

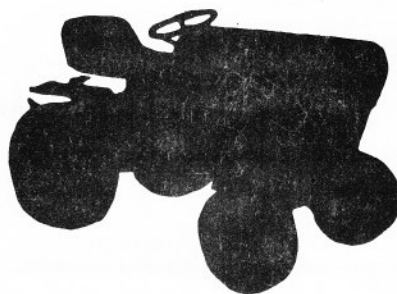
OWNER'S MANUAL

8 H.P.

36" RIDING

LAWN TRACTOR

MODEL NUMBER L8218CR



LAWN AND GARDEN
POWER EQUIPMENT

ROPER

OUTDOOR POWER PRODUCTS

DIVISION OF ROPER CORPORATION

1905 WEST COURT STREET
KANKAKEE, ILLINOIS 60901

LIMITED WARRANTY ROPER OUTDOOR POWER PRODUCTS

Roper Corporation warrants to the original consumer purchaser that this product is free from defects in materials and workmanship. For a period of one (1) year from date of purchase, we will repair or replace, at our option, without charge, any part except for the engine, which we find to be defective due to materials or workmanship. This warranty is subject to the following limitations:

1. Engine Warranty: All engine powered Roper products have a separate Engine Warranty extended by the individual Engine Manufacturer. The Engine Warranty must be referred to in the event of any engine problem.
2. Battery Warranty: On products equipped with a battery, Roper will replace, without charge to you, any battery which we find to be defective during your first ninety (90) days of ownership. After ninety (90) days, we will exchange the battery charging you 1/12 of the price for a new battery for each full month from the date of the original sale.
3. The warranty period for any products used for rental or commercial purposes is limited to 45 days from the date of original purchase.
4. This warranty applies only to products which have been properly assembled, adjusted and operated in accordance with instructions found in the Product Literature for your product. This warranty does not apply to any product which has been subjected to alteration, misuse, abuse, improper assembly or installation or delivery damage.
5. In the event you have a claim (other than an engine claim) under this warranty, you must return the product to an authorized Roper Outdoor Power Products service dealer.

Should you have any unanswered questions concerning this warranty, please contact:

Roper Outdoor Power Products
Division of Roper Corporation
Service Department
1905 West Court Street
Kankakee, Illinois 60901

giving the model number, serial number and date of purchase of your product and the name and address of the authorized Roper dealer from whom it was purchased.

This warranty does not apply to incidental or consequential damages and any IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR ROPER'S EXPRESSED WARRANTIES. Some states do not allow the limitation of consequential damages or limitations of how long an implied warranty may last, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

This is a LIMITED WARRANTY within the meaning of that term as defined in the Magnuson-Moss Act of 1975.

WARNING

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

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. See your Authorized Service Center for spark arrester muffler part number 1A92-11.



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

RULES FOR SAFE OPERATION

1. Know the controls and how to stop quickly. READ THE OWNER'S MANUAL.
2. Do not allow children to operate the vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. Keep children and pets a safe distance away.
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. Don't let other interests distract you.
6. Do not attempt to operate your Tractor or mower when not in operator's seat.
7. Always get on or off your tractor from the operator's left hand side.
8. Clear the work area of objects which might be picked up and thrown.
9. Disengage all attachment clutches and shift into neutral 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 repairs.
12. Disengage power to attachments when transporting or not in use.
13. Take all possible precautions when leaving the vehicle unattended, such as disengaging the power-take-off, lowering the attachments, shifting into neutral, setting the parking brake, stopping the engine, and removing 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.
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. Do not shift gears while going up or down slopes. Choose a gear low enough to negotiate the slope without stopping and shifting gears. To reduce speed, move throttle lever to slow.
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.
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 object.
21. Never shift gears until tractor comes to a stop.
22. Never place hands or feet under the mower, in the deflector (discharge chute) or near any moving parts while tractor or mower are 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 counterweights or wheel weights when suggested in this 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 cap of the fuel tank or add gasoline to a running or hot engine, or fill the fuel tank indoors. Wipe 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.
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.
31. 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.
32. Do not change the engine governor settings or overspeed the engine.
33. When using the vehicle with mower, proceed as follows:
 - a. Mow only in daylight or in good artificial light.
 - b. Never make a cutting height adjustment while the engine is running if the operator must dismount to do so.
 - c. Shut the engine off when removing the grass catcher or unclogging chute.
 - d. Check the blade mounting bolts for proper tightness at frequent intervals.
34. Check the grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.
35. Do not operate the Mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place.

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To assemble your Tractor you will need:
one 1/2", one 3/4" and one 7/16" Wrench.

NOTE: Right Hand (R.H.) and Left Hand (L.H.) are determined from operator's position.

ASSEMBLY

1. Remove Battery, Steering Wheel and Bag of Parts.
2. Filling and Charging Battery (BEFORE INSTALLING ON TRACTOR):



WEAR EYE AND FACE SHIELD.

- a. Mix electrolyte. NOTE: SEE DETAILED INSTRUCTIONS PACKAGED WITH BATTERY.
- b. Fill Battery with electrolyte to bottoms of tubes in cells (Fig. 1). NOTE: DO NOT OVERFILL. (OVERFILLING WILL RESULT IN DAMAGE TO TRACTOR).



WASH HANDS OR CLOTHING IMMEDIATELY IF ACCIDENTALLY IN CONTACT WITH ELECTROLYTE.

- c. Check level of electrolyte after 30 minutes. Add additional electrolyte if necessary. NOTE: Press Vent Caps down securely.
- d. Charge Battery at a rate not exceeding three amperes for about two and one half hours.



DO NOT SMOKE. FUMES FROM CHARGED ELECTROLYTE ARE EXPLOSIVE.

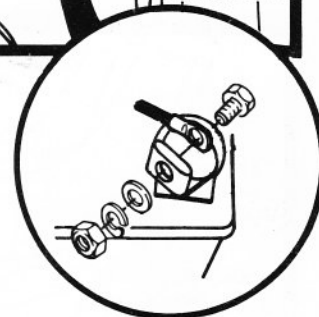
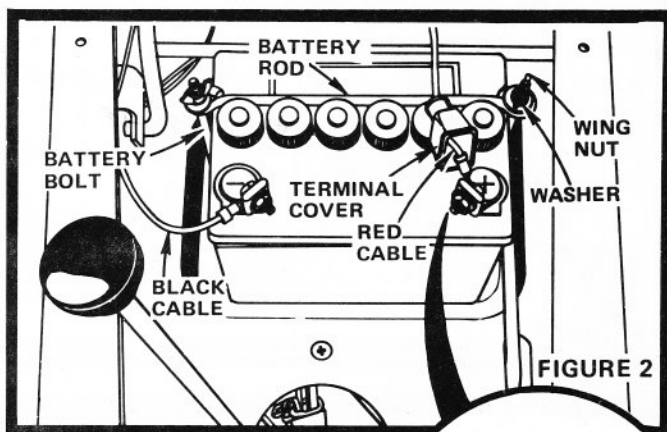
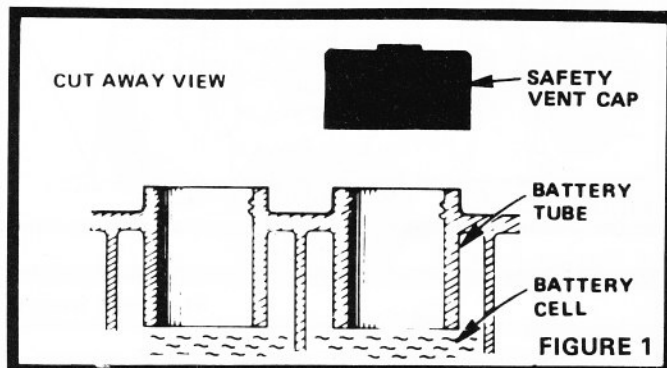
- e. Neutralize excess electrolyte for disposal by adding it to four inches of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.

3. Installing Battery using: two Flat Washers, two Wing Nuts (shown full size below) and

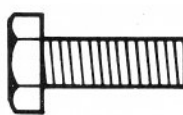


two Battery Bolts and Battery Rod found in Bag of Parts.

- a. Place battery inside chassis, into recessed area below steering wheel, with negative (-) terminal on the left side as viewed from seat (Fig. 2).
- b. Secure the battery in position with the two Battery Bolts, Battery Rod and the two Washers and Wing Nuts (See Fig. 2).



4. Connecting Battery Cables using: two Hex Bolts, two Flat Washers, two Lockwashers and two Hex Nuts (shown full size below) found in Bag of Parts.



- a. Connect RED Battery Cable to Positive (+) Battery Terminal with Hex Bolt, Flat Washer, Lockwasher and Hex Nut (Fig. 2 - INSET). Tighten securely. Place Cover over Terminal.



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

- b. Connect BLACK Ground Cable to Negative (-) Battery Terminal with remaining Hex Bolt, Flat Washer, Lockwasher, and Hex Nut (Fig. 2 - INSET). Tighten securely.

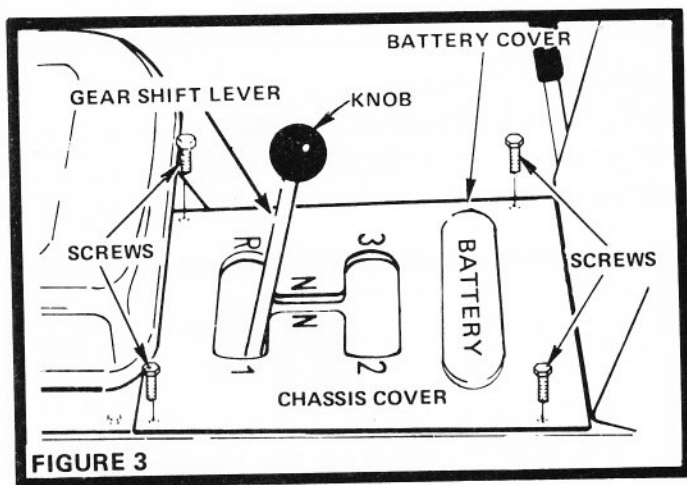


FIGURE 3

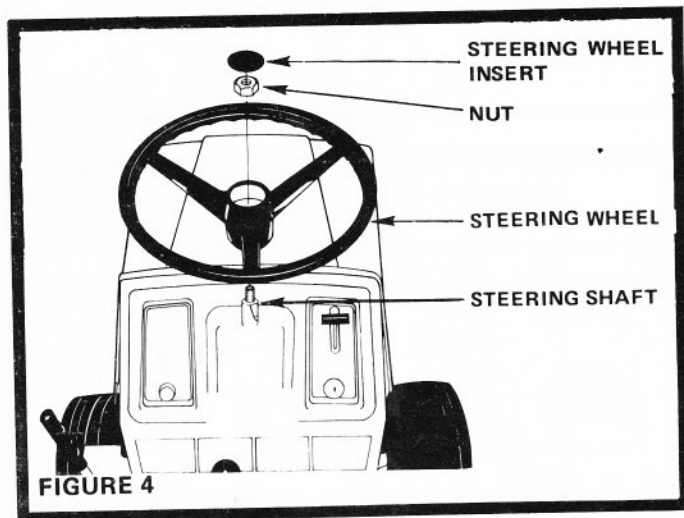


FIGURE 4

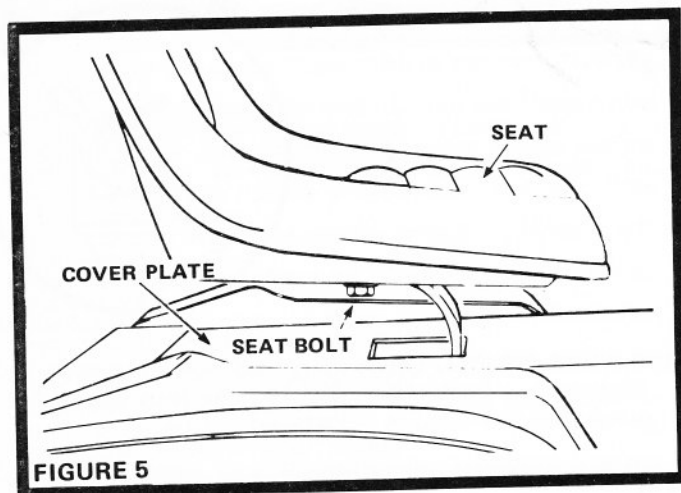


FIGURE 5

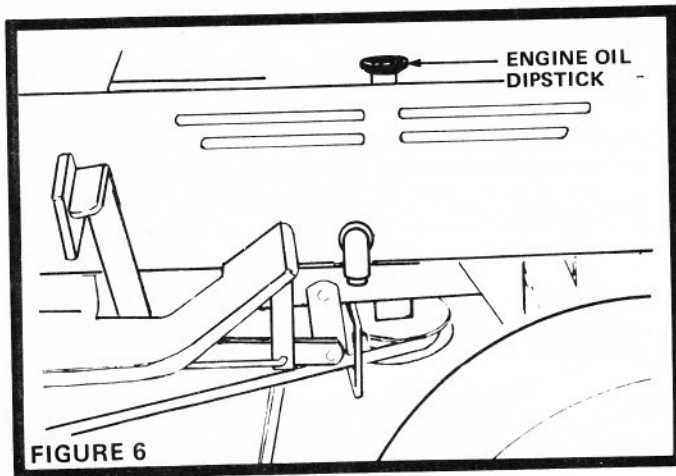
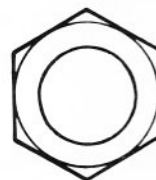


FIGURE 6

5. Assemble Chassis Cover.
 - a. Remove Knob from Gear Shift Lever by unscrewing counterclockwise (Fig. 3).
 - b. Remove the four thread cutting Screws from the chassis.
 - c. Place Chassis Cover in position and secure with the four Screws previously removed.
 - d. Screw the Knob onto the Gear Shift Lever as shown in Fig. 3.
6. Installing Steering Wheel using: Hex Nut, (shown full size below) and Steering Wheel Insert found in Bag of Parts.



- a. Turn the front wheels to a straight forward position.
- b. Secure the Steering Wheel to the Steering Shaft with Hex Nut. Tighten securely.
- c. Install the Steering Wheel Insert (Fig. 4).

INITIAL ADJUSTMENTS

1. Reduce Tire pressure to 12 pounds in front and rear Tires. (Tires were overinflated for shipping purposes).
2. Seat position should be adjusted forward or backward so that operator can comfortably reach foot pedals.
 - a. Loosen the Bolt beneath the Seat (Fig. 5) and slide the seat forward or backward. Tighten Bolt securely.

INITIAL SERVICE

NOTE: BE CAREFUL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHECKING OR ADDING OIL OR FUEL.

1. Check Engine Oil Level with Tractor on level ground. Wipe dipstick (Fig. 6) clean, screw it in tight for a few seconds, remove and read Oil Level. If necessary, add Oil until "FULL" mark is reached. In summer use S.A.E. 30 (SC, SD or SE) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD or SE) or 10W40 (SC, SD or SE). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD or SE). NOTE: DO NOT OVERFILL.
2. Fill Fuel Tank (Fig. 7) with fresh regular grade lead-free or leaded gasoline. Capacity is 1 gallon. NOTE: DO NOT SWITCH FROM LEADED TO LEAD-FREE GASOLINE.



FILL TO BOTTOM OF GAS TANK FILLER NECK. DO NOT OVERFILL. WIPE OFF ANY SPILLED OIL OR FUEL.

OPERATION



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



CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
 - a. Shift transmission to neutral
 - b. Set parking brake
 - c. Disengage attachment clutch
 - d. Shut off engine
 - e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

THIS TRACTOR IS EQUIPPED WITH SAFETY SWITCHES TO PREVENT STARTING OF THE TRACTOR ENGINE WHILE THE MOWER BLADE CLUTCH LEVER IS IN THE "ON" POSITION (FIG. 7) AND THE CLUTCH BRAKE PEDAL IS IN DRIVE POSITION (FIG. 9).



