (refer to page 24).
4. Make sure areas around muffler, engine and mower deck are clean and free of debris buildup.

FOR ANY ADJUSTMENTS, INSPECTION OR MAINTENANCE:

1. PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO "BRAKE" POSITION.
2. MOVE GEARSHIFT TO "N" NEUTRAL POSITION.
3. PLACE PARKING BRAKE IN "ENGAGED" POSITION. REMOVE FOOT FROM PEDAL.
4. PLACE ATTACHMENT CLUTCH LEVER IN "DISENGAGED" POSITION.
5. TURN IGNITION KEY TO "OFF" POSITION.
6. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED.
7. REMOVE THE IGNITION KEY.
8. DISCONNECT THE SPARK PLUG WIRE FROM THE SPARK PLUG AND KEEP WIRE AWAY FROM THE PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.



SERVICE RECORD	SERVICE DATES					
	FIRST 2 HOURS	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY 200 HOURS
Change Engine Oil	✓		✓			
Check Brake Operation	✓	✓				
Check Tire Pressure	✓	✓				
Clean Air Screen		✓	✓			
Clean Air Cleaner		✓	✓			
Lubricate Pivot Points (see page 24)		✓	✓			
Check Battery Level and Recharge		✓	✓			
Clean Battery and Terminals		✓	✓			
Carburetor Adjustment		✓	✓			
V-Belt Adjustment		✓	✓			
Clean Engine Cooling Fins			✓	✓		
Check Muffler			✓	✓		
Replace Air Cleaner Paper Cartridge				✓	✓	
Replace Spark Plug				✓	✓	
Replace Fuel Filter					✓	✓

REPAIR AND ADJUSTMENT

1. Brake Adjustment

This tractor is equipped with an adjustable brake system mounted on the right side of the transaxle (Fig. 10).



IF TRACTOR REQUIRES MORE THAN SIX FEET (1.8 METERS) STOPPING DISTANCE IN HIGHEST GEAR, THEN BRAKE MUST BE ADJUSTED.

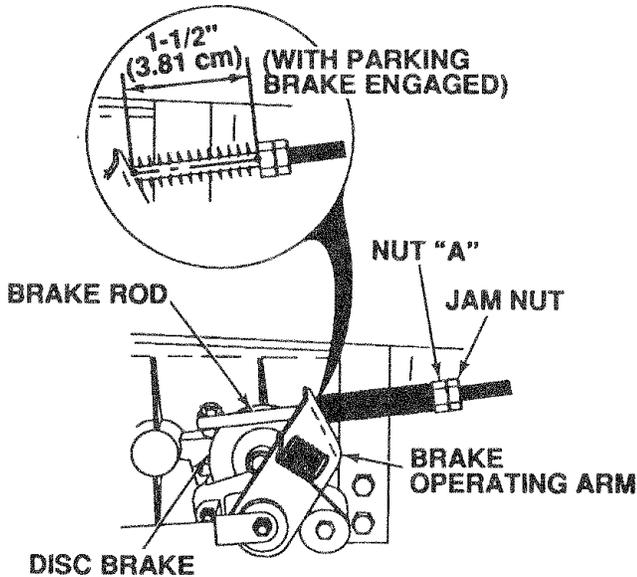


FIGURE 10

- 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" (3.81 cm), loosen jam nut (Fig. 10) and turn nut until distance becomes 1-1/2" (3.81 cm). Retighten jam nut against nut "A".

Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than 6 feet (1.8 meters) in highest gear, further maintenance is necessary. Contact your local Sears Service Center.

2. Tire Care

- Maintain tire pressure in front at 14 PSI (1Kg/cm²) and rear tires at 10 PSI (0.7 Kg/cm²).
- 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.
- Removing wheel for tire repair (Fig. 12).

- Block up axle securely.
- Remove hub cap, klip ring and washer to allow wheel removal (rear wheel contains a square key - Do Not Lose).
- Repair tire and reassemble. Align slots in rear wheel hub and axle. Insert square key. Replace washers and snap klip ring securely in axle groove. Replace hub cap.

NOTE: USE GREASE FITTINGS TO LUBRICATE FRONT WHEELS WITH GENERAL PURPOSE GREASE. APPLY AN ANTI-SEIZE OR GOOD GENERAL PURPOSE GREASE TO LUBRICATE REAR AXLES.

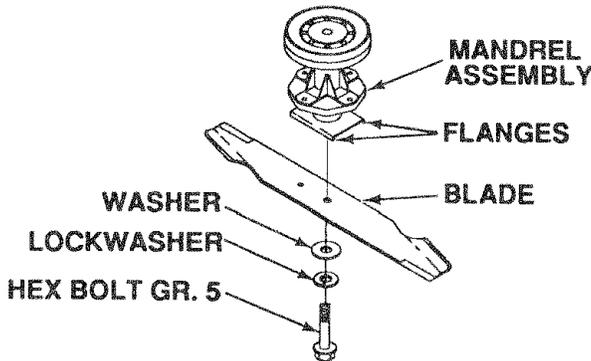


FIGURE 11

3. Blade Care

For best results mower blades must be kept sharp. The blades can be sharpened with a few strokes of a file, or on a grinding wheel. We suggest they be sharpened after every 25 hours of mowing. Do not attempt to sharpen while on mower. If you mow in sandy soil check the blades after each two mowings. The sand wears the blades away rapidly.

a. Blade Replacement

Raise mower to highest position to permit access to blades.

- Remove the hex head bolt, lockwasher and flat washer (Fig. 11) (turn counterclockwise).
- Remove and discard old blade.
- Clean top and bottom of mower housing.
- Install new blade with SHARP EDGE DOWN and secure with flat washer, lockwasher and hex head bolt. **TIGHTEN SECURELY.**

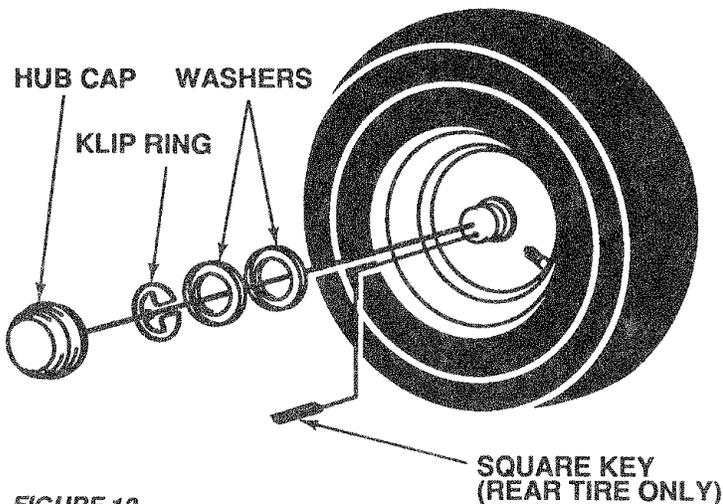
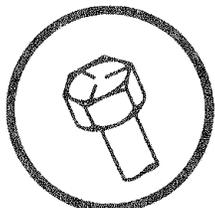


FIGURE 12



A GRADE 5 HEAT TREATED BOLT CAN BE IDENTIFIED BY THREE LINES ON THE BOLT HEAD AS SHOWN AT LEFT.



ALWAYS USE GRADE 5 HEAT TREATED BOLTS TO ATTACH BLADES. DO NOT USE PLATED BOLTS. CHECK BOLTS IN BLADES OCCASIONALLY TO MAKE SURE BOLTS ARE TIGHT. TORQUE BOLTS TO 30-35 FT.-LBS (41-47 Nm).

REPAIR AND ADJUSTMENT

- b. When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before reinstallation on mower. An unbalanced or bent blade will cause excessive vibration when running, and eventual damage to mower or engine. Replace bent or damaged blades.
- c. To check blade balance, drive a nail into a beam or wall. Leave about one inch (2.54 cm) of the straight nail exposed. Place center hole of clean blade over the head of the nail (Fig. 13). NOTE: CENTER THE HOLE OF BLADE ON NAIL. IF BLADE IS PROPERLY BALANCED, BLADE SHOULD REMAIN IN POSITION SHOWN IN FIG. 13. IF EITHER END OF THE BLADE MOVES DOWNWARD, BLADE IS NOT BALANCED. SHARPEN THE HEAVY END UNTIL BLADE IS BALANCED.

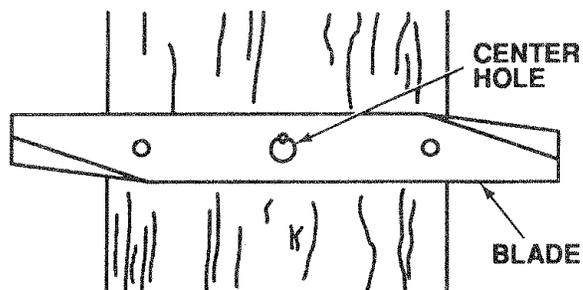


FIGURE 13

4. Battery Care

CHECK BATTERY

- a. Battery acid solution level in each battery cell should be even with bottoms of vent tubes in cells (Fig. 14). Add **ONLY** distilled or iron free water if necessary. NOTE: DO NOT OVERFILL.
- b. Keep battery and terminals clean.
- c. Keep battery bolts tight.
- d. Keep vent caps tight and small vent holes in caps open.
- e. Recharge with auto battery charger.

NOTE: OVERCHARGING WILL SHORTEN BATTERY LIFE.

CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals cause the battery to "leak" power and hinders the operation of the charger.

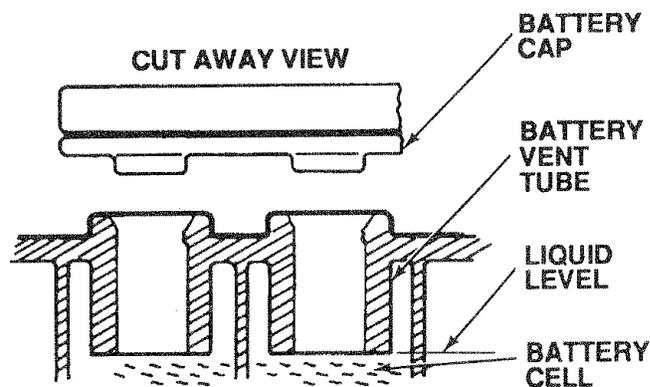


FIGURE 14

 **LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS WEAR EYE PROTECTION WHEN AROUND BATTERIES.**

- a. Remove terminal guard.
- b. Disconnect **BLACK** battery cable, then **RED** battery cable, and remove battery from tractor.
- c. Wash battery with four tablespoons (60 grams) of baking soda in one gallon (3.8 litres) of water. NOTE: BE CAREFULL NOT TO GET THE SODA SOLUTION INTO THE CELLS.
- d. Rinse the battery with plain water, dry and reinstall on tractor.
- e. Clean terminals and battery cable ends with wire brush until bright.
- f. Replace battery cables, connecting **RED** battery cable to positive terminal first, then **BLACK** battery cable to negative terminal. Coat terminal connections with grease after installation of cables.
- g. Replace terminal guard.

5. Change Engine Oil

The best time to change engine oil is at the end of a day's operation when all dirt and foreign materials are suspended in the hot oil.

Capacity is 1-1/2 quarts (1.4 litres). NOTE: DO NOT OVERFILL. Dipstick assembly must be securely tightened into tube at all times when engine is operating.

REPAIR AND ADJUSTMENT

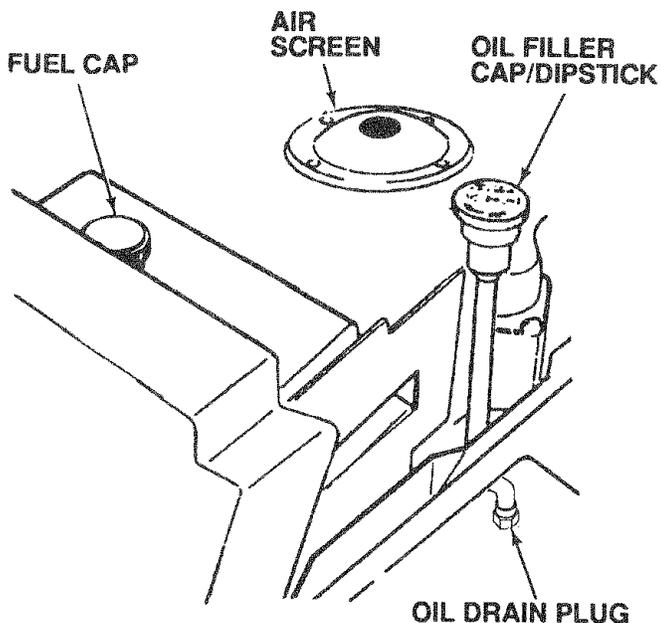


FIGURE 15

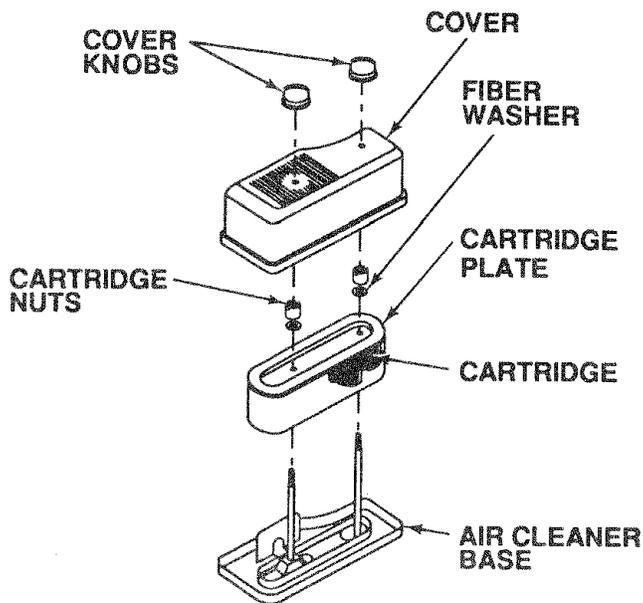


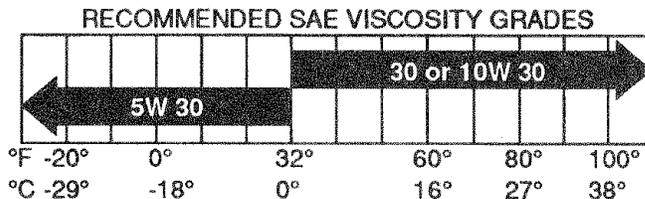
FIGURE 16

IMPORTANT: TO AVOID DAMAGE TO THE STARTING SYSTEM, USE SAE 5W30 OIL WHEN THE TEMPERATURE FALLS BELOW 32°F (0°C).

RECOMMENDED SAE VISCOSITY GRADES

Determine temperature range expected before next oil change. All oil must meet A.P.I. service classification SD, SE or SF.

- Remove oil drain plug to drain engine oil. Tighten plug securely before filling with fresh oil.
- Add oil through the oil filler cap/dipstick (Fig. 15).



6. Check Engine Oil Level

NOTE: DO NOT CHECK ENGINE OIL LEVEL WITH ENGINE RUNNING.

Several minutes after stopping engine, check engine oil level with tractor on level ground. Wipe dipstick (Fig. 15) clean, screw it down tight for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark is reached. (See chart above). **NOTE:** DO NOT OVERFILL.

7. Clean Air Cleaner Element (Fig. 16)

- Remove two cover knobs and remove air cleaner cover.
- Remove two nuts from top of cartridge.
- Remove cartridge and clean air cleaner body carefully to prevent dirt from entering carburetor.
- Clean cartridge by gently tapping on flat surface. If very dirty, replace cartridge.
- Reassemble air cleaner.

NOTE: NUTS HOLDING AIR CLEANER CARTRIDGE MUST BE INSTALLED WITH FIBER WASHERS DOWN ON CARTRIDGE PLATE TO PREVENT DIRT FROM ENTERING CARBURETOR. TIGHTEN NUTS BY HAND. OVER TIGHTENING COULD COLLAPSE CARTRIDGE.

NOTE: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

8. Clean Air Screen and Engine Cooling Fins



Air screen and cooling fins (Fig. 17) must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and dried gum fibers.

- Remove four bolts from blower housing.
- Remove screws from starter housing.
- Pull oil filler/dipstick out of crankcase if clearance is required. Cover opening to prevent entry of dirt.
- Pull blower housing up and away from starter.

NOTE: LEAVE AIR CLEANER IN PLACE TO PREVENT DEBRIS FROM GETTING INTO CARBURETOR.

- Use compressed air or stiff bristle brush to thoroughly clean engine fins.
- To reassemble, reverse above procedure.

REPAIR AND ADJUSTMENT

9. Check Muffler

Inspect and replace damaged muffler and/or deflector as it could create a fire hazard and/or damage.



DO NOT TOUCH HOT MUFFLER, CYLINDER OR FINS AS CONTACT MAY CAUSE BURNS.

10. Lubricate Pivot Points

Place several drops of SAE 30 oil at points where metal parts move against each other. See Lubrication Chart, page 24.

11. Starting Your Tractor With a Weak Battery

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:

NOTE: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUND SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUND SYSTEM.



LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS WEAR EYE PROTECTION WHEN AROUND BATTERIES.

- Connect each end of the **RED** jumper cable to the **POSITIVE(+)** terminals of each battery (taking care not to short against chassis). (Fig. 18).
- Connect one end of the **BLACK** jumper cable to the **NEGATIVE (-)** terminal of fully charged battery.
- Connect the other end of the **BLACK** jumper cable to the L.H. side panel bolt (Fig. 19) **NOTE: KEEP AWAY FROM GAS TANK AND BATTERY.**
- Disconnect cables in reverse order:
 - L.H. side panel bolt (Fig. 19)
 - Negative terminal of fully charged battery
 - Positive terminals



DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES

12. Throttle Control Cable Adjustment

Never attempt to change maximum engine speed. This is preset at the factory and should only be changed by a qualified service technician who has the necessary equipment. **CAUTION: BEFORE ANY ENGINE ADJUSTMENT, MAKE SURE AIR CLEANER IS CLEAN.** Remove air cleaner assembly while making adjustments.

