

SEARS

OWNERS MANUAL

**MODEL NO.
917.254622**

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



CRAFTSMAN

***LT 12 HP ELECTRIC START
5 SPEED - 38" MOWER
LAWN TRACTOR***

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

SAFETY RULES

1. Know the controls and how to stop quickly. **READ THIS OPERATOR'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 drivers 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 31.
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 the 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 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 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.



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



THIS UNIT IS EQUIPPED WITH AN INTERNAL COMBUSTION ENGINE AND SHOULD NOT BE USED ON OR NEAR ANY UNIMPROVED FOREST COVERED, BRUSH COVERED, OR GRASS COVERED LAND UNLESS THE ENGINE'S EXHAUST SYSTEM IS EQUIPPED WITH A SPARK ARRESTER MEETING APPLICABLE LOCAL OR STATE LAWS (IF ANY). IF A SPARK ARRESTER IS USED, IT SHOULD BE MAINTAINED IN EFFECTIVE WORKING ORDER BY THE OPERATOR.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. Refer to the Repair Parts Section, page 32.

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 50 for a list of available attachments.

<p>SERIAL NUMBER _____</p> <p>DATE OF PURCHASE _____</p> <p>THE SERIAL NUMBER WILL BE FOUND ON THE MODEL PLATE UNDER THE SEAT.</p> <p>YOU SHOULD RECORD THESE NUMBERS AND KEEP FOR FUTURE REFERENCE.</p>
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LIMITED ONE YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For one year 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/698-731A, Sears Tower, Chicago, Il 60684

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ASSEMBLY

Unpack Tractor

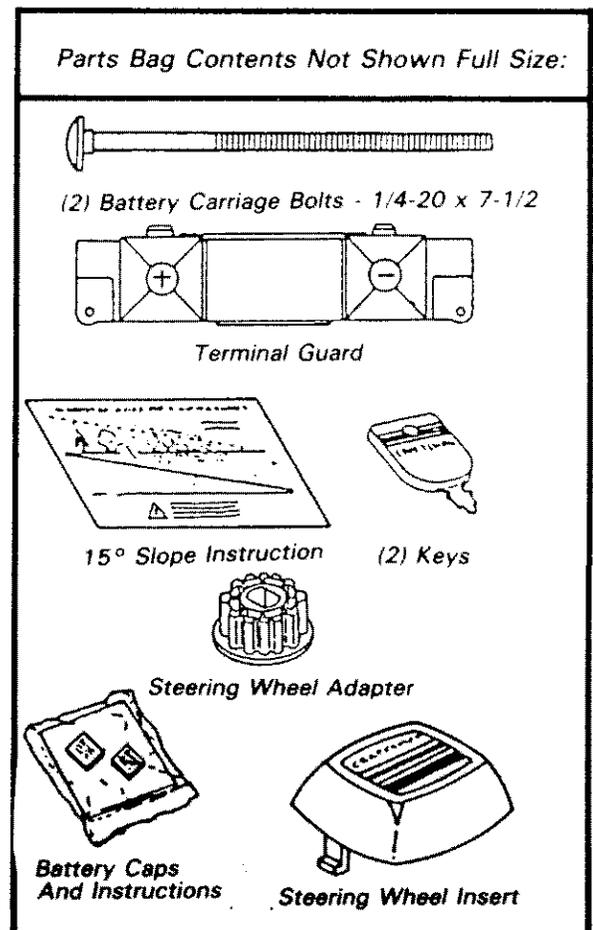
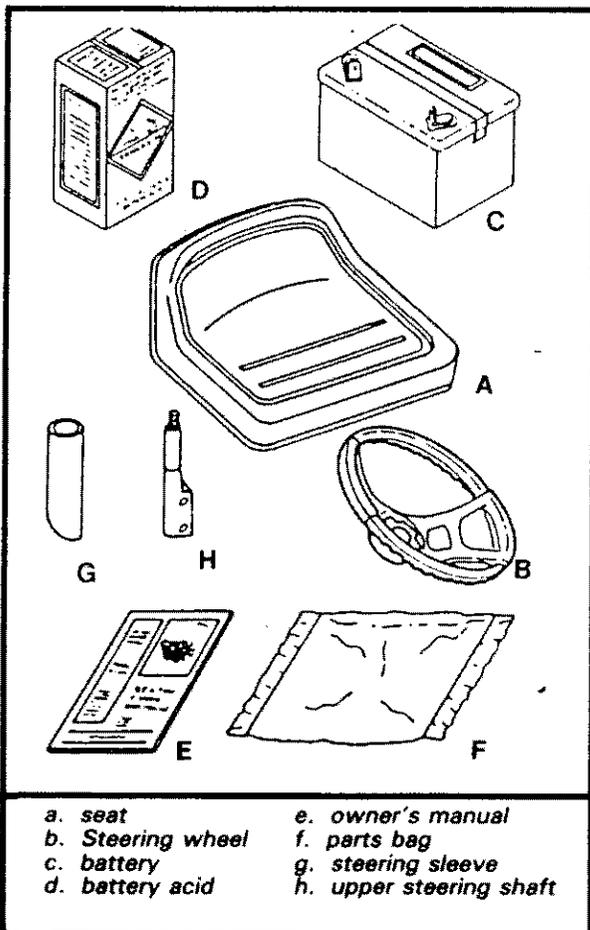
- Take items out of box. The box contains the items shown below.
- Cut down four corners of the carton with a utility knife and fold down sides.
- Disengage Parking Brake.
- Install Steering Wheel

- Slide upper steering shaft over lower steering shaft until bolt holes line up with slots in lower steering shaft (Fig. 1).
- Use two hex bolts $3/8 - 16 \times 1-1/4$ and two locknuts $3/8 - 16$ to retain upper steering shaft to lower steering shaft. Tighten securely. Bolts and nuts found in bag of parts.
- Position Steering Sleeve over steering shaft assembly.
- For easier assembly, tilt tube towards front of tractor.
- Place bottom of Steering Sleeve over two front prongs on steering bushing.
- Squeeze the two steering sleeve retainers inward to allow Steering Sleeve to pass over retainers.
- Push Steering Sleeve down aligning notch on Steering Sleeve with tab on steering

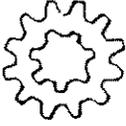
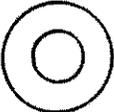
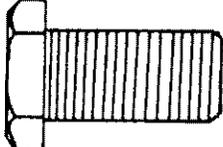
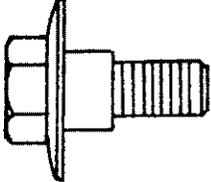
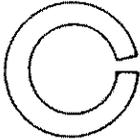
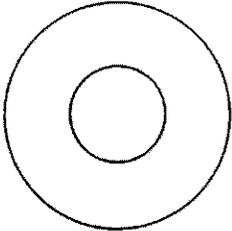
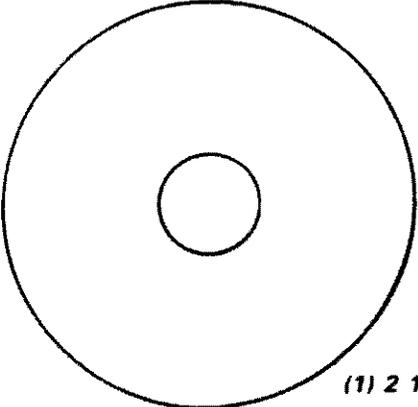
- bushing.
- Place steering wheel adapter on upper steering shaft.
- With front wheels pointed straight ahead, place steering wheel on steering wheel adapter. Bars of steering wheel should point straight across tractor.
- Place 2 - $1/4''$ diameter washer on upper steering shaft and install a $1/2''$ 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.
- Roll Tractor off skid. Be careful of staples in skid.



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) Lockwasher, 1/4 Int/Ext Tooth</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) Washer 9/32 x 5/8 x 16 Ga.</p>	 <p>(2) Lockwasher 1/4</p>  <p>(2) Hex Nut, 1/4 - 20</p>
<p>SEAT</p>	 <p>(1) Hex Bolt, 1/2 - 13 - x 1</p>  <p>(1) Shoulder bolt 5/16 - 18</p>	 <p>(1) Lockwasher 1/2</p>  <p>(1) Washer 17/32 x 1 - 3/16 x 12 Ga.</p>
<p>UPPER STEERING SHAFT</p>	 <p>(2) Hex Bolt 3/8 - 16 x 1 1/4</p>	 <p>(2) Hex Locknut 3/8 - 16</p>
<p>STEERING WHEEL</p>	 <p>(1) 2 1/4" Dia. Washer</p>  <p>(1) Locknut, 1/2-20</p>	

ASSEMBLY

To assemble tractor you will need:

- | | |
|---------------------|---------------------|
| (2) 7/16" Wrenches | Tire Pressure Gauge |
| (1) 1/2" Wrench | Screwdriver |
| (2) 11/16" Wrenches | Utility Knife |
| (1) 3/4" Wrench | |

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

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.



2. Prepare Battery

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. 3). 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 four inches of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
- 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.

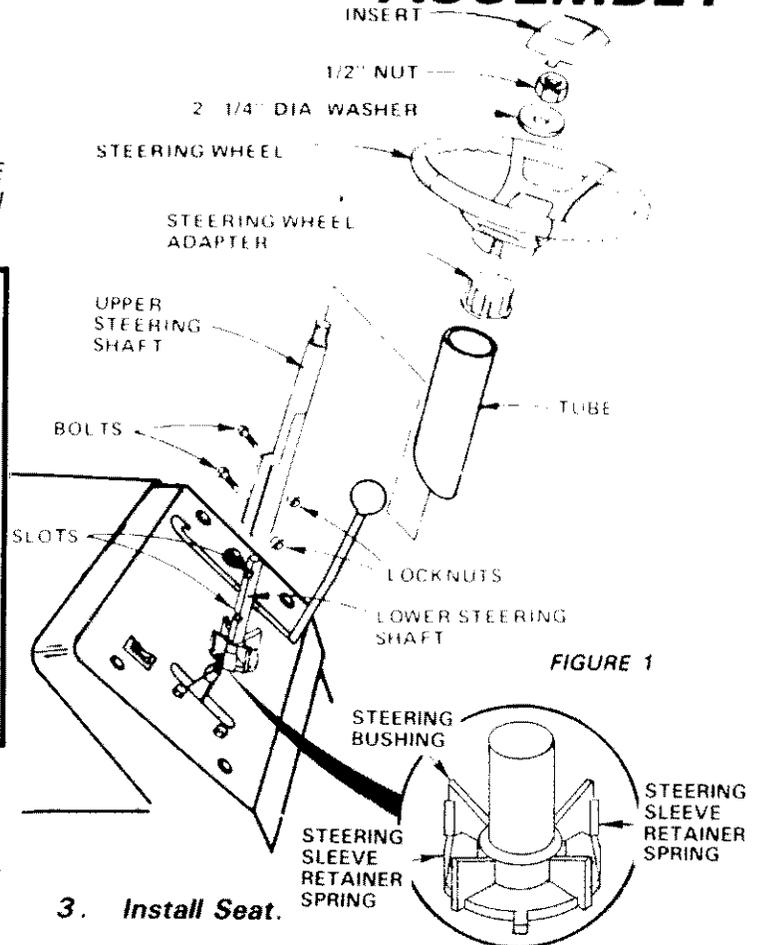


FIGURE 1

3. Install Seat.

Seat position should be adjusted forward or backward so that the operator can comfortably reach Clutch/Brake Pedal and safely operate tractor.

- Place seat on seat pan. Screw hex head machine screw, lockwasher and flat washer into seat (Fig. 2). Screw shoulder bolt into seat (Fig. 2). Machine screw, 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 machine screw, lockwasher and flat washer using a 1/2" wrench.
- 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 machine screw. Slide seat to desired position. Tighten machine screw securely.



MACHINE SCREW-LOCKWASHER-FLAT WASHER MUST BE TIGHTENED SECURELY TO PREVENT MOVEMENT OF SEAT.

ASSEMBLY

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, WRISTWATCH BANDS, RINGS, ETC. FROM YOUR PERSON. TOUCHING THESE ITEMS TO BATTERY TERMINALS COULD RESULT IN BURNS.

- Lift seat (Fig. 2).
- Lower battery into fender well with battery terminals toward front of tractor (Fig. 4). Make sure battery rests in battery tray (Fig. 4).

NOTE: BE SURE BATTERY DRAIN TUBE IS SECURELY ATTACHED TO BATTERY TRAY DRAIN.



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

- Connect **RED** battery cable to positive (+) battery terminal with hex bolt, flat washer, lockwasher and hex nut (shown full size on pg. 6) found in bag of parts. Tighten securely with two 7/16" wrenches. (Fig. 4)
- Connect **BLACK** ground cable to negative (-) battery terminal with remaining hex bolt, flat washer, lockwasher and hex nut (shown full size on pg. 6) found in bag of parts. Tighten securely. (Fig. 4)
- To prevent corrosion, apply grease to the battery terminals after installing cables.
- Using the key hole on one side of the battery support (Fig. 5) slide battery bolt into frame key hole (head of bolt down). Fasten the battery bolt to the terminal guard using internal/external lockwasher, wing nut, (shown full size on pg. 6) as shown in Fig. 5.
- Assemble the remaining battery bolt to other side of battery support and fasten terminal guard to it with remaining internal/external lockwasher, wing nut, (shown full size on pg. 6) as shown in Fig. 5.

NOTE: KEEP TERMINAL ACCESS DOORS CLOSED WHEN NOT IN USE.

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

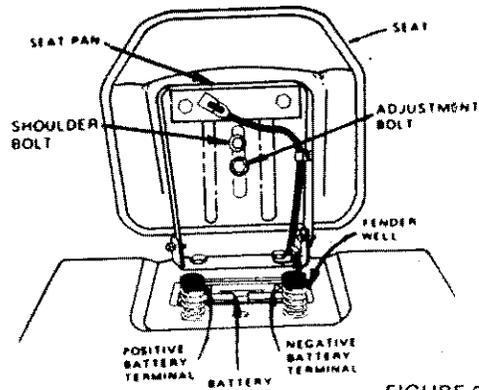


FIGURE 2

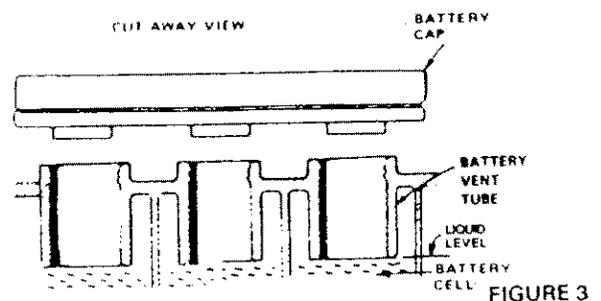


FIGURE 3

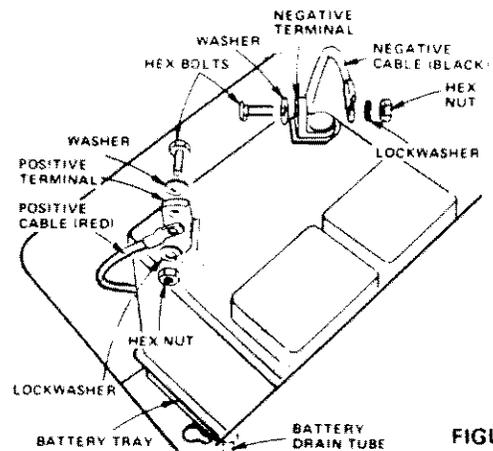


FIGURE 4

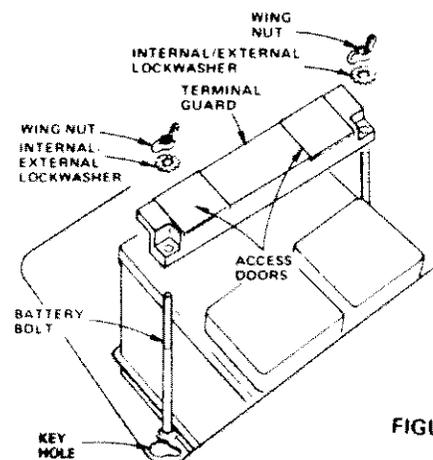


FIGURE 5

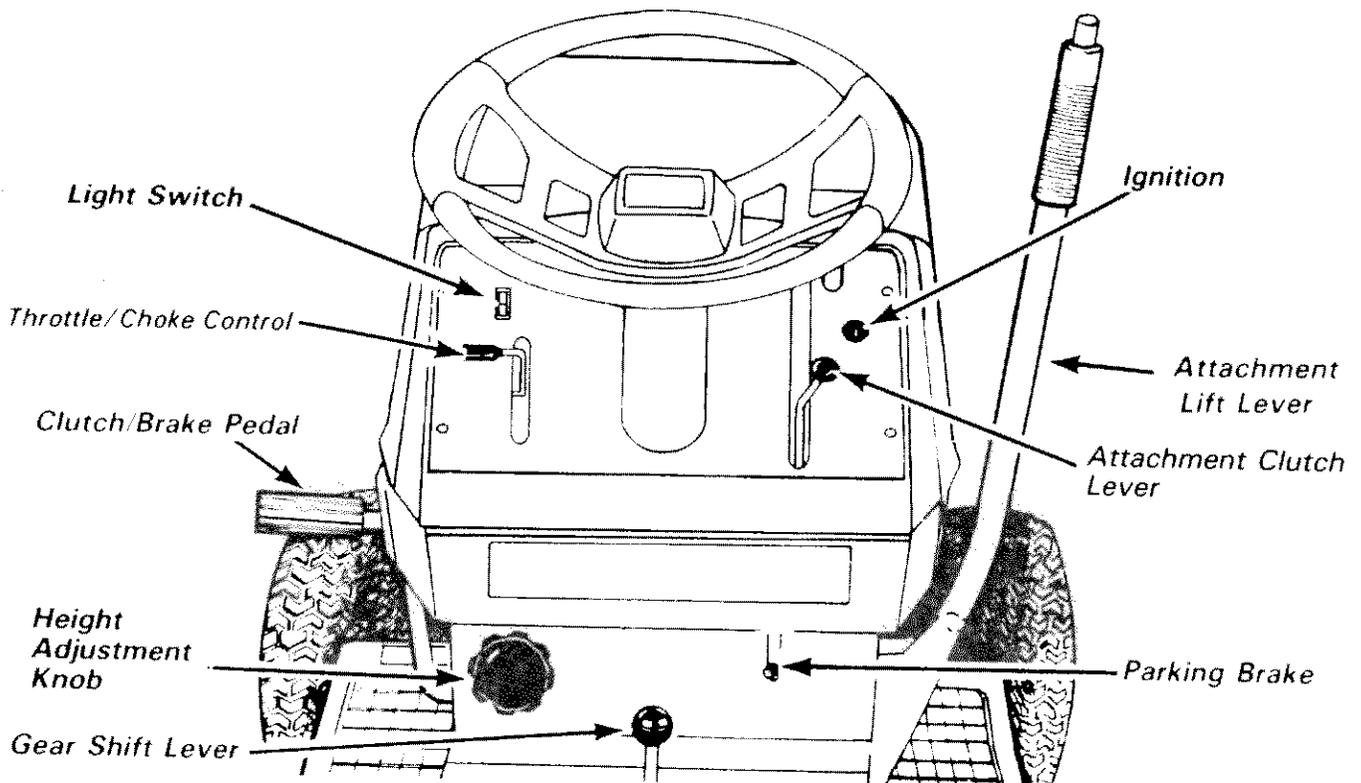
6. Maintenance After First 2 Hours (Two Mowings)

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

OPERATION

KNOW YOUR TRACTOR

READ THIS OWNER'S MANUAL BEFORE OPERATING YOUR LAWN TRACTOR. If you understand the unit and its operation, you will achieve efficient and peak performance. While reading the manual, compare the illustrations with your Lawn Tractor to familiarize yourself with the location of various controls and adjustments. Study the operating instructions and safety precautions thoroughly to insure proper functioning of your Lawn Tractor and to prevent injury to yourself and others. Be sure to pay strict attention to all warnings and cautions: they are included for your safety. Save this manual for future reference.