IMMEDIATELY REPLACE SWITCHES THAT ARE NOT IN PROPER WORKING ORDER. DO NOT ATTEMPT TO DEFEAT THE PURPOSE OF THESE SWITCHES.



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

NOTE: ALWAYS OPERATE ENGINE AT FULL ENGINE RPM WHEN MOWING TO ASSURE BETTER MOWING PERFORMANCE, LONG ENGINE LIFE AND PROPER DISCHARGE OF CUT MATERIAL.

STARTING THE ENGINE

1. Disengage Mower Blade Clutch Lever (Fig. 7).
 2. Push Clutch-Brake Pedal fully into brake position and "LOCK" (Engage) Parking Brake (Fig. 9).
 3. Place Gear Shift Lever in "N", (Neutral) position (Fig. 3).
 4. Move Throttle Control Lever to "CHOKE" position (Fig. 8).
 5. Turn Ignition Key to "START" position until Engine starts (Fig. 8). Release key into "RUN" position.
- NOTE: DO NOT RUN STARTER CONTINUOUSLY FOR MORE THAN THIRTY SECONDS AT A TIME. If Engine does not start after several attempts, move Throttle Control Lever to "RUN" position, wait a few minutes, and try again.



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

WARMING UP THE ENGINE

Move Throttle Control Lever mid-way between "RUN" and "CHOKE" positions (Fig. 8). As engine warms up, move Throttle Control Lever to "RUN" position. NOTE: ALLOW ENGINE TO WARM UP FOR A FEW MINUTES BEFORE OPERATING.

When restarting a warm engine, move Throttle Control Lever to "RUN" position, "CHOKE" may not have to be used.

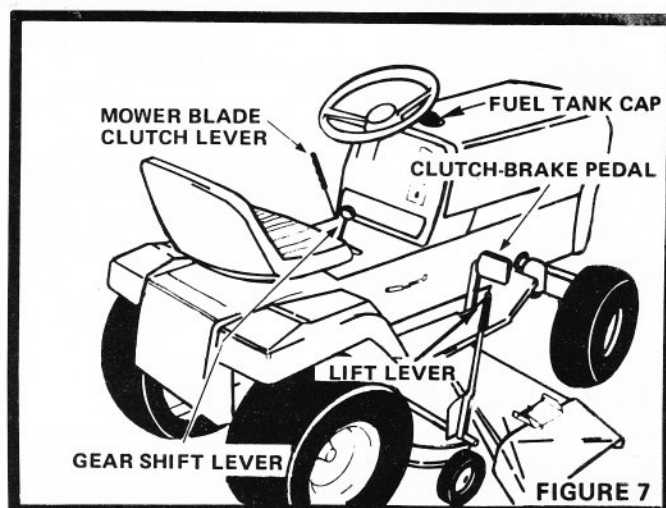


FIGURE 7

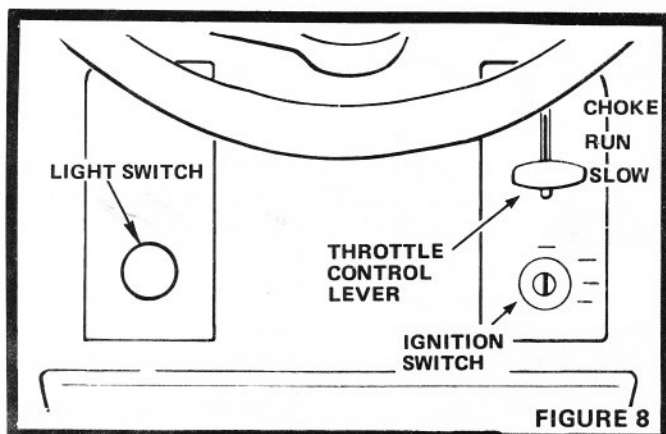


FIGURE 8

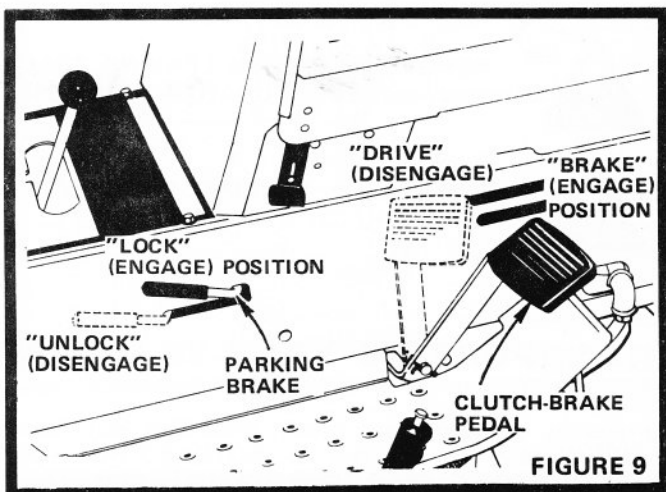


FIGURE 9

TRACTOR OPERATION

1. With engine running and warm, place Throttle Control Lever midway between "RUN" and "SLOW" position.
2. Push Clutch-Brake Pedal down firmly, in Brake position and "UNLOCK" (Disengage) Parking Brake (Fig. 9).
3. Move Gear Shift Lever to "1ST" Gear (Fig. 3).
4. Release Clutch-Brake Pedal SLOWLY to start forward movement.
5. If ground travel is too slow move Throttle Control Lever to "RUN" position or press Clutch-Brake Pedal to stop and shift to a different gear. NOTE: ALWAYS SELECT A GROUND TRAVEL SPEED THAT WILL SUIT THE TERRAIN AND THE ATTACHMENT BEING USED.



BRING TRACTOR TO COMPLETE STOP BEFORE SHIFTING GEARS.



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.

STOPPING YOUR TRACTOR

1. Push Clutch-Brake Pedal completely into "BRAKE" position.
2. Move Gear Shift Lever to "N" (Neutral) position.
3. Place Parking Brake in "LOCK" (Engage) position.



CLUTCH-BRAKE PEDAL SHOULD REMAIN COMPLETELY DEPRESSED WHEN FOOT PRESSURE IS RELEASED.

4. Disengage Mower Blade Clutch Lever.
5. Move Throttle Control Lever to "SLOW" position.
6. Turn Ignition Key to "OFF" position.



REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE.



MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

TRANSPORTING YOUR TRACTOR

For pushing or towing your tractor, place Gear Shift Lever in "N" (Neutral) position (Fig. 3). **NOTE: DO NOT TOW YOUR TRACTOR FASTER THAN SIX MILES PER HOUR.**

TRACTOR OPERATION ON HILLS

1. Move Gear Shift Lever to "1ST" Gear before starting up or down hills.



DO NOT DRIVE UP OR DOWN HILLS WITH SLOPES GREATER THAN 15°, AND DO NOT DRIVE ACROSS ANY SLOPE.

2. AVOID STOPPING OR SHIFTING ON HILLS.

- a. 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.

- b. If stopping is absolutely necessary, push Clutch-Brake Pedal quickly to brake position and lock Parking Brake.
- c. To restart your tractor, make sure tractor is in the lowest speed range and that you have allowed room to roll slightly downhill. Unlock Parking Brake and release Clutch-Brake Pedal SLOWLY to start tractor movement.

3. Make all turns gradually.

STARTING YOUR TRACTOR WITH A LOW BATTERY

If your Battery is too low 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 AROUND BATTERIES.

1. Remove Chassis Cover (Fig. 3).
2. Connect each end of the RED Cable to the POSITIVE (+) terminals of each battery (taking care not to short against chassis).
3. Connect one end of the BLACK Cable to the NEGATIVE (-) terminal of fully charged battery.
4. Connect the other end of the cable to ENGINE BLOCK or good CHASSIS GROUND on tractor (away from Gas Tank or Battery).
5. Disconnect cables in reverse order:
 - a. Engine Block or chassis of tractor.
 - b. Negative terminal of fully charged battery.
 - c. Positive terminals.
6. Replace Terminal Cover and Chassis Cover.



DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

MAINTENANCE

To keep your tractor running better, longer; perform necessary service using the following Maintenance Schedule.



DISCONNECT SPARK PLUG WIRE TO PREVENT ACCIDENTAL STARTING BEFORE MAKING ANY INSPECTION, ADJUSTMENT (EXCEPT CARBURETOR) OR REPAIR.

FIRST 2 HOURS:

CHANGE ENGINE OIL

Changing Oil after the first two hours will help eliminate break-in residue which might be damaging to your Engine.

NOTE: Be careful not to allow dirt to enter the Engine when changing oil.

1. Drain Oil with Engine warm. Unscrew Oil Drain Plug (Fig. 11) and catch Oil in a suitable container. Replace Plug.
2. Refill Engine Oil. In summer use S.A.E. 30 (SC, SD or SE) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD or SE) or 10W40 (SC, SD or SE). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD or SE). Refill capacity is 2 - 1/4 pints. NOTE: DO NOT OVERFILL.

FREQUENTLY:

1. CHECK BATTERY

- a. Electrolyte solution level in each Battery Cell should be even with bottoms of tubes in cells (Fig. 1). Add distilled water if necessary. NOTE: DO NOT OVERFILL.
- b. Keep Battery and Terminals clean. Refer to page 7.
- c. Keep Battery Bolts tight.
- d. Keep Vent Caps tight and small vent holes in caps open.
- e. Recharge SLOWLY at 3 amperes if specific gravity of electrolyte falls below 1.225.

2. CHECK TIRE PRESSURE

Tire pressure in front and rear tires should be 12 pounds.

3. CLEAN AIR SCREEN

Air Screen (Fig. 10) must be kept free of dirt and chaff to prevent Engine damage from overheating.

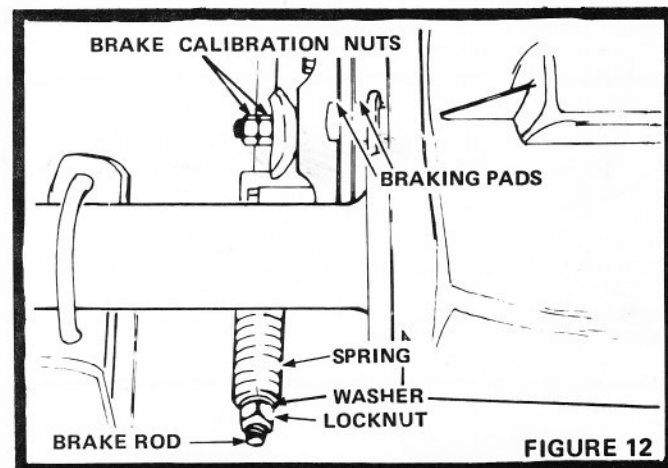
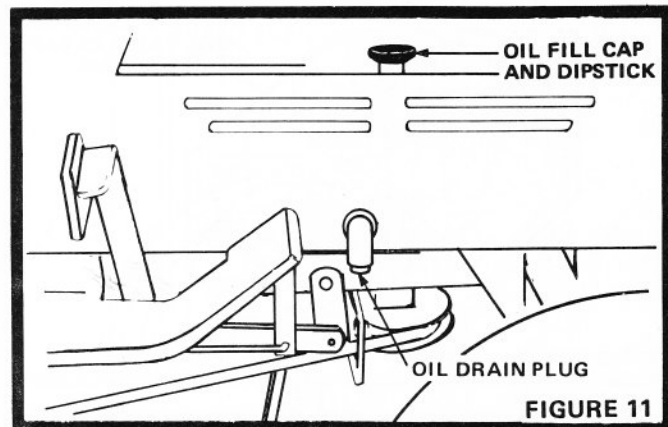
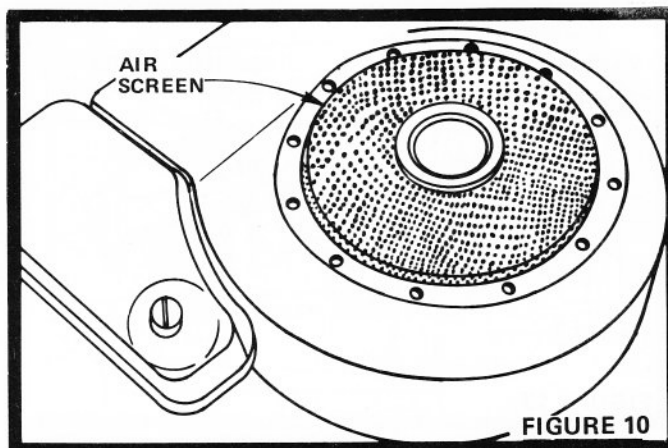
4. CHECK BRAKE OPERATION

This tractor is equipped with an adjustable disc brake mounted on the right side of the transaxle.



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

- a. To adjust, disengage Parking Brake and turn Locknut on the brake rod clockwise until only a slight amount of play (approximately 1/8") is obtained between the end of the Spring and the flat washer on the rod (Fig. 12).
- b. When Braking Pads become worn to the point that there are no longer sufficient threads on the Brake Rod, this wear can be compensated for as follows:
 1. Loosen Locknut (counterclockwise) to end of Brake Rod.
 2. Tighten (clockwise) the Brake Calibration Nuts to the point where there is no brake drag in the disengaged position.
 3. Readjust Locknut on Brake Rod (See Step a).



EVERY 5 HOURS:

CHECK ENGINE OIL LEVEL



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 clean (Fig. 11), screw it in tight for a few seconds, remove and read Oil Level. If necessary, add Oil until "FULL" mark is reached. In summer use S.A.E. 30 (SC, SD or SE) Oil. In winter (below 32°F.) use S.A.E. 10W30 (SC, SD or SE) or 10W40 (SC, SD or SE). In extreme cold (below 0°F.) use S.A.E. 5W20 (SC, SD or SE). NOTE: DO NOT OVERFILL.