- With engine off, place throttle control in "FAST" position.
- Loosen clamp screw (Fig. 20). Adjust throttle cable until holes "A" are aligned in governor control plate and side plate.
- Tighten clamp screw.
- If holes do not align, repeat steps in throttle cable adjustment.

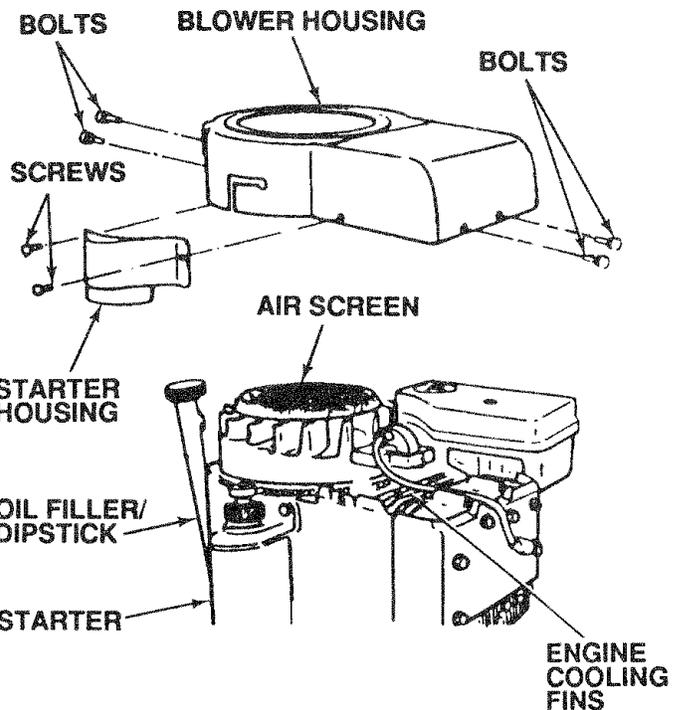


FIGURE 17

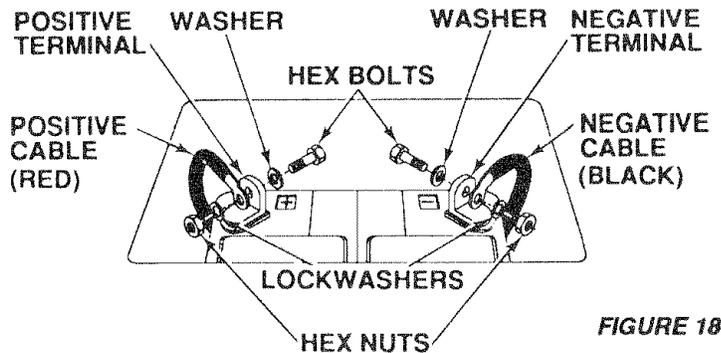


FIGURE 18

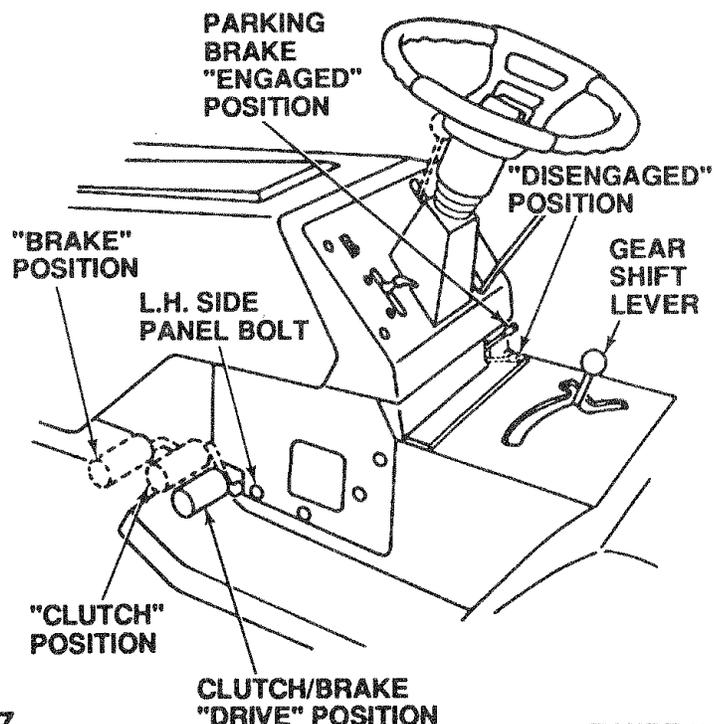


FIGURE 19

REPAIR AND ADJUSTMENT

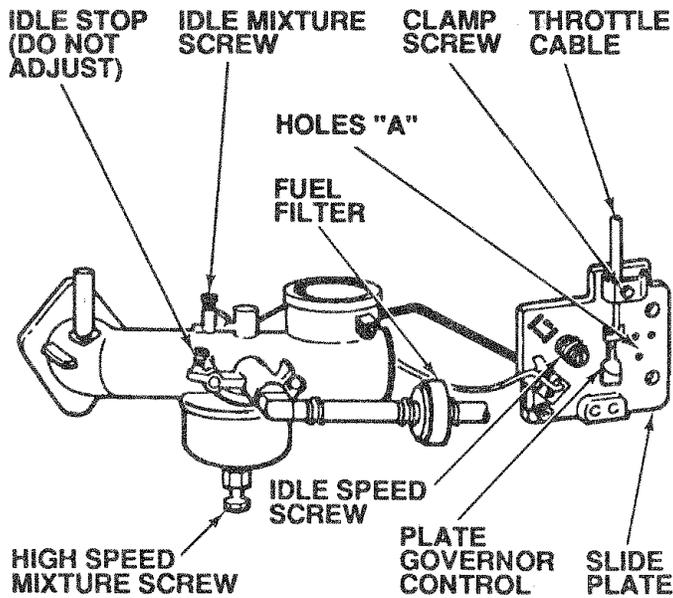


FIGURE 20

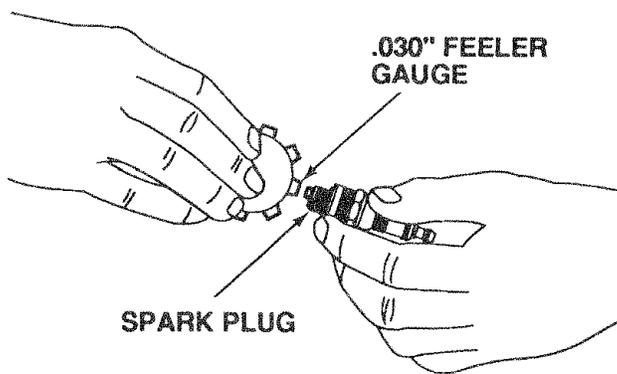


FIGURE 21

- b. Loosen clamp screw (Fig. 20). Adjust throttle cable until holes "A" are aligned in governor control plate and side plate.
- c. Tighten clamp screw.

13. Carburetor Adjustment

- a. With engine off turn high speed mixture screw clockwise closing finger tight ONLY, and turn counterclockwise 1-1/2 turns (Fig. 20).

NOTE: THE SCREW SEAT MAY BE DAMAGED BY TURNING IT TOO FAR CLOCKWISE.

- b. Turn idle mixture screw clockwise closing finger tight only, and turn counterclockwise 1-1/2 turns (Fig. 20).



REFER TO "STARTING THE ENGINE" PAGE 11.

- c. Start engine and allow to warm for five minutes. Make final adjustment with engine running and gear shift lever in "NEUTRAL" position.
- d. With throttle control lever in "FAST" position, turn high speed mixture screw counterclockwise until engine runs "rough" and then turn clockwise until engine begins to miss. Turn screw to a point midway between these positions.
- e. With throttle control lever in "SLOW" position, hold throttle lever so that idle stop screw is against carburetor, turn idle mixture screw counterclockwise until engine runs "rough" and then turn clockwise until engine begins to die. Turn idle mixture screw to a point midway between these positions.
- f. With throttle control lever in "SLOW" position engine should idle at 1750 RPM. If engine idles too slow, push throttle control lever above idle and turn idle speed screw one turn clockwise. Set throttle control lever at "SLOW". Repeat until satisfactory idle is attained.
- g. If engine idles too fast with throttle control lever in "SLOW" position push throttle control lever above idle and turn idle speed screw one turn counterclockwise. Set throttle control lever at "SLOW". Repeat until satisfactory idle is attained.

14. Replace Spark Plug

Replace spark plug at the beginning of each mowing season or every 100 hours, whichever comes first. Gap should be set a 0.030 inch (0.762 mm) (Fig. 21).

15. Replace In-line Fuel Filter

BE SURE THERE ARE NO FUEL LINE LEAKS AND THAT HOSE CLAMPS ARE PROPERLY INSTALLED.

If fuel filter is clogged, obstructing fuel flow to carburetor, replacement is required.

- a. With engine cool, remove filter and plug fuel line sections that were removed from both ends of fuel filter (Fig. 20).
- b. Place new fuel filter in position in fuel line.

REPAIR AND ADJUSTMENT

16. Motion Drive Belt Removal

The tractor drive belt may be replaced without tools. Park the tractor on level area. Engage parking brake. NOTE: A BELT INSTALLATION DECAL IS UNDER LEFT FOOTREST.

- Remove mower. (See page 21).
- Remove two retainer springs from belt guide bracket below transaxle pulley. Remove bracket (Fig. 22).
- Swing belt guides away from belt, toward rear of tractor (Fig. 22).
- Roll belt over top of transaxle pulley.
- Roll belt over engine pulley and off idler (Fig. 23).
- Release parking brake. Pull belt as far as possible over top of clutch pulley.
- Reset parking brake. Pull belt over top of clutch pulley (Fig. 23).
- Pull belt out through shift gate to remove from tractor (Fig. 24).
- Install belt by reversing above procedure.

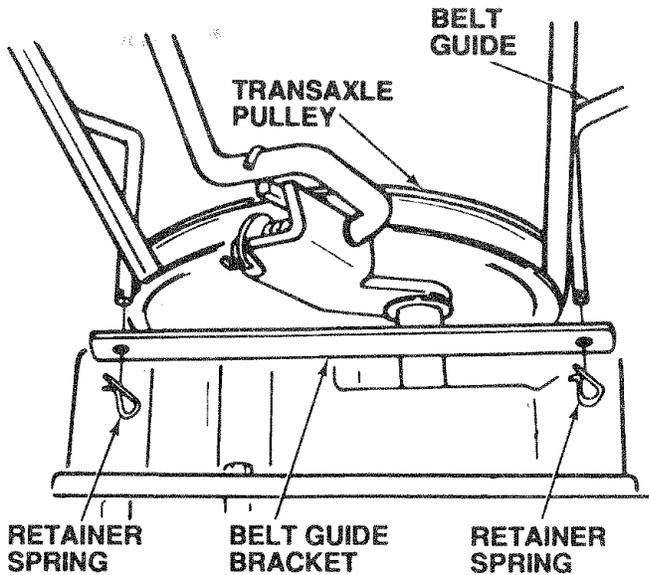


FIGURE 22

 REPLACE BELT ONLY WITH THE BELT LISTED IN THE REPAIR PARTS SECTION OF THIS MANUAL.

17. Fuse Replacement

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

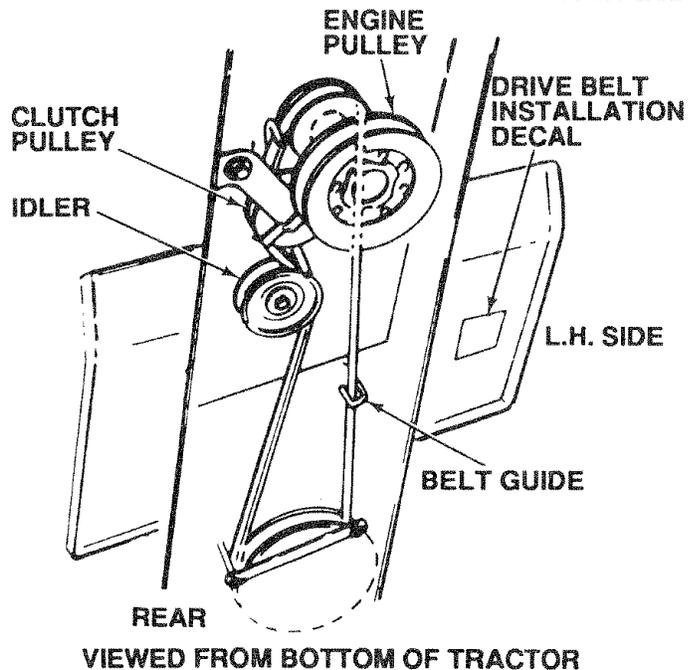


FIGURE 23

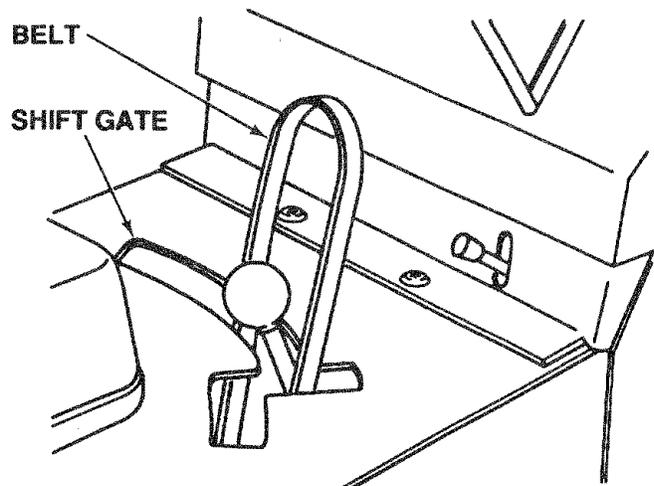


FIGURE 24

REPAIR AND ADJUSTMENT

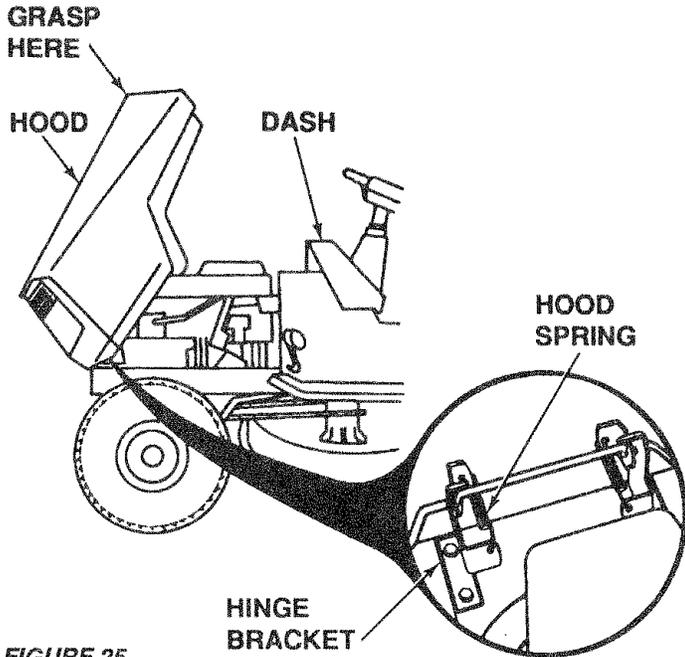


FIGURE 25

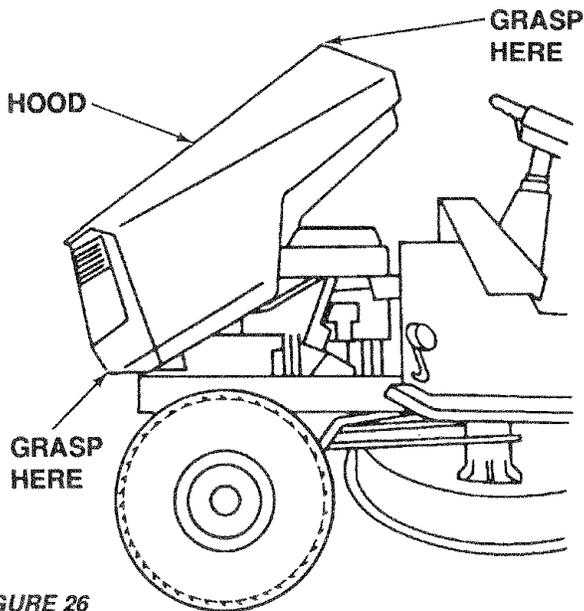


FIGURE 26

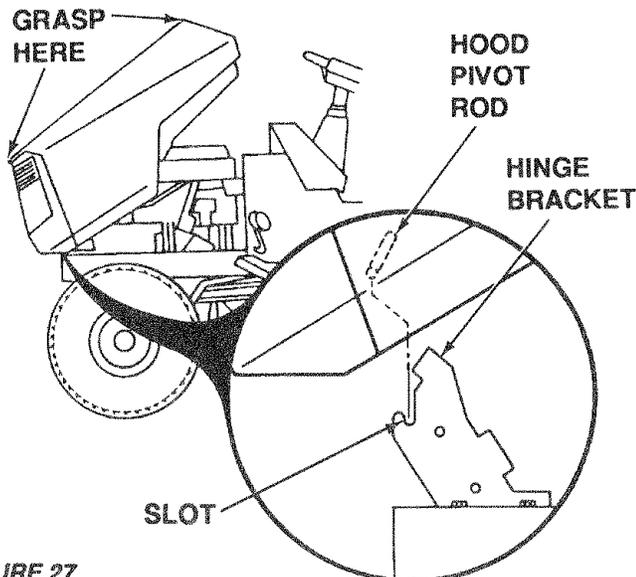


FIGURE 27

18. Hood Removal



KEEP FEET CLEAR FROM UNDER MOWER DECK.