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.

ATTACHMENT HEIGHT ADJUSTMENT KNOB: Use the height adjustment knob to adjust the mower height. With the attachment lift lever in the "up" position, turn knob clockwise (↻) to raise cutting height and counterclockwise (↻) to lower cutting height.

GEARSHIFT: Press the clutch/brake pedal down firmly and move gear shift 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.

OPERATION

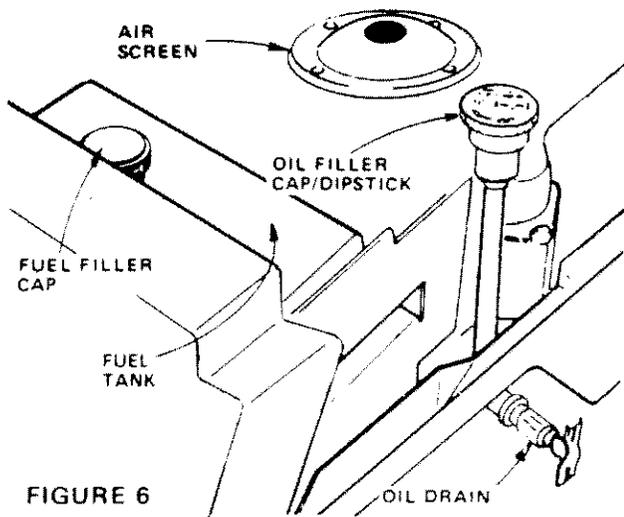


FIGURE 6

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. (Fig.7)
- Move gear shift lever to "NEUTRAL" position. (Fig.7)
- Place parking brake in "ENGAGED" position and release pressure from clutch/brake. Pedal should remain in "BRAKE" position. (Fig.7)
- Move throttle control to "S" (slow) position. (Fig.7)
- Turn ignition key to "OFF" position. Never use choke to stop engine. (Fig.7)

2. Preparing The Engine



LEARN TO START, STOP AND REVERSE YOUR TRACTOR IN A LARGE, OPEN AREA.

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



FILL TO BOTTOM OF GAS TANK FILLER NECK. DO NOT OVERFILL. WIPE OFF ANY SPILLED OIL OR FUEL. DO NOT STORE, SPILL OR USE GASOLINE NEAR AN OPEN FLAME.

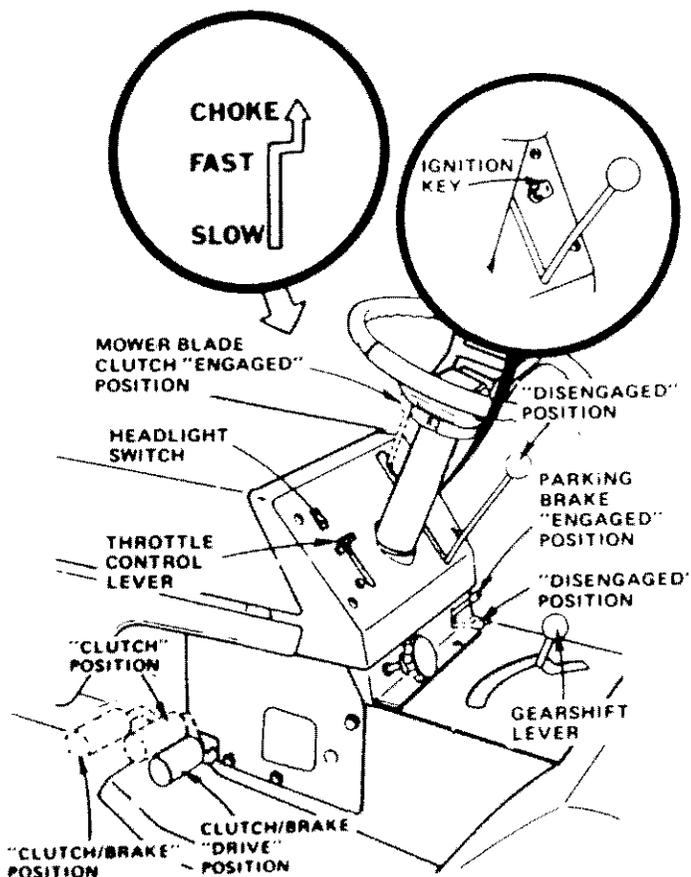


FIGURE 7

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 AN 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

- a. Move throttle control lever (Fig. 7) past "FAST" to the "CHOKE" position.
- b. 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.

- c. 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).
- d. After the engine starts move throttle control lever slowly to the "SLOW" position.
- e. 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.

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



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

CAUTION TO AVOID INJURY

1. Read owner's manual.
2. Know location and function of all controls.
3. Keep guards, safety shield and switches in place and working.
4. Remove objects that can be thrown by blades.
5. Do not mow when children and others are around.
6. Never carry children or passengers.
7. Always look behind machine before backing.
8. Do not mow where machine can tip or slip.
9. If machine stops going uphill, stop blades and back slowly down.
10. Be sure blades and engine have stopped before placing hands or feet near the blades.
11. Remove key when leaving machine.



MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

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.

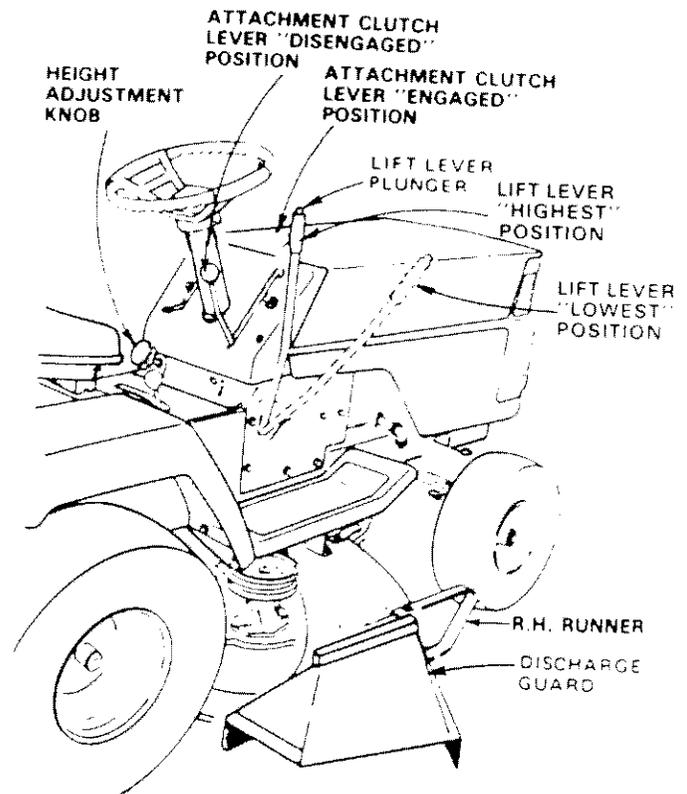


FIGURE 8

4. Operating Your Lawn Tractor & Mower



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

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.

- a. Move the attachment lift lever to the high position and adjust height of cut to mid range. See Fig. 8.
- b. Start the engine. (See Starting the Engine)
- c. Move the throttle lever to mid range position. Select a low (1st or 2nd) gear until you become more familiar with the operation of the unit.
- d. Slowly release clutch brake pedal and proceed to the mowing area.
- e. Stop the unit, then select a mowing speed. (See Speed Selection Guide, page 12).
- f. Move throttle lever to half throttle and slowly move attachment clutch lever to engaged position, Fig. 8.

OPERATION

- g. Slowly release clutch brake pedal.
- h. Move throttle lever to fast position.
- i. Observe height of cut and readjust as desired.

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

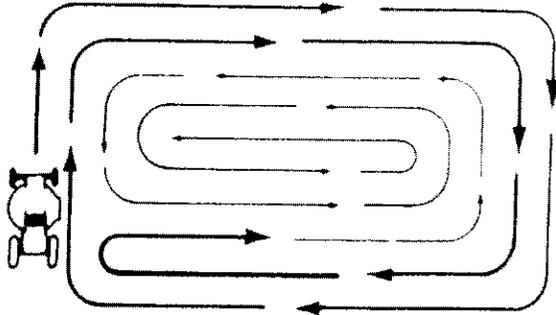


FIGURE 9

5. Mowing Tips

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

- a. Mower should be adjusted properly front to back and side to side for good mowing performance. Refer to REPAIR AND ADJUSTMENT section (page 22).
- b. Use the runner on the R.H. side as a guide; the blade cuts approximately an inch outside the runner (Fig. 8).
- c. 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.
- d. 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.
- e. If grass is extremely tall, it should be mowed twice. The first time cut relatively high; the second time to the desired height.
- f. The left hand side of mower should be used for trimming.
- g. See Speed Selection Chart.
- h. Do not mow tall, dry (brown) grass over 6 inches 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 51.

- a. Move gear shift lever to "1st" gear before starting up or down hills.
- b. **AVOID STOPPING OR SHIFTING ON HILLS.**
- c. 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.

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

7. Transporting Your Tractor

For pushing or towing your tractor, place Gear Shift Lever in "N" position. Do not tow or push at more than 6 MPH.

SPEED SELECTION GUIDE		
FUNCTION	GEARSHIFT	THROTTLE
Normal Mowing	2 or 3	FAST
Heavy Mowing	1 or 2	
Snow Blowing	1	
Snow Blade	2	SLOW-FAST
Transport	4-6	

MAINTENANCE

To keep your tractor running better, 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 17).



BEFORE MAKING ANY INSPECTION, ADJUSTMENT, OR REPAIR:

1. PUSH CLUTCH/BRAKE PEDAL COMPLETELY DOWN.
2. MOVE GEAR SHIFT CONTROL LEVER TO NEUTRAL POSITION.
3. PLACE PARKING BRAKE IN "ENGAGED" POSITION. REMOVE FOOT FROM PEDAL.
4. DISENGAGE ATTACHMENT CLUTCH LEVER.
5. SHUT OFF THE ENGINE.
6. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED.
7. DISCONNECT THE SPARK PLUG WIRE FROM THE SPARK PLUG AND KEEP WIRE AWAY FROM THE SPARK PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

SERVICE RECORD

(Enter Date Maintenance Performed)

SERVICE RECORD	SCHEDULE							
	FIRST 2 HOURS	EVERY 5 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS			
Fill in dates as you complete regular service								
Blades - sharpen			✓					
Brake Adjustment			✓					
Check Battery				✓				
Change Engine Oil	✓			✓				
Check Engine Oil Level		✓						
Clean Air Cleaner Element				✓				
Check Muffler				✓				
Clean Air Screen				✓				
Clean Front Grill				✓				
Lubricate Tractor				✓				
Replace Spark Plug					✓			
Replace Air Cleaner Element					✓			
Check Tire Pressure			✓					
Replace Fuel Filter					✓			

REPAIR AND ADJUSTMENT

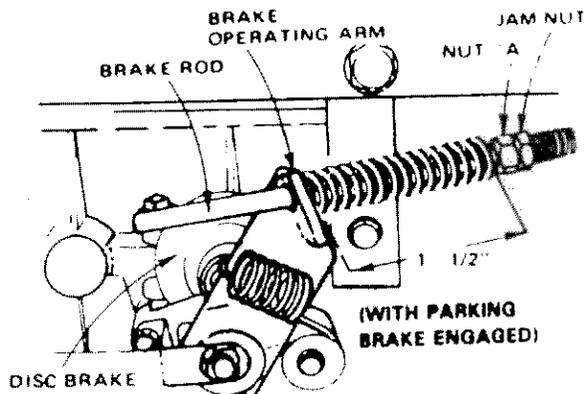


FIGURE 10

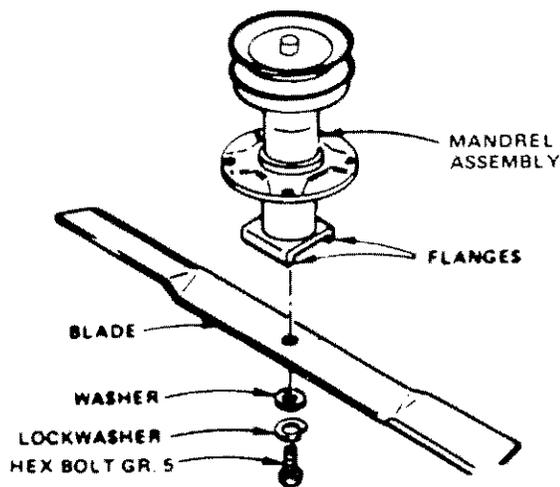
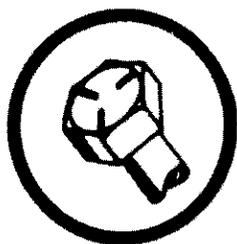


FIGURE 11



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

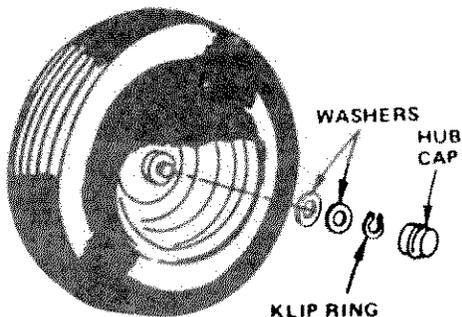


FIGURE 12

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 STOPPING DISTANCE IN HIGHEST GEAR, THEN BRAKE MUST BE ADJUSTED.

- a. Depress clutch/brake pedal and engage parking brake.
- b. Measure distance between brake operating arm and nut "A" on brake rod.
- c. If distance is other than 1-1/2" loosen jam nut (Fig. 10) and turn nut "A" until distance becomes 1-1/2", retighten jam nut against nut "A".

Road test tractor for proper stopping distance as stated above. Readjust if necessary.

2. Tire Care

- a. Maintain tire pressure in front at 14 PSI and rear tires at 12 PSI.
- b. Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- c. Avoid stumps, stones, deep ruts and other hazards that may cause tire damage.
- d. Removing wheel for tire repair (Fig. 12).
 - 1 - Block up axle securely.
 - 2 - Remove hub cap, klip ring and washer to allow wheel removal.
 - 3 - Repair tire and reassemble. Replace washers and snap klip ring securely in axle groove. Replace hub cap.

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 blade away rapidly.

a. Blade Replacement

Raise mower to highest position to permit access to blades.

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

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.

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 of the straight nail exposed. Place center hole of clean blade over the head of the nail (Fig. 13). NOTE: CENTER 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.

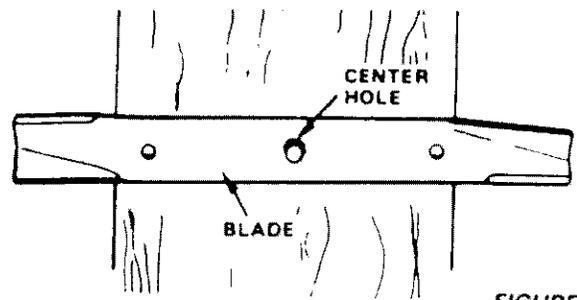


FIGURE 13

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 at 6 amperes for 1 hour if necessary.

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.

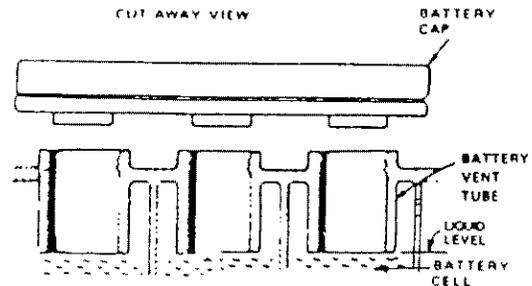


FIGURE 14

LEAD-ACID BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS, FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS SHIELD YOUR EYES 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 of baking soda to one gallon of water. NOTE: BE CAREFUL 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.