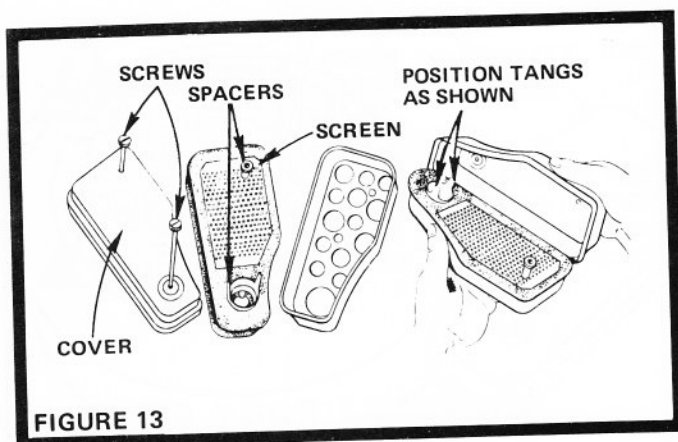


FIGURE 13

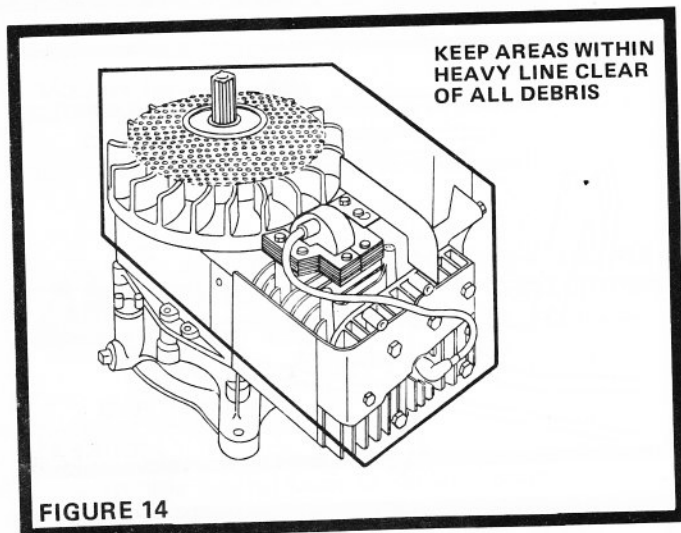


FIGURE 14

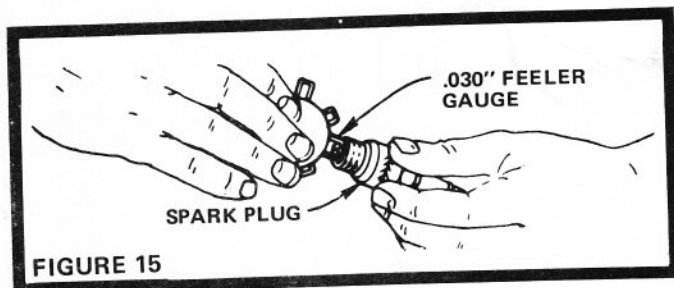


FIGURE 15

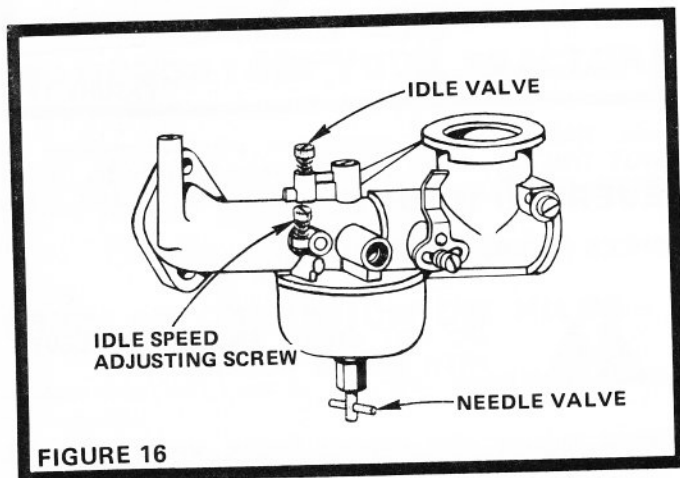


FIGURE 16

EVERY 25 HOURS:

(EVERY 15 HOURS IF OPERATING IN VERY DUSTY CONDITIONS)

1. CLEAN AIR CLEANER ELEMENT

- Remove two Screws and lift off complete Air Cleaner Assembly (Fig. 13).
- Remove Screen and Spacers from Foam Element.
- Remove Foam Element from Air Cleaner Body.
- Wash Foam Element in kerosene or liquid detergent and water to remove dirt.
- Wrap Foam in cloth and squeeze dry.
- Saturate Foam in engine oil. Squeeze to remove excess.
- Assemble parts - fasten to Carburetor with Screws.

When assembling make certain the lip of the Foam Element extends over edge of the Air Cleaner Body. The Foam Element lip will form a protective seal.

NOTE: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

2. CHANGE ENGINE OIL

The best time to change Engine Oil is at the end of a days operation when all dirt and foreign material is suspended in the hot Oil. Refer to page 5.

EVERY 50 HOURS:

CLEAN ENGINE COOLING SYSTEM

Grass, chaff or dirt may clog the air cooling system, especially after prolonged service cutting dry grasses. To avoid overheating and engine damage, remove the blower housing and clean the area shown in Fig. 14.

EVERY 100 HOURS:

CLEAN SPARK PLUG AND RESET GAP

Wire brush carbon deposits from Spark Plug Electrode and reset gap at .030 inch (Fig. 15). Replace Spark Plug if it shows signs of fouling or electrode erosion.

EVERY 200 HOURS:

REPLACE AIR CLEANER ELEMENT

AS NEEDED:

1. CARBURETOR ADJUSTMENT

Never attempt to change maximum engine speed. This is preset at the factory and should only be changed by a qualified service technician who has the necessary equipment.

- TO ADJUST CARBURETOR - Turn Needle Valve clockwise until it just closes, finger tight ONLY. Now open Needle Valve 1 - 1/8 turns counterclockwise. Close Idle Valve in same manner and open 1 - 1/8 turns.



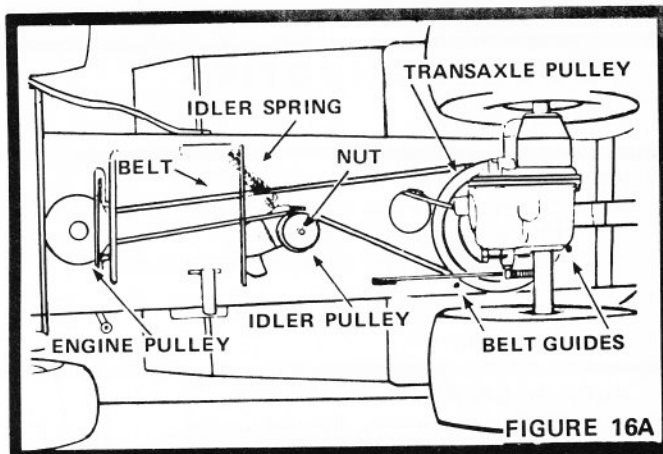
REFER TO "STARTING THE ENGINE" PAGE 3.

This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.

- FINAL ADJUSTMENT - Turn Needle Valve in until engine misses (lean mixture). Then turn it out past smooth operating point until engine runs unevenly (rich mixture). Now turn Needle Valve to the mid-point between rich and lean so the engine runs smoothly. Hold throttle at idle position and set Idle Speed Adjusting Screw until fast idle is obtained (1750 R.P.M.). Hold Throttle in idle position and turn Idle Valve in (lean) and out (rich) until engine idles smoothly. Then reset Idle Speed Adjusting Screw so that engine idles at 1750 R.P.M. Release throttle - engine should accelerate without hesitation or sputtering. If engine does not accelerate properly, the carburetor should be re-adjusted to a slightly richer mixture.

2. TO REMOVE TRACTOR BELT

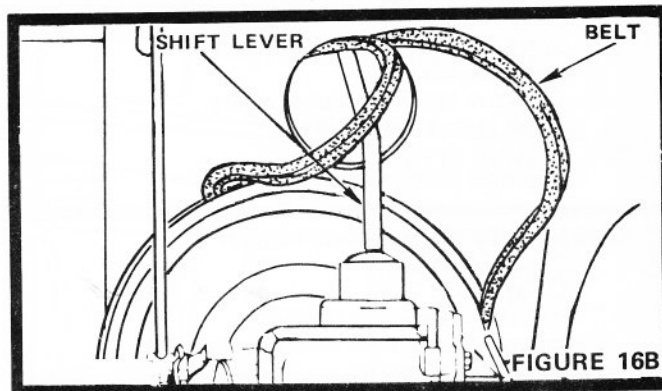
- Remove Mower. (See "Removing Mower from Tractor", page 11).
- Unhook Idler Spring from chassis. (Fig. 16A).
- Remove Nut from Idler Pulley and remove Pulley.
- Remove Seat and Cover Plate (Fig. 5, page 2).
- Loosen Nut on two Belt Guides and rotate Belt Guides away from Pulley. (One at rear and one on right side).
- Remove Belt from around Transaxle Pulley by rolling Belt over top of Pulley.
- Remove Belt from around Engine Pulley.
- Remove four Screws retaining Chassis Cover and remove Cover (Fig. 3, page 2).
- Form a loop in Belt and push it through opening containing Shift Lever in the Chassis. Pull loop up over Shift Lever and remove Belt (Fig. 16B).
- Assemble Belt by reversing above procedures.
- Replace mower.



3. CLEAN BATTERY AND TERMINALS

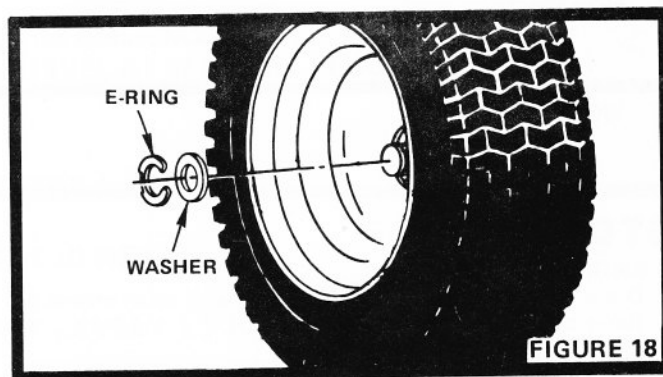
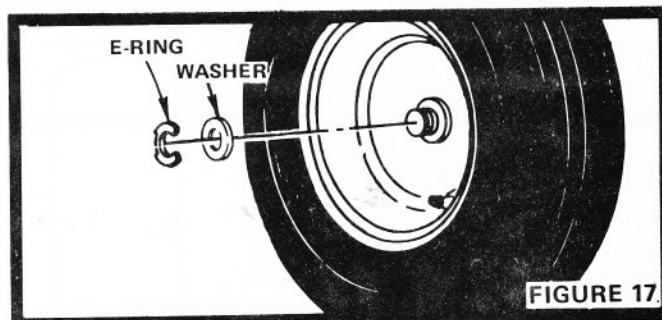
Corrosion and dirt on the Battery and Terminals cause the Battery to "leak" power and hinders the operation of the charger.

- Remove the Battery from the Tractor and wash with four tablespoons of baking soda to one gallon of water. NOTE: BE CAREFUL NOT TO GET THE SODA SOLUTION INTO THE CELLS. Rinse the Battery with plain water, dry and reinstall on Tractor.
- Clean terminals and Battery Cables with a wire brush until bright. Replace Battery Cables. Coat terminal connections with Vaseline.



4. TIRE CARE

- Maintain tire pressure in front and rear tires at 12 pounds.
- Keep tires free of gasoline, oil, or insect control chemicals which can destroy rubber.
- Avoid stumps, stones, deep ruts and other hazards that may cause tire damage.
- Removing front wheel for tire repair (Fig. 17).
 - Block up front axle securely or use a Tractor Jack.
 - Remove E-Ring and Washer to allow wheel removal.
 - Repair tire and reassemble. Replace Washer, snap E-Ring securely in axle groove.
- Removing rear wheel for tire repair (Fig. 18).
 - Block up rear axle securely or use a Tractor Jack.
 - Remove E-Ring and Washer to allow wheel removal.
 - Repair tire and reassemble. Replace Washer, snap E-Ring securely in axle groove.
 - Make sure Square Key is in place on Axle Shaft.



5. FINISH

Keep tractor finish and seat free of gasoline, oil, insect chemicals or battery electrolyte. Protect painted surfaces with Automotive type wax.

TROUBLE SHOOTING

POSSIBLE CAUSE

POSSIBLE REMEDY

WILL NOT START

Clutch-Brake Pedal in drive position
Mower Clutch Lever engaged.
No gasoline in Fuel Tank or clogged Fuel Line
Blown Fuse
Dead Battery

Push Pedal into brake position
Disengage Lever
Fill Tank with Gasoline. Check Fuel Line and Carburetor (clean if necessary)
Check for fault and replace Fuse
Recharge or replace Battery

HARD TO START

Choked improperly, flooded Engine

Clogged Fuel Tank
Dirty Air Cleaner
Spark Plug dirty or improper gap
Defective Battery
Defective Ignition or loose wiring
Water in gasoline or old fuel

Improper Carburetor adjustment

Place Throttle Control in "RUN" position and run starter several times to clear out gas
Remove and clean
Remove and clean
Clean, adjust gap or replace
Recharge or replace
Check the wiring and Spark Plug
Drain Fuel Tank and Carburetor, use fresh fuel and clean Spark Plug
Make necessary adjustments

ENGINE MISSES OR LACKS POWER

Engine overload
Clogged Fuel Tank
Partially plugged Air Cleaner
Improper Carburetor adjustment
Dirty Air Screen
Low oil level or dirty oil
Spark Plug dirty, improper gap or wrong type
Faulty ignition
Poor compression
Oil in gasoline

Shift to a lower gear or reduce load
Remove and clean
Remove and clean
Make necessary adjustments
Clean Air Screen and Cylinder Fins
Add or change oil
Clean, reset gap or replace
Check Spark Plug and for loose wires
Major Engine overhaul
Drain and refill Gas Tank and Carburetor

ENGINE OVERHEATS

Dirty Air Screen
Low oil level or dirty oil
Dirty Engine
Partially plugged Muffler
Partially plugged Air Cleaner
Stale fuel or improper Carburetor adjustment

Clean Air Screen
Add or change oil
Clean Cylinder Fins
Remove and clean Muffler
Remove and clean
Use fresh fuel and adjust Carburetor

NO LIGHTS

No Headlights with Light Switch Knob pulled out

Check Light Fuse under dash and wire connections.
Replace Sealed Beam Headlights

WON'T CHARGE

Blown Fuse
Defective Battery

Check for fault and replace
Replace

STORAGE

1. ENGINE OIL

Drain (with engine warm) and replace with clean engine oil. Refer to page 5.

2. FUEL SYSTEM

- Drain fuel tank and carburetor by allowing the engine to run out of gasoline. NOTE: GASOLINE LEFT IN YOUR ENGINE WILL LEAVE GUM DEPOSITS CLOGGING FUEL SYSTEM.
- Dispose of gasoline if not to be used. NOTE: GASOLINE STORED FOR SEVERAL MONTHS LOSES ITS VOLATILITY (ABILITY TO BURN EFFECTIVELY).

3. CYLINDER

- Remove Spark Plug.
- Pour one ounce of oil through spark plug hole into cylinder.
- Turn ignition key to "START" position for a few seconds to distribute oil.

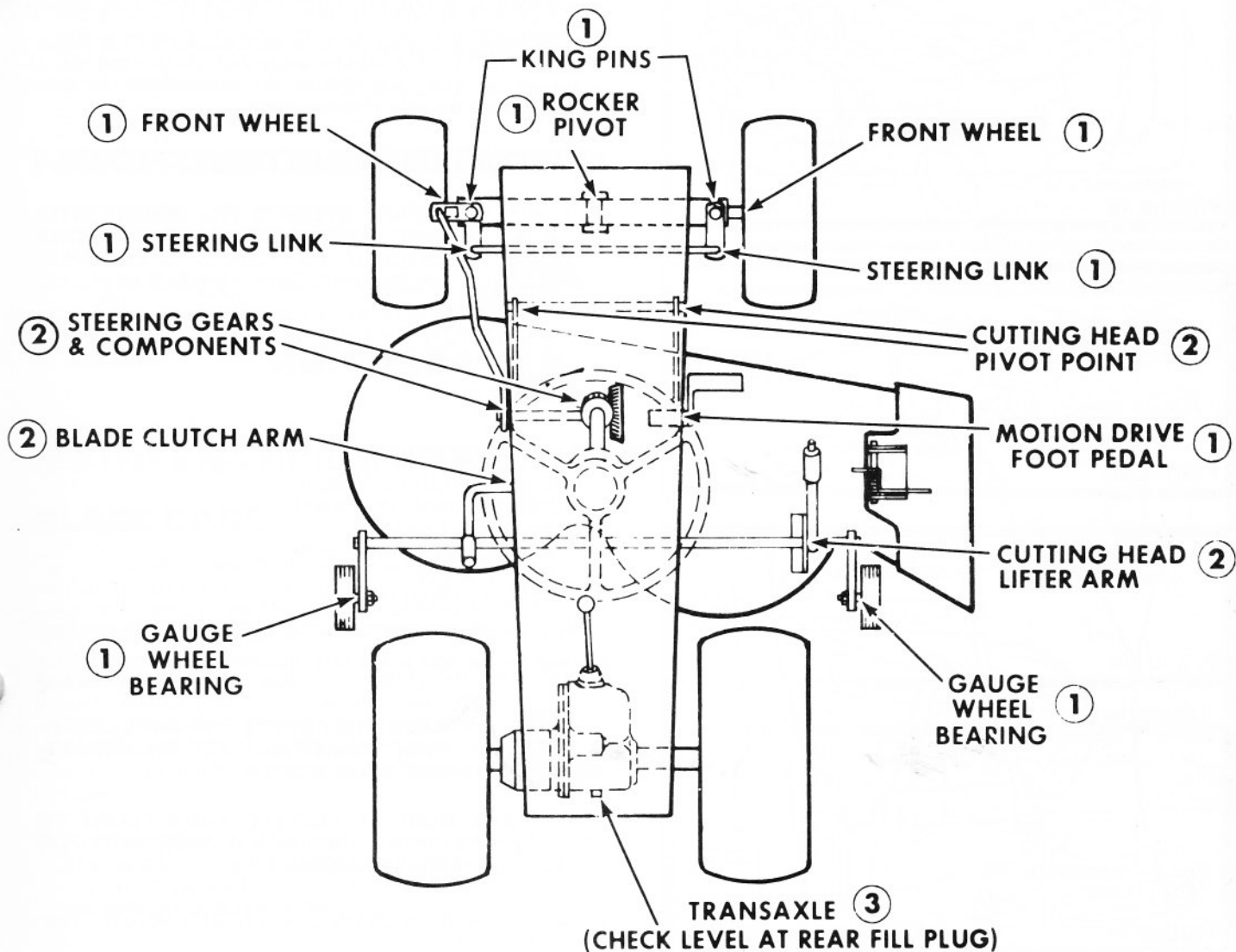
4. BATTERY

- Remove battery if tractor is not used regularly during winter months. Store in cool, dry place (above 50°F).
- Check electrolyte charge each month and recharge if below 1.225 specific gravity. NOTE: BATTERIES NOT IN USE FOR SEVERAL MONTHS AND NOT KEPT FULLY CHARGED, PRODUCE SULPHUR DEPOSITS ON PLATES WHICH CANNOT BE REMOVED BY RECHARGING.