DO NOT TOUCH HOT MUFFLER, ENGINE CYLINDER OR COOLING FINS AS CONTACT MAY CAUSE BURN.

- Grasp hood at edge next to dash and open hood to full up position (Fig. 25).
- Disconnect headlight connection (Fig. 28).
- Carefully remove hood springs from hinge brackets (Fig. 25).



SPRINGS ARE UNDER TENSION. WEAR SAFETY GOGGLES DURING REMOVAL AND INSTALLATION.

- Lower hood half way and grasp at the bottom of the grill and at the upper hood edge (Fig. 26). Lift hood up, out and away from tractor.
- Place hood carefully on the ground.

19. Hood Installation

- Pick hood up at top of grill and upper hood edge (Fig. 27).
- Align hood pivot rod with hinge brackets. Rotate hood half way down, slide pivot rod in and down into hinge slots (Fig. 27).
- Open hood to full up position (Fig. 25).
- Carefully reinstall hood hinge springs (Fig. 25).
- Reconnect headlight connection.
- Close hood.

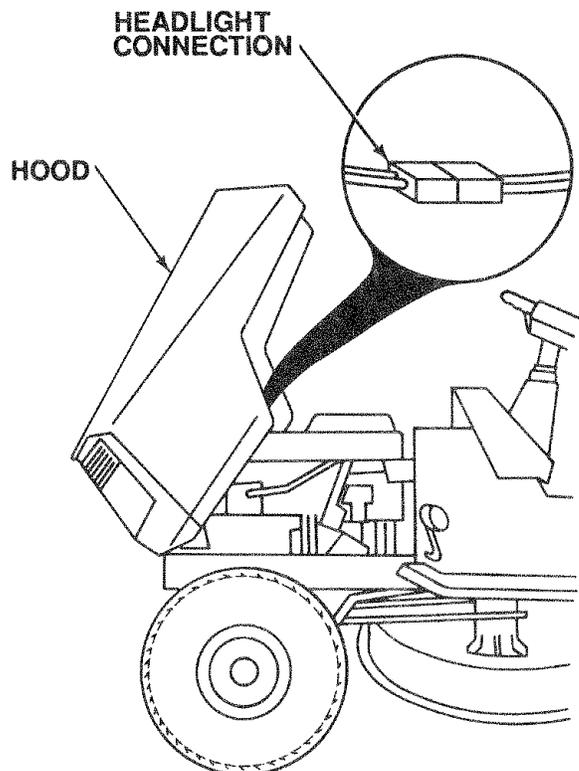


FIGURE 28

REPAIR AND ADJUSTMENT

20. Mower Removal

- Remove mower belt per instructions under "Mower Drive Belt Removal" through step (c).
- Remove retainer spring from clutch rod; pull clutch rod out of clutch bracket. (Fig. 29)
- Pull retainer springs out of rear suspension trunnions. Remove rear suspension trunnions from lift brackets (Fig. 29).
- Pull retainer spring out of rear hinge pin. Remove rear hinge pin. (Fig. 29).
- Pull retainer spring out of front hinge pin. Remove front hinge pin (Fig. 29).
- Use lift lever to raise suspension arms. Slide mower out from under tractor.

NOTE: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, THE L.H. AND R.H. SUSPENSION ARMS (FIG. 29) SHOULD BE REMOVED FROM TRACTOR.

21. Mower Installation

Your Mower installs without the use of tools. Raise attachment lift lever (Fig. 30) to its highest position:

- Slide mower under tractor discharge guard to R.H. side.
- Install front hinge pin through axle and parallel link (Fig. 32). Secure with retainer spring.
- Install rear hinge pin through mower lift brackets and parallel link (Fig. 32). Secure with retainer spring.
- Install clutch rod in clutch lever (Fig. 32).
- Move attachment lift lever (Fig. 30) forward to lower suspension arms. Slide trunnions through lift bracket holes and secure with retainer springs (Fig. 29).
- Roll belt over engine pulley. Make sure belt is inside belt guides (Fig. 32). See belt drive schematic decal on mower housing.
- Use attachment lift lever (Fig. 30) to raise mower.
- Push lift lever plunger down and position attachment lift lever to desired cutting height (Fig. 31). Release lift lever plunger.

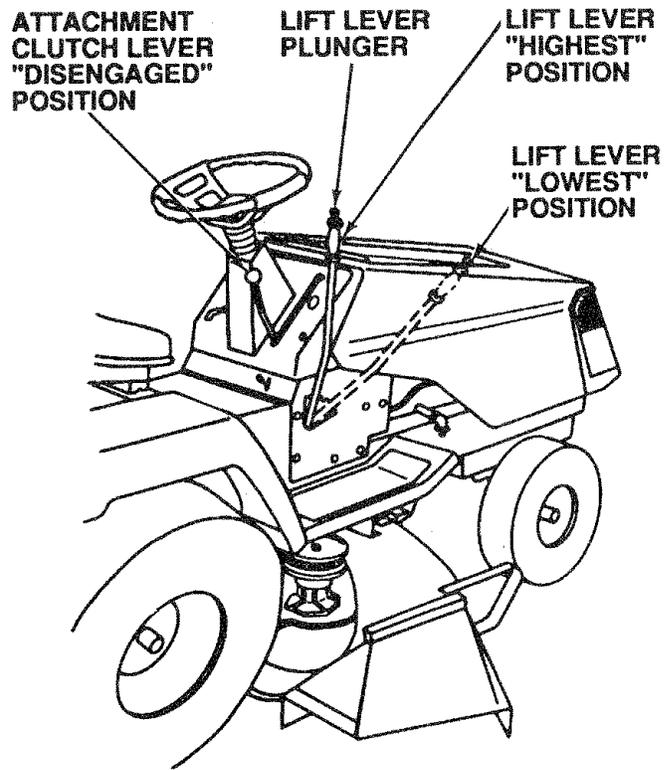


FIGURE 30

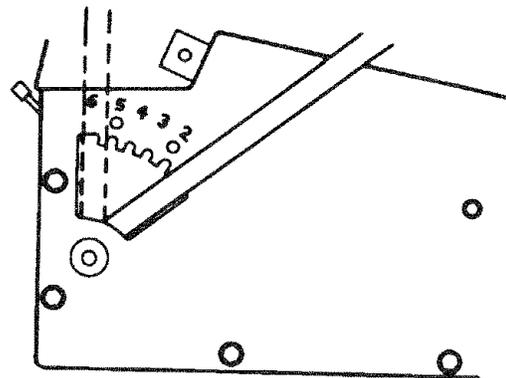


FIGURE 31

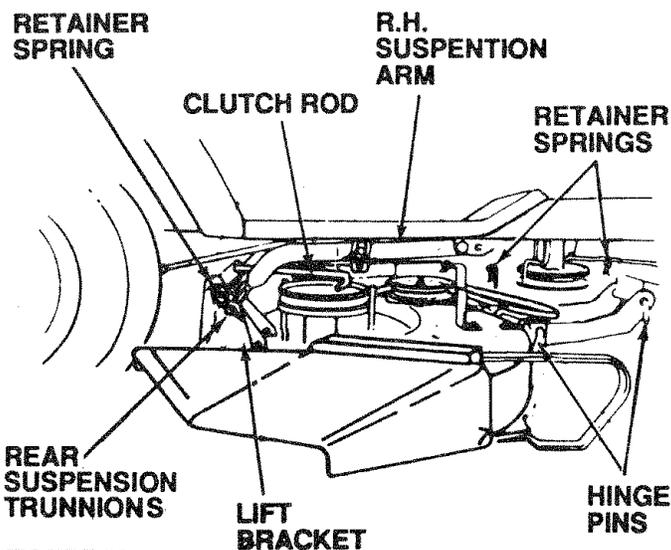


FIGURE 29

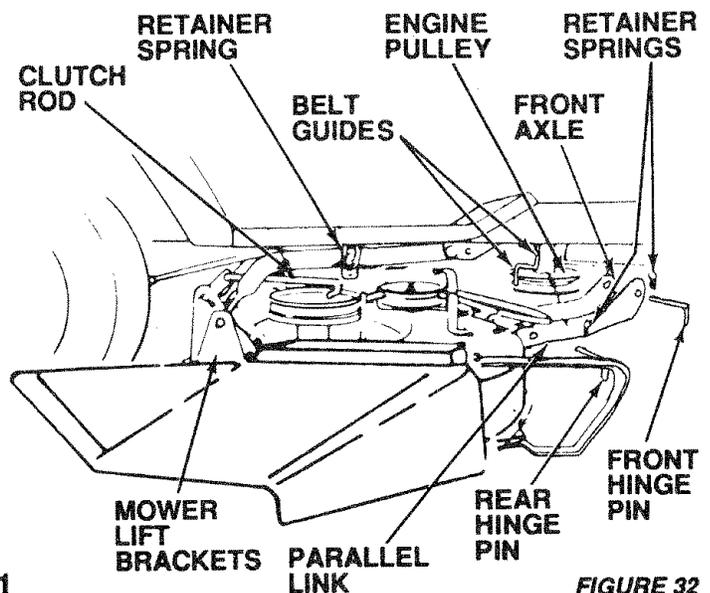


FIGURE 32

REPAIR AND ADJUSTMENT

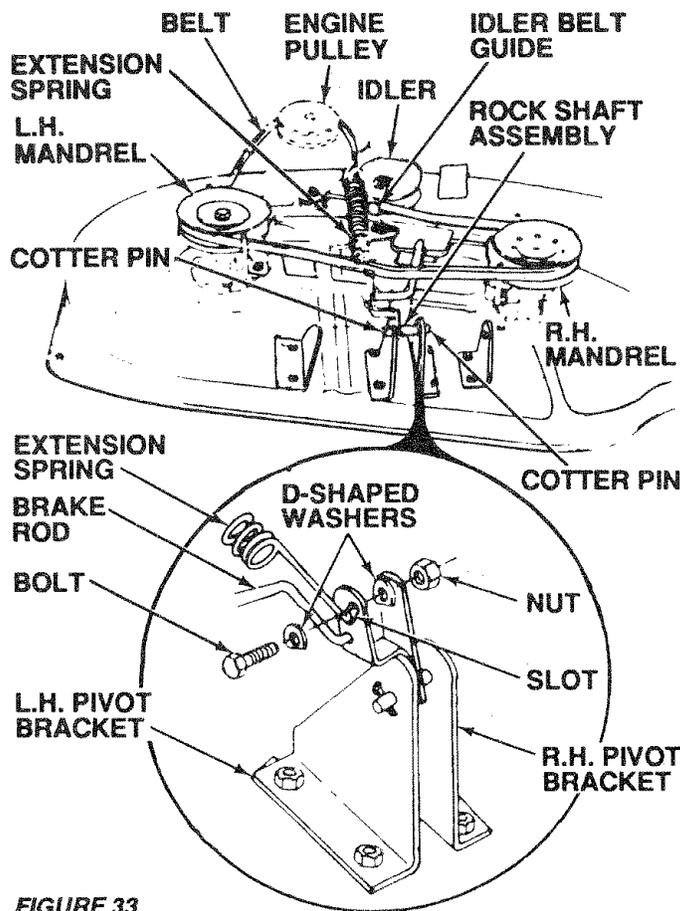


FIGURE 33

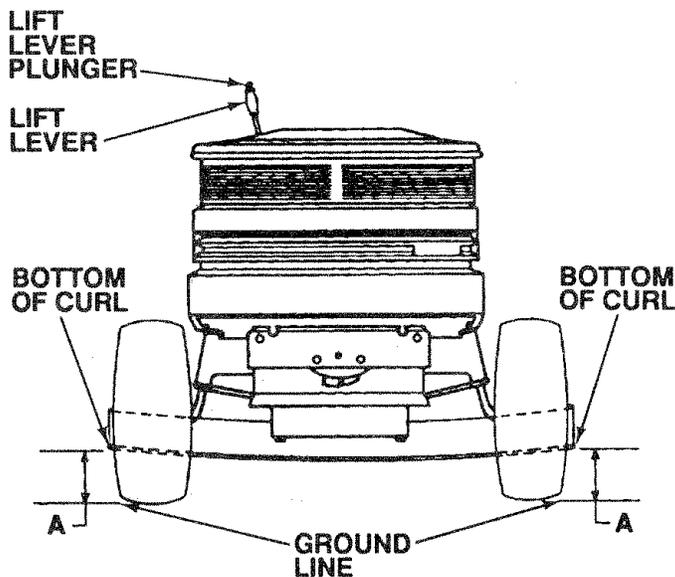


FIGURE 34

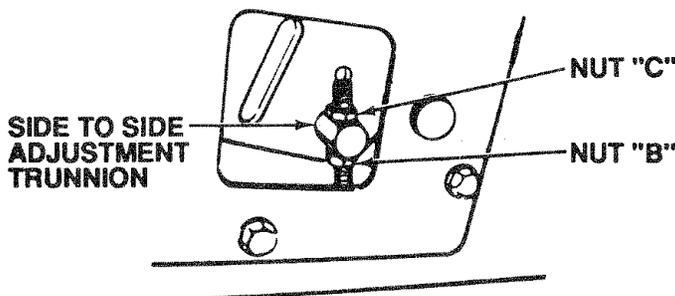


FIGURE 35

22. Mower Drive Belt Removal

NOTE: MOWER BELT INSTALLATION DECAL LOCATED ON MOWER HOUSING.

REPLACE ONLY WITH THE BELTS SPECIFIED IN THIS MANUAL.

- Place attachment clutch lever in "Disengaged" position (Fig.30).
- Move Attachment lift lever (Fig. 30) forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Pull belt off both mower deck pulleys.
- Spring belt guide away from idler pulley and pull belt off idler pulley.
- Slide belt from under extension spring.

23. Mower Drive Belt Replacement

- Slide belt under extension spring (Fig. 33).
- Place belt on rear side of both mandrel pulleys.
- Spring idler belt guide down and place belt around rear side of idler pulley.
- Roll belt over engine pulley.
- Make sure belt is inside all belt guides.

NOTE: WHEN INSTALLING A NEW BELT, EXTENSION SPRING MUST BE RETURNED TO LOWER END OF SLOT (ORIGINAL POSITION) ON ROCK SHAFT ASSEMBLY.

24. Mower Drive Belt Adjustment

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

If the attachment clutch lever travels 4-1/2" (11.43 cm) up the slot in the dash before spring resistance is evident, adjustment is necessary. NOTE: CHECK FOR PROPER SPRING TENSION WITH THE ENGINE OFF AND THE LIFT LEVER IN THE HIGHEST POSITION.

- Lower the mower deck for easier access.
- Using (2) 7/16" wrenches, remove the bolt, nut & D-Shaped washers (Fig. 33 - inset).
- Move extension spring from lower end of slot to upper end in rock shaft assembly and install bolt, nut & the D-Shaped washers.
- Tighten bolt and nut to secure the D-shaped washers (flat side down).

25. Level Mower Housing

Adjust the mower while tractor is parked on level ground or driveway. Make sure tire pressure is correct. If tires are over or under inflated, you will not properly adjust your mower.

SIDE-TO-SIDE MOWER ADJUSTMENT

- Depress lift lever plunger and use lift lever to raise mower to maximum cutting height (Fig. 31).
- Measure height from bottom of curl to ground line at front of mower. Distance "A" should be the same on both sides (Fig. 34).
- If distance "A" needs to be changed, snap out access hole cover on L.H. side above footrest. Use 11/16" wrench on nuts "B" and "C" at side-to-side adjustment trunnion (Fig. 35).
- 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".

REPAIR AND ADJUSTMENT

NOTE: ONE ROTATION OF ADJUSTMENT NUTS IS EQUIVALENT TO APPROXIMATELY 3/16" (4.75 mm) HEIGHT CHANGE.

- f. Be sure all nuts are securely tightened.
- g. Replace cover.

FRONT-TO-REAR MOWER ADJUSTMENT

- a. To obtain the best cutting results, your mower housing should be adjusted so the front and rear flange distance "D" (Fig. 36) is 1/2" (1.27 cm) lower in front when the mower is positioned in the highest cutting position.

NOTE: MEASURE DISTANCE "D" FROM GROUND LINE TO BOTTOM OF CURL ON RIGHT REAR FLANGE AND COMPARE TO DISTANCE "D" AT BOTTOM OF CURL ON RIGHT FRONT FLANGE.

- b. To raise rear of mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" up EQUAL NUMBER OF TURNS (Fig. 37).
- c. When distance "D" is 1/2" (1.27 cm) lower at front than rear tighten nuts "E".
- d. To lower rear of mower, loosen nut "F" on both rear suspension arms an EQUAL NUMBER OF TURNS (Fig. 37).
- e. When distance "D" is 1/2" (1.27 cm) lower at front than rear, retighten nuts "E".

NOTE: WHEN ADJUSTING REAR SUSPENSION TRUNNIONS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL.

26. Storage

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.

A. Fuel System

It is important to prevent gum deposits from forming in essential fuel system parts such as the 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. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer.

B. Engine Oil

Drain (with engine warm) and replace with clean engine oil, (See chart page 16).

C. Cylinder

1. Remove spark plug.
2. Pour one ounce (29.5 ml) of oil through spark plug hole in to cylinder
3. Turn ignition key to "START" position for a few seconds to distribute oil.
4. Replace with new spark plug.