REPAIR AND ADJUSTMENT

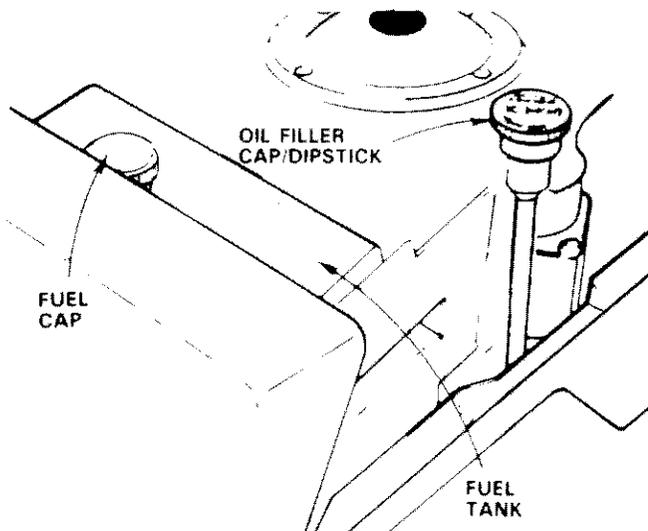


FIGURE 15

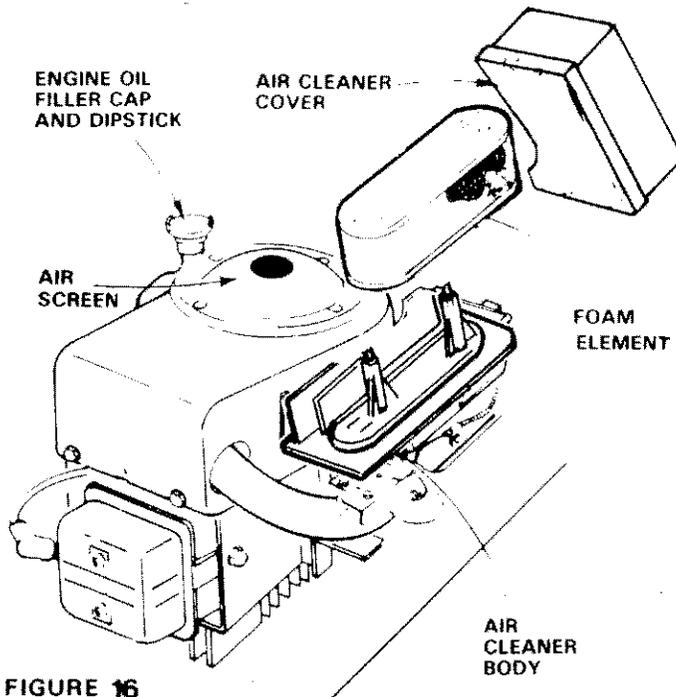


FIGURE 16

5. Change Engine Oil

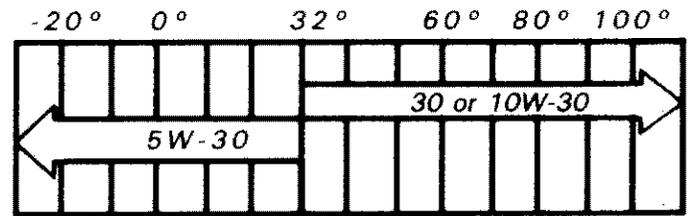
The best time to change engine oil is at the end of a day's operation when all dirt and foreign materials are suspended in the hot oil.

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

CAUTION: TO AVOID DAMAGE TO THE STARTING SYSTEM, USE SAE 5W30 OIL WHEN THE TEMPERATURE FALLS BELOW 32°.

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.



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 foam pre-cleaner.
 - Wash pre-cleaner in liquid detergent and warm water to remove dirt.
 - Wrap pre-cleaner in cloth and squeeze dry.
 - Wipe foam with a light coat of engine oil. Do not saturate, squeeze in rag or towel to remove excess oil.
- 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.



ALWAYS WEAR EYE AND FACE PROTECTION WHEN USING COMPRESSED AIR.

Air screen and cooling fins (Figs. 16 and 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 hood (page 20).
- Snap off air cleaner cover (Fig. 16).
- Remove 3 screws securing air cleaner body (Figs. 16 and 17) and remove. (Cover carburetor to prevent entry of dirt.)
- Remove oil dipstick and cover opening to prevent entry of dirt.
- Remove 3 screws from blower housing and lift housing off engine (Fig. 17).
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins (Fig. 17) and air screen (Fig. 16).
- To reassemble, reverse above procedure.
- Be certain carburetor tube, breather tube, and gaskets are in place (Fig. 17).

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 parts move against each other, especially:

- Front axle pivot
- Hood hinges
- Foot pedal shaft (both ends)
- Lift shaft (both ends)

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 GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED 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 cable to the POSITIVE (+) terminals of each battery (taking care not to short against chassis). (Fig. 18)
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the 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.

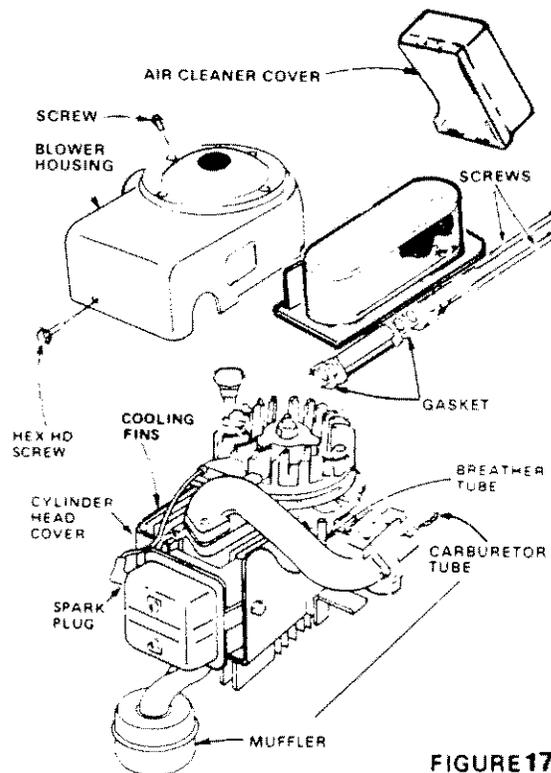


FIGURE 17

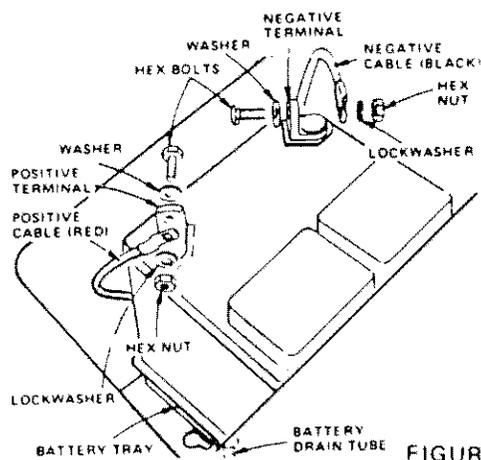


FIGURE 18

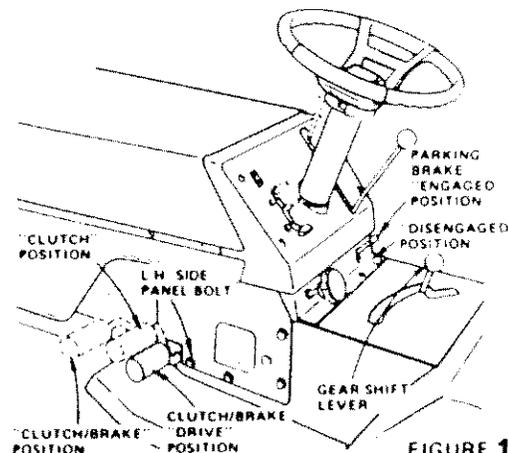


FIGURE 19

REPAIR AND ADJUSTMENT

- d. If holes do not align, repeat steps in throttle cable adjustment.

13. Carburetor adjustment

NOTE: ADJUST THROTTLE CONTROL CABLE BEFORE MAKING ANY ADJUSTMENT TO CARBURETOR.

- a. With engine off turn high speed mixture screw clockwise (↻) closing finger tight ONLY, and turn counterclockwise (↺) 1-¾ 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 (↺) 1-½ turns (Fig. 20).

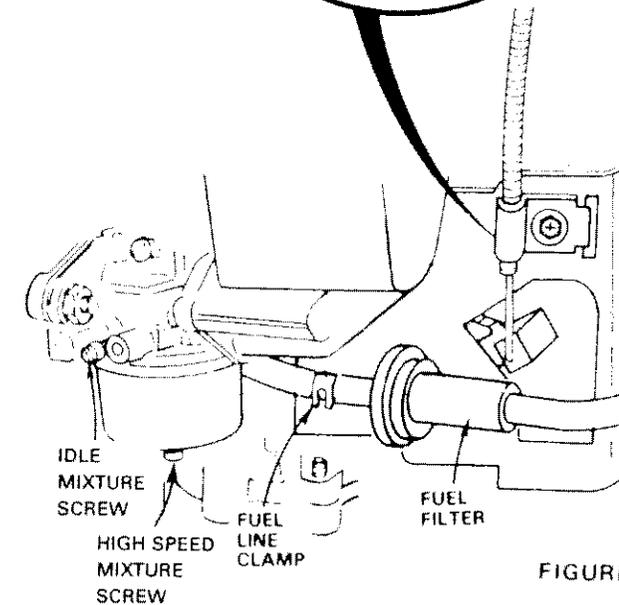
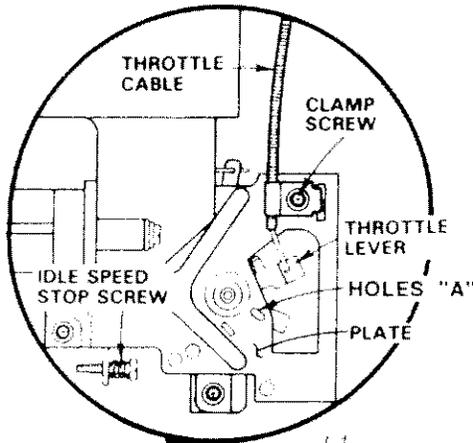


FIGURE 20

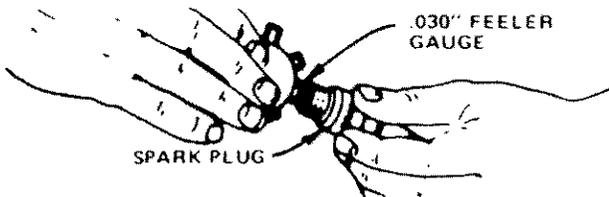


FIGURE 21

12. Throttle Control Cable Adjustment

DO NOT MAKE UNNECESSARY ADJUSTMENTS. FACTORY SETTINGS ARE SATISFACTORY FOR MOST APPLICATIONS AND CONDITIONS. IF ADJUSTMENTS ARE NEEDED, PROCEED AS FOLLOWS.

- Make sure air cleaner is clean (see page 16).
- With engine not running, place throttle control in "FAST" detent (not in "CHOKE" position).
- Check that hole in throttle lever and hole in plate line up (Fig. 20 - Insert). If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw.

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 clockwise (↻) until engine runs "rough" then turn counterclockwise (↺) ¾ turn.

- e. With throttle control lever in "SLOW" position, 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 1700 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.

- h. High speed stop is factory adjusted. DO NOT ADJUST - DAMAGE MAY RESULT.

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 (Fig. 21).

15. Adjust Valves on Engine

After approximately 200 hours of operation, the engine valves will require adjustment. It is suggested that a Sears Service Center do this work. Correct settings are: Intake - .002, Exhaust - .004.

REPAIR AND ADJUSTMENT



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

16. Replace In-Line Fuel Filter

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

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

17. 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 20).
 - 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.

NOTE: REPLACE ONLY WITH BELT LISTED IN MANUAL.

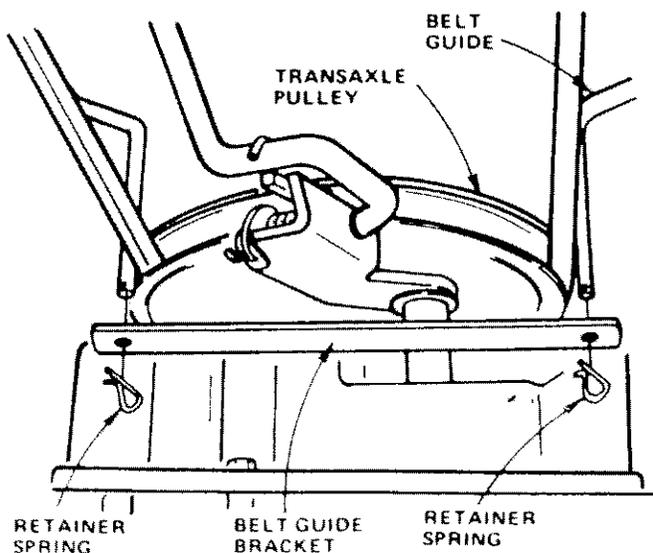


FIGURE 22

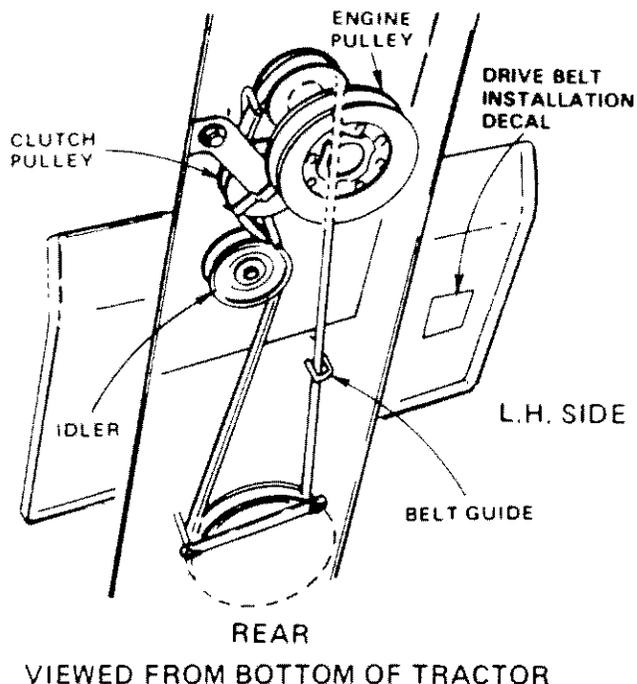


FIGURE 23

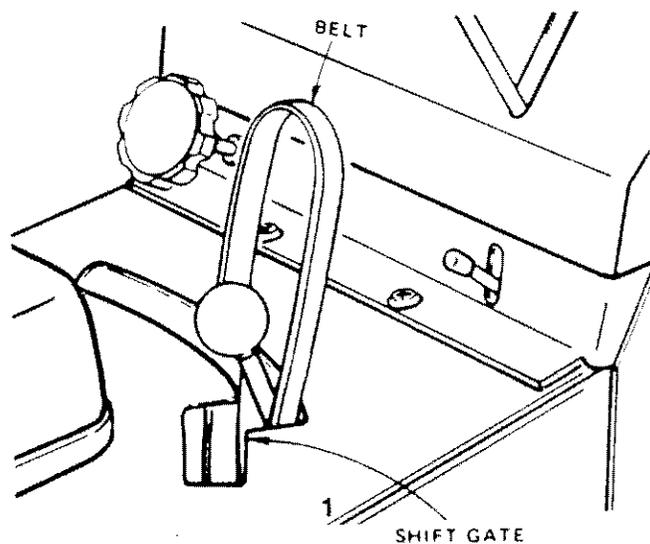


FIGURE 24

REPAIR AND ADJUSTMENT

18. Fuse Replacement

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

19. Hood Removal

- To raise hood, lift at rear of hood.
- To remove hood, grill and side panels, raise hood and loosen one screw on each side panel. (This screw remains in the side panel) (Fig. 25).
- Unsnap headlight connection (Fig. 26).
- Stand in front of tractor. Grasp hood and tilt forward and lift off (Fig. 26).
- To reinstall, reverse above procedure.

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. 27)
- Pull retainer springs out of rear suspension trunnions. Remove rear suspension trunnions from lift brackets (Fig. 27).
- Pull retainer spring out of rear hinge pin. Remove rear hinge pin. (Fig. 27)
- Pull retainer spring out of front hinge pin. Remove front hinge pin (Fig. 27).
- 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. 27) SHOULD BE REMOVED FROM TRACTOR.

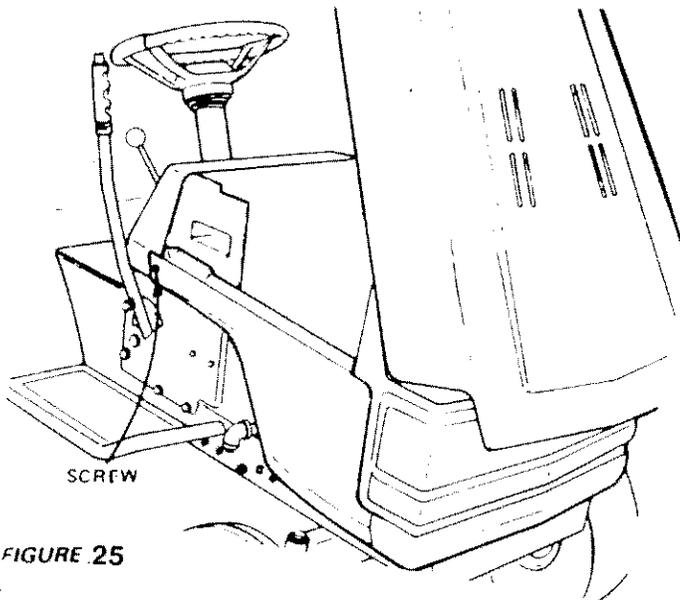


FIGURE 25

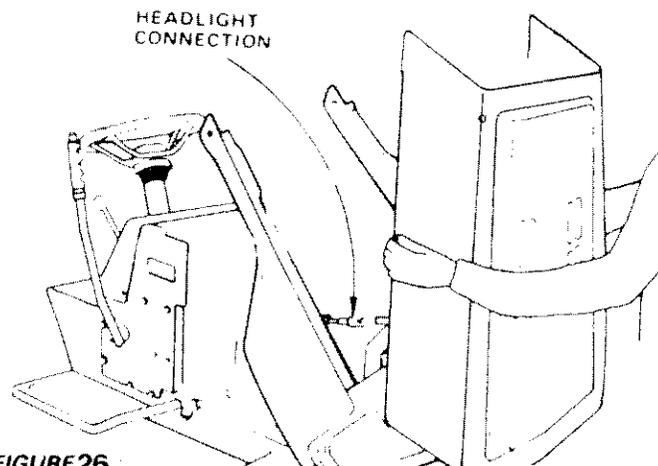


FIGURE 26

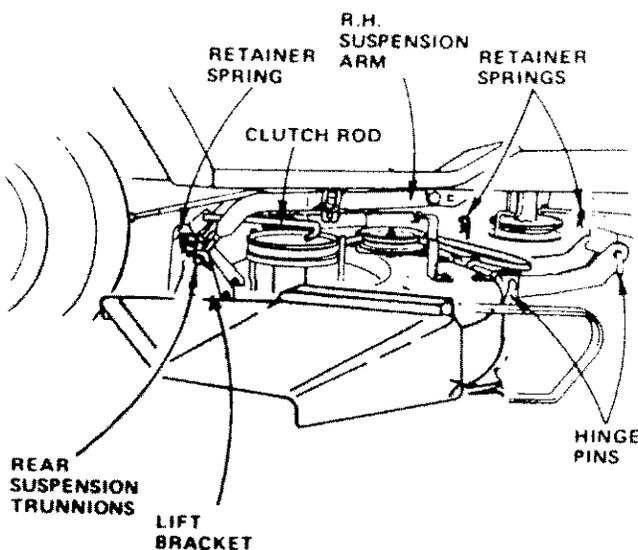


FIGURE 27

REPAIR AND ADJUSTMENT

21. Mower Installation

Your Mower installs without the use of tools. Raise Attachment Lift Lever (Fig. 28) to its highest position. Turn height adjustment knob to lowest position (Fig. 29).