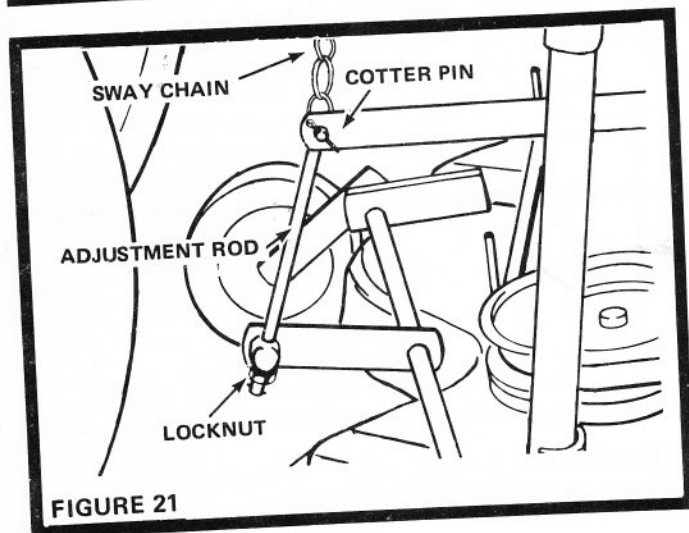
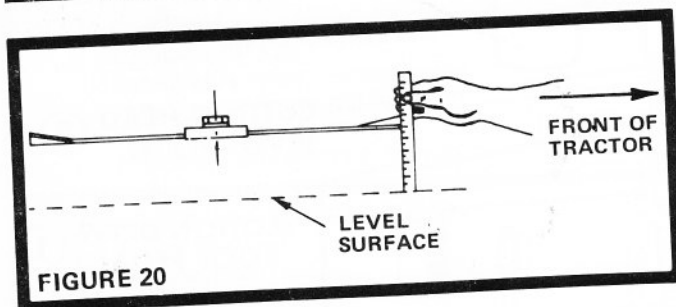
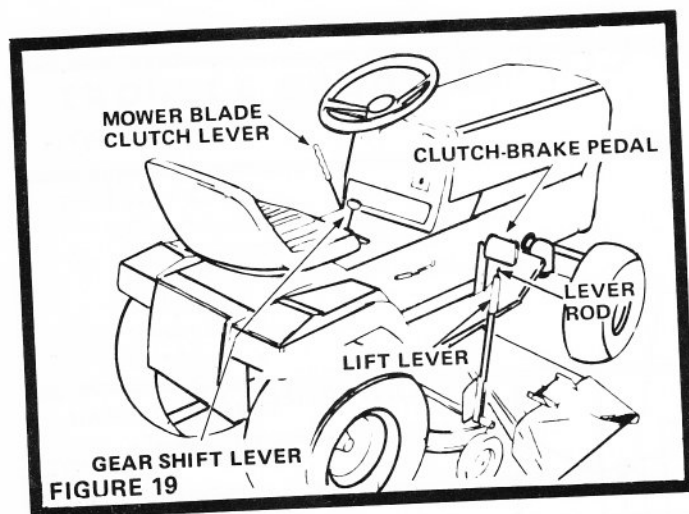
5. GENERAL CLEANING

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

LUBRICATION CHART



- ① SAE 30 MOTOR OIL - EVERY 5 TO 10 HOURS
- ② CHASSIS GREASE - EVERY 10 HOURS
- ③ SAE 90 GEAR LUBRICANT - EVERY 25 HOURS



MOWER PRE-USE ADJUSTMENT

FOR ANY ADJUSTMENTS, INSPECTION OR MAINTENANCE:

PUSH TRACTOR CLUTCH-BRAKE PEDAL COMPLETELY INTO BRAKE POSITION. MOVE GEAR SHIFT LEVER TO "N" NEUTRAL POSITION. PLACE PARKING BRAKE IN "ENGAGE" POSITION. PLACE MOWER BLADE CLUTCH LEVER IN "DISENGAGE" POSITION. SHUT OFF THE ENGINE. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED, REMOVE THE IGNITION KEY, DISCONNECT THE SPARK PLUG WIRE FROM THE SPARK PLUG AND KEEP WIRE AWAY FROM THE PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING.



ADJUST MOWER FROM FRONT TO REAR

1. Set the Lift Lever in "MED" Position (Fig. 19). Your mower should cut approximately $\frac{3}{16}$ " lower at front than at the rear. With R.H. mower blade in line with length of tractor (Fig. 20), measure the height of the front tip of blade. Rotate blade $\frac{1}{2}$ turn and measure. The front tip must be approximately $\frac{3}{16}$ of an inch lower at front than at rear.
2. If adjustment is required, turn the Locknut on the Adjustment Rod in the clockwise direction to lower the rear of the mower deck, and turn in the counterclockwise direction to raise the rear of mower deck.

OPERATING INSTRUCTIONS



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



CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
 - a. Shift transmission to neutral
 - b. Set parking brake
 - c. Disengage attachment clutch
 - d. Shut off engine
 - e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.



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

THE MOWER MUST BE LEVELED FROM FRONT TO REAR BEFORE OPERATING. THIS IS NECESSARY FOR LEVEL AND EFFICIENT MOWING.

1. Place Mower Blade Clutch Lever in "DISENGAGE" Position (Fig. 19).
 2. Push tractor Clutch-Brake Pedal fully into brake position.
 3. Place Gear Shift Lever in "N", start position.
- NOTE: Tractor Clutch-Brake Pedal must be fully depressed and Mower Blade Clutch Lever in "DISENGAGED" position before tractor will start.

4. Start tractor and set engine speed to about $\frac{1}{3}$ to $\frac{1}{2}$ throttle before engaging mower. In either case, "ENGAGE" or "DISENGAGE" Mower Blade Clutch Lever slowly. After mower is "ENGAGED", set to full throttle.



NEVER "ENGAGE" MOWER EXCEPT WHEN SITTING ON TRACTOR SEAT.

5. Start mowing in the first gear and increase ground speed as conditions will permit. Average cutting height is approximately $2 - \frac{1}{2}$ to $2 - \frac{3}{4}$ inches. Height of cut can be adjusted by means of the Lift Lever (Fig. 19). Moving the Lever forward lowers the mower. Moving it backwards raises the mower. The lever latch is actuated by depressing the Lever Rod at the top of the Lift Lever (Fig. 19).

6. Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting. When mowing large areas (Fig. 22), start by turning to the right so that the clippings will be discharged away from shrubs, fences, driveways, etc. After two or three rounds, mow in the opposite direction making left hand turns until finished. If grass is extremely tall, it should be mowed twice. The first time cut relatively high. The second time to the desired height. The left hand side of mower should be used for trimming.

FLIP-UP DISCHARGE GUARD

Your mower has a flip-up Discharge Guard (Fig. 23) for door or gate clearance when held in raised position.



MAKE SURE MOWER BLADE CLUTCH LEVER IS IN "DISENGAGED" POSITION AND BLADES HAVE STOPPED BEFORE RAISING DISCHARGE GUARD.

MAINTENANCE INSTRUCTIONS

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 15 hours of mowing. Do not attempt to sharpen while on mower.

1. When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before reinstallation on mower. Unbalanced or bent blade will cause excessive vibration when running, and eventual damage to mower or engine. Replace bent or damaged blades.
2. To insure satisfactory operation, it is recommended that before the start of each mowing season, the old blades be discarded and replaced with new blades. Mower blades can be purchased at your Roper Dealer.

DAILY MAINTENANCE

Make sure all nuts on bolts are tight and cotter pins are secure. Keep blades sharp. Observe all safety precautions. Keep mower well lubricated (refer to page 9).

CLEANING MOWER

Water pressure from a garden hose will remove fresh clippings from underside of mower. Clean mower after each mowing.

REMOVING MOWER FROM TRACTOR

1. Place Mower Blade Clutch Lever (Fig. 19) in "DISENGAGE" position.
2. Remove two Cotter Pins which secure the two Blade Brake Rods to the Brake Rod Brackets and two Cotter Pins securing Parallel Links to the Clutch Arm Assembly (Fig. 24).

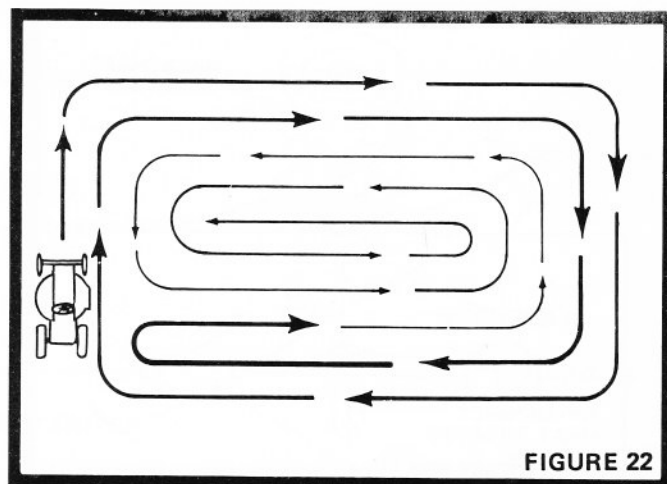


FIGURE 22

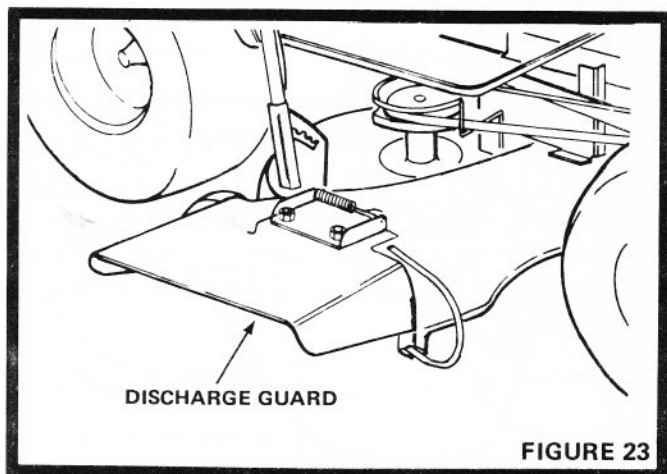


FIGURE 23

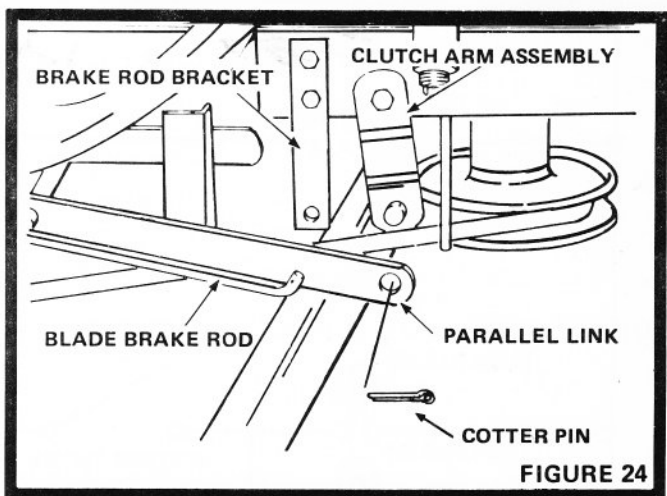
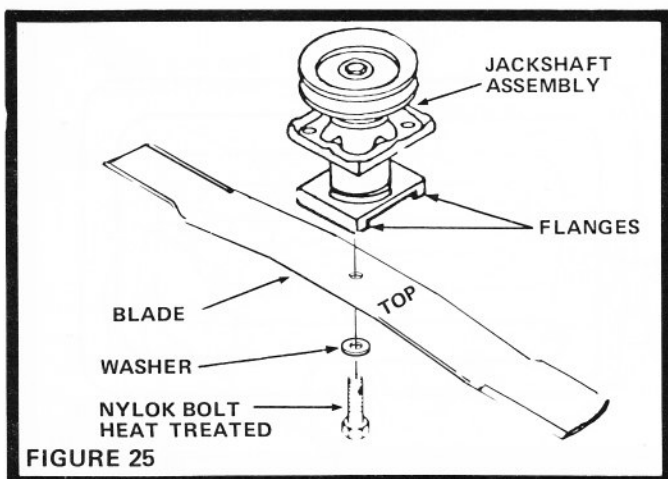


FIGURE 24

3. Remove both Blade Brake Rods from the Brake Rod Bracket and both Parallel Links from the Clutch Arm Assembly.
4. Remove Sway Chain (Fig. 21) from Chassis by removing bolt from chassis.
5. Move the mower forward to relieve the tension on the V-Belt and slip belt from around the engine pulley and past the mid belt guide.
6. Slide mower out from beneath the tractor.
7. To assemble, reverse the above procedure.

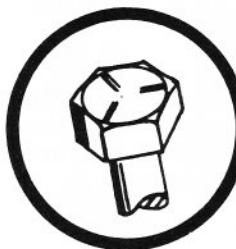


BLADE REPLACEMENT

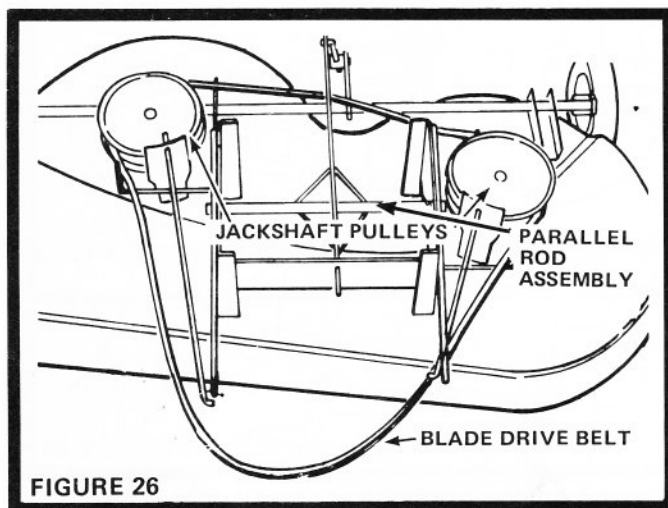
1. Remove Bolt (turn counterclockwise) and Washer (Fig. 25).
2. Place new Blade between Flanges, (the word "TOP" is stamped on all blades to assure proper installation) and secure with Bolt and Washer previously removed. TIGHTEN SECURELY.



ALWAYS USE GRADE 5 HEAT TREATED BOLTS TO ATTACH BLADES. CHECK BOLTS IN BLADES OCCASIONALLY TO MAKE SURE BOLTS ARE TIGHT. TORQUE BOLTS 27 - 35 FT. LBS.