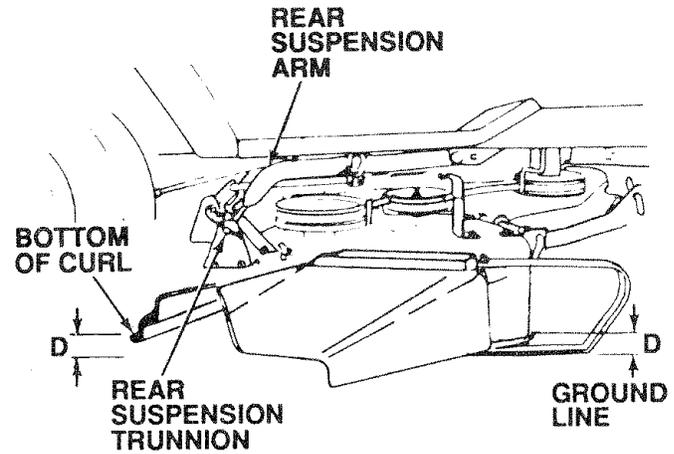


FIGURE 36

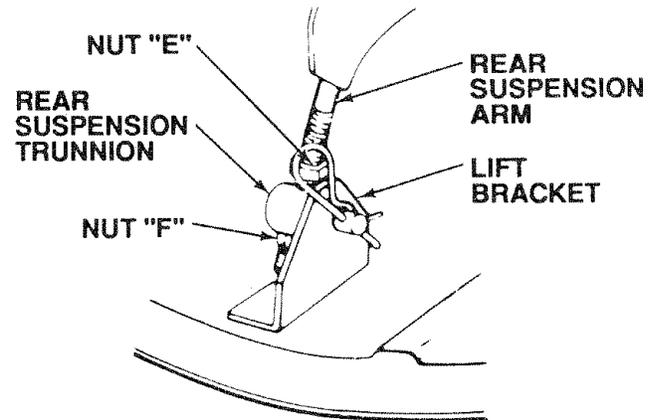


FIGURE 37

D. Battery



LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS WEAR EYE PROTECTION WHEN AROUND BATTERIES.

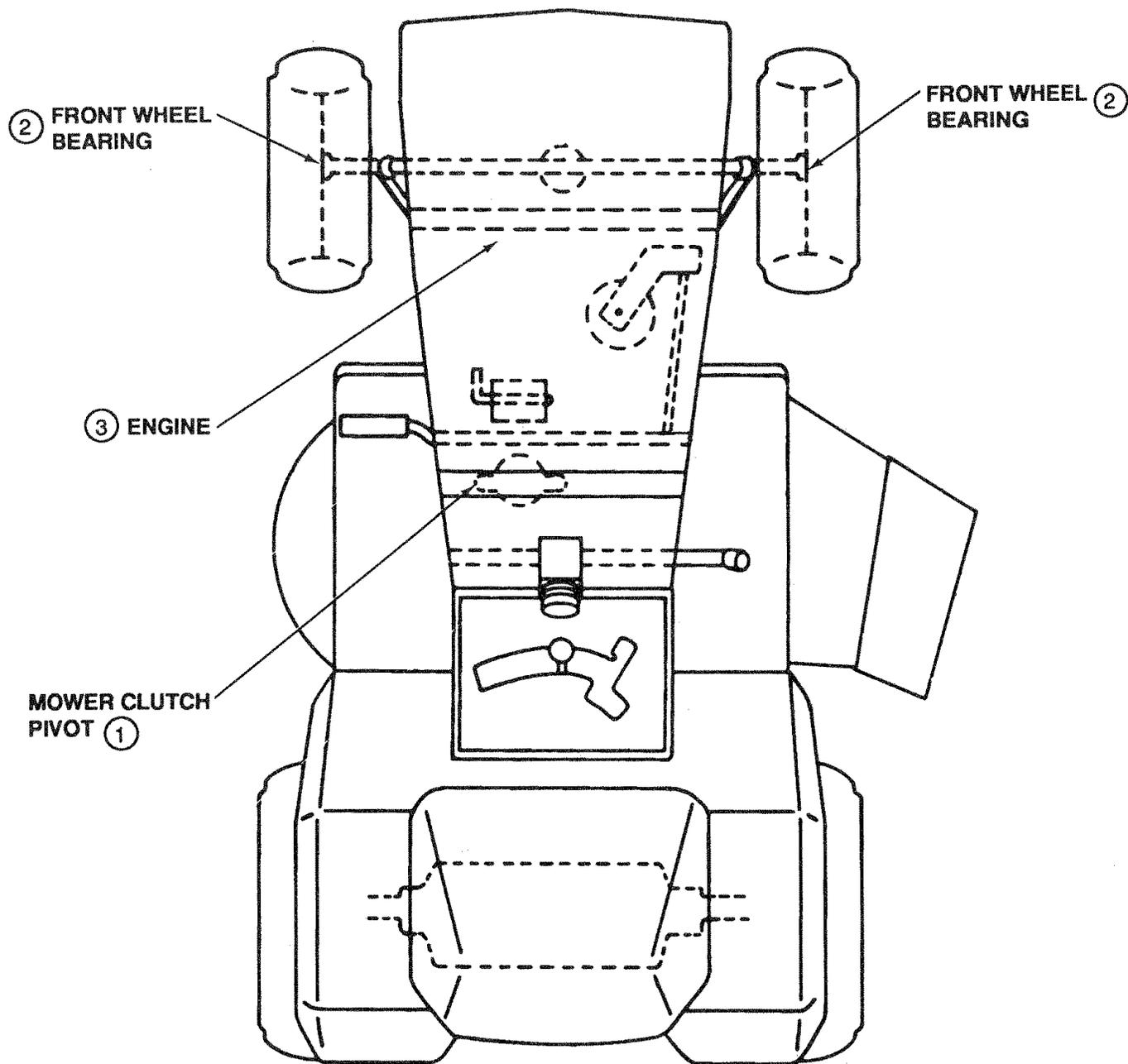
1. Prior to storage, clean terminals and top of battery.
2. Disconnect **BLACK** battery cable from negative side of battery.
3. Disconnect **RED** battery cable from positive side of battery.
4. Position cables down and away from battery.

E. General Cleaning

Clean engine, battery, seat, finish, etc. of all foreign matter.

REPAIR AND ADJUSTMENT

LUBRICATION CHART



① SAE 30 MOTOR OIL

② GENERAL PURPOSE GREASE

③ REFER TO PAGE 16 FOR
ENGINE OIL SPECIFICATIONS

TROUBLESHOOTING

PROBLEM ➔ CAUSE/REMEDY

WILL NOT START	<ul style="list-style-type: none">➔ Push Clutch/Brake Pedal into Brake position➔ Move Attachment Clutch Lever to "Disengaged" position➔ Fill Tank with Gasoline. Check Fuel Line and Carburetor (clean if necessary). Replace Fuel Filter. Use Fresh Fuel➔ Check Fuse for fault and replace➔ Recharge or replace Battery➔ Check Wiring➔ Replace Spark Plug(s) and adjust gap
WILL NOT TURN OVER	<ul style="list-style-type: none">➔ Push Clutch/Brake Pedal into brake position➔ Charge or replace Battery➔ Move Mower Clutch Lever to "DISENGAGED" position➔ Replace Ignition Switch➔ Replace Interlock Switch(es)➔ Replace Solenoid or Starter➔ Check for fault and replace Fuse➔ Check all Wire Connections and "Ground" Points
ENGINE CLICKS BUT WON'T START	<ul style="list-style-type: none">➔ Clean Battery Terminals➔ Replace Starter or Solenoid➔ Charge or Replace Battery➔ Check Wire Connections and "Ground" Points
HARD TO START	<ul style="list-style-type: none">➔ Place Throttle Control in "FAST" position and run starter several times to clear out gas➔ Remove Air Filter and clean➔ Replace Spark Plug(s) and adjust gap➔ Recharge or replace Battery➔ Check the Wiring➔ Drain Fuel Tank and Carburetor. Use Fresh Fuel. Replace Fuel Filter➔ Make necessary adjustments to Carburetor➔ Major Engine Overhaul
ENGINE MISSES OR LACKS POWER	<ul style="list-style-type: none">➔ Shift to a lower gear or reduce load➔ Drain Gas Tank and Carburetor. Use Fresh Fuel➔ Remove and clean Air Cleaner➔ Make necessary Carburetor adjustments➔ Clean Air Screen➔ Add or change oil➔ Replace Spark Plug(s) and adjust gap➔ Check for loose wires➔ Replace Fuel Filter➔ Major Engine Overhaul
ENGINE OVERHEATS	<ul style="list-style-type: none">➔ Shift to lower gear or reduce load➔ Clean Air Screen➔ Add or change oil➔ Clean Engine Cooling Fins➔ Remove and clean Muffler or replace➔ Remove and clean Air Filter➔ Use fresh fuel and adjust Carburetor➔ Drain and replace oil for proper temperature

TROUBLESHOOTING

NO LIGHTS ⚡ Check Fuse, Switch and Wire Connections. Replace Headlight Bulbs
⚡ Replace Switch

WON'T CHARGE ⚡ Check Fuse for fault and replace
⚡ Replace Battery
⚡ Replace Regulator
⚡ Replace Alternator

**ENGINE WILL NOT SHUT DOWN
WHEN OPERATOR LEAVES SEAT**

⚡ NOTE: This tractor is equipped with an operator presence sensing system. Any attempt by the operator to leave the seat with the engine running and the mower clutch engaged will shut down the engine.
⚡ Check all Wire connections
⚡ Check Seat Switch
⚡ Check Operator Presence Relay

**UNSATISFACTORY MOWER PERFORMANCE
UNEVEN DISTRIBUTION OF CLIPPINGS**

⚡ Place Throttle Control in "FAST" position
⚡ Check air pressure in Tires
⚡ Check front-to-rear and side-to-side Mower adjustment
⚡ Use a slower ground speed
⚡ Replace Mower Blades
⚡ Reinstall Mower Blades with Sharp Edge down
⚡ Replace with proper Mower Blades
⚡ Readjust Mower Drive Belt
⚡ Clean underside of Mower Deck

MOWER BLADES WILL NOT ROTATE

⚡ Correct Clutch mechanism interference
⚡ Install new Mower Drive Belt
⚡ Adjust Mower Drive Belt
⚡ Replace frozen Mandrel
⚡ Replace frozen Idler Pulley

EXCESSIVE MOWER VIBRATION

⚡ Replace bent or unbalanced Blades
⚡ Replace Mandrel. Replace Deck

**WINDROWING STRIPPING OR
DROPPING OF GRASS CLIPPINGS**

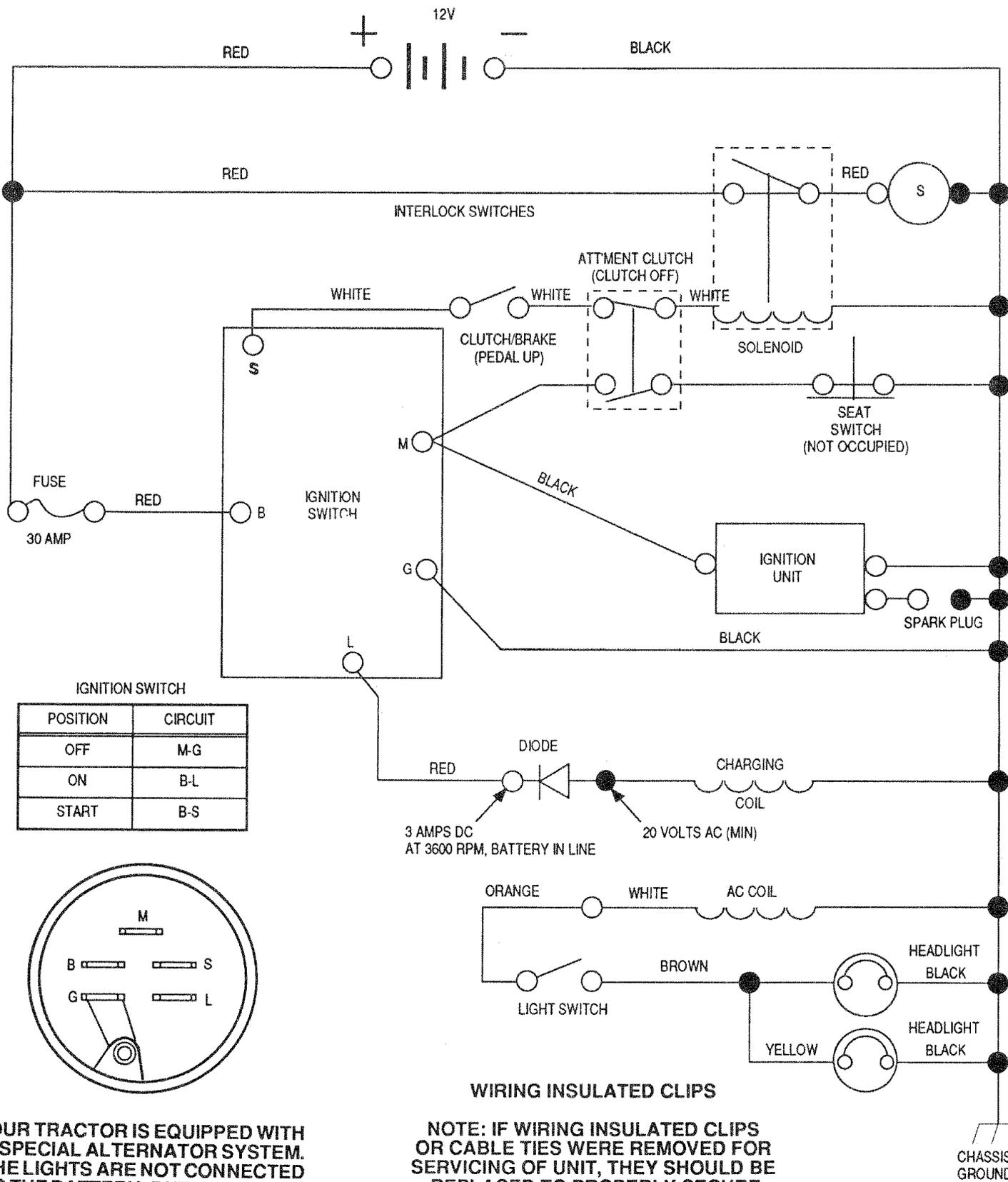
⚡ Set Throttle for maximum engine speed
⚡ Let grass dry out
⚡ Clean underside of Mower Deck
⚡ Readjust Mower front-to-rear and side-to-side
⚡ Replace Blades

UNEVEN CUT OR SCALPING

⚡ Readjust Mower front-to-rear and side-to-side
⚡ Replace Blades
⚡ Replace bent Mandrel(s)

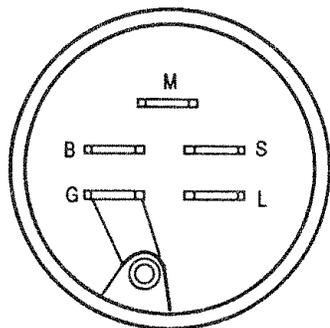
12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

SCHEMATIC



IGNITION SWITCH

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



WIRING INSULATED CLIPS

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

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

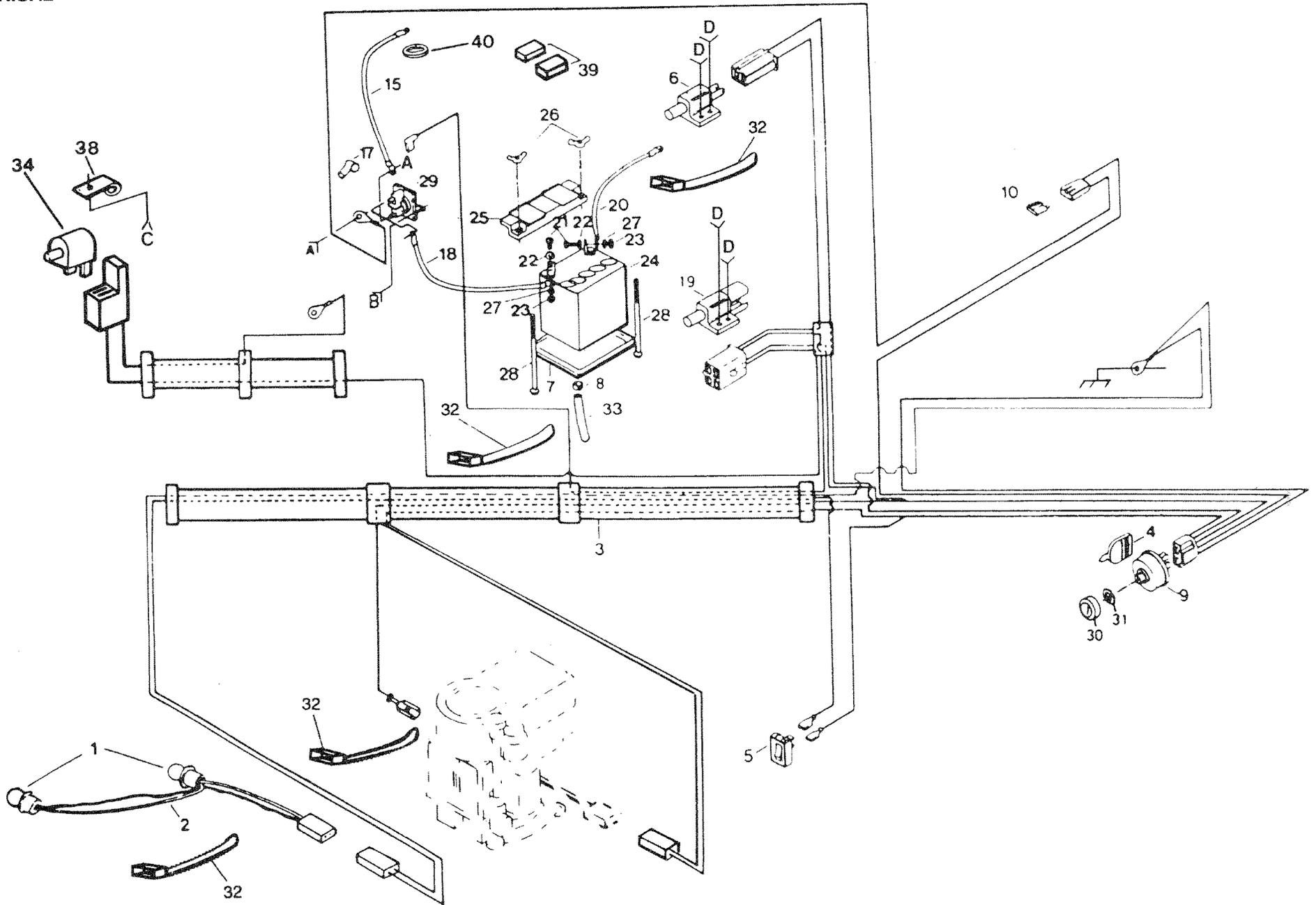
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH THE ENGINE SPEED. AT IDLE SPEED, THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL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

REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

ELECTRICAL

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REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

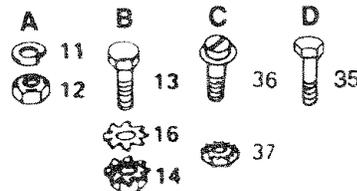
ELECTRICAL

29

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	7662J	Bulb, Light	28	72240460	Bolt - Rd. Hd. Sq. Nk. 1/4 - 20 x 7-1/2
2	124108X	Harness, Light Socket	29	109081X	Solenoid
3	124904X	Harness, Wiring	30	109787X	Bezel - Ignition
4	109310X	Key, Molded	31	109788X	Nut, Ignition
5	110712X	Switch, Light	32	7192J	Cable Tie
6	104445X	Switch, Interlock	33	105687X	Tube, Plastic
7	7603J	Tray, Battery	34	121305X	Switch, Plunger
8	109596X	Clamp, Hose	35	STD601005	* Screw, Tap Hex Hd. #10 x 24 UNC
9	STD365402	* Switch, Ignition	36	74641008	Screw - Slotted Pan Hd. No. 10-32 x 1/2
10	108824X	Fuse, 30 Amp	37	73951000	Nut - Keps No. 10-32 x 1/2
11	STD551125	* Washer, Lock, 1/4	38	4171R	Clip - Insulated
12	73350400	Nut, Hex Jam 1/4 - 20	39	121264X	Battery Caps Set
13	74780408	Bolt, Hex, 1/4 - 20 x 1/2 Gr. 5	40	11150400	Lockwasher 1/4 Internal Tooth
14	STD541425	* Nut, Keps 1/4 - 20	---	101539X	Sheet, Instruction, Tractor, 15° - English
15	4799J	Cable Assembly	---	126718X	Owner's Manual
16	11050400	Washer Lock, Ext. Tooth, 1/4			
17	719J	Cover, Terminal			
18	5114J	Cable, Battery			
19	109553X	Switch, Interlock			
20	4207J	Cable, Battery			
21	74760412	Bolt, Hex, 1/4 - 20 x 3/4			
22	STD551025	* Washer 9/32 x 5/8 x 16 Ga.			
23	STD541025	* Nut, Hex 1/4-20			
24	121265X	Battery, 12 V., 30 Amp			
25	102476X	Terminal Guard			
26	123198X	Wing Nut 1/4-20			
27	STD551125	* Washer, Lock Hvy Helical Spring			

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

*STANDARD HARDWARE--PURCHASE LOCALLY



REPAIR PARTS

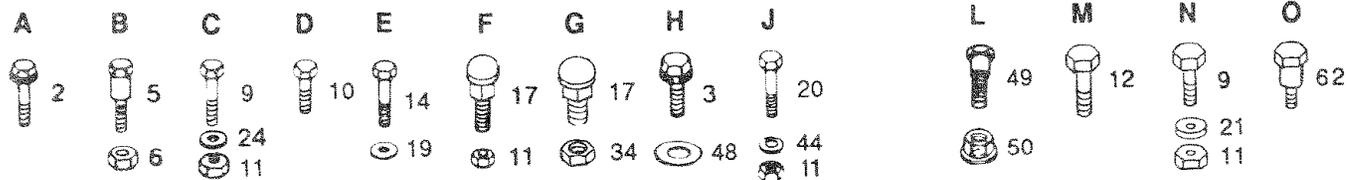
12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	124497X	Seat	35	124479X	Washer, Black, Nylon
2	17490612	Screw, Hex Washer Thd. Roll 3/8-16 x 3/4	36	124355X	Chassis Assembly
3	17490616	Screw, Hex Washer Thd. Rolling 3/8-16 X 1	37	121306X	Drawbar
4	105513X	Bracket-Pivot, Seat	38	124294X	Pan - Seat
5	105529X	Bolt, Shoulder, 5/16-18	39	125880X	Decal - Fender
6	73680500	Nut - Crownlock 5/16-18	40	124492X	Decal, Grill, Craftsman
7	124181X	Spring, Seat	41	4900J	Decal, Clutch/Brake
8	109872X	Fender	42	105809X	Decal, Chassis, 5 Speed, 38"
9	STD523707	* Bolt, Fin Hex 3/8 x 16 UNC x 3/4	43	109199X	Decal, V-Belt Ground Drive
10	17030808	Screw, Spiderlock Hex #8 x 1/2 AB	44	19132012	Washer 13/32 x 1-1/4 x 12 Ga.
11	73680600	Nut, Crownlock 3/8-16	45	121440X	Guide - Belt, Lower, Eng. Pulley, L.H.
12	17490608	Screw, Hex Washer Thd. Roll 3/8 16 x 1/2	46	121441X	Guide - Belt, Lower, Eng. Pulley, R.H.
13	109873X	Bracket, Fender	47	2751R	Clip
14	STD512505	* Bolt, Fin Hex 1/4 - 20 UNC x 1/2	48	19131614	Washer 13/32 x 1 x 14 Ga.
15	105476X	Footrest, L.H.	49	72170410	Bolt, RdHd 1/4 x 20 x 1-1/4
16	105475X	Footrest, R.H.	50	123976X	Nut, Hex, Lg., Flange, Loc. 1/4-20
17	STD533707	* Bolt, RdHdSqNk 3/8 - 16 UNC x 3/4	51	121251X	Strip, Foam
19	STD551125	* Washer, Lock, Hvy Helical Spring	52	121250X	Spring, Seat, Compression
20	STD523710	* Bolt, Fin Hex 3/8 x 16 UNC x 1	53	121249X	Spacer, Split
21	19131312	Washer 13/32 x 13/16 x 12 Ga.	54	121246X	Bracket, Switch Mount
22	124029X	Lens Assembly	55	124489X	Decal Stripe Hood L.H.
24	19131210	Washer 13/32 x 3/4 x 10 Ga.	56	124490X	Decal Stripe Hood R.H.
27	124491X	Decal, 12 HP	57	123913X	Bracket, Pivot, R.H.
28	108631X	Decal, II	58	123914X	Bracket, Pivot, L.H.
29	122933X	Rivet, Ratchet, Nylon	59	124040X	Spring, Extension
30	124027X	Shield, Hood, Heat	60	123915X	Grill
31	123665X	Deflector, Heat	61	105037X	Foam, Strip 18"
32	124025X	Hood Assembly	62	121144X	Bolt, Shoulder
33	121248X	Bushing, Snap	63	STD525010	* Bolt, Fin Hex 1/2 - 13 UNC x 1 Gr. 5
34	STD541437	* Nut, Crownlock 3/8 x 16 UNC	64	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
			65	106974X	Decal, Caution
			66	750211	Decal, USA

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

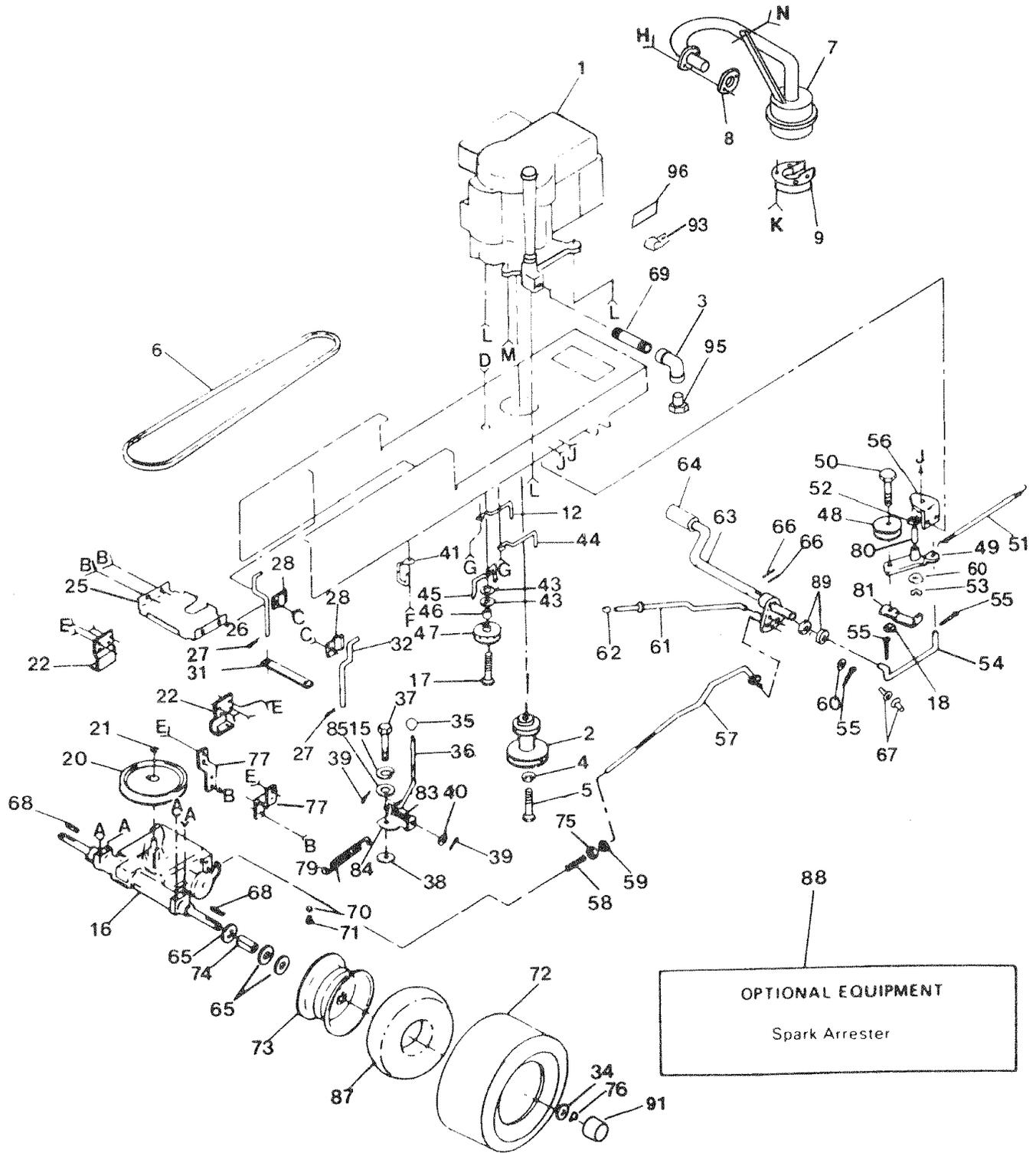
* STANDARD HARDWARE - PURCHASE LOCALLY



REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

DRIVE



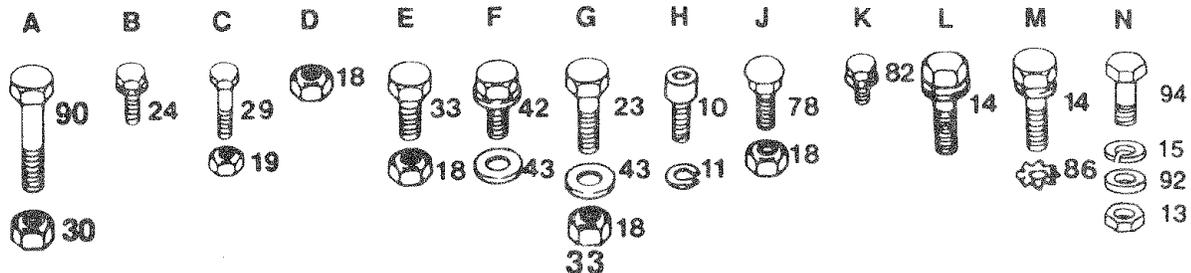
REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	124136X	Engine, 12 HP, Briggs and Stratton, Model Number 281707, Type Number 0412-01	48	123766X	Pulley, Idler
2	105731X	Pulley, Engine	49	123789X	Arm, Idler
3	13200300	Elbow - STD 90 3/8 - 18 NPT	50	STD523715	* Bolt, Hex 3/8-16 x 1-1/2
4	STD551143	* Washer, Lock, Hvy Helical Spring	51	105709X	Spring, Return, Clutch
5	74770720	Bolt, Hex 7/16-20 x 1-1/4	52	110812X	Washer, Hardened
6	125907X	V-Belt, Drive	53	12000039	Ring, Klip
7	125610X	Muffler	54	105710X	Link, Clutch
8	125593X	Gasket	55	STD561210	* Pin, Cotter 1/8 x 3/4
9	101326L	Deflector, Muffler	56	123102X	Bracket, Clutch
10	71070510	Hex Hd. Cap Screw 5/16-18 x 5/8	57	110437X	Rod, Brake
11	STD551131	* Washer, Lock 5/16	58	106888X	Spring, Rod, Brake
12	121218X	Keeper, Belt, Engine	59	73350600	Nut - Jam 3/8-16
13	73220500	Nut, Hex 5/16 x 18	60	19131316	Washer 13/32 x 13/16 x 16 Ga.
14	17490620	Screw, Hex Washer Thd. Rolling 3/8 x 16 x 1-1/4	61	125638X	Rod, Brake, Parking
15	STD551125	* Washer, Lock, Hvy. Helical Spring	62	124236X	Cap - Plunger
16	120897X	Transaxle, Foote-Dana, 5 Speed, Model No. 4360-6	63	122424X	Shaft, Foot Pedal
17	STD523727	* Bolt, Hex 3/8-16 x 2-3/4	64	8883R	Cover - Pedal
18	STD541437	* Nut, Crownlock 3/8-16	65	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
19	73680500	Nut, Crownlock 5/16 - 18	66	STD571810	* Pin, Roll, 3/16 x 1
20	123666X	Pulley, Transaxle	67	120183X	Bearing, Nylon
21	12000028	Ring, Retainer	68	123583X	Key, Square, 2.5 x .1845/.1865
22	109167X	Bracket Transaxle	69	13280324	Nipple, Pipe 3/8 NPT 3"
23	STD523710	* Bolt, Hex 3/8-16 x 1	70	59192	Cap, Valve
24	17490512	Screw, Hex Washer Thread Rolling 5/16-18 x 3/4	71	65139	Stem, Valve
25	108171X	Support, Battery	72	123969X	Tire, Rear
26	123662X	Keeper, Belt, L.H.	73	106108X	Rim Assembly, 8", Rear
27	4921H	Retainer, Spring	74	109502X	Spacer
28	106190X	Clamp	75	736800600	Locknut, Hex, w/washer Insert 3/8-16
29	STD523107	* Bolt, Hex 5/16-18 x 3/4	76	12000001	E-Ring
30	STD541437	* Nut, Crownlock 3/8 - 16	77	121520X	Strap, Torque, Transaxle
31	123770X	Strap, Locator	78	STD533707	* Bolt, Carriage 3/8-16 x 3/4
32	123663X	Keeper, Belt, R.H.	79	110422X	Spring - Brake
33	STD523707	* Bolt, Hex 3/8-16 x 3/4	80	105706X	Bearing
34	121748X	Washer 25/32 x 1-5/8 x 16 Ga.	81	123205X	Retainer - Belt
35	106933X	Knob, Shift	82	17030808	Screw - Spider Lock No. 8-18 x 1/2 ABTPS
36	124461X	Rod, Shift	83	105700X	Spring
37	71040412	Bolt - Hex 1/4-28 x 3/4	84	106919X	Plate, Shift
38	105701X	Washer - Shift Plate	85	19091210	Washer 9/32 x 3/4 x 10 Ga.
39	STD561210	* Cotter Pin, 1/8 x 1	86	11050600	Washer, Lock, Ext. Tooth 3/8
40	19151216	Washer 15/32 x 3/4 x 16 Ga.	87	7152J	Tube, Tire (not furnished with tractor)
41	104777X	Retainer, Belt	88	121851X	Spark Arrester
42	17490612	Screw, Hex Washer Thd. Rolling 3/8 x 16 x 3/4	89	STD551062	* Washer 21/32 x 1 x 16 Ga.
43	19131312	Washer 13/32 x 13/16 x 12 Ga.	90	STD523727	* Bolt, Hex 3/8 x 16 x 2-3/4
44	105730X	Keeper, Belt, Engine	91	104757X	Cap, Hub
45	109070X	Retainer Belt	92	STD551025	* Washer 9/32 x 5/8 x 16 Ga.
46	4470J	Spacer	93	2751R	Clip, Fuel Line
47	123674X	Idler, Flat	94	STD522510	* Bolt, Hex Fin 1/4 x 20 UNC x 1
			95	13290300	Oil Drain Plug
			96	126685X	Decal, 12 HP, Craftsman, Engine