- Slide Mower under tractor, discharge guard to R.H. Side.
- Install front hinge pin through axle and parallel link (Fig. 30). Secure with retainer spring.
- Install rear hinge pin through mower lift brackets and parallel link (Fig. 30). Secure with retainer spring.
- Install clutch rod in clutch lever (Fig. 30).
- Move Attachment lift lever (Fig. 28) forward to lower suspension arms. Slide trunnions through lift bracket holes and secure with retainer springs (Fig. 27).
- Roll belt over engine pulley. Make sure belt is inside belt guides (Fig. 29). See belt drive schematic decal on mower housing.
- Use Attachment lift lever (Fig. 28) to raise mower.
- Turn height adjustment knob clockwise (↻) to the middle of its travel, or to desired cut height (Fig. 29).

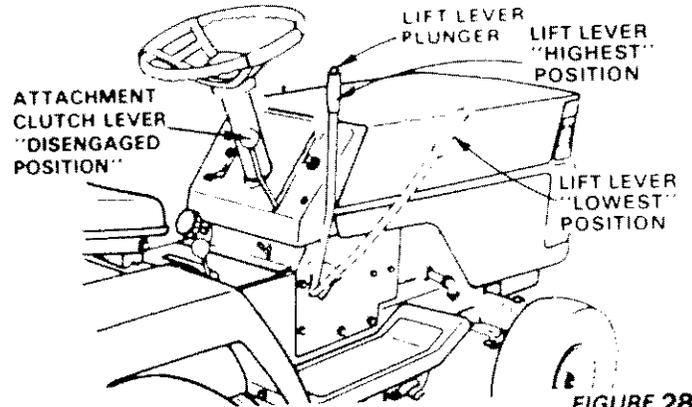


FIGURE 28

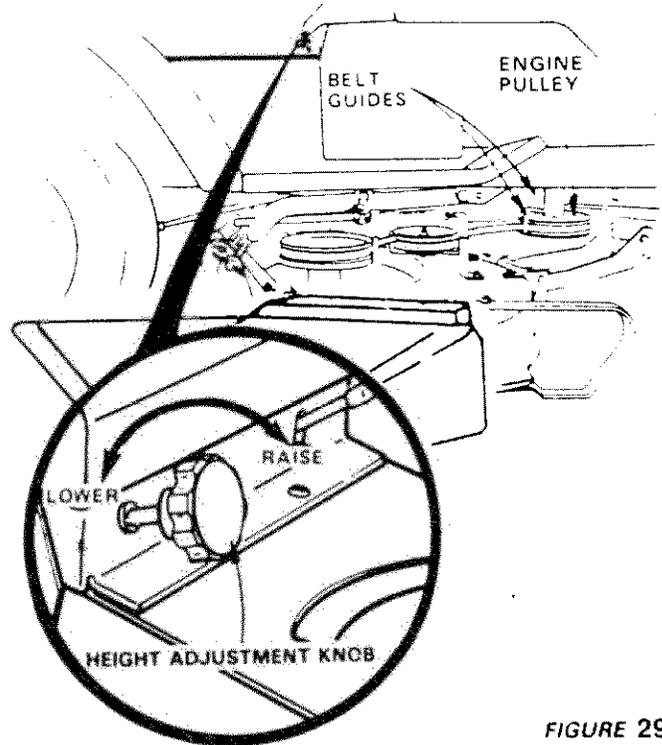


FIGURE 29

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. 28).
- Turn height adjustment knob to lowest position. Move Attachment lift lever (Fig. 28) forward to lower mower to its lowest position.
- Roll belt off engine pulley (Fig. 29).
- 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.

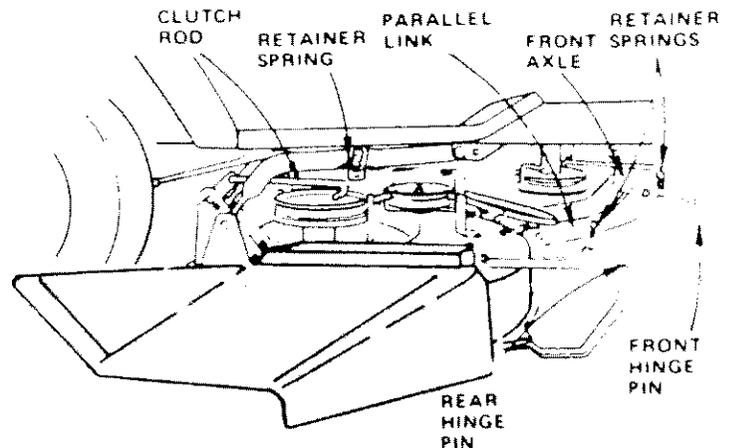


FIGURE 30

REPAIR AND ADJUSTMENT

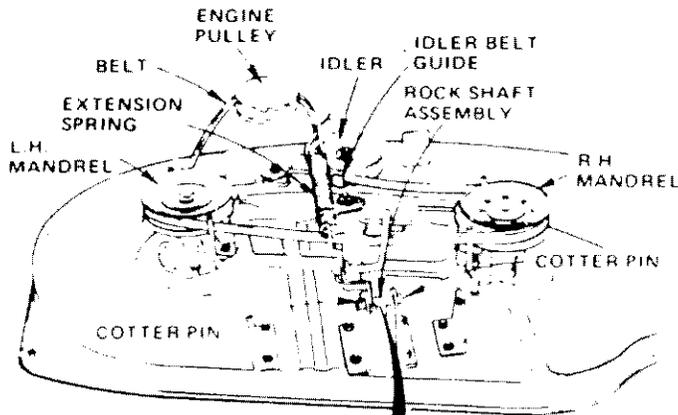


FIGURE 31

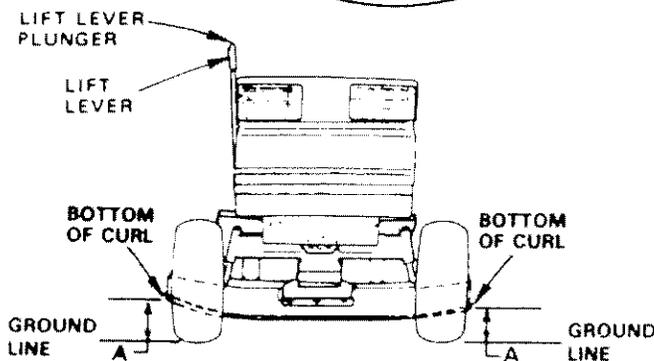
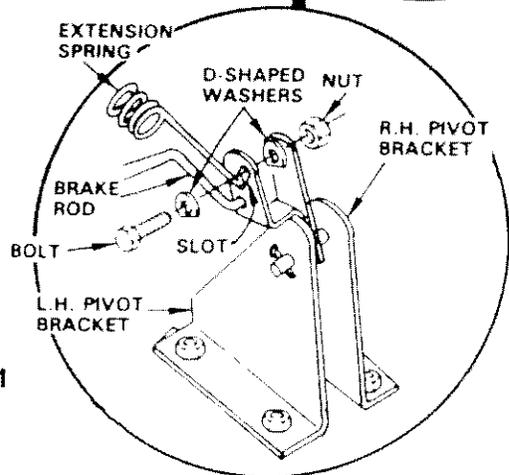


FIGURE 32

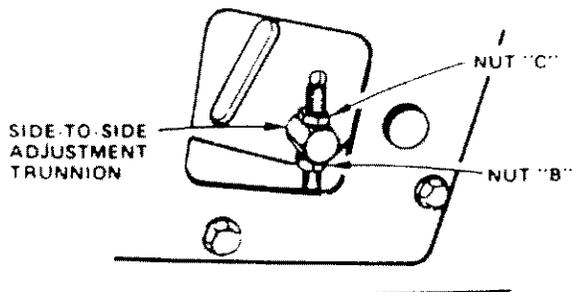


FIGURE 33

23. Mower Drive Belt Replacement

- Slide belt under extension spring (Fig. 31).
- 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.

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 3-1/2" 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. 31 - 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).

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

25. Level Mower Housing

Adjust the mower while tractor is parked on level ground or driveway. Make sure tire pressures 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.
- Measure height from bottom of curl to ground line at front of mower. Distance "A" should be the same on both sides (Fig. 32).
- 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. 33).
- 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" 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. 34) is 1/2" 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. 35).
- c. When distance "D" is 1/2" 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. 35).
- e. When distance "D" is 1/2" 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

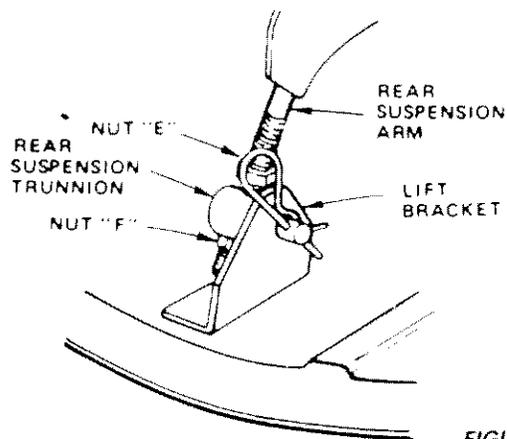
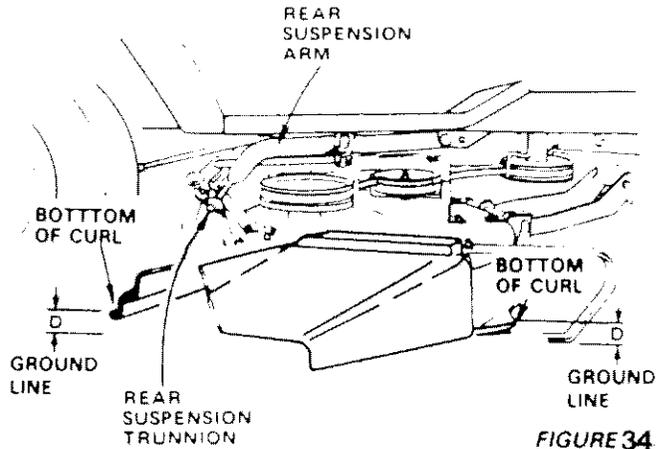
It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose, or tank during storage. Also, experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation 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 of oil through spark plug hole into cylinder.
3. Turn ignition key to "START" position for a few seconds to distribute oil.
4. Replace with new spark plug.