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



BELT REPLACEMENT BLADE DRIVE

1. Remove Mower from Tractor (see page 11).
2. Remove the Belt from around both Jackshaft Pulleys and away from the mower through the opening at the rear of the Parallel Rod Assembly (Fig. 26).
3. To install new Belt, reverse the above procedure.

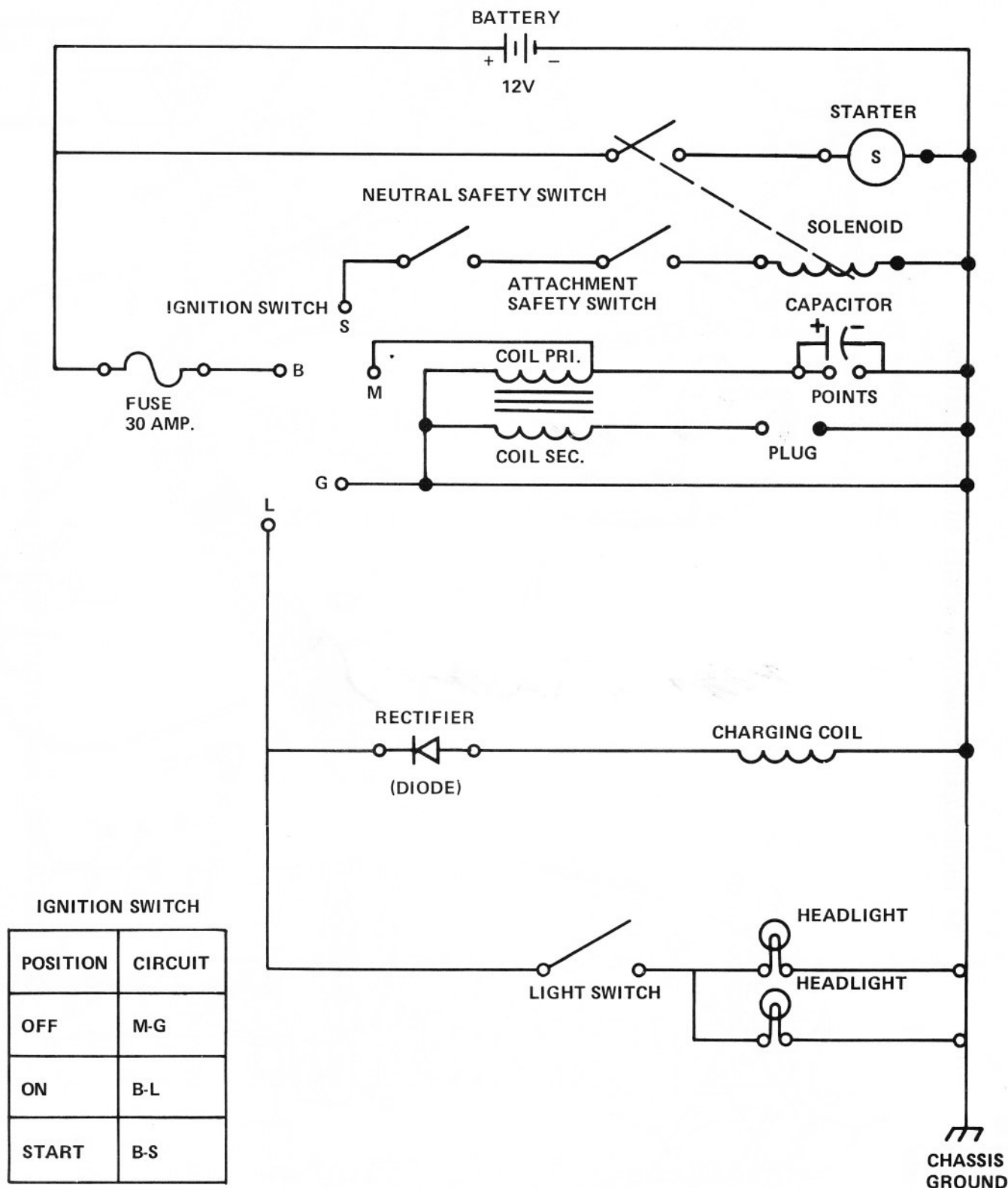
STORAGE

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.

REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

SCHEMATIC DIAGRAM



WIRING INSULATED CLIPS

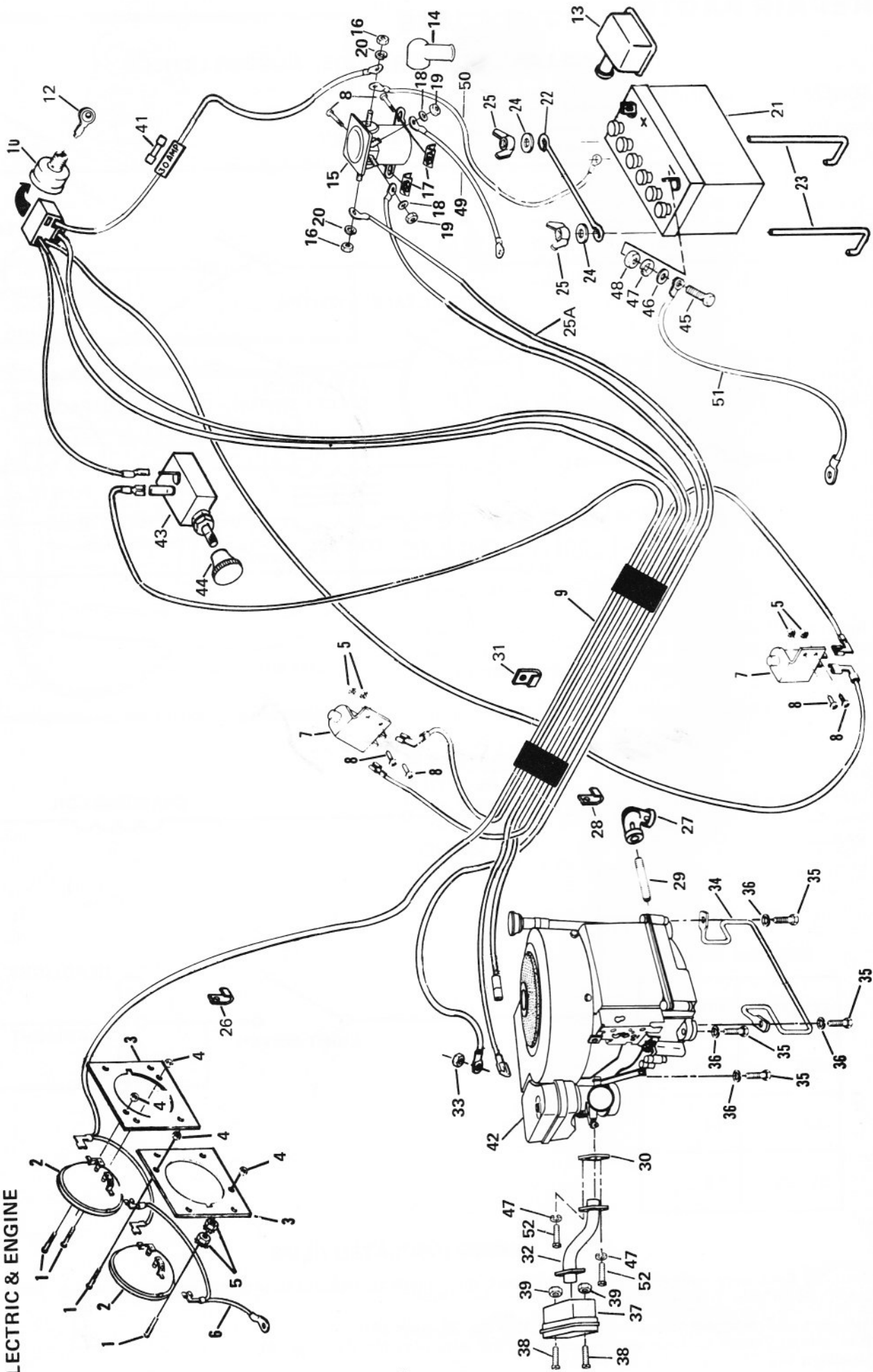
If Insulated Clips were removed for servicing of unit, they should be replaced to properly secure your wiring. There are three Insulated Clips on your Tractor.

1. L.H. side of Tractor for safety switch wires (Key No. 28, page 14).
2. R.H. side of Tractor securing wire harness and cable wire (Key No. 31, page 14).
3. Headlight wire (Key No. 26, page 14).

REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

ELECTRIC & ENGINE



REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

ELECTRIC & ENGINE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	3226P	Screw, Machine Truss Head No. 10 - 24 x 1	27	4017P	Std. Elbow 90° 3/8 - 18 NPT
2	6452R	Headlight	28	5320R	Insulated Clip
3	73025	Headlight Support	29	73458	Nipple
4	4632H	Nut, Lock No. 10 - 24	30	72144	Exhaust Gasket
5	561P	Nut, Keps No. 10 - 24 UNC	31	6794R	Insulated Clip
6	71706	Wire Assembly	32	74714	Exhaust Tube
7	7755R	Safety Switch	33	53490	Nut, Lock 1/4 - 20 UNC
8	3359P	Screw, Machine Phillips Head No. 10 - 24 x 1/2	34	1795J	Belt Keeper
9	1796J	Wire Harness	35	5608P	Screw, Hex Hd. Thd. Rolling 3/8 - 16 x 1 - 1/2
10	4406R	Ignition Switch (Inc. Ref No. 12)	36	1004P	*Washer, Lock 3/8
12	7552H	Key Set	37	74715	Muffler
13	225J	Terminal Cover	38	3271P	Hex Bolt 5/16 - 18 x 2 - 3/4
14	719J	Terminal Cover	39	575P	Locknut, Gripco 5/16 - 18
15	7754R	Solenoid	41	6347R	Fuse - 30 Amp.
16	538P	*Nut, Hex Jam 5/16 - 24 UNF	42	191707	Engine - Briggs and Stratton 8 H.P.
17	578P	Nut, Speed No. 10 - 24 UNC			Type No. 5627-01 (See pages 26 thru 28)
18	1006P	*Washer, Lock No. 10	43	7793R	Light Switch
19	543P	*Nut, Hex No. 10 - 32 UNF	44	7794R	Knob, Light Switch
20	1003P	*Lockwasher 5/16	45	3003P	*Hex Bolt 1/4 - 20 x 3/4
21	228J	Battery	46	1506P	*Washer 9/32 x 5/8 x 16 Ga.
22	67187	Battery Rod	47	1002P	*Lockwasher 1/4 Heavy
23	70456	Battent Bolt	48	503P	*Hex Nut 1/4 - 20 UNC
24	1507P	Washer 9/32 x 3/4 x 16 Ga.	49	8027R	Wire - Ground Solenoid
25	577P	Wing Nut 1/4 - 20 UNC	50	597J	Battery Cable
25A	599J	Wire - Solenoid to Starter	51	596J	Ground Cable
26	2521R	Insulated Clip	52	70541	Screw, Hex Hd. 1/4 - 20 x .62
			---	1806J	Fact and Warranty Tag
			---	1789J	Owners Manual