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



REPAIR PARTS

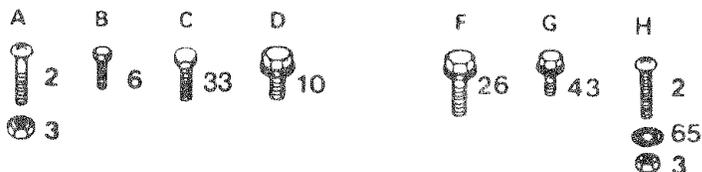
12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	123042X012	Dash	36	124033X	Shaft, Pitman
2	74180512	Screw - Truss Hd. 5/16-18 x 3/4	37	105663X	Support - Saddle, Rear
3	73510500	Nut - Keps 5/16 - 18	38	105664X	Support - Saddle, Front
4	109816X	Nyliner, Snap In	39	74761060	Bolt - Hex 5/8-11 x 3-3/4
5	124434X	Control - Throttle	40	105669X	Axle - Front
6	STD522510	* Screw, Hex Thread Cut 1/4 x 20 x 5/8	41	110438X	Spacer, Bearing, Front Axle
7	126684X	Washer 5/8 x 1/4 x 16 Ga.	42	73901000	Nut - Lock, Flange 5/8-11
8	124417X	Boot, Steering Shaft	43	17490508	Screw - Hex Washer Thread Rolling 5/16-18 x 1/2 Type TT
9	124465X014	Saddle	44	124037X	Gear, Pinion
10	17490608	Screw - Hex Washer Hd., Thread Rolling 3/8-16 x 1 2	45	3366R	Bearing
11	2751R	Clip - Insulated	46	105715X	Rod - Tie
12	125879X	Decal - Steering Wheel Cap	47	120754X	Bushing
13	100710L	Insert - Steering Wheel	48	19131416	Washer 13/32 x 7/8 x 16 Ga
14	STD541350	* Nut - Hex Jam Lock 1/2-20	49	76020412	Pin - Cotter 1/8 x 3/4
15	100712K	Washer 2-1/4	50	STD551137	* Washer Lock 3/8
16	100713N	Wheel - Steering	51	73610600	Nut, Fin Hex 3/8 x 24 UNF
17	100711L	Adapter - Steering Wheel	52	124032X	Link - Drag
18	STD551125	* Lockwasher 1/4	53	105656X	Spindle - L.H.
19	71070410	Screw, Socket Hex 1/4 x 20 x 5/8	54	105654X	Spindle - R.H. - 130524
20	124030X	Bumper, Hood	55	278H	Fitting - Grease
21	5479J	Plug, Button	56	9040H	Bearing - Flange
22	STD611005	* Screw - Hex Self Tap, No. 10-16 x 1/2 Type ABTPS	57	106732X	Rim - 6" Front (Inc. 2 Each Key No. 56)
23	108456X	Decal - Instruction, Operating	58	59192	Cap - Valve
24	124373X	Bushing - Steering	59	65139	Stem - Valve
25	124036X	Bracket - Steering	60	124157X	Tire, Front 15X6-6
26	17490612	Screw - Hex Washer Thread Rolling 3/8-16 x 3/4 Type TT	61	121749X	Washer 25/32 x 1-1/4 x 16 Ga
27	6266H	Bearing - Thrust	63	59904	Tube - Front (Not furnished with tractor)
28	124034X	Gear - Sector	64	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
29	124035X	Shaft, Support	65	STD551231	* Washer, Lock, Int. Tooth 5/16
30	12000029	Klip Ring	66	110307X	Stop, Mower Clutch
31	57079	Washer, Hardened	67	19272016	Washer 2//32 x 1-1/4 x 16 Ga
32	124038X	Shaft, Steering, Lower	68	121232X	Cap, Spindle
33	122819X	Screw, Special			
34	104757X	Cap, Hub			

* STANDARD HARDWARE - PURCHASE LOCALLY

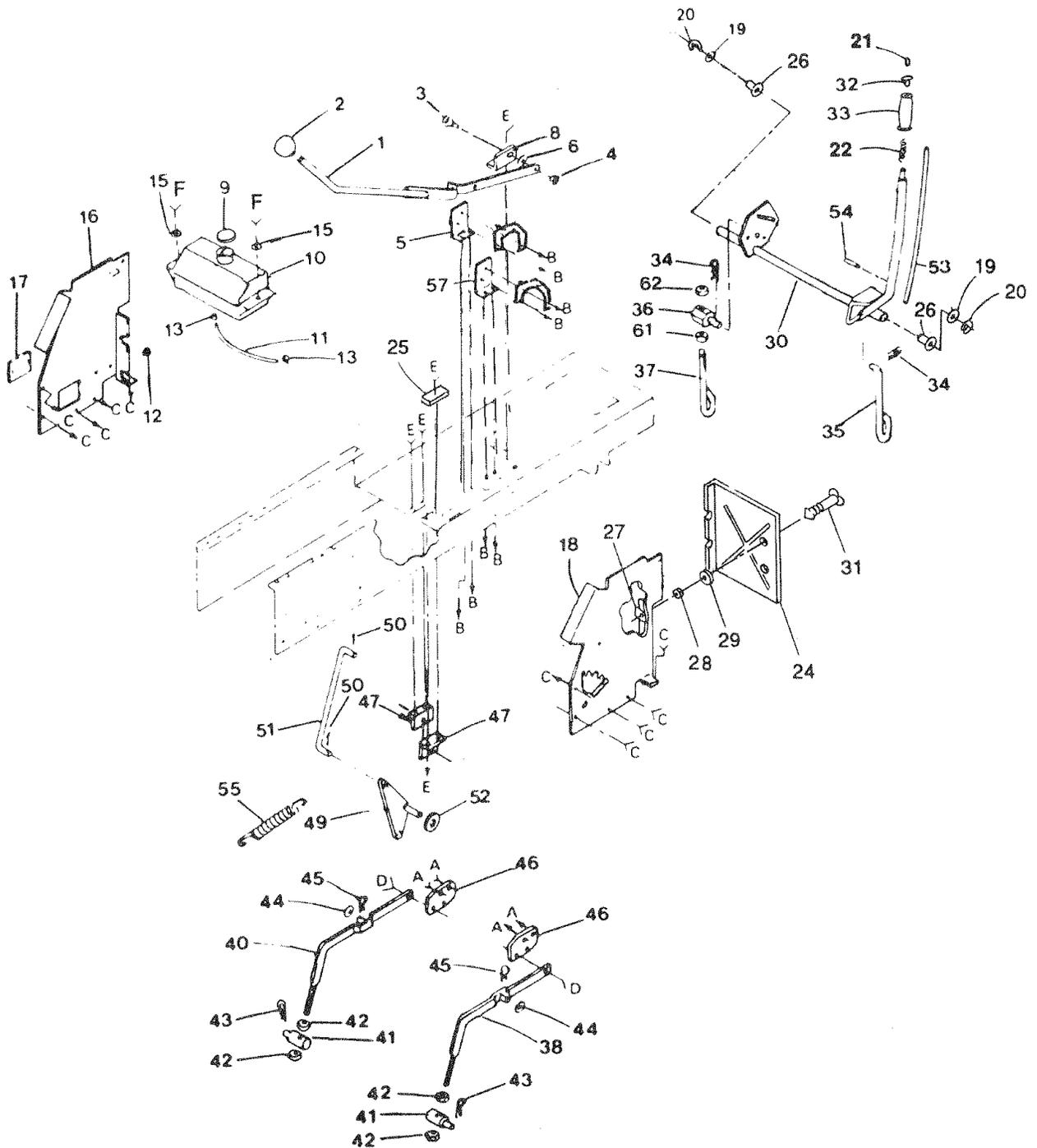
NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm.



REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

LIFT ADJUSTMENT



REPAIR PARTS

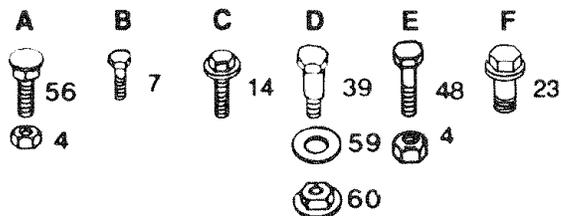
12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

LIFT ADJUSTMENT

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	124429X	Lever, Clutch, Mower	32	122364X	Plunger
2	106932X	Knob	33	125631X	Grip, Handle
3	106451X	Bolt, Shoulder	34	4939M	Retainer, Spring
4	73680600	Nut, Crownlock 3/8-16	35	110029X	Link, Lift
5	106452X	Bracket, Switch, Interlock	36	110447X	Trunnion, Lift
6	19171516	Washer 17/32 x 15/16 x 16 Ga.	37	110448X	Link, Lift, Adjustable
7	17021008	Screw, Hex, Tapping, No. 10-24 x 1/2	38	121598X	Arm, Suspension, R.H.
8	106447X	Support, Lever, Clutch	39	105848X	Bolt, Shoulder, 3/8-16
9	123549X	Cap, Fuel	40	121599X	Arm, Suspension, L.H.
10	109202X	Tank, Fuel	41	106308X	Trunnion, Lift, Lower
11	101335K	Line, Fuel	42	STD541050	* Nut - Hex 1/2-13
12	124028X	Grommet	43	9135R	Retainer, Spring
13	123487X	Clamp - Hose	44	19171516	Washer 17/32 x 15/16 x 16 Ga
14	17490612	Screw, Hex Washer Thd. Rolling 3/8 x 16 x 3/4	45	4921H	Retainer, Spring
15	19091416	Washer 9/32 x 7/8 x 16 Ga.	46	105864X	Bracket, Suspension
16	122795X	Panel, Dash, L.H.	47	106444X	Bracket, Bellcrank
17	121794X	Cover, Access	48	STD523707	* Bolt, Hex 3/8 16 x 3/4
18	124031X012	Panel, Dash, R.H.	49	109728X	Bellcrank Assembly
19	19211416	Washer 21/32 x 7/8 x 16 Ga.	50	STD561210	* Pin, Cotter, 1/8 x 3/4
20	STD581062	* E Ring	51	124444X	Rod, Clutch, Primary
21	122365X	Button, Plunger	52	19131410	Washer 13/32 x 7/8 x 10 Ga
22	122512X	Spring, Compression	53	122514X	Rod Assembly Lever
23	17490412	Screw, Hex Washer Thd. Rolling 1/4 -20 x 3/4	54	105767X	Pin Groove
24	105736X	Shield, Heat	55	124446X	Spring Extension
25	5320R	Clip, Insulated	56	72140606	Screw 3/8-16 x 3/4
26	120183X	Bearing, Nylon	57	108236X	Bracket - Switch
27	105839X	Receptacle, 1/4 Turn	59	110739X	Washer - Spring
28	105838X	Retainer, 1/4 Turn	60	73980600	Nut Flangelock 3/8-16
29	STD551025	* Washer 9/32 x 5/8 x 16 Ga.	61	73360700	Nut, Hex Jam 7/16-20
30	122507X	Shaft, Lift	62	73710700	Nut, Crownlock 7/16-20
31	105751X	Stud, 1/4 Turn			

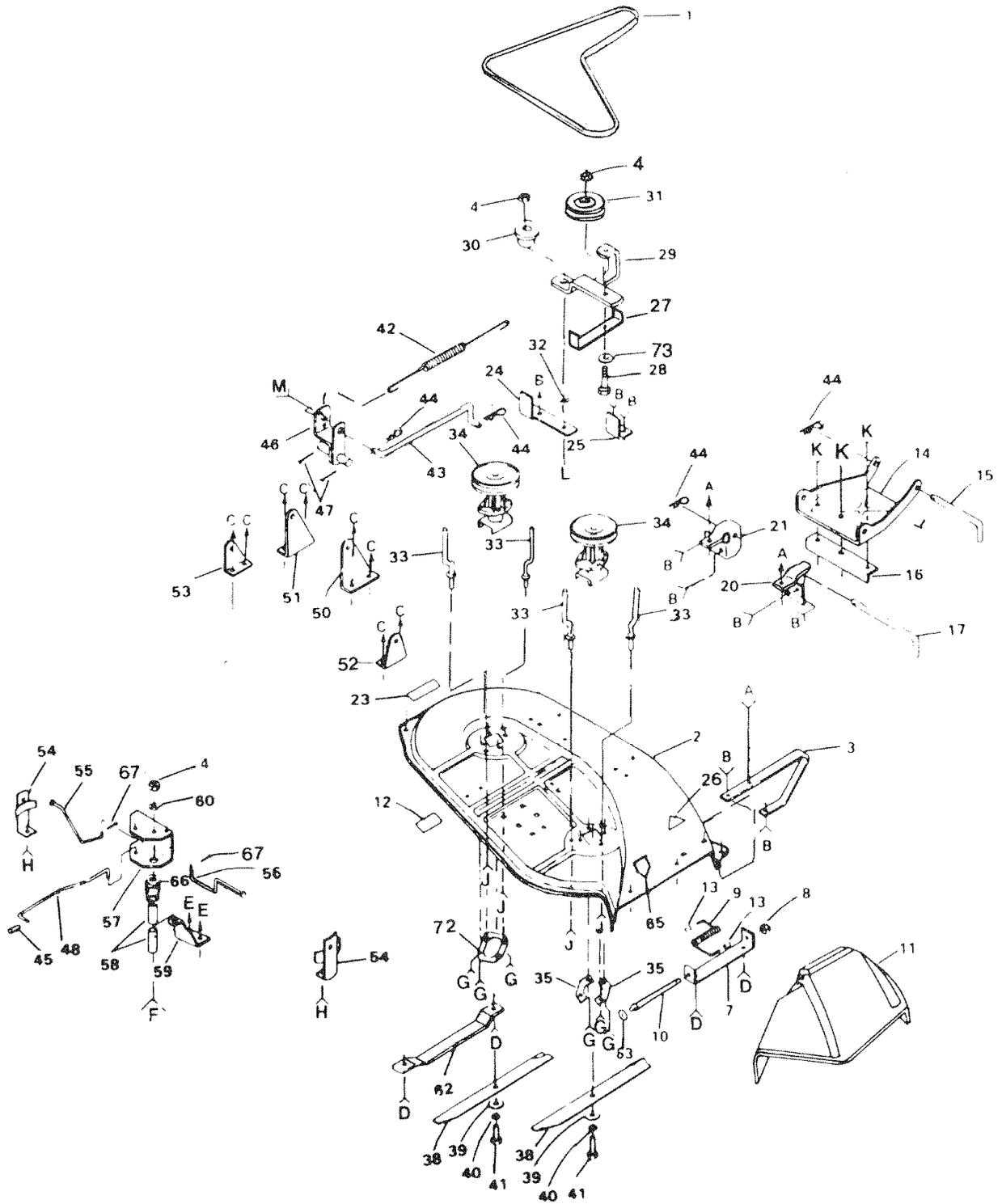
* STANDARD HARDWARE - PURCHASE LOCALLY

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



REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520
38" MOWER



REPAIR PARTS

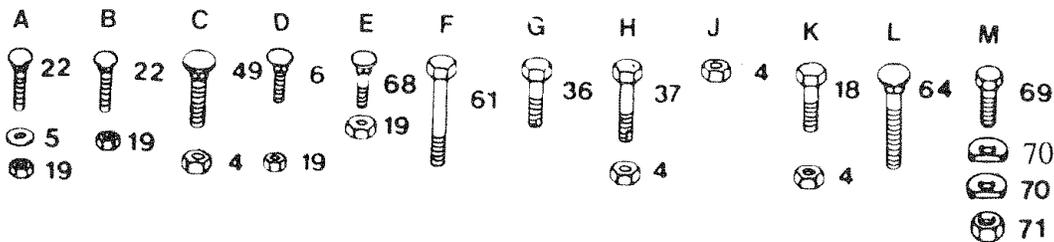
12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

38" MOWER

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	106085X	V-Belt	38	121263X	Blade
2	121259X	Housing	39	19132012	Washer 13/32 x 1 1/4 x 12 Ga.
3	8417J	Runner, R.H.	40	STD551137	Washer, Lock 3/8
4	73680600	Nut, Crownlock 3/8-16	41	STD623715	Bolt, Hex, 3/8-24 x 1-1/2 Gr. 5
5	19111216	Washer 11/32 x 3/4 x 16 Ga.	42	108250X	Spring, Extension
6	72140505	Bolt, Carr., 5/16 - 18 x 5/8	43	108235X	Rod - Clutch, Mower
7	105896X	Bracket, Deflector	44	4921H	Spring - Retainer
8	110452X	Pushnut	45	6404J	Spacer 1/2 x 9/16
9	106734X	Spring, Deflector	46	124066X	Rock Shaft Assembly
10	106735X	Rod - Hinge	47	76020616	Pin, Cotter, 3/16 x 1
11	106736X	Deflector - Shield	48	108247X	Rod, Brake, Primary
12	105814X	Decal, V-Belt Mower Drive	49	72140606	Bolt, Carr. 3/8-16 x 3/4
13	105304X	Cap	50	108243X	Bracket, Pivot, R.H.
14	105662X	Link, Parallel	51	108241X	Bracket, Pivot, L.H.
15	105744X	Pin - Hinge, Front	52	105857X	Bracket, Suspension, Rear, R.H.
16	105872X	Stop, Link	53	108673X	Bracket, Suspension, Rear, L.H.
17	109835X	Pin - Hinge, Rear	54	106578X	Brake Assembly
18	STD523707	Bolt 3/8-16 x 3/4	55	106463X	Rod, Brake, Secondary, L.H.
19	73680500	Nut, Crownlock 5/16-18	56	108249X	Rod, Brake, Secondary, R.H.
20	109598X	Bracket, Lift, R.H.	57	106456X	Bracket, Brake, Pivot
21	109597X	Bracket, Lift, L.H.	58	100672K	Spacer, Brake
22	STD533107	Bolt, Carr. 5/16-18 x 3/4	59	100673L	Bracket, Support
23	3713J	Decal, Instruction - Caution	60	19131614	Washer 13/32 x 1 x 14 Ga.
24	109503X	Support, Arm	61	74760688	Bolt, 3/8-16 x 5-1/2
25	109504X	Stop, Deck, Front	62	7631J	Runner, L.H.
26	— — —	Decal - Safety Standard - Not Serviced	63	19111016	Washer 11/32 x 5/8 x 16 Ga.
27	123204X	Guide Belt	64	72140610	Bolt, 3/8-16 x 1-1/4
28	74760632	Bolt 3/8-16 x 2	65	121343X	Decal - Warning
29	123553X	Arm, Idler	66	122314X	Spacer
30	106902X	Spacer - Retainer	67	STD560907	Pin, Cotter, 3/32 x 1/2
31	121316X	Pulley - Idler	68	72110506	Bolt, Carriage 5/16-18 x 3/4
32	106513X	Washer, Wear, 1/16	69	74760412	Bolt Hex 1/4-20 x 3/4
33	102669X	Keeper, Belt	70	109893X	Washer, Special
34	121687X	Mandrel Assembly	71	73680400	Nut, Crownlock 1/4-20
35	100668L	Plate, Support Mandrel	72	110445X	Plate, Support, Mandrel, L.H.
36	17490614	Screw, Hex Washer Hd. 3/8 x 16 x 7/8	73	STD551037	Washer 13/32 x 13/16 x 16 Ga.
37	17490620	Screw, Hex Washer Hd. 3/8 x 16 x 1-1/4	—	122215X	Mower Assembly, Complete