D. Battery

1. Prior to storage, clean terminals and top of battery.
2. Disconnect cable from positive side of battery.

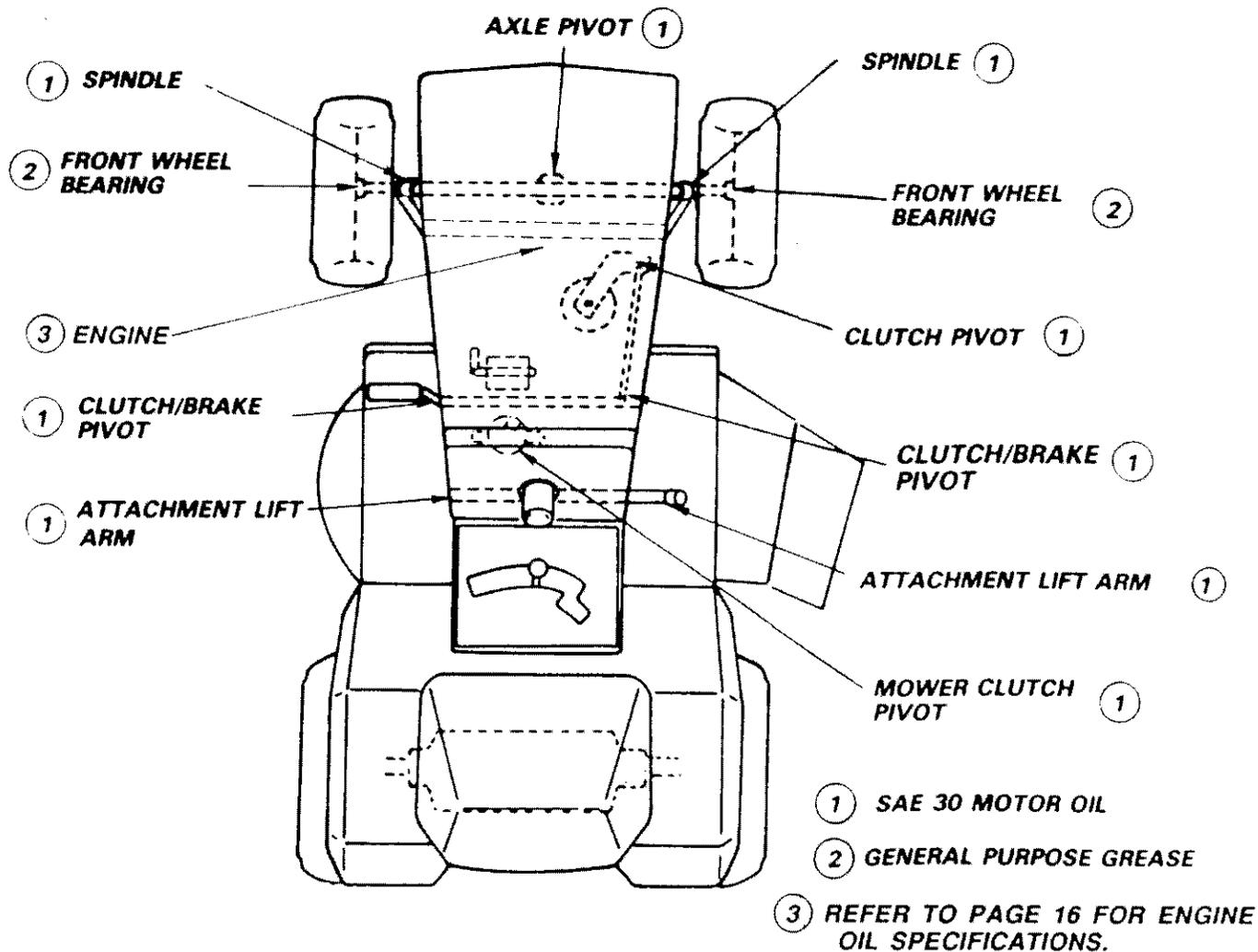
E. General Cleaning

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

F. Store in a clean, dry area.

REPAIR AND ADJUSTMENT

LUBRICATION CHART



TROUBLESHOOTING

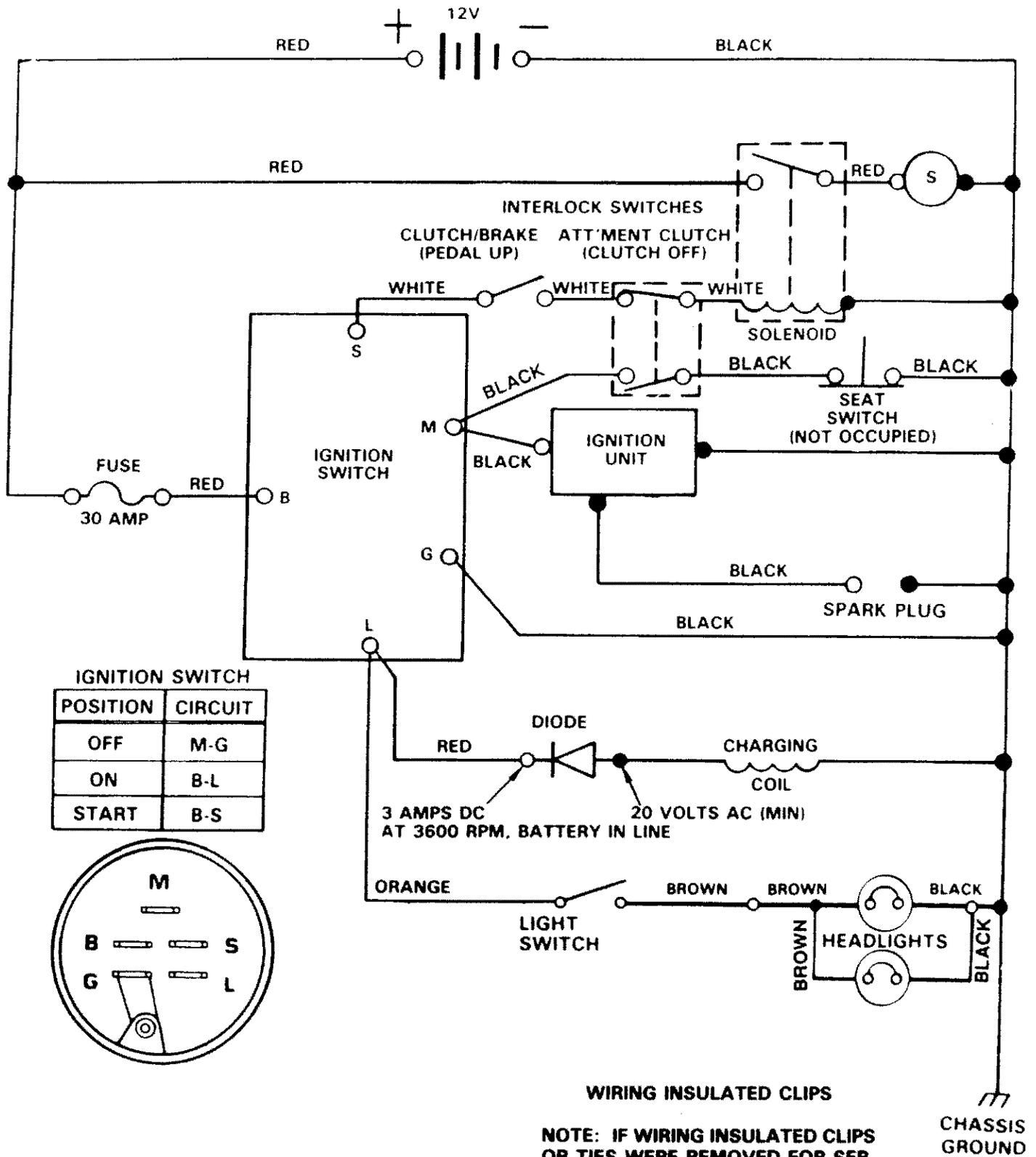
PROBLEM	CAUSE/REMEDY (SEE INDEX)
WILL NOT START	<p><i>Push Clutch/Brake Pedal into Brake Position. Move Attachment Clutch Lever to "Disengaged Position Fill Fuel Tank with Gasoline. Check Fuel Line and Carburetor (clean if necessary) Replace Fuel Filter Check fuse for fault and replace Recharge or replace Battery Check Wiring Replace Spark Plug and adjust gap Adjust valves</i></p>
WILL NOT TURN OVER	<p><i>Charge Battery Replace Ignition Switch Depress Clutch/Brake Pedal Disengage Attachment Clutch Lever Replace Interlock Switch Replace Solenoid Replace Fuse Check All Wire Connections</i></p>
ENGINE CLICKS BUT WON'T START	<p><i>Replace Starter Charge or Replace Battery</i></p>
HARD TO START	<p><i>Place Throttle Control in "FAST" position and run starter several times to clear out gas Remove and clean Fuel Tank and lines. Replace Fuel Filter Remove Air Filter and clean Replace Spark Plug and adjust gap Replace Battery Check the wiring and Spark Plug Drain Fuel Tank and Carburetor, use fresh fuel and replace Spark Plug Make necessary adjustments to Carburetor Adjust valves Major Engine Overhaul</i></p>
ENGINE MISSES OR LACKS POWER	<p><i>Shift to a lower gear or reduce load Remove and clean Fuel Tank; replace Fuel Filter Remove and clean Air Cleaner Make necessary carburetor adjustments Clean Air Screen Add or change oil Replace Spark Plug Check Spark Plug and check for loose wires Major Engine overhaul Drain Fuel Tank and Carburetor and refill Adjust valves</i></p>
ENGINE OVERHEATS	<p><i>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</i></p>
NO LIGHTS	<p><i>Check Fuse, Switch and wire connections. Replace Headlight Bulbs</i></p>
WON'T CHARGE	<p><i>Check Fuse and replace Replace Battery Replace Regulator Replace Alternator</i></p>
<p>OPERATOR PRESENCE SYSTEM WILL NOT SHUT DOWN WHEN OPERATOR LEAVES SEAT. <i>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 attachment clutch engaged will shut down the engine.</i></p>	<p><i>Engage attachment clutch Check all wire connections Check seat switch Check operator presence relay. Check PTO Switch.</i></p>

TROUBLESHOOTING

<p>UNSATISFACTORY MOWER PERFORMANCE UNEVEN DISTRIBUTION OF CLIPPINGS</p>	<p><i>Place Throttle Control in "FAST" position</i> <i>Check air pressure in tires</i> <i>Check front to rear and side to side mower adjustment</i> <i>Use a slower ground speed</i> <i>Check engines RPM's (refer to Carburetor Adjustment)</i> <i>Replace mower blades</i> <i>Reinstall mower blades with top of blade up</i> <i>Replace with proper mower blades</i> <i>Re-adjust mower drive belt</i></p>
<p>MOWER BLADES WILL NOT ROTATE</p>	<p><i>Install new Mower Drive Belt</i> <i>Reinstall Mower Drive Belt</i> <i>Adjust Mower Drive Belt</i> <i>Replace Frozen Mandrel</i> <i>Replace Frozen Idler Pulley</i></p>
<p>EXCESSIVE MOWER VIBRATION</p>	<p><i>Replace Bent or Unbalanced Blades</i> <i>Replace Mandrel, Straighten Deck or replace</i></p>
<p>WIND ROWING STRIPPING OR DROPPING OF GRASS CLIPPINGS</p>	<p><i>Let grass dry out</i> <i>Clean underside of Mower Deck</i> <i>Readjust Mower</i></p>
<p>UNEVEN CUT OR SCALPING</p>	<p><i>Readjust Mower</i></p>

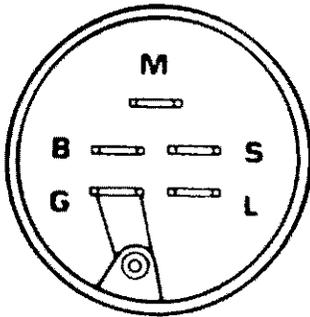
12 H.P. 38" RIDING LAWN TRACTOR -- MODEL NUMBER 917.254622

SCHEMATIC



IGNITION SWITCH

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

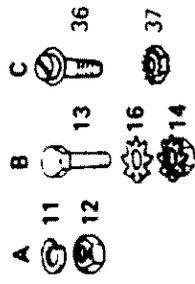


REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	7662J	Bulb, Light	22	STD551025	* Washer 9/32 x 5/8 x 16 Ga.
2	110859X	Harness, Light Socket	23	STD541025	* Nut, Hex 1/4-20
3	121347X	Harness, Ignition	24	121265X	Battery, 12V., Terminal Guard
4	109310X	Key, Molded	25	102476X	* Wing Nut 1/4-20
5	110712X	Switch, Light	26	STD541625	Int./Ext. Tooth Lockwasher 1/4
6	104445X	Switch, Interlock	27	11030400	Bolt - Rd. Hd. Sq. Nk. 1/4 - 20 x 7-1/12
7	7603J	Tray, Battery	28	72240460	Solenoid
8	109596X	Clamp, Hose	29	109081X	Bezel - Ignition
9	STD365402	Switch, Ignition	30	109787X	Nut, Ignition
10	108824X	Fuse, 30 Amp	31	109788X	Cable Tie
11	STD551125	* Washer, Lock, 1/4	32	7192J	Tube, Plastic
12	STD541225	* Nut, Hex Jam 1/4 - 20	33	105687X	Switch, Plunger
13	STD522505	* Bolt, Hex, 1/4 - 20 x 1/2 Gr. 5	34	121305X	Washer 11/16 x 1 x 16 Ga.
14	73510400	Nut, Keps 1/4 - 20	35	19221616	Screw - Slotted Pan Hd. No. 10-32 x 1/2
15	108423X	Cable Assembly	36	74641008	Nut - Keps No. 10-32 x 1/2
16	11050400	Washer Lock, Ext. Tooth, 1/4	37	73951000	Clip - Insulated
17	719J	Cover, Terminal	38	4171R	Battery Caps Set
18	5114J	Cable, Battery	39	121264X	Decal, Sears
19	109553X	Switch, Interlock	40	121651X	Lockwasher 1/4 Internal Tooth
20	4207J	Cable, Battery	41	11150400	Clip, Insulated
21	STD522507	* Bolt, Hex, 1/4 - 20 x 3/4	42	5320J	Sheet - Instruction, Tractor 15° Owners Manual

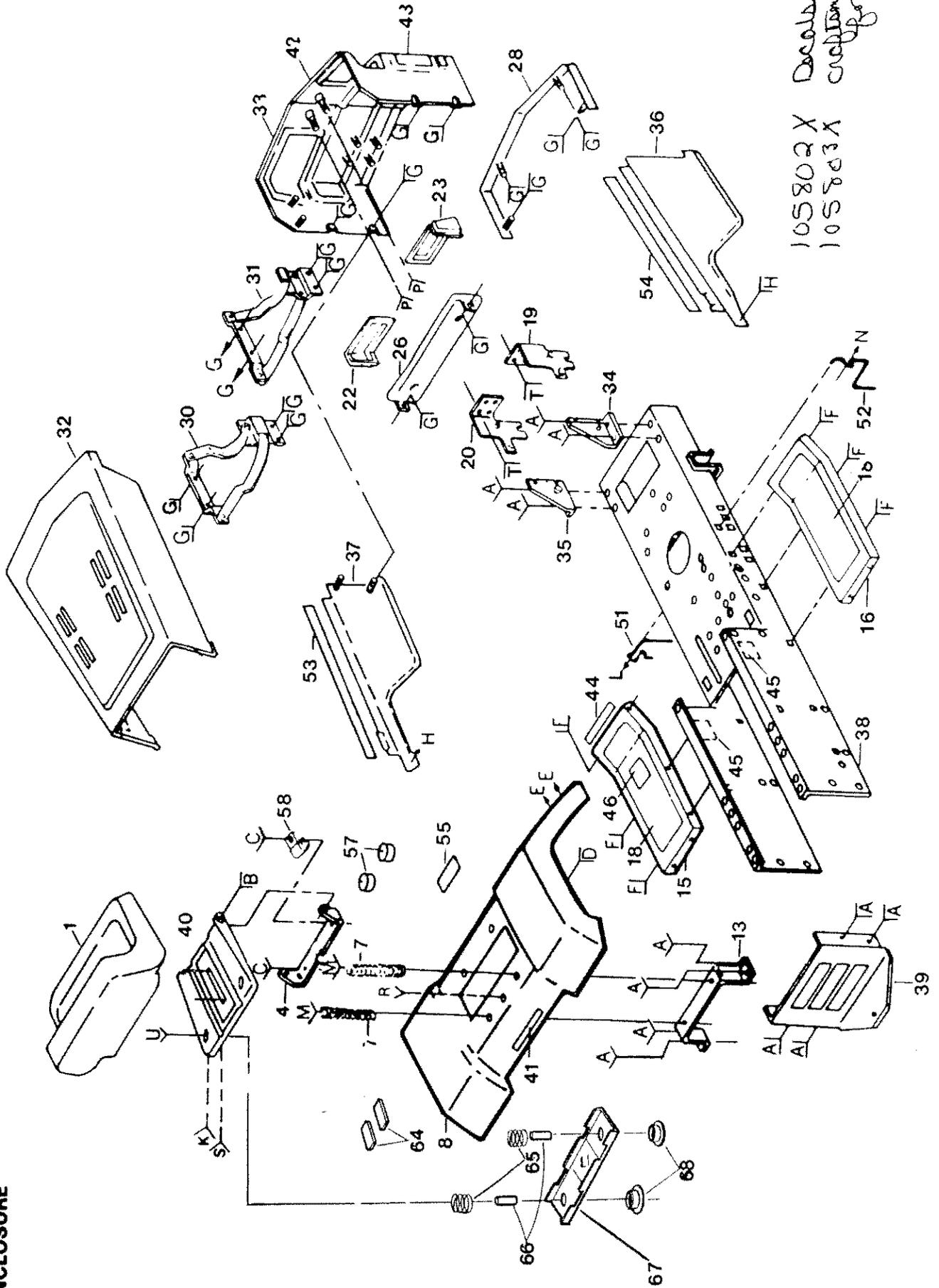


*STANDARD HARDWARE--PURCHASE LOCALLY

REPAIRS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

ENCLOSURE



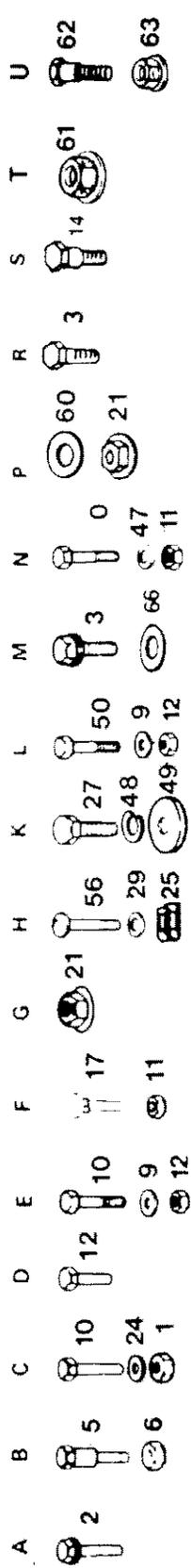
REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

ENCLOSURE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	121075X	Seat	35	110852X	Bracket, Frame, Pivot, L.H.
2	17490612	Screw, Hex Washer Thd. Roll 3/8-16 x 3/4 Type TT	36	106927X	Side Panel, R.H.
3	17490616	Screw, Hex Washer Thd. Rolling 3/8-16-1	37	106929X	Side Panel, L.H.
4	105513X	Bracket-Pivot, Seat	38	121277X	Chassis Assembly
5	105529X	Bolt, Shoulder, 5/16-18	39	121306X	Drawbar
6	73680500	Nut - Crownlock 5/16-18	40	121247X	Pan - Seat
7	121067X	Spring, Seat	41	105801X	Decal - Fender
8	109872X	Fender	42	105806X	Decal, Grill, Craftsman
9	19131312	Washer 13/32 x 13/16 x 12 Ga.	43	105807X	Decal, Grill, Stripe
10	STD523707	* Bolt, Hex Washer Thd. Roll 3/8	44	4900J	Decal, Clutch/Brake
11	73680600	Nut, Crownlock 3/8-16	45	105809X	Decal, 38" 38"
12	17490608	Screw, Hex Washer Thd. Roll 3/8-16 x 1/2	46	109199X	Decal, V-Belt Ground Drive
13	109873X	Bracket, Fender	47	19132012	Washer 13/32 x 1-1/4 x 12 Ga.
14	121144X	Bolt-Shoulder	48	STD551150	Lockwasher 1/2
15	105465X	Footrest, L.H.	49	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
16	105464X	Footrest, R.H.	50	STD523710	* Bolt, Hex 3/8-16 x 1
17	STD533707	* Bolt, Carr. 3/8-16 x 3/4	51	121440X	Guide - Belt, Lower, Eng. Pulley, L.H.
18	105466X	Pad, Footrest	52	121441X	Guide - Belt, Lower, Eng. Pulley, R.H.
19	108504X	Bracket, Pivot, Grill, R.H.	53	106811X	Decal - Stripe, Side Panel, L.H.
20	108505X	Bracket, Pivot, Grill, L.H.	54	106812X	Decal - Stripe, Side Panel, R.H.
21	108067X	Pal Nut 1/4-20	55	106974X	Decal - Caution
22	108361X	Lens, L.H.	56	106909X	Screw - Special
23	108360X	Lens, R.H.	57	121093X	Cap - Spring
24	19131210	Washer 13/32 x 3/4 x 10 Ga.	58	2751R	Clip
25	106911X	Clip	59	19131614	Washer 13/32 x 1 x 14 Ga.
26	110897X	Bezel, Headlight	60	19091216	Washer 9/32 x 3/4 x 16 Ga.
27	74780816	Bolt, Hex 1/2-13 x 1	61	120579X	Pal Nut
28	109745X	Strap Assembly - Grill	62	72170410	Bolt, Carr 1/4-20 x 1 1/4
29	106910X	Washer	53	73900400	Nut, Hex Flange 1/4-20
30	105797X	Hinge, Hood, L.H.	64	121251X	Strip, Foam
31	105792X	Hinge, Hood, R.H.	65	121250X	Spring, Compression
32	105682XO12	Hood Assembly	66	121249X	Spacer, Split
33	105678X	Grill Assembly	67	121246X	Bracket, Switch Mount
34	110853X	Bracket, Frame, Pivot, R.H.	68	121248X	Bushing, Snap