*STANDARD HARDWARE--PURCHASE LOCALLY

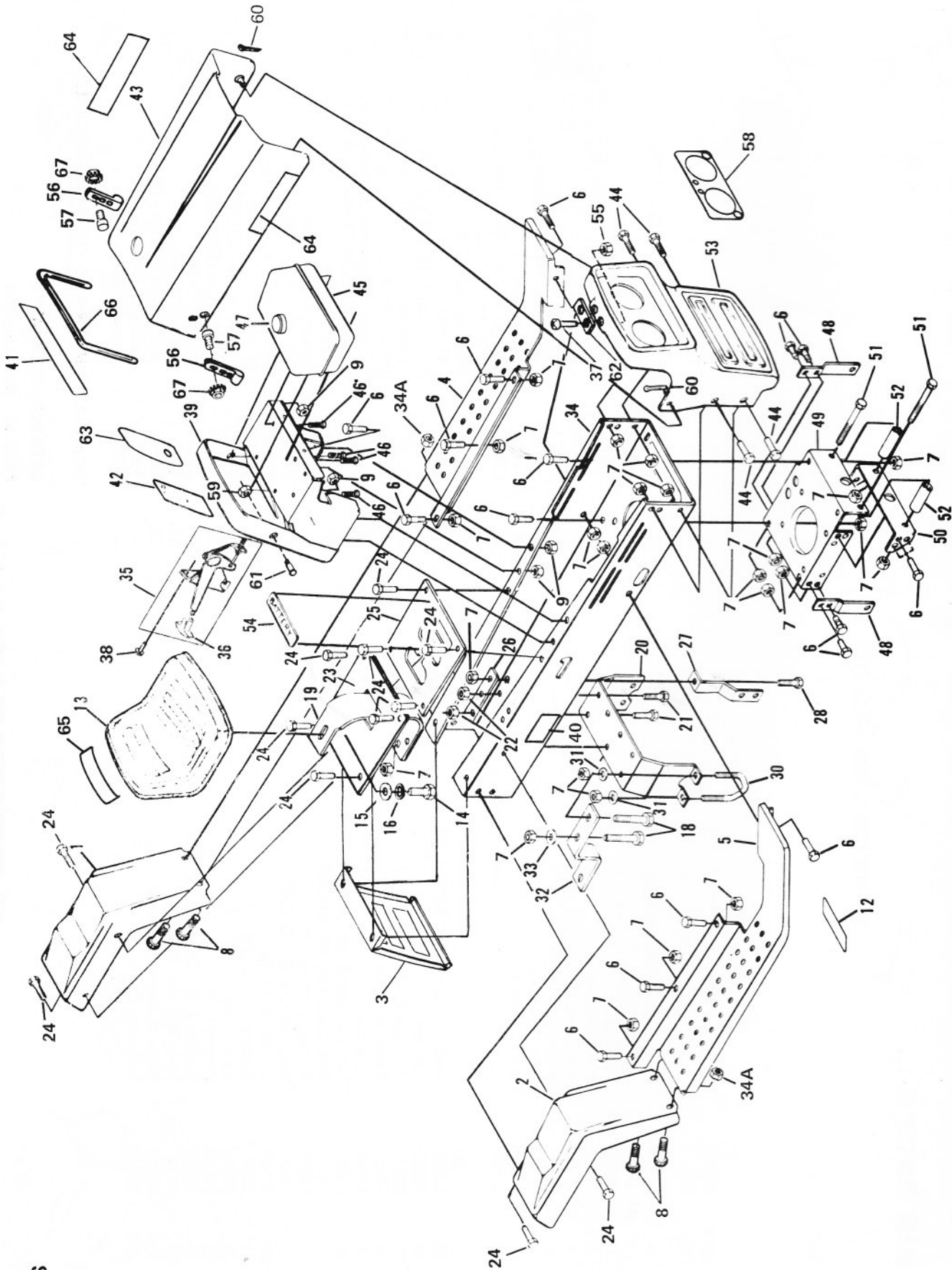
OPTIONAL EQUIPMENT

1A92-11 Spark Arrestor

REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

CHASSIS



REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

CHASSIS

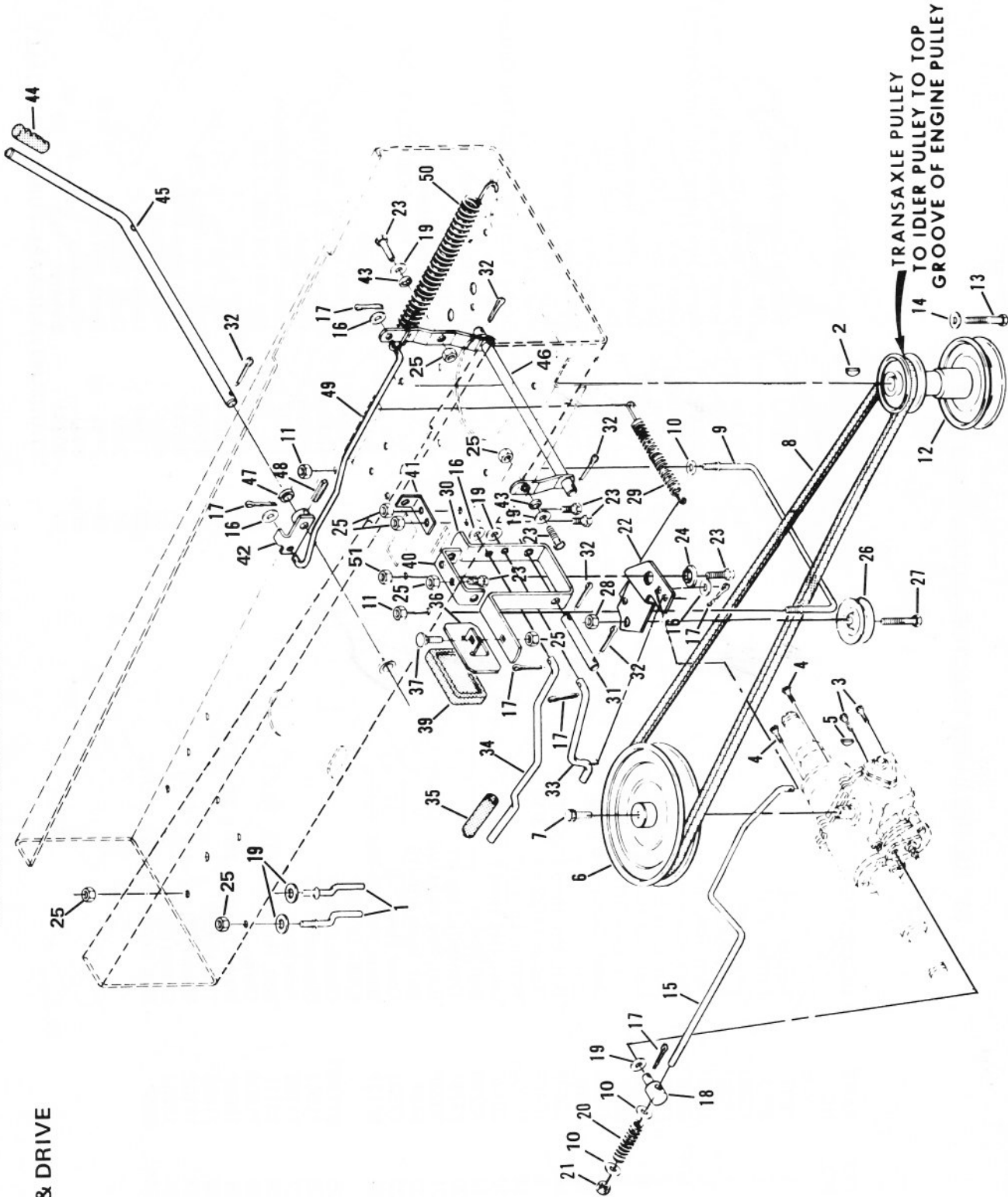
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	388J	Fender - L.H.	35	1544J	Remote Control Ass'y. (Inc. Ref. No. 36)
2	389J	Fender - R.H.	36	61159	*Knob - Remote Control
3	1538J	Rear Cover	37	3320P	*Screw, Pan Hd. Machine No. 10 - 24 x 1/2
4	1539J	Foot Rest, L.H.	38	5606P	Screw, Hex Washer Hd. Thd. Cutting 1/4 - 20 x 1/2
5	1540J	Foot Rest, R.H.	39	677A93	Dash Ass'y.
6	3010P	*Bolt, Hex Head 5/16 - 18 x 3/4	40	75078	Decal, "8"
7	575P	Nut, Lock 5/16 - 18 UNC	41	1136J	Decal - Dash, Instructions
8	3008P	Bolt, Hex Head 5/16 - 18 x 1/2	42	1135J	Decal - Dash, Controls
9	532P	Nut, Keps 5/16 - 18 UNC	43	677A12	Hood Ass'y.
12	1133J	Decal - Clutch and Brake	44	3386P	*Screw, Hex Washer Hd. 5/16 - 18 x 3/4
13	1496J	Seat	45	73427	Fuel Tank
14	3042P	*Bolt, Hex Head 1/2 - 13 x 1	46	5547P	Screw, Truss Hd. Phillips Thd. Cutting 1/4 - 20 x 3/4
15	1546P	Washer 17/32 x 1 - 3/16 x 11 Ga.	47	74145	Fuel Cap
16	1000P	*Washer, Lock 1/2	48	71190	Brake Rod Bracket
18	3012P	*Bolt, Hex Head 5/16 - 18 x 1 - 1/4 Gr. 5	49	1839J	Engine Base
19	73790	Seat Spring	50	71178	Rocker Bar Support
20	73791	Transaxle Support	51	3271P	*Bolt, Hex Head 5/16 - 18 x 2 - 3/4
21	3023P	*Bolt, Hex Head 3/8 - 16 x 1	52	71431	Bushing
22	545P	Nut, Lock 3/8 - 16	53	374J	Grill Frame
23	1750J	Cover Plate	54	74307	Battery Cap
24	5612P	Screw, Hex Hd. Thd. Rolling 5/16 - 18 x 1/2	55	4632H	Locknut No. 10 - 24 UNC
25	677A87	Chassis Cover	56	8889R	Hood Latch
26	71507	Support	57	3068P	Screw, Phillips P.H. Machine No. 10 - 24 UNC x 3/8
27	71198	Axle Strap	58	602J	Decal - Headlight
28	3011P	*Bolt, Hex Head 5/16 - 18 x 1	59	561P	Nut, Keps No. 10 - 24 UNC
30	71606	Clamp	60	2503P	*Cotter Pin 3/32 x 3/4
31	1609P	Washer, 5/16 x 3/4 x 11 Ga.	61	8753R	Hood Latch Pin
32	71205	Tow Hitch	62	470J	Hood Bumper
33	1610P	Washer, 3/8 x 1 - 1/4 x 6 Ga.	63	1134J	Decal - Dash, L.H.
34	1320J	Chassis	64	242J	Decal, Hood
34A	585P	Nut, Keps Jam 5/16 - 18 UNC	65	245J	Decal, Seat Back
			66	892J	Hood Strip
			67	2029J	Weldnut

*STANDARD HARDWARE--PURCHASE LOCALLY

REPAIR PARTS

CLUTCH-BRAKE & DRIVE

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR



REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

CLUTCH-BRAKE & DRIVE

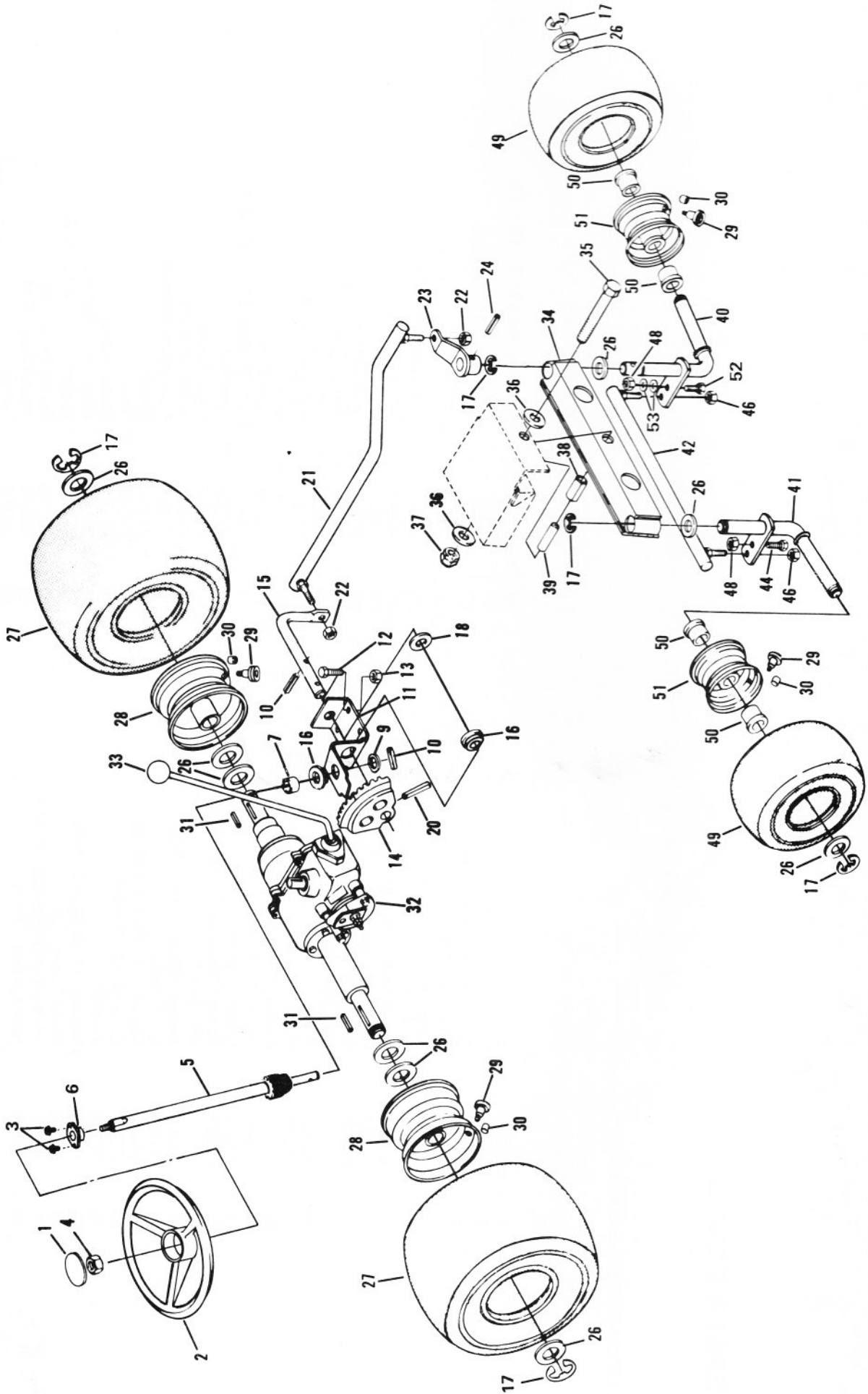
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	71200	Belt Guide	23	3010P	*Bolt, Hex Head 5/16 - 18 x 3/4
2	65053	Key, Woodruff No. 6	24	71202	Bushing
3	6059P	Screw, Hex Head w/Washer 5/16 - 18 x 7/8	25	575P	Nut, Lock 5/16 - 18 UNC
4	6060P	Screw, Hex Head w/Washer 5/16 - 18 x 1 - 1/8	26	67400	Pulley - Idler
5	52859	Key, Woodruff No. 61	27	3027P	*Bolt, Hex Head 3/8 - 16 x 1 - 1/2
6	73542	Pulley - Transaxle	28	579P	Nut, Lock 3/8 - 16 UNC
7	6058P	Screw, Machine w/Washer 1/4 - 20 x 3/4 Gr. 5	29	2044J	Spring - Idler
8	73794	V-Belt	30	390J	Foot Pedal
9	71241	Mid Belt Guide	31	71223	Pedal Shaft
10	1611P	Washer, 13/32 x 7/8 x 16 Ga.	32	2506P	*Cotter Pin 1/8 x 1
11	545P	Locknut 3/8 - 16	33	74419	Clutch Rod
12	71923	Pulley - Engine	34	373J	Park Brake Rod
13	6063P	Screw, Machine w/Ext. Lockwasher 3/8 - 24 x 1 - 3/8	35	71226	Grip
14	1610P	Washer, 3/8 x 1 - 1/4 x 6 Ga.	36	71222	Pedal Plate
15	73792	Brake Rod	37	16P	*Bolt, Carriage 5/16 - 18 x 3/4
16	1507P	Washer, 13/32 x 3/4 x 16 Ga.	39	67365	Foot Pad
17	2503P	*Cotter Pin 3/32 x 3/4	40	71199	Pedal Bracket
18	71238	Trunion	41	71204	Switch Bracket
19	1599P	Washer, 11/32 x 3/4 x 16 Ga.	42	73229	Clutch Arm Assembly
20	71239	Brake Spring	43	71195	Spacer
21	591P	Locknut w/Washer 3/8 - 16 UNC	44	71246	Grip
22	71201	Idler Bracket	45	71242	Clutch Handle
			46	71191	Clutch Arm Assembly
			47	1545P	Washer, 17/32 x 1 x 16 Ga.
			48	52379	Spring Pin 3/16 x 1
			49	74474	Blade Clutch Rod
			50	71248	Spring
			51	590P	Locknut w/Washer 5/16 - 18 UNC