* STANDARD HARDWARE - - PURCHASE LOCALLY

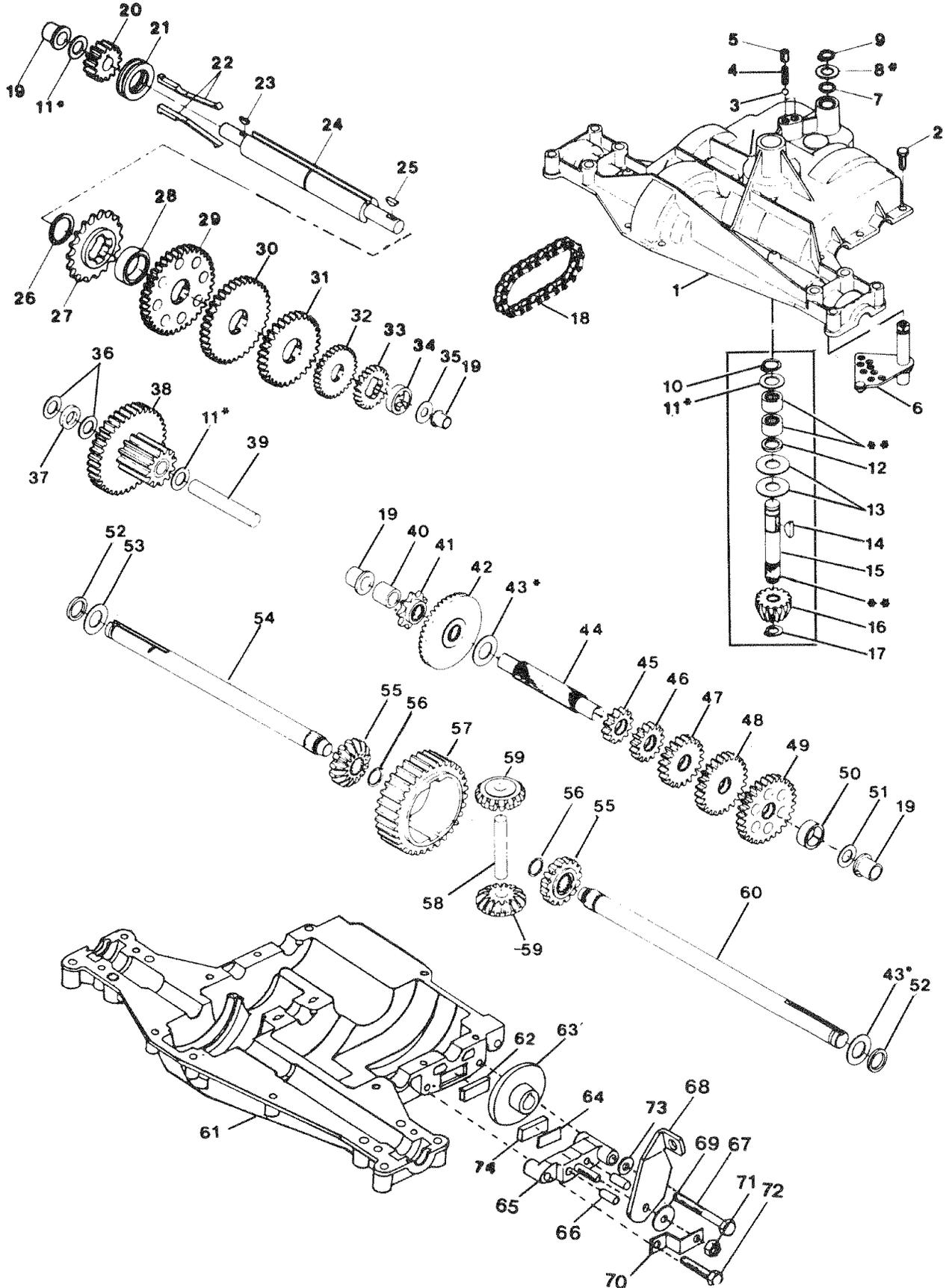
NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm.



REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520
TRANSAXLE FOOTE - MODEL NUMBER 4360-6

TRANSAXLE



REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520 TRANSAXLE FOOTE - MODEL NUMBER 4360-6

TRANSAXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	120458X	Housing, Upper	39	120471X	Shaft, Idler
2	2274J	Screw, Tapping, 1/4-20 x .734 Lg.	40	120472X	Spacer, .635 x .875 x .755
3	68003	Ball, Detent	41	105928X	Sprocket, 9T
4	105904X	Spring, Detent	42	110084X	Gear, Bevel, 42T.
5	105905X	Screw, Set	43	108983X	* Washer, Plain, .758 x 1.12 x .010
6	120460X	Ass'y., Shifter	43	105930X	* Washer, Plain, .758 x 1.12 x .015
7	120461X	O-Ring	43	105931X	* Washer, Plain, .758 x 1.12 x .020
8	120462X	* Washer, Plain, .505 x .942 x .006	43	105932X	* Washer, Plain, .758 x 1.12 x .025
8	120463X	* Washer, Plain, .505 x .942 x .010	43	3417J	* Washer, Plain, .758 x 1.25 x .020
8	120464X	* Washer, Plain, .505 x .942 x .015	43	106097X	* Washer, Plain, .758 x 1.25 x .025
8	120465X	* Washer, Plain, .505 x .942 x .020	43	2264J	* Washer, Plain, .758 x 1.25 x .031
8	120466X	* Washer, Plain, .505 x .942 x .026	43	106098X	* Washer, Plain, .758 x 1.25 x .035
8	83818	* Washer, Plain, .505 x .942 x .030	43	2265J	* Washer, Plain, .758 x 1.25 x .040
8	120467X	* Washer, Plain, .505 x .942 x .040	43	106586X	* Washer, Plain, .758 x 1.25 x .045
9	2286J	Ring, Retaining	43	106587X	* Washer, Plain, .758 x 1.25 x .050
10	2267J	Ring, Retaining	43	106588X	* Washer, Plain, .758 x 1.25 x .055
11	3413J	Washer, Plain, .632 x 1.00 x .010	43	2263J	* Washer, Plain, .758 x 1.25 x .062
11	2233J	Washer, Plain, .632 x 1.00 x .020	44	120473X	Shaft, Drive
11	2232J	Washer, Plain, .632 x 1.00 x .026	45	105933X	Gear, Spur, 12T.
11	2231J	Washer, Plain, .632 x 1.00 x .031	46	120407X	Gear, Spur, 20T.
11	2230J	Washer, Plain, .632 x 1.00 x .036	47	106589X	Gear, Spur, 25T.
11	2229J	Washer, Plain, .632 x 1.00 x .041	48	120408X	Gear, Spur, 28T.
11	2228J	Washer, Plain, .632 x 1.00 x .046	49	105937X	Gear, Spur, 31T.
11	2227J	Washer, Plain, .632 x 1.00 x .050	50	105936X	Spacer, .781 x 1.00 x .375
11	2226J	Washer, Plain, .632 x 1.00 x .060	51	2226J	Washer, Plain, .632 x 1.00 x .060
11	105906X	Washer, Plain, .632 x 1.00 x .082	52	2272J	Seal, Felt
12	6725J	O-Ring	53	2263J	Washer, Plain, .758 x 1.25 x .062
13	120415X	Washer, Plain, .632 x 1.38 x .046	54	120474X	Axle, L.H.
14	2257J	Key, Woodruff, #9	55	110081X	Gear, Miter, 15T.
15	110077X	Ass'y., Kit, Input Shaft	56	105941X	Ring, Retaining
16	110078X	Pinion, Bevel, 14T.	57	110071X	Gear, Spur, 32T.
17	105909X	Ring, Retaining	58	120952X	Shaft, Cross
18	105910X	Chain, 24 Pitches	59	110082X	Gear, Miter, 15T.
19	105911X	Bearing, Flange	60	120475X	Axle, R.H.
20	108976X	Gear, Spur, 14T.	61	120476X	Housing, Lower
21	105913X	Collar, Clutch	62	120961X	Puck, Friction
22	120468X	Key, Clutch	63	64260	Disc, Brake
23	2242J	Key, Woodruff, #3	64	108989X	Spacer
24	120469X	Shaft, Intermediate	65	120953X	Ass'y, Jaw, Brake
25	2244J	Key, Woodruff #61	66	120954X	Pin, Dowel
26	105916X	Ring, Retaining	67	120955X	Screw, Tapping, 5/16 - 18 x 2.25
27	120470X	Sprocket, 18T.	68	108992X	Lever, Actuating
28	110070X	Spacer	69	108996X	Washer, Plain, .321 x 1.00 x .055
29	108977X	Gear, Spur, 37T.	70	120956X	Bracket, Anti-Rotation
30	120405X	Gear, Spur, 30T.	71	73810500	Nut, Lock 5/16-24
31	108980X	Gear, Spur, 25T.	72	106596X	Screw, Tapping, 5/16 - 18 x 1.44 Lg.
32	120406X	Gear, Spur, 22T.	73	120993X	Washer, Plain, .343 x .81 x .059
33	108455X	Gear, Spur, 19T	74	120951X	Puck, Friction
34	105923X	Spacer, 1.13 x 1.50 x .375	75	120416X	Grease
35	105925X	Washer, Plain, .640 x 1.37 x .061			
36	2232J	Washer, Plain, .632 x 1.00 x .026			
37	108978X	Spacer, .630 x 1.00 x .169			
38	110079X	Ass'y., Gear, Combo., 12T. & 35T.			

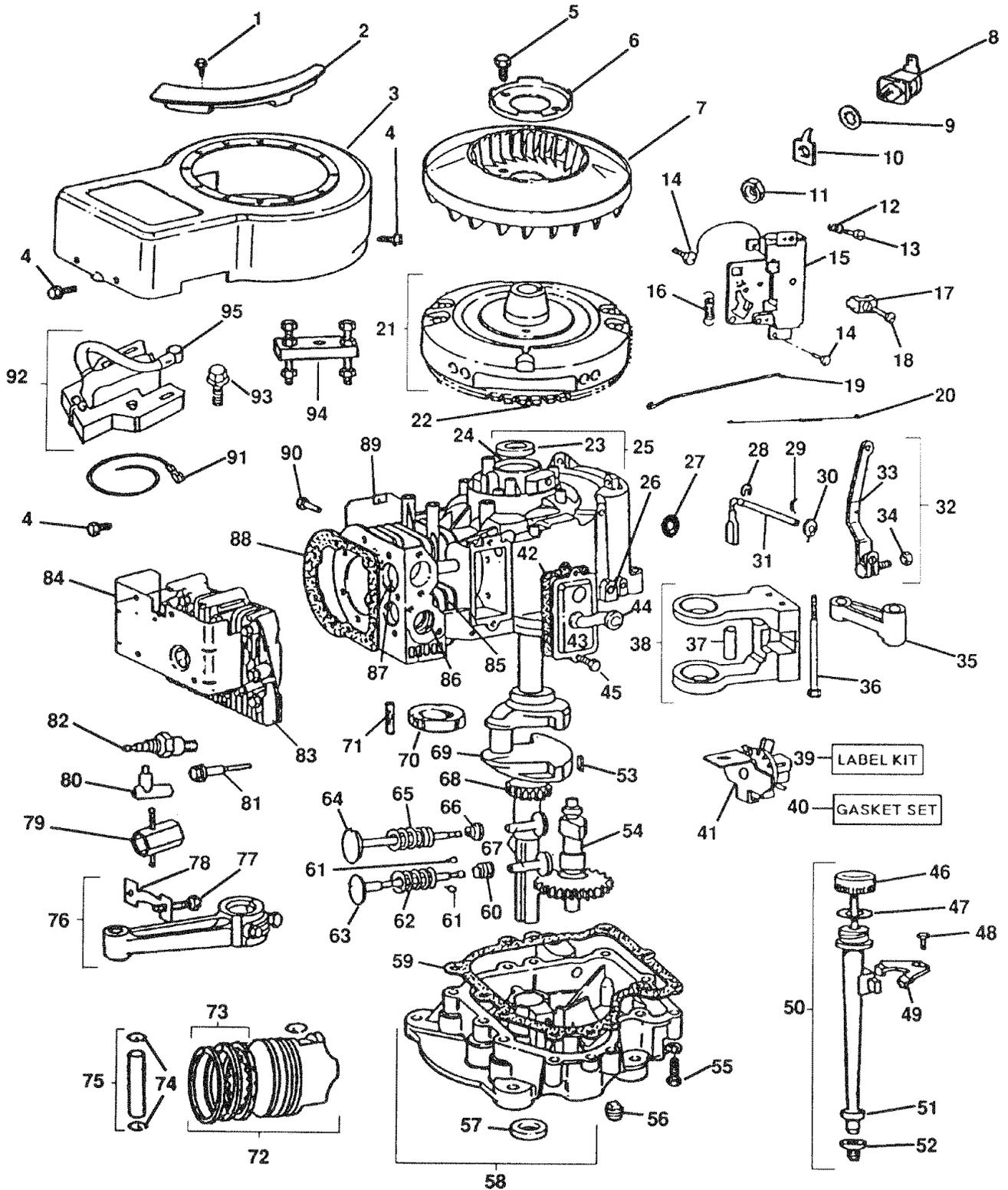
*Use in various combinations to maintain proper clearances.

**Order Key No. 15.

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

REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.2546520
ENGINE BRIGGS AND STRATTON - MODEL NUMBER 281707, TYPE NUMBER 0412-01



REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

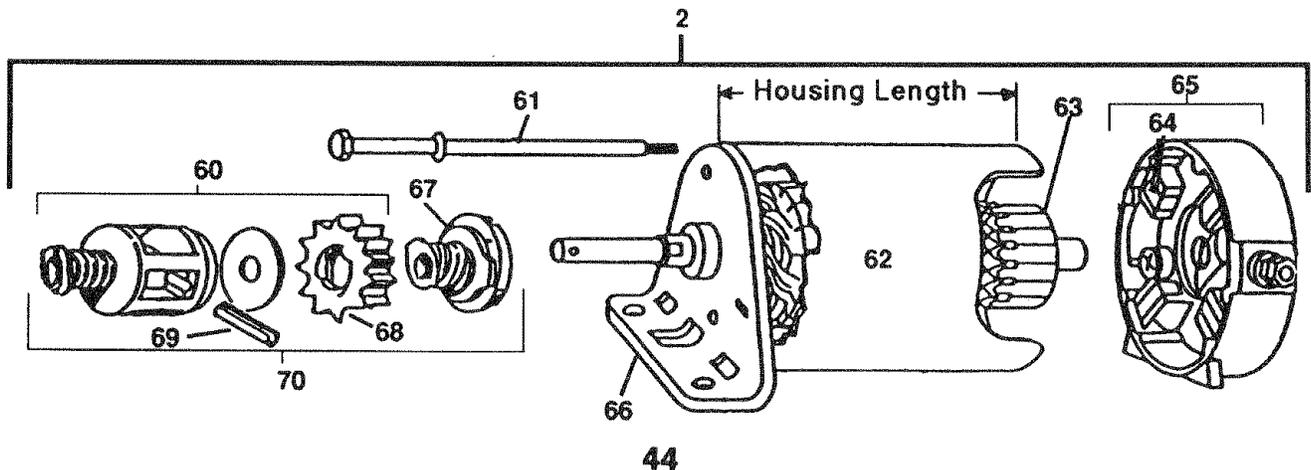
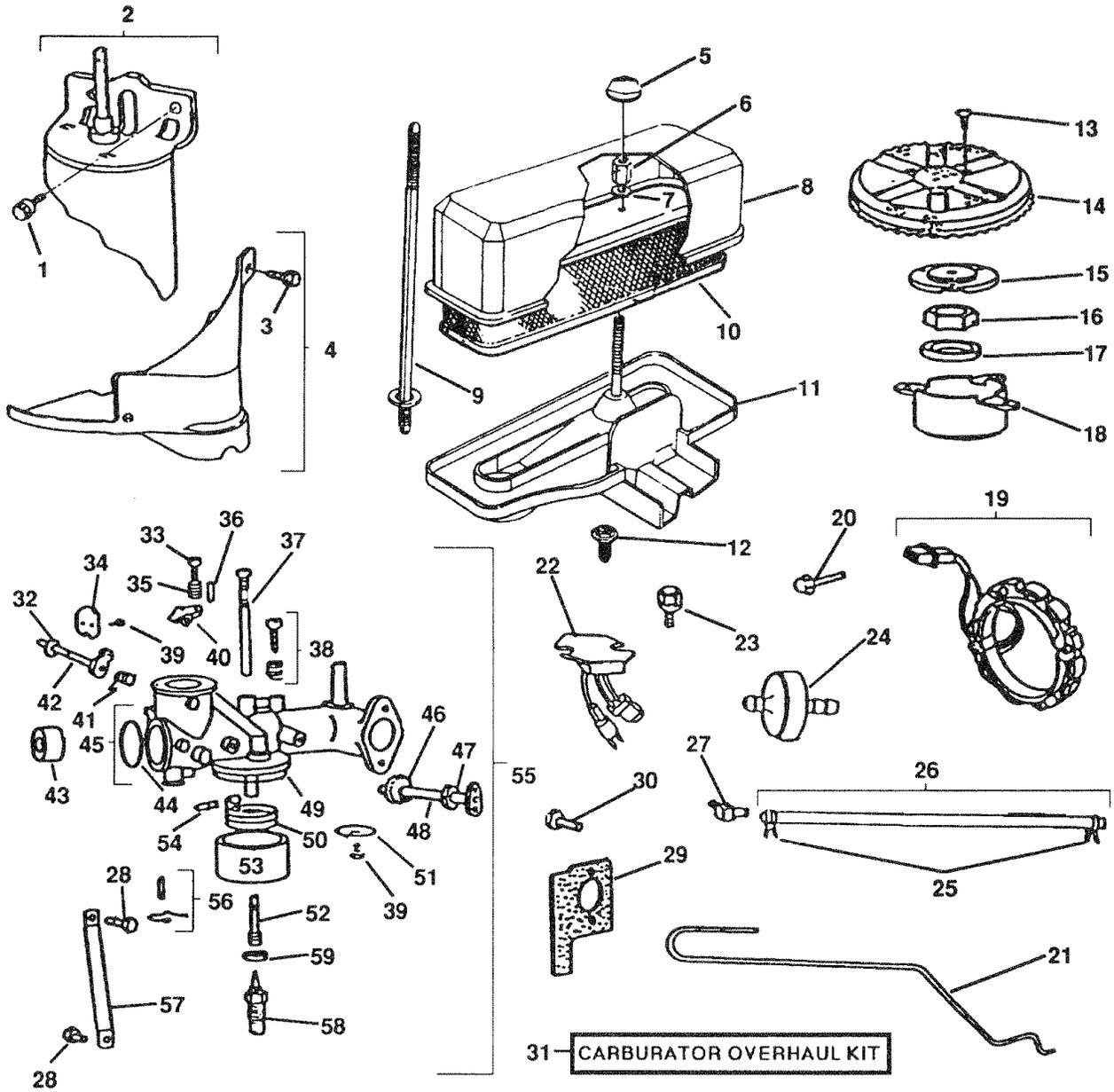
ENGINE BRIGGS & STRATTON - MODEL NUMBER 281707, TYPE NUMBER 0412-01