*STANDARD HARDWARE--PURCHASE LOCALLY



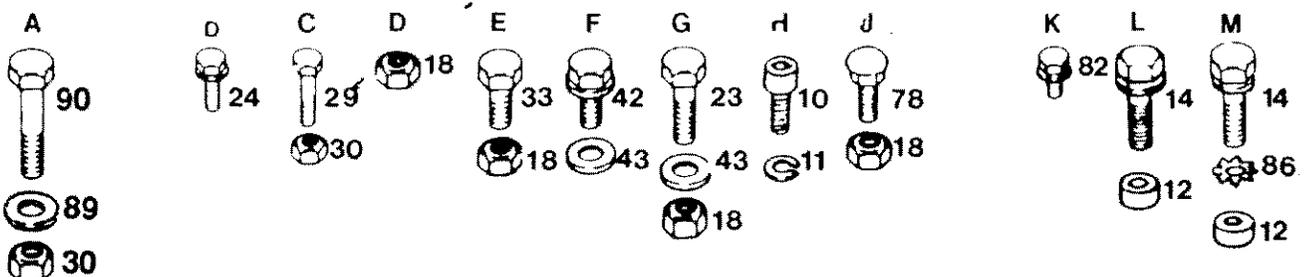
REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	123088X	Engine, 12 HP, Tecumseh	45	109070X	Retainer Belt
2	105731X	Model No. 143.396132	46	4470J	Spacer
3	120374X	Pulley, Engine	47	4859J	Idler, Flat
4	STD551143	Valve, Drain Oil	48	106298X	Pulley, Idler
5	74770720	* Washer, Lock 7/16	49	105705X	Bellcrank Assembly (Inc. Key No. 86)
6	120302X	Bolt, Hex 7/16-20 x 1-1/4	50	STD523715	* Bolt, Hex 3/8-16 x 1-1/2
7	108835X	V-Belt, Drive	51	105709X	Spring, Return, Clutch
8	2949R	Muffler	52	110812X	Washer, Hardened
9	101326L	Gasket	53	12000039	Ring, Klip
10	71070510	Deflector, Muffler	54	105710X	Link, Clutch
11	STD551131	Hex Hd. Cap Screw 5/16-18 x 5/8	55	76020412	Pin, Cotter 1/8 x 3/4
12	101200K	* Washer, Lock 5/16	56	105724X	Bracket, Clutch
13	2751R	Spacer	57	110437X	Rod, Brake
14	17490628	Clip	58	106888X	Spring, Rod, Brake
15	STD551125	Screw, Hex Washer Thd. Rolling 3/8-16 x 1-3/4	59	73350600	Nut - Jam 3/8-16
16	122372X	Bolt, Hex 3/8-16 x 2-3/4	60	19131316	Washer 13/32 x 13/16 x 16 Ga.
17	STD523727	Transaxle Tecumseh, 5 Speed, Model No. 143.920037 (see pages 40 and 41 for parts breakdown)	61	105758X	Rod, Brake, Parking
18	73680600	* Bolt, Hex 3/8-16 x 2-3/4	62	71673	Cap - Plunger
19	STD580025	Nut, Crownlock 3/8-16	63	109037X	Shaft, Foot Pedal
20	105703X	* Key, Woodruff No. 9 3/16 x 3/4	64	8883R	Cover - Pedal
21	12000028	Pulley, Transaxle	65	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
22	109167X	Ring, Retainer	66	STD571810	* Pin, Roll, 3/16 x 1
23	STD523710	Bracket Transaxle	67	106918X	Arm, Brake
24	17490512	* Bolt, Hex 3/8-16 x 1	68	STD580105	* Key, Square 3/16 x 2
25	108171X	Screw, Hex Washer Thread Rolling 5/16-18 x 3/4	69	104757X	Cap, Hub
26	109368X	Support, Battery	70	59192	Cap, Valve
27	4921H	Keeper, Belt, L.H.	71	65139	Stem, Valve
28	106190X	Retainer, Spring	72	106268X	Tire, Rear - 18 x 9.50 x 8
29	STD523107	Clamp	73	106108X	Rim Assembly, Rear
30	73680500	* Bolt, Hex 5/16-18 x 3/4	74	109501X	Spacer
31	109370X	Nut, Crownlock 5/16-18 x 3/4	75	6404J	Spacer Engine Pulley
32	109369X	Strap, Locator	76	12000001	E-Ring
33	STD523707	Keeper, Belt, R.H.	77	121520X	Strap, Torque, Transaxle
34	121748X	* Bolt, Hex 3/8-16 x 3/4	78	STD533707	* Bolt, Carriage 3/8-16 x 3/4
35	106933X	Washer 25/32 x 1-5/8 x 16 Ga.	79	110422X	Spring - Brake
36	105699X	Knob, Shift	80	105706X	Bearing
37	71040412	Rod, Shift	81	106499X	Retainer - Belt
38	106362X	Bolt - Hex 1/4-28 x 3/4	82	17030808	Screw - Spider Lock No.8-18 x 1/2 ABTPS
39	STD561210	Washer - Shift Plate	83	105700X	Spring
40	19151216	* Cotter Pin, 1/8 x 1	84	108843X	Plate, Shift
41	104777X	Washer 15/32 x 3/4 x 16 Ga.	85	19091210	Washer 9/32 x 3/4 x 10 Ga.
42	17490612	Retainer, Belt	86	11050600	Washer, Lock, Ext. Tooth 3/8
43	19131312	Screw, Hex Washer Thd. Rolling 3/8 16 x 3/4	87	7152J	Tube, Tire (not furnished with tractor)
44	105730X	Washer 13/32 x 13/16 x 12 Ga.	88	121851X	Spark Arrester
		Keeper, Belt, Engine	89	19111116	Washer 11/32 x 11/16 x 16 Ga.
			90	74760544	Bolt, Hex 5/16 - 18 x 2 3/4

*STANDARD HARDWARE--PURCHASE LOCALLY



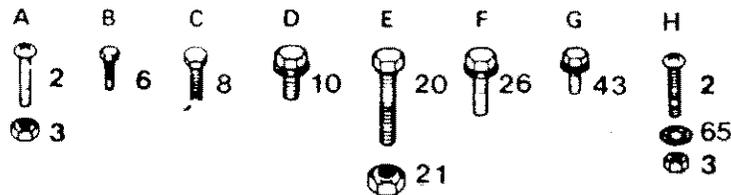
REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

STEERING AND FRONT AXLE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	109283X014	Dash	36	108683X	Rod - Steering
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	121299X	Control - Throttle	40	105669X	Axle - Front
6	17080408	Screw - Hex Thread Cut. 1/4-20 x 1/2	41	110438X	Spacer, Bearing, Front Axle
7	105621X	Dash - Lower	42	73901000	Nut - Lock, Flange 5/8-11
8	17190508	Screw - Hex Thread Cut. 5/16-18 x 1/2	43	17490508	Screw - Hex Washer Thread Rolling 5/16-18 x 1/2 Type TT
9	109226X013	Saddle	44	108685X	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	105810X	Decal - Steering Wheel Cap	47	120754X	Bushing
13	100710L	Insert - Steering Wheel	48	19131416	Washer 13/32 x 7/8 x 16 Ga.
14	73940800	Nut - Hex Jam Lock 1/2-20	49	76020412	Pin - Cotter 1/8 x 3/4
15	100712K	Washer	50	STD551137	* Washer - Lock 3/8
16	100713N	Wheel - Steering	51	STD541137	* Nut - Hex 3/8 - 24
17	100711L	Adapter - Steering Wheel	52	105727X	Link - Drag
18	109285X	Sleeve - Steering	53	105656X	Spindle - L.H.
19	105643X	Shaft - Steering Upper	54	105654X	Spindle - R.H.
20	STD523712	* Bolt - Hex 3/8-16 x 1-1/4	55	278H	Fitting - Grease
21	73680600	Nut, Crownlock 3/8-16	56	9040H	Bearing - Flange
22	17041008	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	109284X	Bushing - Steering	59	65139	Stem - Valve
25	109432X	Bracket - Steering	60	106222X	Tire
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	62	104757X	Cap - Hub, Front
28	108684X	Gear - Sector	63	59904	Tube - Front (Not furnished with tractor)
29	106126X	Key - Woodruff	64	110130X	Retainer, Steering
30	12000029	Klip Ring	65	11150500	Washer, Lock, Int. Tooth 5/16
31	101930X	Washer, Hardened	66	110307X	Stop - Mower, Clutch Lever
32	109068X	Shaft - Steering, Lower	67	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
33	2882J	Pin - Drive 3/16 x 1	68	19272016	Washer 27/32 x 1-1/4 x 16 Ga.
34	74580	Spacer .627 x .88 x .695	69	121232X	Spindle Cap
35	71208	Bushing			

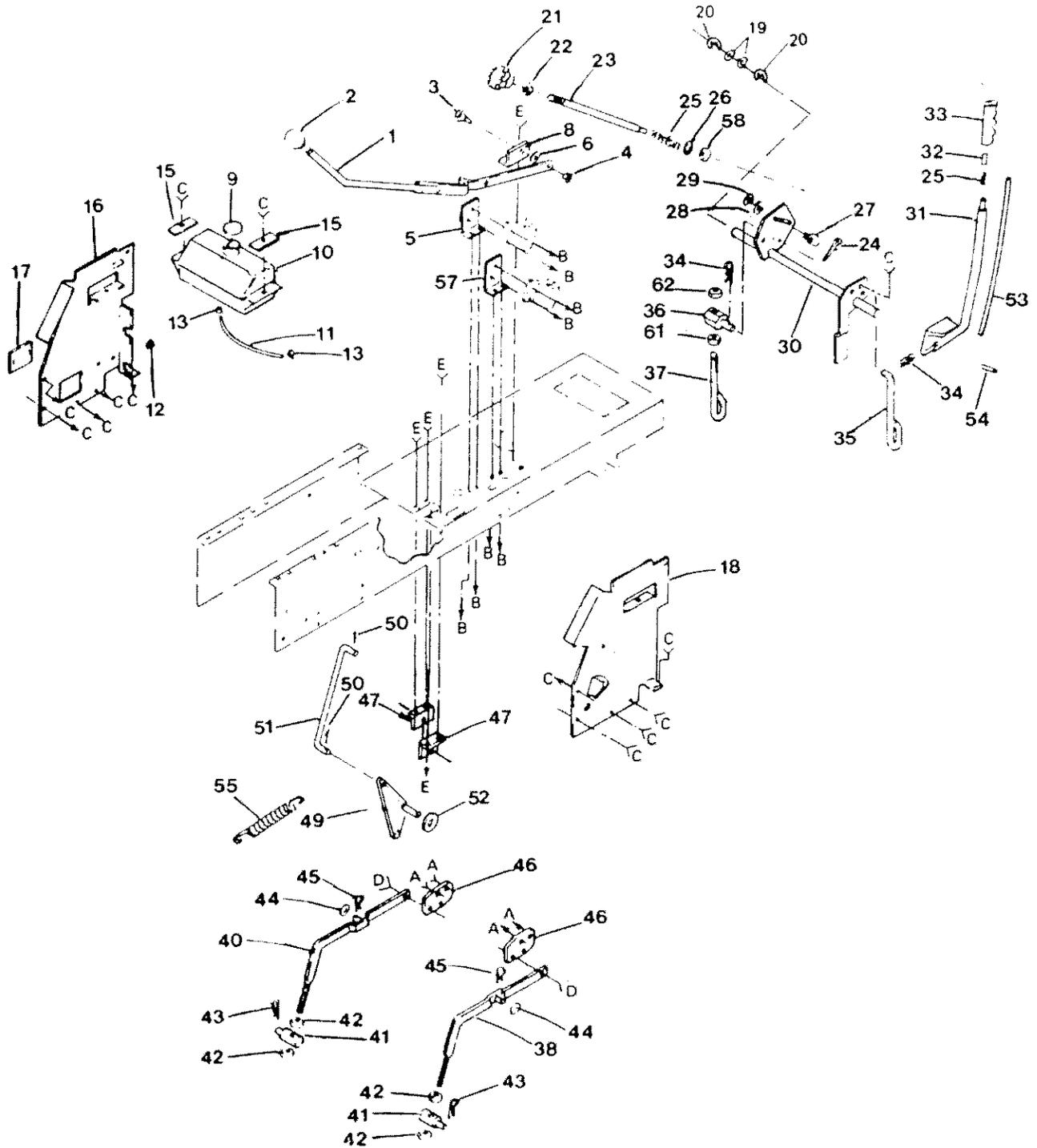
*STANDARD HARDWARE--PURCHASE LOCALLY



REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

LIFT ADJUSTMENT



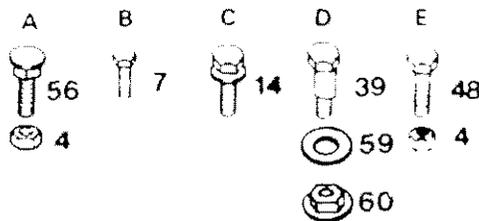
REPAIR PARTS

1 1/2 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

LIFT ADJUSTMENT

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	106448X	Lever, Clutch, Mower	32	105723X	Plunger
2	106932X	Knob	33	109413X	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	19171713	Washer 17/32 x 1-1/16 x 13 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	121221X	Cap, Fuel	40	121599X	Arm, Suspension, L.H.
10	109202X	Tank, Fuel	41	106308X	Trunnion, Lift, Lower
11	101335K	Line, Fuel	42	STD541250	* Nut - Hex 1/2-13
12	9151R	Grommet	43	9135R	Retainer, Spring
13	6999R	Clamp - Hose	44	19171516	Washer 17/32 x 15/16 x 16 Ga.
14	17490612	Screw, Hex Washer Thd. Rolling 3/8-16 x 3/4	45	4921H	Retainer, Spring
15	106901X	Clamp - Tank, Fuel	46	105864X	Bracket, Suspension
16	106920X	Panel, Dash, L.H.	47	106444X	Bracket, Bellcrank
17	121794X	Cover, Access	48	STD523707	* Bolt, Hex 3/8-16 x 3/4
18	106921X	Panel, Dash, R.H.	49	109728X	Bellcrank Assembly
19	19292016	Washer 29/32 x 1-1/4 x 16 Ga.	50	76020412	Pin, Cotter, 1/8 x 3/4
20	12000022	E Ring	51	106446X	Rod, Clutch, Primary
21	100734K	Knob	52	19131410	Washer 13/32 x 7/8 x 10 Ga.
22	STD541237	* Nut, Hex Jam 3/8-16	53	105764X	Rod Assembly - Lever, Lift (Includes Key 32)
23	110809X	Rod, Adjust, Lift	54	105767X	Pin - Groove
24	76020308	Pin, Cotter 3/32 x 1/2	55	106810X	Spring - Extension
25	2876H	Spring	56	72140606	Screw 3/8-16 x 3/4
26	19131016	Washer 13/32 x 5/8 x 16 Ga.	57	108236X	Bracket - Switch
27	110810X	Trunnion - Depth Stop	58	110807X	Nut - Special
28	19151216	Washer 15/32 x 3/4 x 16 Ga.	59	110739X	Washer - Spring
29	12000037	Klip Ring	60	73980600	Nut - Flangelock 3/8-16
30	120420X	Shaft, Lift	61	73360700	Nut, Hex Jam 7/16-20
31	105768X	Lever, Assembly	62	73710700	Nut, Crownlock 7/16-20