*STANDARD HARDWARE--PURCHASE LOCALLY

REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

STEERING AND WHEELS



REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

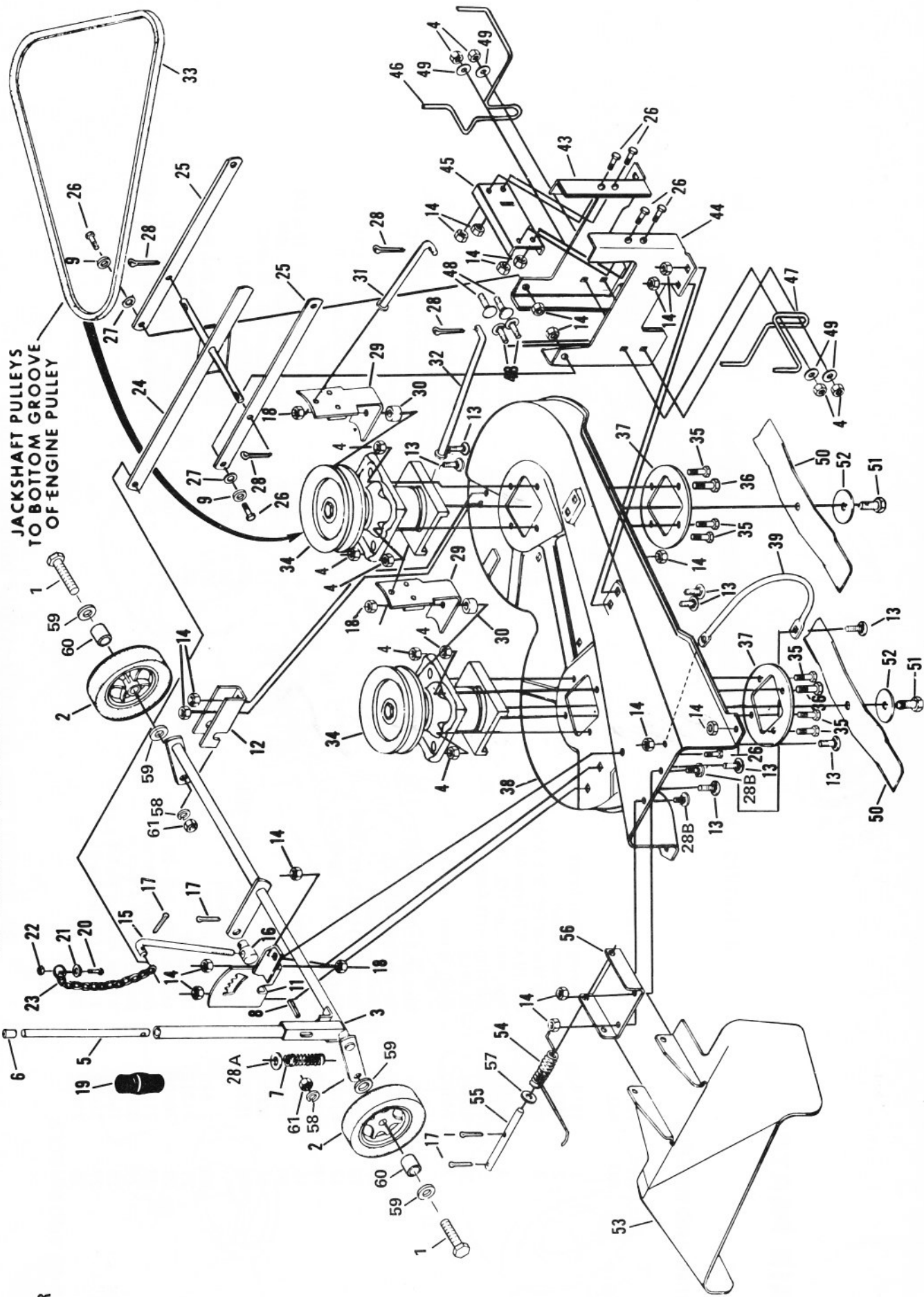
STEERING AND WHEELS

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	1114J	Steering Wheel Insert	29	65139	Valve Stem
2	506J	Steering Wheel	30	59192	Valve Cap
3	5614P	Hex Washer Hd. Sht. Metal Screw No. 10 x 1/2 Type AB	31	66414	Square Key 3/16 x 2
4	588P	*Nut, Hex Jam 1/2 - 20 UNF	32	794191A	Transaxle Assembly Model 143.658A (See Pages 24 and 25)
5	677A208	Steering Shaft Assembly	33	55862	Knob - Transmission
6	1554J	Bushing	34	677A91	Rocker Bar Assembly
7	74580	Shaft Spacer	35	3385P	Bolt, Hex Head 1/2 - 13 x 3
9	1618P	Washer, 21/32 x 1 - 1/4 x 13 Ga.	36	1613P	Washer, 17/32 x 7/8 x 16 Ga.
10	52379	Spring Pin 3/16 x 1	37	581P	Nut, Lock 1/2 - 13 UNC
11	74577	Steering Bracket	38	67151	Bushing
12	3010P	*Bolt, Hex Head 5/16 - 18 x 3/4	39	71188	Pivot Spacer
13	575P	Nut, Lock 5/16 - 18 UNC	40	73236	Kingpin Assembly - L.H.
14	71172	Gear	41	73237	Kingpin Assembly - R.H.
15	1528J	Steering Rod	42	73240	Tie Rod
16	71208	Bushing	44	3021P	*Bolt, Hex Head 3/8 - 16 x 3/4
17	5000P	E-Ring	46	582P	Nut, Lock 5/16 - 24 UNF
18	1618P	Washer, 21/32 x 1 - 1/4 x 13 Ga. (0 - 2 As Needed)	48	579P	Nut, Lock 3/8 - 16 UNC
20	73446	Drive - Lock Pin	49	71651	Tire (15 x 6.00 x 6)
21	71219	Drag Link	50	625J	Bearing
22	7810H	Locknut, Hex 3/8 - 24 UNF	51	620J	Rim Ass'y. (Inc. Ref. No. 50)
23	71185	Steering Arm Assembly	52	3023P	Bolt, Hex 3/8 - 16 x 1
24	62079	Spring Pin 1/4 x 1 - 1/4	53	1622P	Washer 13/32 x 7/8 x 7 Ga.
26	1552P	Washer 25/32 x 1 - 1/4 x 16 Ga.			
27	71653	Tire (18.00 - 9.50 x 8)			
28	71652	Rim			

* STANDARD HARDWARE--PURCHASE LOCALLY

REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR



MOWER

REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

MOWER

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	3199P	Hex Bolt 3/8 - 24 x 2 - 3/4 Gr. 5	29	677A46	Brake Assembly
2	9536H	Gauge Wheel	30	71522	Spacer, Brake Spring
3	677A134	Pivot Rod Assembly	31	71525	Brake Rod - L.H.
4	545P	Nut, Lock 3/8 - 16 UNC	32	71524	Brake Rod - R.H.
5	1663J	Rod - Plunger	33	62828	Belt
6	9479R	Cap - Lever Plunger	34	677A181	Jackshaft Assembly
7	71669	Spring	35	3023P	*Bolt, Hex Head 3/8 - 16 x 1
8	8540R	Pin - Drive Lock	36	3329P	*Bolt, Hex Head 3/8 - 16 x 1 - 1/2
9	1599P	Washer, 11/32 x 3/4 x 16 Ga.	37	71575	Plate
11	72937	Quadrant Assembly	38	677A88	Housing w/Silk Screening
12	67337	Pivot Rod Support	39	71647	Housing Skid
13	73P	Bolt, Carriage 5/16 - 18 x 5/8 Gr. 5	43	71276	Housing Bracket - L.H.
14	575P	Nut, Lock 5/16 - 18 UNC	44	71277	Housing Bracket - R.H.
15	71300	Adjustment Rod	45	71278	Channel
16	71301	Trunion	46	71298	Belt Keeper - L.H.
17	2503P	*Cotter Pin 3/32 x 3/4	47	71299	Belt Keeper - R.H.
18	591P	Locknut W/Washer 3/8 - 16 UNC	48	20P	*Bolt, Carriage 3/8 - 16 x 1
19	1747J	Grip	49	1614P	Washer, 13/32 x 7/8 x 13 Ga.
20	3224P	*Screw, Pan Hd. Machine 1/4 - 20 x 1	50	71285	Blade
21	1575P	Washer, 9/32 x 1 x 16 Ga.	51	6065P	Screw, Hex Head w/Washer - Nylon Patch 3/8 - 24 x 7/8 Gr. 5
22	574P	Nut, Hex Lock 1/4 - 20 UNC	52	67354	Washer, 25/64 x 2 - 3/8 x 5/32
23	74014	Sway Chain	53	677A89	Deflector
24	72915	Parallel Rod Assembly	54	71526	Deflector Spring
25	71297	Parallel Link	55	71555	Hinge Rod
26	3010P	*Bolt, Hex Head 5/16 - 18 x 3/4	56	71528	Bracket-Deflector
27	71616	Spacer	57	1623P	Washer 11/32 x 7/8 x 16 Ga.
28	2506P	*Cotter Pin 1/8 x 1	58	1004P	Lockwasher 3/8
28A	1615P	Washer, 15/32 x 3/4 x 16 Ga.	59	1513P	Washer 13/32 x 13/16 x 16 Ga.
28B	5P	*Bolt, Carriage Sh. Shoulder 5/16 - 18 x 3/4	60	7375H	Bushing
			61	515P	Hex Nut 3/8 - 24 UNF

*STANDARD HARDWARE--PURCHASE LOCALLY

**ALL TRANSAXLE PARTS MUST
BE PURCHASED THROUGH AND
SERVICE PERFORMED BY YOUR
LOCAL TECUMSEH DEALER.**



REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR
TRANSAXLE NO. 794191A--MODEL NUMBER 143.658A

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	794191A	Complete Transaxle	45	778057	Gear, Bevel (33 Teeth)
2	770063	Case Ass'y., Transaxle (Inc. No's. 2, 3 & 5)	46	776138	Shaft, Shifter & Brake
3	780086	Bearing, Needle	47	778058	Gear, Shifting (2nd & 3rd)
4	780059	Bearing, Bronze	48	778059	Gear, Shifting (1st & Rev.)
5	780060	Bearing, Bronze	49	778060	Gear, Spur (12 Teeth)
6	780061	Bearing, Bronze	50	778140	Gear, Countershaft Drive (39 Teeth)
7	780062	Plate Ass'y., Center (Inc. No's. 4 & 7)	51	778141	Gear, Countershaft (34 Teeth)
8	786033	Bearing, Bronze	52	778142	Gear, Countershaft (25 Teeth)
9	772042	Cover Ass'y., Transaxle (Inc. No's. 3 & 9)	54	778064	Gear, Reverse Idler
10	780063	Bearing, Needle	55	776057	Shaft, Reverse Idler
11	780064	Gear Ass'y., Differential (Inc. No. 11)	56	786036	Spacer, Reverse Idler
12	774221	Bearing, Bronze	57	784087	Stop, Shifter
13	774220	Axle, Left Hand	58	788033	Gasket, Case & Cover
14	778067	Axle, Right Hand	59	788003	Gasket, Shift Lever Housing
15	778068	Gear, Bevel	60	786079	Spacer
16	786034	Pinion, Bevel	61	786078	Spacer
17	780065	Pin, Drive	63	780071	Bearing, Thrust
18	780001	Washer, Thrust	64	780072	Washer, Thrust
19	788038	Washer, Thrust	65	780073	Washer, Thrust
20	792040	Ring, Snap	66	780093	Bearing, Ball
21	786080	Pin, Roll	67	792035	Bearing, Snap
22	780066	Sleeve Ass'y., Countershaft (Inc. 2 of No. 22)	68	786026	Pin, Dowel
23	776090	Bearing, Bronze	69	788043	Seal, Oil
25	784079	Shaft, Idler	70	788009	Seal, Oil
26	784004	Rod Ass'y., Shift (1st & Rev.) (Inc. No's. 26 thru 30)	71	792036	Seal, Oil
27	784083	Fork, Shift	72	792007	Screw, Flanged Hex Hd. 1/4 - 20 x 1 - 1/4
28	792003	Rod, Shift	73	792037	Screw, Socket Hd. Cap. 1/4 - 20 x 3/4
29	792004	Spring	75	792039	Screw, Hex Hd., Sems 5/16 - 18 x 1
30	792017	Rod, Steel	76	776103	Plug, Pipe 1/8"
31	784084	Ball, Steel	77	778077	Shaft, Input
32	784085	Ring, Snap	78	788040	Pinion, Input
34	784088	Rod Ass'y., Shift (2nd & 3rd) (Inc. No's. 26, 28, 29, 30 & 32)	79	790006	Ring, Retaining
35	784094	Rod, Shift	80	790007	Pad, Brake
36	784284	Housing, Shift Lever	81	790005	Plate, Brake Pad
37	792016	Keeper, Shift Lever	82	790004	Holder, Brake Pad
38	792001	Lever, Shift	83	792076	Lever, Brake
39	792049	Ring, Snap	84	792075	Washer, Flat
42	782036A	Ring, Quad	85	792073	Nut, Lock
42A	782043	Pin, Drive	85A	792085	Screw, Hex Hd. Cap. 1/4 - 20 x 1 - 1/4
43	530105	Housing Ass'y., Axle (Inc. No's. 43 & 43A)	86	790009	Thrd. Forming
43A	788042	Housing Ass'y., Axle (Inc. No's. 43 & 43A)	87	792045	Thrd. Forming
44	778024	Bearing, Needle	88	786066	Disk, Brake
		Seal, Oil			Key, Woodruff No. 61
		Gear (16 Teeth)			Spacer

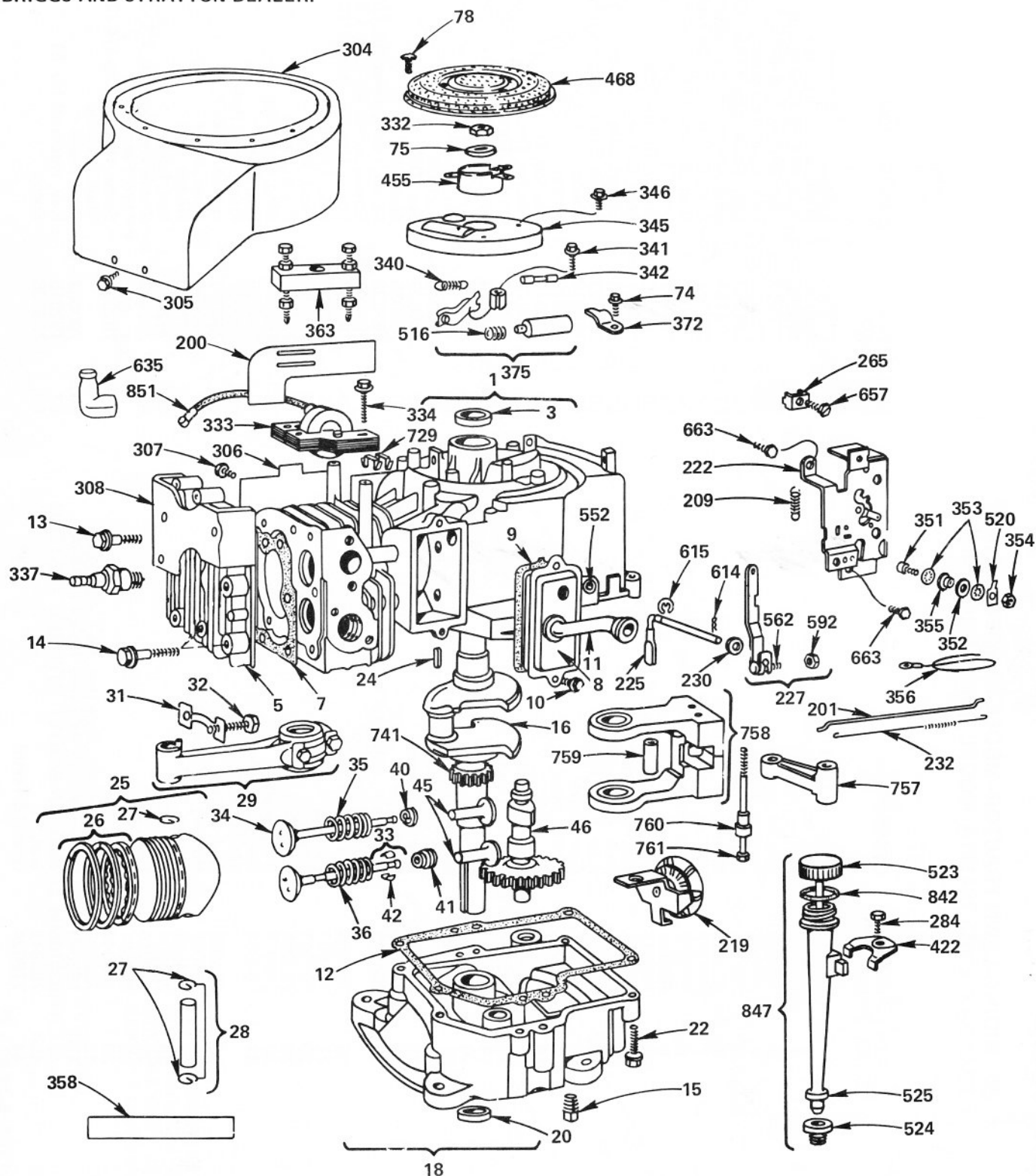
REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

BRIGGS & STRATTON 8 H.P. ENGINE--MODEL NO. 191707, TYPE NO. 5627-01

CYLINDER, CRANKSHAFT AND ENGINE BASE GROUP

ALL ENGINE PARTS MUST BE PURCHASED THROUGH AND SERVICE PERFORMED BY YOUR LOCAL BRIGGS AND STRATTON DEALER.



REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR BRIGGS & STRATTON 8 H.P. ENGINE--MODEL NO. 191707, TYPE NO. 5627-01

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	392005	Cylinder Assembly (Inc. Key No. 3)	227	391733	Lever Assy. - Governor (For 1/4" Dia. Crank)
2	391726	Bushing - Cylinder			
3	294606	Seal - Oil			
5	212286	Head - Cylinder	230	222450	Washer - Gov. Lever (1/4" I.D.)
7	270430	Gasket - Cylinder	232	260584	Spring - Governor Link
8	391406	Breather Tube Assembly	265	221535	Clamp - Casing
9	27803	Gasket - Valve Cover	284	93804	Screw - Clamp Mtg.
10	93536	Screw - Sem	304	391379	Housing - Blower
11	280005	Tube - Breather	305	93158	Screw - Blower Housing Mounting Sem
12	27750	*Gasket - Crankcase Cover - 1/64" Thick	306	222830	Shield - Cylinder
12	27876	*Gasket - Crankcase Cover - .005" Thick	307	93163	Screw, Cylinder Shield Mtg. Sem
12	27877	*Gasket - Crankcase Cover - .009" Thick	308	222636	Cover, Cylinder Head
13	93211	Screw - Cylinder Head (2 - 21/32" Long)	332	92284	Nut, Flywheel
14	93723	Screw - Cylinder Head (3" Long)	333	298968	Armature Assembly
15	91084	Plug, Oil Drain	334	93381	Screw, Armature Mounting Sem
16	391757	Crankshaft	337	293918	Plug, Spark (1 - 1/2" High - 38 M.M. Resistor)
18	298616	Sump - Oil (Inc. Key No's. 12 & 20)			NOTE: Ignition Cable Terminal No. 221798
20	298423	Seal - Oil	340	26018	Spring - Breaker Arm
22	93585	Screw - Sump	341	93381	Screw - Breaker Arm Mounting Sem
24	61760	Key - Flywheel	342	65704	Plunger - Breaker Point
25	391673	Piston Assy. - Std.	345	222117	Cover - Breaker Point
25	391674	Piston Assy. - .010" O.S.	346	93705	Screw - Sem
25	391675	Piston Assy. - .020" O.S.	351	91920	Screw - Terminal
25	391676	Piston Assy. - .030" O.S.	352	66068	Washer - Insulating
26	391669	Ring Set - Piston - Std.	353	92791	Washer - Lock Shakeproof
26	299743	Ring Set - Piston - Std. Chrome	354	90576	Nut - Hex 8 - 32
26	391670	Ring Set - Piston - .010" O.S.	355	66554	Collar - Insulating
26	391671	Ring Set - Piston - .020" O.S.	356	299500	Wire - Ground
26	391672	Ring Set - Piston - .030" O.S.	358	299577	Gasket Set
27	68546	Lock - Piston Pin	363	19165	Puller - Flywheel
28	295840	Pin Assembly - Piston - Standard	372	220477	Clamp - Condenser
28	295841	Pin Assembly - Piston - .005" O.S.	375	294628	Breaker Points and Condenser Set
29	390402	Rod Assy. - Connecting			NOTE: 299061 Ignition Kit Includes 294628 Point Set, 65704 Plunger, 61760 Key - Flywheel
		NOTE: For Connecting Rod with .020" Undersize Crankpin Bore - Order No. 390773	422	222502	Clamp - Oil Filler Tube
31	222114	Lock - Connecting Rod Screw	455	222561	Cup - Screen Mounting
32	92659	Screw - Connecting Rod	468	222562	Screen - Flush Rotating
33	390419	Valve - Exhaust	516	260374	Spring - Connector
34	261055	Valve - Intake	520	93722	Terminal Spade
35	65906	Spring - Intake Valve	523	391840	Cap and Dipstick - Oil Filler
36	26828	Spring - Exhaust Valve	524	68838	Seal - Filler Tube
40	221596	Retainer - Intake Valve	525	280133	Tube - Oil Filler
41	292260	Rotocoil - Exhaust Valve	552	231055	Bushing - Gov. Crank (1/4" I.D.)
42	93630	Retainer - Exhaust Valve Rotocoil	562	92613	Bolt - Governor Lever
45	260933	Tappet - Valve	592	231082	Nut, Hex 10 - 24
46	211689	Gear - Cam	614	93306	Cotter - Hair Pin
74	93042	Screw - Sems	615	93307	Retainer - E-Ring
75	220865	Washer - Spring	635	66538	Elbow - Spark Plug
78	93805	Screw - Sem	657	93496	Screw - Sem
200	221760	Guide - Air	663	93572	Screw
201	260971	Link - Governor	729	221907	Clip - Wire
209	261306	Spring - Governor	741	261195	Gear - Timing
219	392718	Oil Slinger - Gov. Gear and Bracket Assembly	757	212359	Link - Counterweight
			758	390172	Counterweight Assy.
			759	298909	Pin - Counterweight
			760	230940	Spacer - Counterweight
			761	93874	Screw - Counterweight
222	390662	Plate - Gov. Control	842	270920	Seal - Filler Cap
225	231058	Crank - Gov. (1/4" Dia.)	847	392066	Filler Group - Oil
			851	221798	Terminal - Ignition Cable

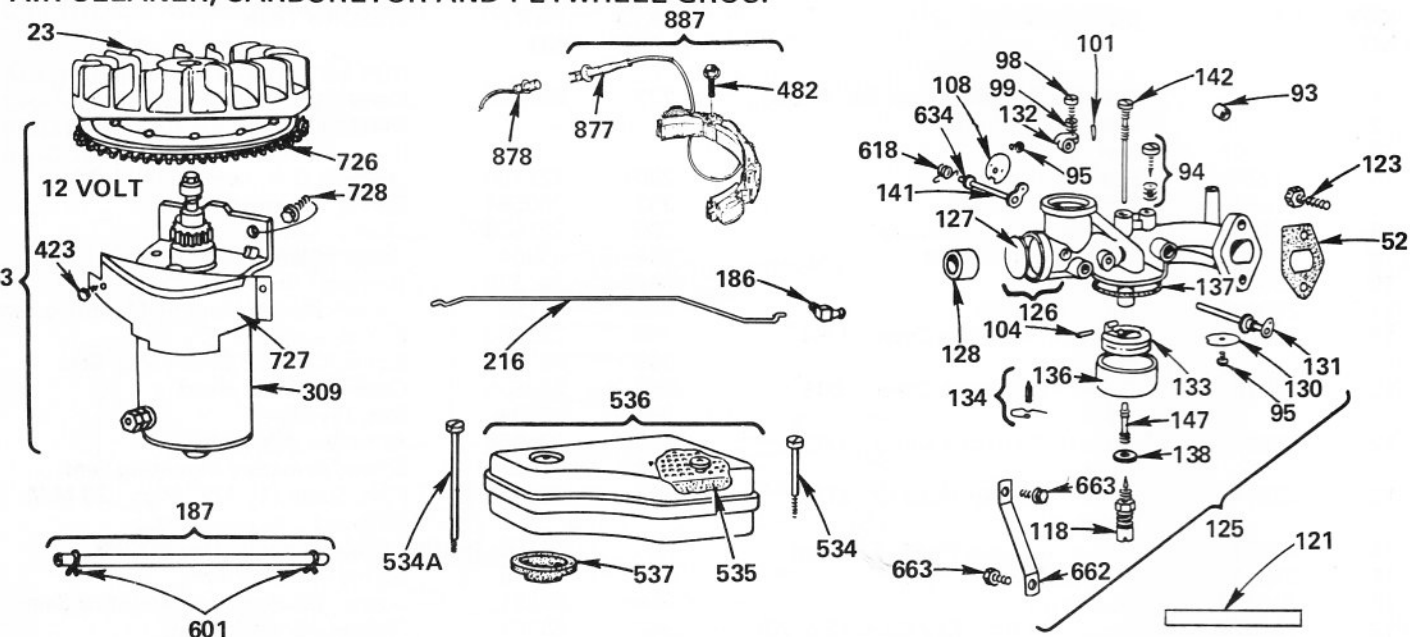
*INCLUDED IN GASKET SET - PART NO. 299577

REPAIR PARTS

36" RIDING LAWN TRACTOR--MODEL NUMBER L8218CR

BRIGGS & STRATTON 8 H.P. ENGINE--MODEL NO. 191707, TYPE NO. 5627-01

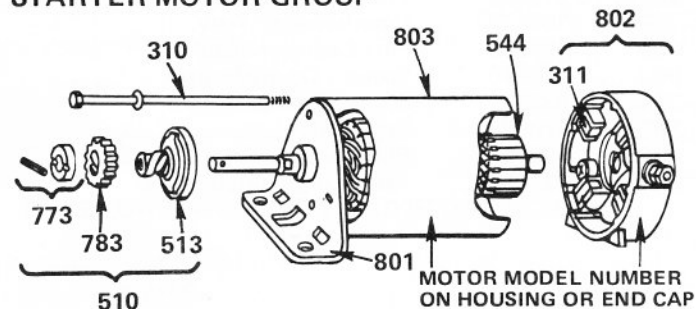
AIR CLEANER, CARBURETOR AND FLYWHEEL GROUP



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
23	391983	Flywheel and Ring Gear Ass'y. - Magneto	216	261117	Link Choke
52	270824	Gasket - Carburetor Mounting	309	392749	Motor and Drive Ass'y. (See Break-down of Parts Below)
93	23108	Bushing - Throttle Shaft	423	93410	Screw - Sem
94	292681	* Valve Assembly - Carburetor Idle			
95	93499	Screw - Throttle and Choke Valve Mtg. Sem			
98	91920	Screw - Machine Fill. Hd. 8 - 32 x 5/8"	482	93621	Screw - Sem
99	26157	Spring - Throttle Adjustment			
101	93043	Pin - Throttle Stop			
104	230896	* Pin - Float Hinge	534	93622	Screw - Air Cleaner
108	222010	Valve Choke	534A	93323	Screw - Air Cleaner
118	391233	* Valve Needle	535	270528	Element - Air Cleaner
121	299852	Carburetor Overhaul Kit	536	391399	Cleaner Assembly - Air
123	93357	Screw - Carburetor Mtg.			Uses 280111 Support - Air Cleaner Element (Plastic)
125	390811	Carburetor Assembly	537	270539	Gasket - Air Cleaner
126	299851	Body Assembly - Carburetor	601	93053	Clamp - Fuel Pipe
127	221997	* Plug - Welch	618	261116	Spring - Choke Return
128	211682	Venturi - Carburetor	634	270382	Washer - Choke Shaft
130	221986	Valve - Throttle	662	222027	Bracket - Carburetor
131	391512	Shaft and Lever - Throttle	663	93572	Screw
132	211712	Stop - Throttle	726	392134	Gear - Ring
133	299707	Float - Carburetor	727	390233	Cover and Shield - Starter
134	299096	* Valve - Fuel Inlet	728	93523	Screw - Sem
136	221995	Bowl - Float	877	393814	Diode & Conn. Assembly
137	270511	* Gasket - Float Bowl	878	393422	Alt. Harness Assembly
138	222014	* Washer - Float Bowl	887	391529	Stator-Alternator
141	390684	Shaft and Lever - Choke			
142	299740	* Nozzle - Carburetor			
147	230932	* Screw - Nozzle			
186	67218	Connector - Fuel Pipe			
187	296004	Pipe - Fuel			

* Included in Carburetor Overhaul Kit - Part No. 299852

STARTER MOTOR GROUP



KEY NO.	PART NO.	DESCRIPTION
310	391706	Thru Bolt Ass'y.
311	391705	Brush Ass'y.
510	391461	** Drive Ass'y.
544	392747	Armature Ass'y.
801	391751	End Cap Ass'y. Drive
802	390846	* End Cap Ass'y. Commutator
803	392744	Housing Ass'y.

* Includes Brush Set

** Includes No. 391135 Clutch Ass'y. (Key No. 513)
No. 280104 Gear (Key No. 783)
No. 391462 Retainer and Pin (Key No. 773)

Superseding Warranty

BRIGGS & STRATTON ENGINE WARRANTY POLICY

effective October 1, 1976

**Replaces all undated previous Warranties and all Warranties
dated before October 1, 1976**

When warranty repair is justified, Briggs & Stratton Corporation welcomes such repair by any of its Authorized Service Centers.

In most instances, the requests for warranty brought to the attention of our service accounts are handled in a prompt routine manner with no question regarding their validity. However, some requests for warranty are received which are not justified. In these cases, engine owners may not be aware that the premature failure of their engine was the result of abuse or neglect, or that the difficulty which they experience is caused by the equipment rather than the engine.

BRIGGS & STRATTON WARRANTY covers only DEFECTIVE MATERIAL and/or WORKMANSHIP.

ONE YEAR LIMITED WARRANTY

"For one year from date of purchase, Briggs & Stratton Corporation will replace for the original purchasers, free of charge, any part, or parts of the engine, found upon examination by any Factory Authorized Service Center, or by the Factory at Milwaukee, Wisconsin, to be defective in material or workmanship or both; this is the exclusive remedy. All transportation charges on parts submitted for replacement under this warranty must be borne by purchaser. For warranty service contact your nearest Authorized Service Center as listed in the 'Yellow Pages' under 'Engines, Gasoline' or 'Gasoline Engines.' THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO ONE YEAR FROM PURCHASE AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state."

Briggs & Stratton Corporation

F.P. Stratton, Jr.

F.P. Stratton, Jr.
President and Chief Executive Officer

NO REGISTRATION (WARRANTY) CARD IS NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON ENGINES. FILL IN THE REQUIRED INFORMATION AND RETAIN FOR YOUR RECORD:

(See Decal on Blower Housing for Model, Type and Code Number)

Engine Model No. _____ Type No. _____ Code No. _____

Dealer Purchased From _____ Date _____

Type of Equipment _____

Name or Trademark of Equipment Manufacturer _____

If warranty service is needed contact your nearest Authorized Service Center. For prompt attention your center will need to know the engine model, type and code number, the trouble experienced and the total number of hours the engine has run. If you differ with the decision of a Service Center on a warranty claim, ask the Service Center to submit all supporting facts to the Factory for review. If the Factory decides that your claim is justified, you will be fully reimbursed for those items accepted as defective.

BRIGGS & STRATTON ENGINE WARRANTY POLICY

To avoid misunderstandings which might occur between engine owners and authorized Briggs & Stratton service accounts, we are listing causes of engine failures, where repair or replacement is NOT covered by Briggs & Stratton warranty.

NORMAL WEAR

Warranty will not cover repair where normal use has exhausted the life of a part or engine. Engines, like all mechanical devices, need periodic parts replacement and service to perform well. It should be remembered that the service life of any engine is dependent on the care it receives and the conditions under which it has to operate. Some applications, such as tillers, trash pumps, rotary mowers, are very often used in dusty or dirty conditions, which can cause what appears to be premature wear. Such wear, when caused by dirt, dust, carbon, spark plug cleaning grit, or other abrasive material entering the engine, is not covered by Warranty.

ABUSE OR NEGLECT

1. Bent or broken crankshafts: Such damage is normally the result of abuse, such as striking a solid object with the cutter blade on a rotary lawn mower, and is not covered by Warranty.
2. Engine repairs required from the use of old or stale fuel are not covered by Warranty. Such failures would include sticking valves, and carburetors and fuel pipes which are clogged by gum deposits which form through the use of stale fuel. Always use clean fresh regular gasoline.
3. Parts which are scored or broken because an engine was operated without sufficient lubricating oil or the proper grade of lubricating oil are not covered by Warranty. Check oil level at least every five hours and refill when necessary. Change oil at recommended intervals.
4. Damage caused by overheating or overspeeding is not covered by Warranty. Overspeeding or overheating occurs if the cooling fins become plugged with dirt, grass or debris, or if an engine is operated in a confined area without sufficient ventilation. Clean fins on the cylinder, cylinder head and flywheel regularly.
5. Damage or wear caused by dirt which enters the engine because of improper air cleaner maintenance is not covered by Warranty. Clean and re-oil the air cleaner regularly.
6. Damage or wear caused by grit from blast cleaning spark plugs is not covered by Warranty. We do not approve of cleaning spark plugs on an abrasive blast cleaning machine, since grit can remain in the plug, and later enter the engine.
7. Warranty does not cover the tune-up or adjustment of an engine unless the need for such repair is the result of defects in material or workmanship or both. If equipment is assembled and adjusted by the owner, the engine Operating and Maintenance Instructions are sufficiently clear to permit the average owner to make minor adjustments. Such minor adjustments are NOT covered by Warranty.
8. Broken parts, which result from excessive vibration caused by loose engine mounting, loose cutter blades, blade unbalance, improperly attaching equipment to engine crankshaft, overspeeding or abuse in operation, are not covered by Warranty.
9. Repair or adjustment of associated parts or assemblies such as clutches, transmissions, remote controls, etc., which are not of Briggs & Stratton manufacture will not be covered by Briggs & Stratton Warranty.
10. Only ORIGINAL Briggs & Stratton parts, or parts approved by Briggs & Stratton may be covered by Warranty.

WARRANTY IS AVAILABLE ONLY THROUGH SERVICE CENTERS WHICH HAVE BEEN AUTHORIZED BY THE BRIGGS & STRATTON CORPORATION. YOUR NEAREST SERVICE CENTER IS LISTED IN THE YELLOW PAGES OF YOUR TELEPHONE DIRECTORY, UNDER "ENGINES, GASOLINE" OR "GASOLINE ENGINES."