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	93705	Screw-Hex Head	57	291675	Seal-Oil
2	223752	Guard-Flywheel	58	490452	Base-Engine
3	490854	Housing-Blower	59	271916	* Gasket-Crankcase Cover-1/64" thick
4	93158	Screw-Blower Housing Mounting Sem		271996	* Gasket-Crankcase Cover-.005" thick
5	93535	Screw-Sem (3/4" Long)		271997	* Gasket-Crankcase Cover-.009" thick
6	223726	Retainer-Fan	60	292260	Rotocoil Exhaust Valve
7	280687	Fan-Flywheel	61	93630	Retainer-Exhaust Valve Rotocoil (2)
8	398525	Insulator Assembly	62	26828	Spring-Exhaust Valve
9	92791	Washer Lock- Shakeproof	63	262246	Valve-Exhaust
10	93722	Terminal-Spade	64	262247	Valve-Intake
11	90576	Nut-Hex. 8-32	65	65906	Spring-Intake Valve
12	26157	Spring-Throttle Adjustment	66	221596	Retainer-Intake Valve
13	90200	Screw-Machine, Fill. Hd. 8-32 x 1/2"	67	262248	Tappet-Valve
14	93572	Screw-Carburetor	68	262135	Gear-Timing
15	491594	Plate-Governor Control (Choke-A-Matic)	69	490466	Crankshaft
16	260695	Spring Governor			NOTE: Order Part Number 94196 For Timing Gear Key
17	221535	Clamp Casing	70	262243	Eccentric
18	93496	Screw-Sem	71	94160	Pin-Eccentric
19	262348	Link Governor	72	394661	Piston Assy.-Standard
20	260584	Spring Governor Link		394662	Piston Assy.-.010" O.S.
21	492325	Flywheel and Ring Gear Assy.-Magneto		394663	Piston Assy.-.020" O.S.
22	399676	Gear-Ring (Includes Mounting Parts)		394664	Piston Assy.-.030" O.S.
23	261623	** Bearing Cylinder	73	394665	Ring Set-Piston Std.
24	391086	Seal Oil		392331	Chrome Ring Set-Standard Size
25	490450	Cylinder Assembly		391781	Ring Set-Piston-.010" O.S.
26	231597	Bushing-Governor Crank (1/4" I.D.)		391782	Ring Set-Piston-.020" O.S.
27	491323	Seal-Oil		391783	Ring Set-Piston-.030" O.S.
28	93307	Retainer-E-Ring	74	260924	Lock-Piston Pin
29	93306	Cotter Hair Pin	75	299691	Pin Assembly-Piston-Standard
30	222450	Washer-Governor Crank (1/4" I.D.)		391286	Pin Assembly-Piston-.005" O.S.
31	231058	Crank-Governor (1/4" dia.)	76	490348	Rod Assembly-Connecting
32	490927	Lever Assy.-Governor (For 1/4" dia. Crank)		490469	Connecting Rod with .020" Undersize Crank Pin Bore.
33	92613	Bolt Governor Lever	77	92909	Screw-Connecting Rod
34	231082	Nut-Hex, 10-24	78	222299	Lock-Connecting Rod-Screw
35	212359	Link-Counterweight	79	89838	Wrench-Spark Plug
36	93875	Screw-Counterweight (1)	80	66538	Elbow-Spark Plug
37	298909	Pin Counterweight (1)	81	93723	Screw Cylinder Head (3" long).
38	399891	Counterweight Assembly	82	802592	Plug Spark (Resistor Type) (1-1/2" high)
39	491255	Decal (Label) Kit	83	491491	Head-Cylinder
40	490525	Gasket Set	84	491490	Cover-Cylinder Head
41	490815	Oil Slinger, Governor Gear and Bracket Assembly	85	261961	Guide-Exhaust Valve
42	27803	* Gasket-Valve Cover		231218	Guide-Intake Valve (Brass)
43	391406	Breather Assembly			See Repair Manual
44	280100	Tube-Breather	86	210940	Seat-Exhaust Valve (Standard)
45	93394	Screw-Sem	87	261463	Seat-Intake Valve (Standard)
46	490327	Cap and Dipstick-Oil Filler	88	271866	* Gasket Cylinder Head
47	270920	Seal-Oil Filler Cap	89	223715	Shield-Cylinder
48	93304	Screw Clamp Mtg.	90	93163	Screw Cylinder Shield Mtg. Sem
49	223721	Clamp-Oil Filler Tube	91	398808	Wire-Ground
50	490474	Fill Group Oil	92	492341	Armature-Magneto
51	280741	Tube-Oil Filler	93	93381	Screw-Armature Mounting Sem
52	68838	Seal-Filler Tube	94	19203	Puller Flywheel
53	222698	Key Flywheel	95	221798	Terminal-Ignition Cable
54	212897	Gear-Cam			
55	94305	Screw-Base Mounting Sem			* Included in Gasket Set—Part No. 490525
56	91084	Plug Fill Drain			** Requires Special tools for Installation

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

REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520
ENGINE BRIGGS AND STRATTON - MODEL NUMBER 281707, TYPE NUMBER 0412-01



REPAIR PARTS

12 HP 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254520

ENGINE BRIGGS & STRATTON - MODEL NUMBER 281707, TYPE NUMBER 0412-01

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	93535	Screw-Sem	31	394698	Carburetor Overhaul Kit
2	-----	Motor-Starting(12 Volt) See Chart on Bottom of Page for Replacement Parts.	32	270382	Washer-Choke Shaft
3	93984	Screw-Sem	33	91920	Screw-Machine, Fill. Hd. 8-32 x 5/8"
4	490324	Cover-Starter (Includes Mounting Screws)	34	222010	Valve-Choke
5	212706	Knob-Air Cleaner	35	26157	Spring-Throttle Adjustment
6	231532	Nut-Air Cleaner Mtg.	36	93043	Pin-Throttle Stop
7	94249	Washer-Air Cleaner	37	299740	† Nozzle-Carburetor
8	223700	Cover-Air Cleaner	38	292681	† Valve Assembly-Carburetor Idle
9	94248	Stud-Air Cleaner	39	93499	Screw-Throttle and Choke Valve Mtg. Sem
10	491519	Cartridge-Air Cleaner	40	211712	Stop-Throttle
11	491877	Body-Air Cleaner	41	261116	Spring-Choke Return
12	94018	Screw-Air Cleaner Sem	42	390684	Shaft and Lever-Choke
13	93805	Screw-Sem	43	211960	Venturi Carburetor
14	222562	Screen-Flush Rotating	44	221997	† Plug-Welch
15	280848	Spacer	45	490473	Body Assembly-Carburetor
16	92284	Nut-Hex.	46	271853	Washer-Throttle Shaft Seal (Foam)
17	220865	Washer-Spring	47	398970	Seal-Throttle Shaft
18	222561	Cup-Screen Mounting	48	491006	Shaft and Lever-Throttle
19	393295	Stator-Alternator (Tri-Circuit)	49	270511	† Gasket-Float Bowl
20	93621	Screw-Sem	50	299707	Float-Carburetor
21	261610	Link-Choke	51	222433	Valve-Throttle
22	394890	Regulator-Alternator (9 Amp.)	52	231323	† Screw-Nozzle
23	93559	Screw-Regulator	53	221995	Bowl-Float
24	394358	Filter-Fuel (In Fuel Line)	54	230896	† Pin-Float Hinge
25	93053	Clamp-Fuel Pipe	55	491031	Carburetor Assembly
26	393815	Line-Fuel (11" long) (Cut to Suit)	56	394681	† Valve-Fuel Inlet
27	67218	Connector-Fuel Pipe	57	222311	Bracket-Carburetor
28	93572	Screw-Carburetor	58	396568	Valve-Needle
29	270872	* Gasket-Carburetor Mounting	59	222014	† Washer-Float Bowl
30	93357	Screw-Carburetor Mtg.			

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

Key Number		2	61	64	70	63	66	65	62
Starter Motor Mfr. and Motor Model Number		Motor and Drive Ass'y.	Thru Bolt	Brush Ass'y.	Drive Ass'y.	Armature Ass'y.	End Cap Ass'y. Drive	End Cap Ass'y. Commutator	Housing Ass'y.
Briggs & Stratton	Housing Length								
12V	3-21/32"	394805	94003	395538	490421**	390837	394857	395537*	393825

* Includes Brush Set

** Includes # 398003 Clutch Assembly (Key No. 67)
280104 Gear (Key No. 68)
490467 Retainer and Pin (Key No. 60)
94288 Roll Pin (Key No. 69)

* Included in Gasket Set—Part No. 490525
† Included in Carburetor Overhaul Kit—Part No. 394698

Attachments That Add to the Usefulness of Your Craftsman Lawn Tractor

Sears offers a wide variety of attachments that fit your tractor. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication; however, it may change in future years — more attachments may be added, changes (including changes in the stock number) may be made in these attachments, or some may no longer be available.

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. You may order these attachments at most Sears retail stores, catalog sales offices, and through the catalog.

PERMANEX BAGGER lets you collect grass clippings and leaves for a healthier neater-looking lawn. Two Permanex containers hold 30-gallon plastic bags. Stock number 71-24940

LAWN SWEEPERS let you collect grass clippings and leaves.

71-24030	30-in.	9.0 cu. ft.
71-24032	32-in.	10.0 cu. ft.
71-24033 High-Performance	32 in.	11.5 cu. ft.
71-24038	38-in.	12.5 cu. ft.

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

71-2452	3HP	12 bu.	71-26471 chute
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CARTS make hauling easy.

71-24353	4 cu. ft.	400 lb.	Dump cart
71-24354	10 cu. ft.	1,000 lb.	Hauling cart
71-24355	10 cu. ft.	1,000 lb.	Dump cart
71-24356	14 cu. ft.	1,250 lb.	Dump cart

ROLLER for smoother lawn surface. 36-inch wide, 18 inch diameter water-tight drum holds up to 390 lb. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum. Stock number 71-24084.

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

71-24194 Drop type, 36 inch. 12 in. semi-pneumatic wheels. 100 lb. capacity steel hopper.

71-24394 Broadcasts over a 5 to 8 foot swath. 70 lb. capacity steel hopper. Noncorrosive spreading spinner, nylon gear box, stainless steel shaft.

71-24395 Broadcasts 8 to 10 foot swath. 160 lb. capacity. No-rust polypropylene hopper and impeller. Vinyl hopper cover.

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. Stock number 71-24351

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 it. Steel weight tray for increased penetration. Stock number 71-2435.

DETHATCHER loosens and flips thatch and matted leaves to lawn surface for easy pick up. Twenty spring tine teeth. Useful to prepare bare areas for reseeding. 40 inch rear mount: Stock number 71-24313. 38 inch front mount: Stock number 71-24301.

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.

71-2458 50 psi maximum pressure with 12 foot wand length. Sprays up to 25 feet with wand.

71-24398 25 psi maximum pressure with 10 foot wand length. Sprays up to 18 feet with wand.

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). Stock number 71-24407.

SNOWTHROWER has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts to 210 degree arc from tractor seat. 6-inch diameter spout discharges snow 10 to 50 ft. Lift controlled at tractor seat. (Use with tire chains, wheel weights, or rear drawbar weight). Stock No. 71-24072.

TIRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction. Stock No. 71-24952.

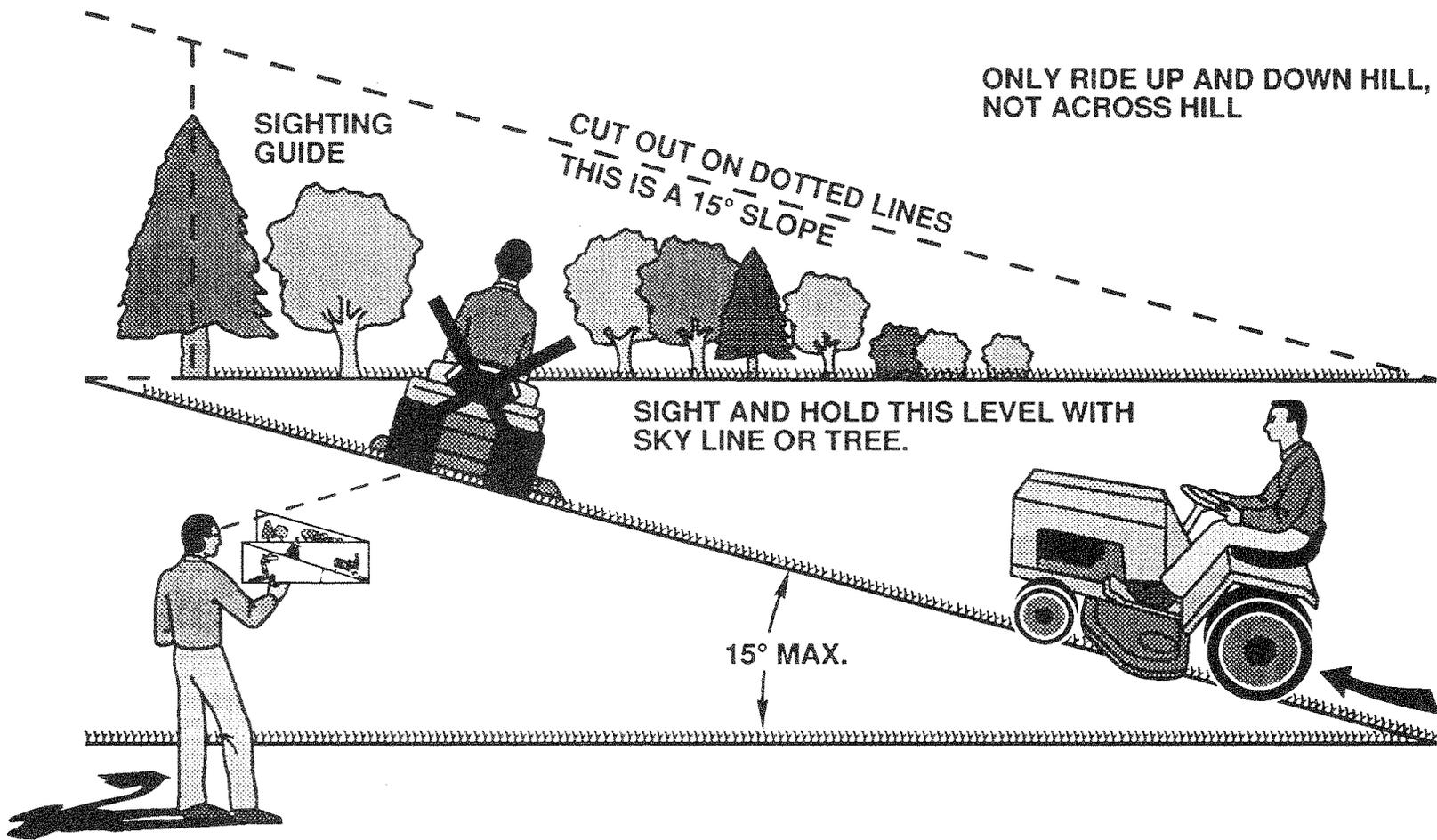
WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials. In pairs. Stock No. 71-24434 (30 lb. each)

TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal frame doors with catch. Keeps operator warm and dry. Remove vinyl and windshield for use as sun protector in summer. Stock No. 71-24171.

Optional accessories for tractor cab: tinted/tempered solid safety glass windshield with hand operated wiper (Stock No. 71-26168); 12-volt amber caution light for mounting on cab top (Stock No. 71-26169).

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). Stock No. 71-24601.

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

SEARS
OWNER'S
MANUAL

MODEL NO.
917.254520

**HOW TO ORDER
REPAIR PARTS**

CRAFTSMAN[®]
12.0 HP IC
ELECTRIC START
38" MOWER DECK
5 SPEED TRANSAXLE
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 - 12 H.P. LAWN TRACTOR
- MODEL NUMBER - 917.254520
- ENGINE MODEL NUMBER - 281707, TYPE NUMBER 0412-01
- PART NUMBER
- PART DESCRIPTION

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

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