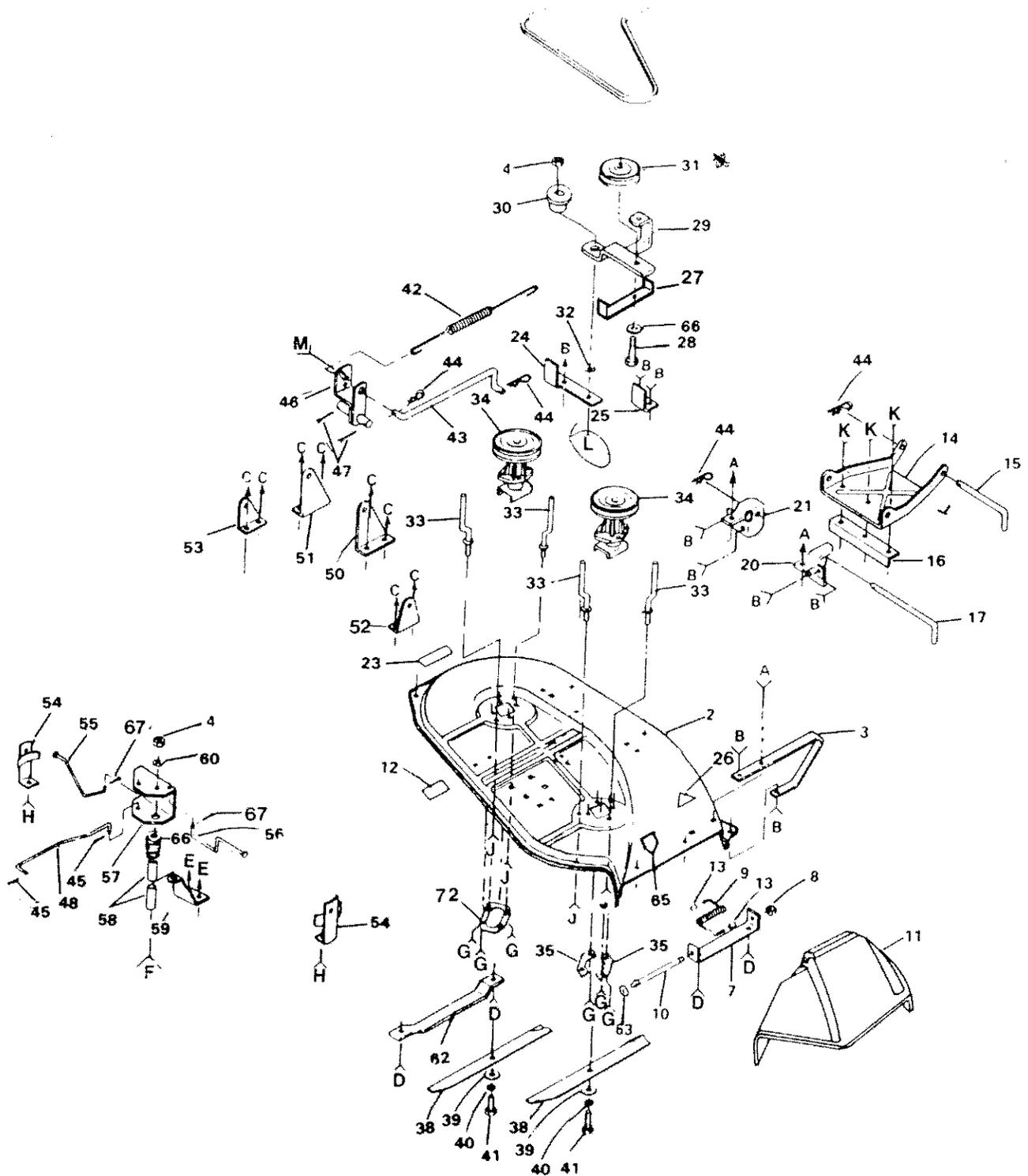
*STANDARD HARDWARE -PURCHASE LOCALLY



REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

38" MOWER

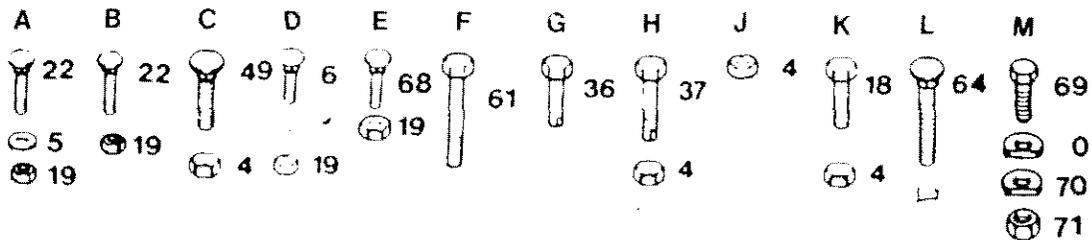


REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

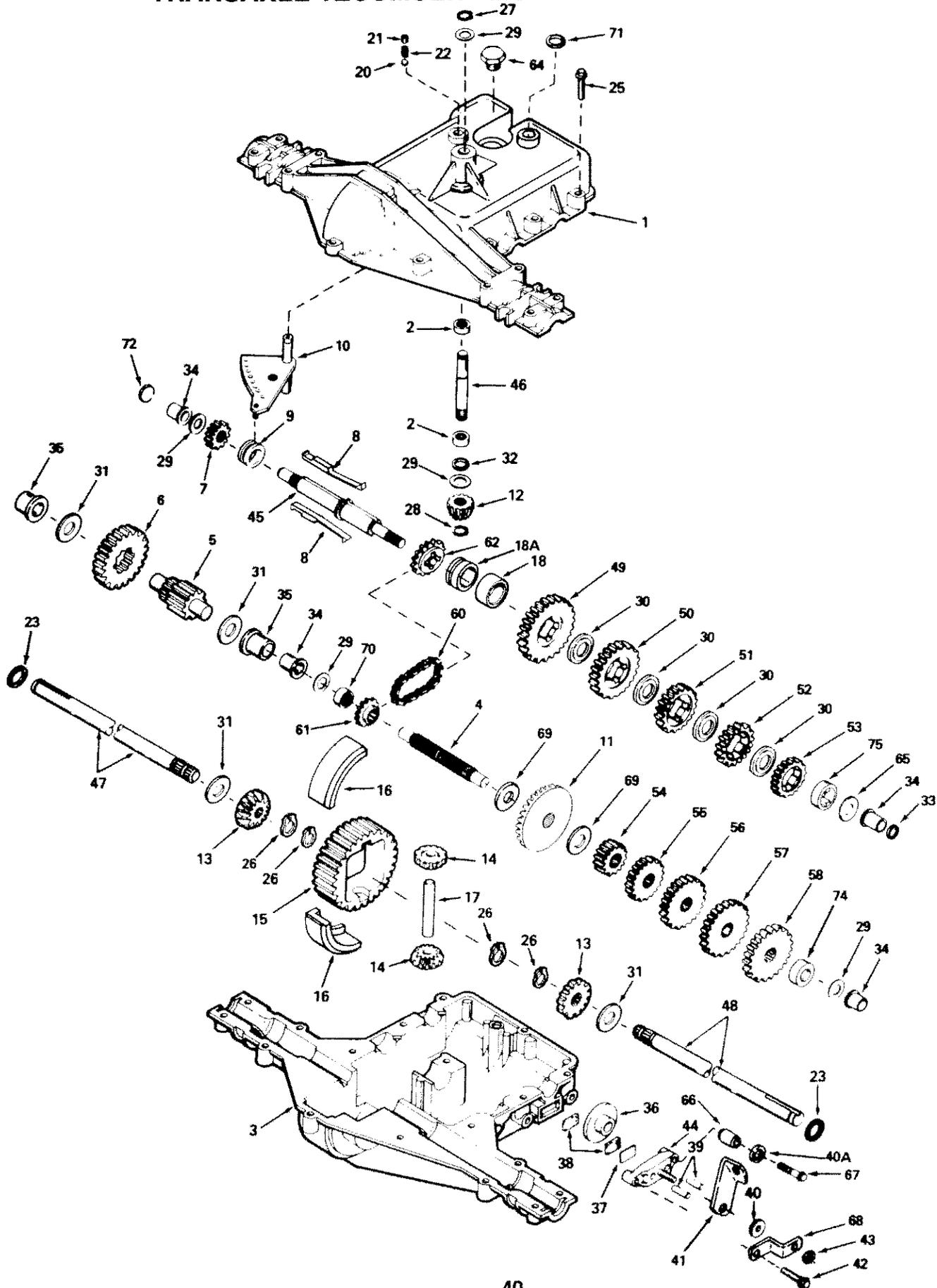
38" MOWER

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	STD560907	Pin, Cotter 3/32 x 3/4
9	106734X	Spring, Deflector	46	109892X	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	Instruction - Caution Decal	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	121317X	Guide Belt	64	72140610	Bolt, 3/8-16 x 1-1/4
28	STD523720	Bolt 3/8-16 x 2	65	121343X	Decal - Warning
29	108832X	Arm, Idler	66	122314X	Spacer
30	106902X	Spacer - Retainer	67	76020308	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	STD522507	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	L.H. Mandrel Support
36	17490612	Screw, Hex Washer Hd. 3/8-16 x 3/4	--	122215X	Mower Assembly, Complete
37	17490620	Screw, Hex Washer Hd. 3/8-16 x 1-1/4			*STANDARD HARDWARE--PURCHASE LOCALLY



REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622
TRANSAXLE TECUMSEH - MODEL NUMBER 143.920037



REPAIR PARTS

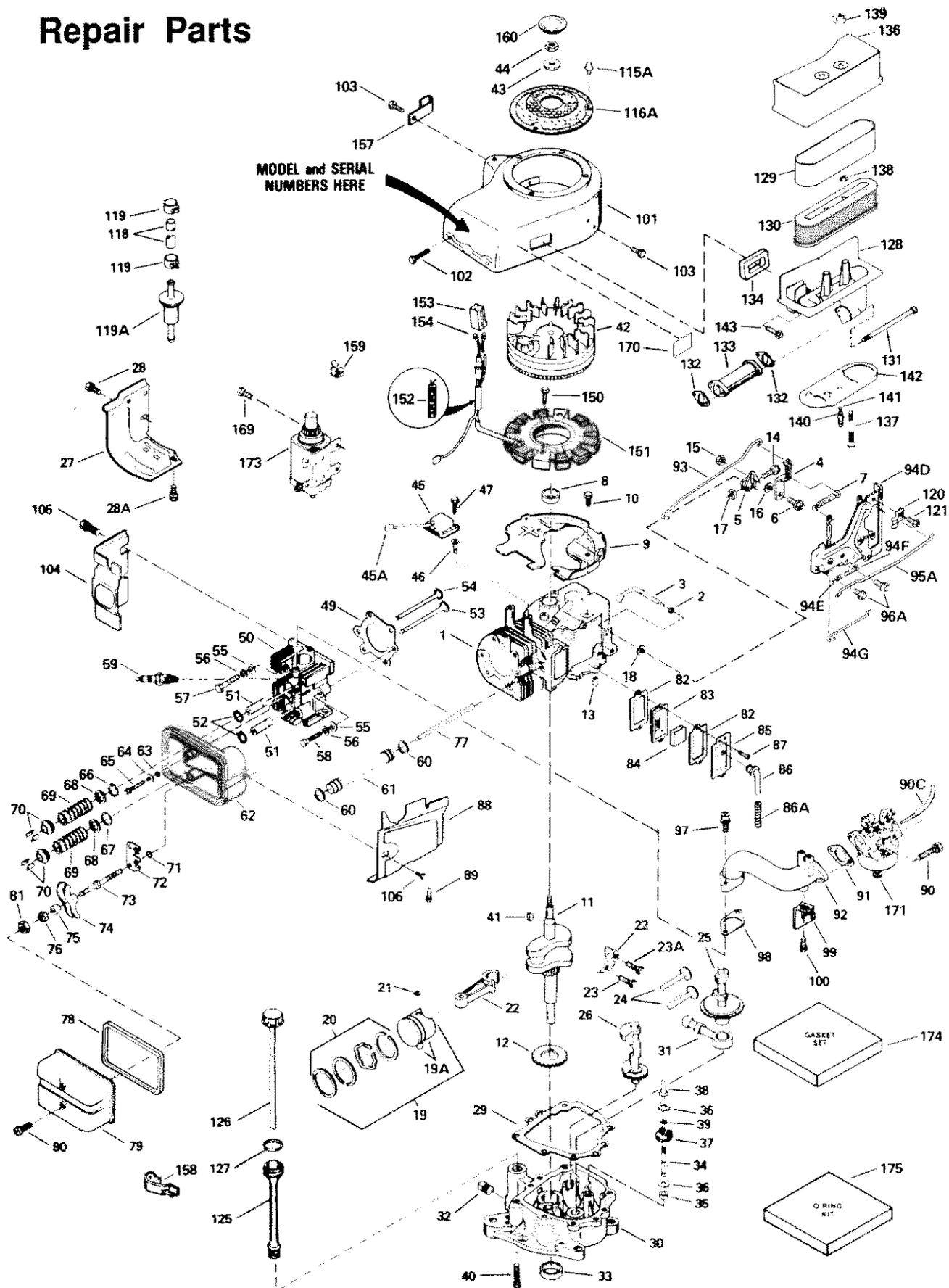
12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622

TRANSAXLE TECUMSEH - MODEL NUMBER 143.920037

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	772094	Cover, Transaxle	39	786026	Pin, Dowel
2	780086	Bearing, Needle	40	792076	Washer, Flat
3	770082	Case, Transaxle	40A	792128	Washer, Flat
4	776260	Shaft, Counter	41	790047	Lever, Brake
5	776219	Shaft & Pinion Assy., Output	42	792073	Screw, Flanged hex hd. thread forming, 1/4-20 x 1-1/4
6	778139	Gear, Output	43	792075	Nut, Lock, 5/16-24
7	778136	Gear, Spur (15 teeth)	44	790025	Holder, Brake pad
8	792123A	Key	45	776273	Shaft, Brake
9	784216	Collar, Shifter	46	776135	Shaft, Input
10	784340	Rod & Fork Assy., Shift	47	774690	Axle (11-15/16 long)
11	778229	Gear, Bevel (42 teeth)	48	774691	Axle (16-1/2" long)
12	778113A	Bevel Pinion, Input	49	778191	Gear, Spur (37 teeth)
13	778221	Gear, Bevel	50	778124A	Gear, Spur (30 teeth)
14	778068	Gear, Bevel pinion	51	778123A	Gear, Spur (25 teeth)
15	778165	Gear, Ring	52	778122A	Gear, Spur (22 teeth)
16	786101	Block, Bearing	53	778209	Gear, Spur (19 teeth)
17	786040	Pin, Drive	54	778230	Gear, Spur (12 teeth)
18	786121	Spacer, Neutral	55	778126A	Gear, Spur (20 teeth)
18A	786122	Spacer	56	778127A	Gear, Spur (25 teeth)
20	792077	Ball, Steel (5/16" dia.)	57	778128A	Gear, Spur (28 teeth)
21	792078	Set Screw, 3/8-16 x 3/8	58	778163	Gear, Spur (31 teeth)
22	792079	Spring	60	786081	Chain, Roller (No. 41 chain, 24 links)
23	788061	Ring, Felt	61	786082	Sprocket (9 teeth)
25	792073	Screw, Flanged hex hd. thread forming, 1/4-20 x 1-1/4	62	786107	Sprocket (18 teeth)
26	792125	Ring, Retainer (4 req., pkg. of 2)	64	792074	Plug, Hex hd., 9/16-18 thread
27	792035	Ring, Retainer	65	780109	Washer, Thrust
28	788040	Ring, Retainer	66	786067	Spacer
29	780072	Washer, Thrust	67	792085	Screw, Flanged hex hd. thread forming 1/4-20 x 2-1/4
30	780108	Washer, Thrust	68	786086	Bracket, Brake lever
31	780001	Washer	69	780051	Washer, Thrust
32	792001	"O" Ring	70	786118	Spacer
33	788051	Seal, Square cut	71	788069	Seal, Square cut
34	780105A	Bushing, Flanged	72	786116	Disk
35	780118A	Bushing, Flanged	74	786071	Spacer
36	790003	Disk, Brake	75	786072	Spacer
37	790007	Plate, Brake pad			
38	790006	Pad, Brake			

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622
ENGINE TECUMSEH - MODEL NUMBER 143.396132

Repair Parts



Repair Parts

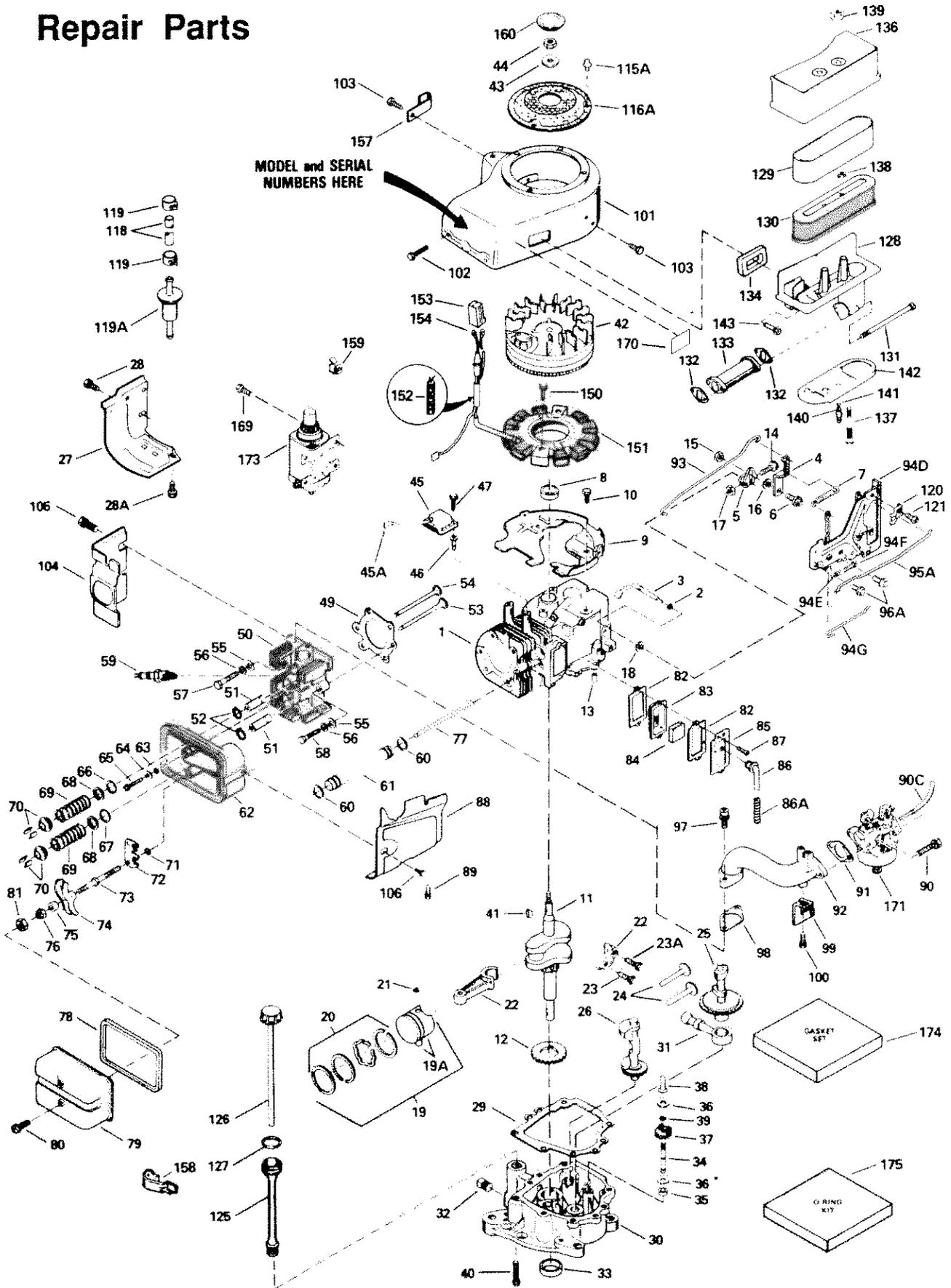
12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622 ENGINE TECUMSEH - MODEL NUMBER 143.396132

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
1	35323A	Cylinder Assy. (Incl. Nos. 8 & 13)	50	35307	Head Assy., Cylinder
2	28277	Washer, Flat	51	730218	Valve Guide Kit (Incl. 2 of No. 52)
3	35324	Rod, Governor	52	792035	Ring, Retaining
4	35520	Lever, Governor	53	35308	Valve, Exhaust (Std.)
5	29916	Clamp, Throttle lever	53	35433	Valve, Exhaust (1/32" oversize)
6	650548	Screw, Hex washer hd., 8-32 x 5/16	54	35309	Valve, Intake (Std.)
7	35521	Spring, Extension	54	35432	Valve, Intake (1/32" oversize)
8	35319	Seal, Oil	55	650691	Washer, Flat
9	35326	Baffle, Blower housing	56	650690	Washer, Belleville
10	650561	Screw, Hex washer hd. Durlok, 1/4-20 x 5/8	57	650746	Screw, Hex hd., 5/16-18 x 3/8
11	35336A	Crankshaft Assy. (Counterbalance)	58	650692	Screw, Hex hd., 5/16-18 x 1-3/4
12	35327	Gear, Counterbalance	59	34046	Resistor Spark plug (Champion R-86C or equivalent)
13	27652	Pin, Dowel	60	*33481	"O" Ring
14	29826	Screw, Hex washer hd., 10-32 x 3/4	61	35475	Tube, Push rod
15	30322	Nut & Lockwasher, 8-32	62	35310	Housing, Rocker arm
16	29918	Washer, E.T. Lock	63	*33484	"O" Ring
17	29216	Nut, Lock, 10-32	64	650168	Washer, Flat
18	29642	Ring, Retaining	65	32610A	Screw, Flanged hex hd., 1/4-20 x 29/32
19	35339A	Piston, Pin & Ring Assy. (Std.) (Incl. Nos. 19A, 20 & 21)	66	*33509	"O" Ring (Intake)
19	35340	Piston, Pin & Ring Assy. (.010 oversize) (Incl. Nos. 19A, 20 & 21)	67	*34410	"O" Ring (Exhaust)
19	35341	Piston, Pin & Ring Assy. (.020 oversize) (Incl. Nos. 19A, 20 & 21)	68	33510	Cap, Valve spring
19A	35329	Piston & Pin Assy. (Std.) (Incl. No. 21)	69	33507	Spring, Valve
19A	35430	Piston & Pin Assy. (.010 oversize) (Incl. No. 21)	70	33508	Cap, Valve spring keeper
19A	35431	Piston & Pin Assy. (.020 oversize) (Incl. No. 21)	71	*35295	"O" Ring
20	34866A	Ring Set, Piston (Std.)	72	35296	Guide, Push rod
20	34867	Ring Set, Piston (.010 oversize)	73	650878	Stud, Rocker arm
20	34868	Ring Set, Piston (.020 oversize)	74	35297	Arm, Rocker
21	31919	Ring, Piston pin retaining	75	35298	Bearing, Rocker arm
22	35330A	Rod Assy., Connecting (Incl. Nos. 23 & 23A)	76	*28264	Nut Assy., Lock (Incl. No. 81)
23	650908	Bolt, Connecting rod	77	35466	Rod, Push
23A	650882	Bolt, Connecting rod	78	*35299B	"O" Ring Assy. (Incl. No. 80)
24	35313	Lifter, Valve	79	35300	Cover, Rocker arm housing
25	35314A	Camshaft (Mechanical Compression Release) (Incl. No. 24)	80	*650879	Screw, Truss hd. w/sealing lockwasher, 8-32 x 1/2
26	35315	Weight Assy., Counterbalance	81	*650903	Nut, Hex Jam
27	35316	Extension, Blower housing	82	*27896A	Gasket, Valve cover
28	30063	Screw, Hex washer hd. Sems, 1/4-20 x 1/2	83	28423	Body, Breather
28A	650128	Screw, Hex hd. Sems, 10-24 x 1/2	84	28424	Element, Breather
29	*35317	Gasket, Mounting flange	85	28425	Cover, Valve spring box
30	35711	Flange, Mounting (Incl. Nos. 32, 33 & 34)	86	35350	Tube, Breather
31	31356	Pump Assy., Oil	86A	34148	Spring, Coil
32	31927	Plug, Oil drain	87	650128	Screw, Hex hd. Sems, 10-24 x 1/2
33	35319	Seal, Oil	88	35301	Extension, Blower housing
34	35712	Shaft, Governor	89	650128	Screw, Hex hd. Sems, 10-24 x 1/2
35	31707A	Spacer, Governor gear	90	650517	Screw, Fil. hd. Sems, 1/4-20 x 27/32
36	35479	Washer, Flat	90C	35043	Tube Assy., Carburetor
37	35321	Gear Assy., Governor	91	*33263	Gasket, Carburetor to intake pipe
38	35322	Spool, Governor	92	35304	Pipe, Intake
39	29193	Ring, Retaining	93	35522	Link, Governor
40	650833	Screw, Hex washer hd. Powerlok, 1/4-20 x 1-3/16	94D	35524	Bracket Assy., Override control (Incl. Nos. 94E & 94F)
41	32589	Key, Flywheel	94E	33802	Spring, Compression
42	611093	Flywheel (w/ring gear)	94F	650777	Screw, Fil. hd., 6-32 x 21/32
43	650880	Washer, Lock	94G	35525	Link, Control bracket
44	650881	Nut, Flywheel	95A	35523	Link, Choke
45	35135	Solid State Assy.	96A	650902	Screw, Hex washer hd., Sems, 10-32 x 7/16
45A	610118	Cover, Spark plug	97	792028	Screw, Hex hd. Sems, 5/16-18 x 7/8
46	650872	Stud, Solid state assy.	98	*33515A	Gasket, Intake pipe
47	650814	Screw, Torx hex washer hd. Sems, 10-24 x 1	99	35288	Brace, Intake pipe
49	*35306A	Gasket, Cylinder head	100	650738	Screw, Hex washer spinlock hd. thread forming, 1/4-20 x 5/8
			101	**35338A	Housing, Blower
			102	30063	Screw, Hex hd. Sems, 1/4-20 x 1/2
			103	29747B	Screw, Hex hd. Sems, 5/16-24 x 21/32
			104	35290	Cover, Cylinder head

*Indicates Part Included in Gasket Set, Ref. No. 174.

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622
ENGINE TECUMSEH - MODEL NUMBER 143.396132

Repair Parts

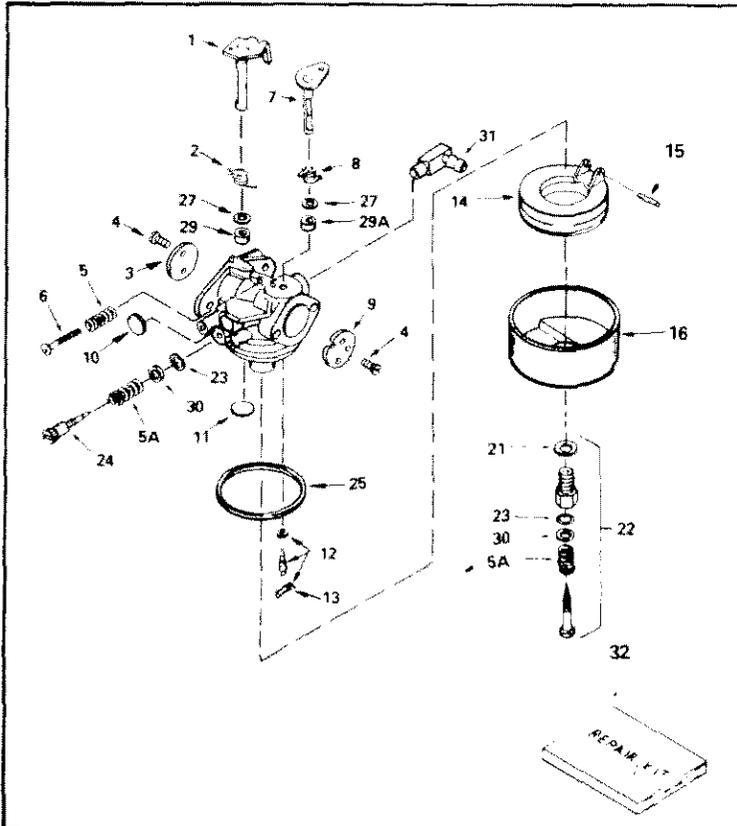


Repair Parts

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622 ENGINE TECUMSEH - MODEL NUMBER 143.396132

Ref. No.	Part No.	Part Name	Ref. No.	Part No.	Part Name
105	650273	Screw, Hex hd. Sems, 5/16-18 x 5/8	150	650873	Screw, Hex hd. Sems, 1/4-20 x 3/4
106	30063	Screw, Hex washer hd. Sems, 1/4-20 x 1/2	151	611113	Coil Assy., Alternator (3 Amp D.C.) (Incl. Nos. 152, 153 & 154)
115A		Rivet, Pop (Can be purchased locally)	152	610935	Diode
116A	35411	Screen, Blower housing	153	610921	Connector, Body
118	29774	Line, Fuel	154	610922	Terminal, Female
119	26460	Clamp, Fuel line	157	33997	Clip, Oil fill tube
119A	34279A	Filter, Fuel	158	35437	Clip, Oil fill tube
120	27793	Clip, Conduit	159	27275	Clip, Wire
121	28942	Screw, Hex washer hd. Sems, 10-32 x 3/8	160	34113	Plug, Blower housing
			169	30063	Screw, Hex washer hd. Sems, 1 4-20 x 1/2
125	35574	Tube, Oil fill			
126	35576	Dipstick, Oil	170	34346	Decal, Instruction
127	35499	"O" Ring	171	632490	Carburetor (Incl. No. 91)
128	35402A	Body, Air cleaner	173	33605	Starter Motor (12 Volt)
129	35404	Filter, Poly pre-cleaner	174	35331B	Gasket Set (Incl. items marked *)
130	35403	Element, Air cleaner (Incl. No. 138)	175	35332	"O" Ring Kit (Incl. items marked †)
131	650875	Screw, Fil. hd. Sems, 10-32 x 5-1/4			RPM Speed Settings: Low 1700; High 3500
132	*33629	Gasket, Air cleaner elbow			*Indicates Parts Included in Gasket Set, Ref. No. 174.
133	35286	Adpater, Air cleaner			†Indicates Parts Included in "O" Ring Kit, Ref. No. 175.
134	*35408	Gasket, Air cleaner-to-housing			**In original production, the blower housing screen is riveted to the blower housing. Replacement housing has threaded studs. Order four nuts (29752) when remounting the blower housing screen.
136	35405	Cover, Air cleaner			
137	650885	Screw, Truss hd., 1/4-20 x 3-1/2			
138	650825	Nut & Lockwasher, 1/4-20 (Sealing)			
139	650886	Nut, Wing 1/4-20			
140	35406	Fitting, Breather tube			
141	35407	"O" Ring			
142	35417	Plate, Support			
143	650887	Screw, Hex washer hd. self-drill, self-tap, 1/4-20 x 1			

CARBURETOR NO. 632490



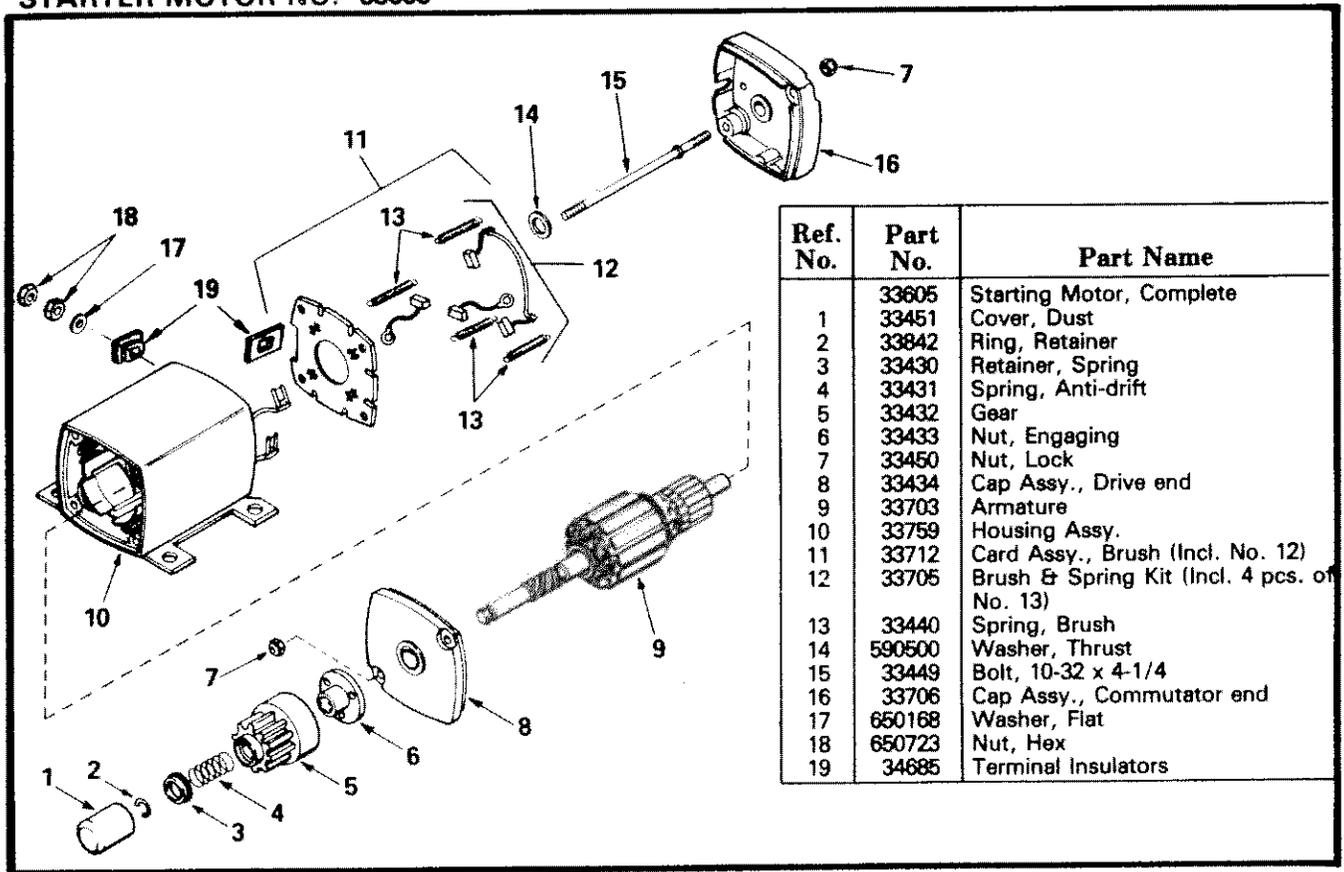
Ref. No.	Part No.	Part Name
	632490	Carburetor
1	632471	Shaft & Lever Assy., Throttle
2	632244	Spring, Throttle return
3	632517	Shutter, Throttle
4	650506	Screw, Rd. hd., 4-40 x 3/16
5	630766	Spring, Idle regulating screw
5A	630738	Spring, Main adjustment screw
6	650417	Screw, Idle regulating
7	632472	Shaft & Lever Assy., Choke
8	632473	Spring, Return
9	632429A	Shutter, Choke
10	*630748	Plug, Welch
11	*631027	Plug, Welch
12	*631021	Inlet Needle, Seat & Clip Assy. (Incl. No. 13)
13	631022	Clip, Inlet needle
14	632019	Float, Carburetor
15	*631024	Shaft, Float
16	*631867	Bowl, Float
21	27110	Gasket, Bowl-to-body
22	*632239	Adjustment Screw Assy., Main adjustment screw (Incl. Nos. 5A, 21, 23 & 30)
23	630740	"O" Ring
24	*632281	Screw, Idle adjustment
25	*631028	Gasket, Bowl-to-body
27	631184	Washer
29	631971	Seal, Dust
29A	631183	Seal, Dust
30	630739	Washer, Flat
31	631775	Fitting, Fuel
32	632347	Repair Kit (Incl. items marked *)

REPAIR PARTS

12 H.P. 38" RIDING LAWN TRACTOR - - MODEL NUMBER 917.254622
 ENGINE TECUMSEH - MODEL NUMBER 143.396132

ENGINE

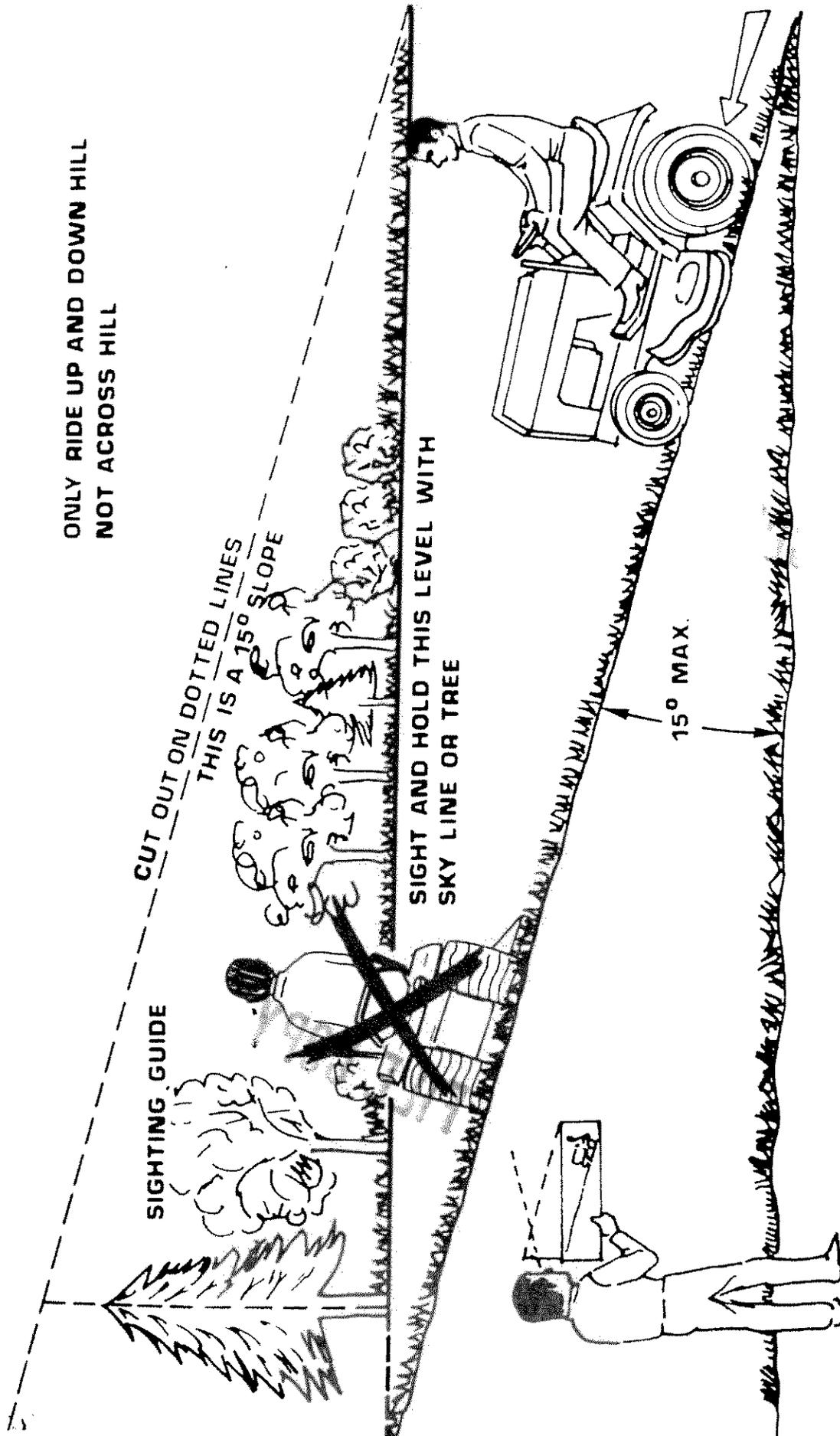
STARTER MOTOR NO. 33605



Ref. No.	Part No.	Part Name
	33605	Starting Motor, Complete
1	33451	Cover, Dust
2	33842	Ring, Retainer
3	33430	Retainer, Spring
4	33431	Spring, Anti-drift
5	33432	Gear
6	33433	Nut, Engaging
7	33450	Nut, Lock
8	33434	Cap Assy., Drive end
9	33703	Armature
10	33759	Housing Assy.
11	33712	Card Assy., Brush (Incl. No. 12)
12	33705	Brush & Spring Kit (Incl. 4 pcs. of No. 13)
13	33440	Spring, Brush
14	590500	Washer, Thrust
15	33449	Bolt, 10-32 x 4-1/4
16	33706	Cap Assy., Commutator end
17	650168	Washer, Flat
18	650723	Nut, Hex
19	34685	Terminal Insulators

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION

ONLY RIDE UP AND DOWN HILL
NOT ACROSS HILL



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. 917.254622

HOW TO ORDER REPAIR PARTS

CRAFTSMAN

LT 12 HP ELECTRIC START 5 SPEED - 38" MOWER LAWN TRACTOR

The model number will be found on the Model Plate located under the seat. Always provide the Model Number when requesting service or repair parts for your Lawn Tractor.

All parts listed herein may be ordered from any Sears Service Center/Departments and most Sears Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- THE PART NUMBER
- THE PART DESCRIPTION
- THE MODEL NUMBER
- THE NAME OF MERCHANDISE

Your Sears merchandise has added value when you consider that Sears has service units nationwide staffed with Sears trained technicians...professional technicians specifically trained on Sears products, having the parts, tools and the equipment to insure that we meet our pledge to you, We Service What We Sell.

SEARS, ROEBUCK AND CO., Chicago, IL. 60684 U.S.A.

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