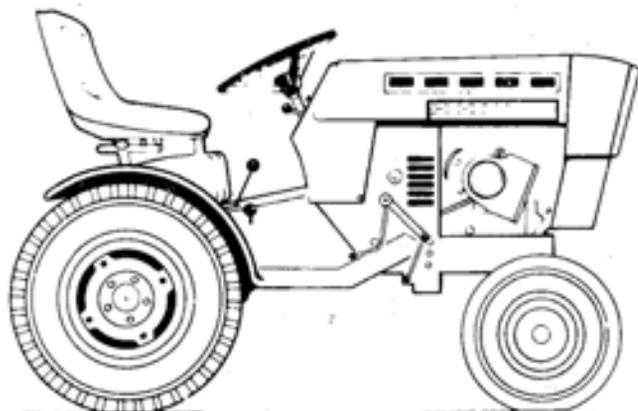


Sears

**MODEL NO.
917.608100**



OWNER'S MANUAL

**SS/16
GARDEN TRACTOR**

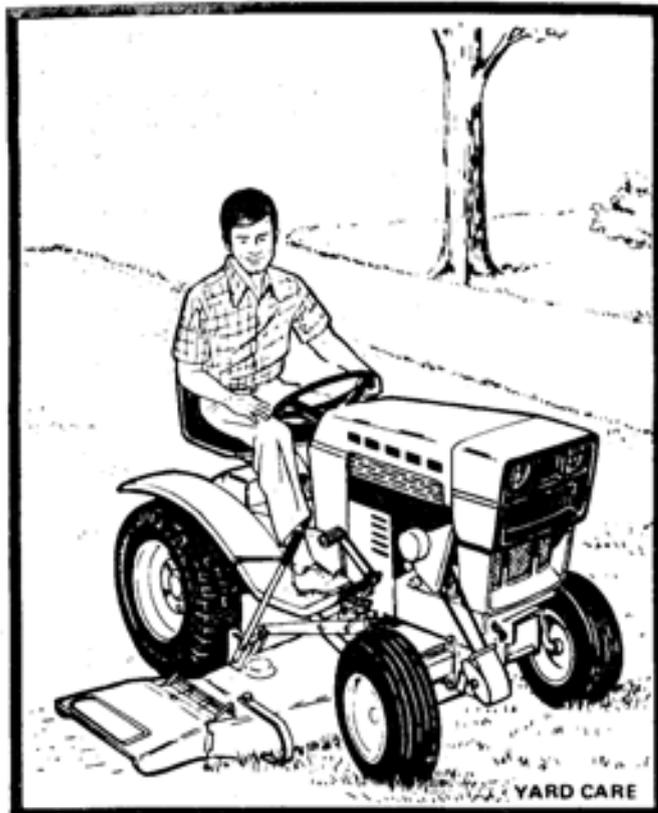
**Assembly
Maintenance**

**Operation
Repair Parts**



**IMPORTANT:
READ RULES FOR
SAFE OPERATION
AND INSTRUCTIONS
CAREFULLY**

Simpsons Sears Limited, Toronto, Canada



CONGRATULATIONS on your purchase of a Sears SS/16 Garden Tractor. It has been designed, engineered and manufactured to give you dependability and performance. Should you experience any problem you cannot easily remedy, please contact your nearest Simpsons-Sears Limited store. They have competent, well-trained technicians and the proper tools and parts to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble, operate and maintain your Tractor properly. Always observe the "RULES FOR SAFE OPERATION".

YOUR NEW SS/16 GARDEN TRACTOR FEATURES...

OPPOSED-PISTON, FOUR CYCLE, TWIN-CYLINDER 16 H.P. ENGINE--to run smoothly and quietly with plenty of power to take on a variety of yard, gardening or snow removal tasks.

SAFETY INTERLOCK SYSTEM--allows engine to start only when tractor Clutch-Brake Pedal is depressed and Attachment Clutch Lever is in "OFF" position.

ALL-GEAR TRANSMISSION--six speeds forward, two reverse speeds--to let you select the proper match for the terrain and the job. Auto-type differential helps guard against turf scuffing.

CONTROL PANEL--with Throttle, Choke, Light Switch, Ignition Switch, Ammeter and Electric Lift Switch for Three Point Hitch conveniently grouped for ease of use.

ATTACHMENT VERSATILITY--handles a large variety of Sears Yard and Garden Tractor Attachments including . . .
42 AND 48 INCH MOWERS with three "high-lift" blades to lift grass up for level cuts.

SELF POWERED ROTO TILLER prepares soil for new lawns and gardens with a 30 to 38 inch wide tilling path.
OTHER SOIL TILLAGE ATTACHMENTS including Plow, Disc Harrow, Drag Harrow and Cultivator.

SNOW BLOWER handles wet, heavy or powdery snow with ease.

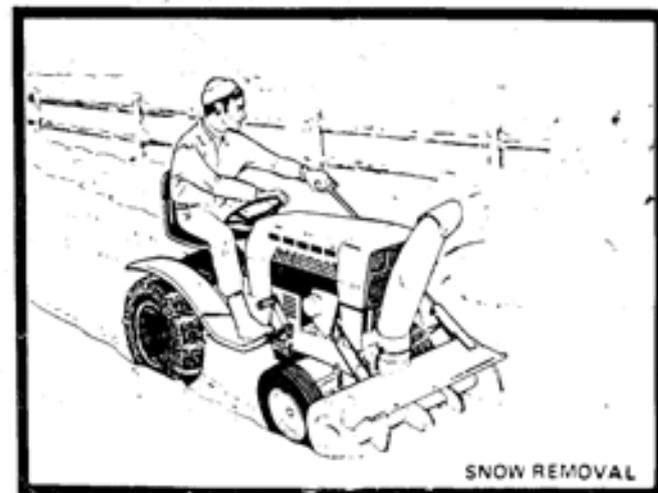


TABLE OF CONTENTS

WARRANTY	1	MAINTENANCE INSTRUCTIONS.	6
RULES FOR SAFE OPERATION	1	TROUBLE SHOOTING	11
ASSEMBLY INSTRUCTIONS	2	REPAIR PARTS	12
OPERATION INSTRUCTIONS	4		

ONE YEAR WARRANTY ON TRACTORS

For one year from the date of purchase, Sears will repair any defect in material or workmanship in the tractor, at no charge.

If the tractor is used for commercial or rental purposes, this warranty applies for only thirty days from date of purchase.

Service under this warranty is available by contacting the nearest Sears Store or Service Center throughout Canada.

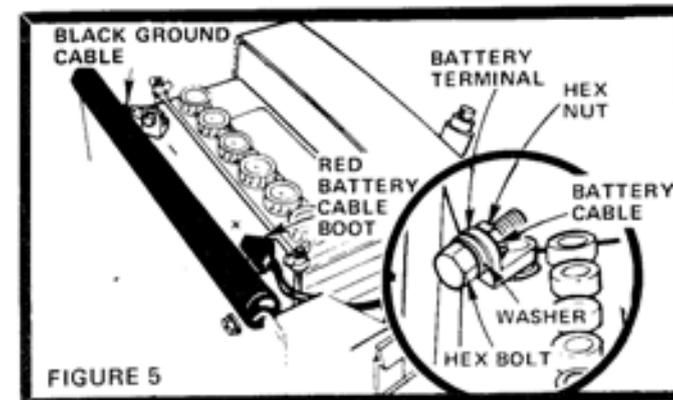
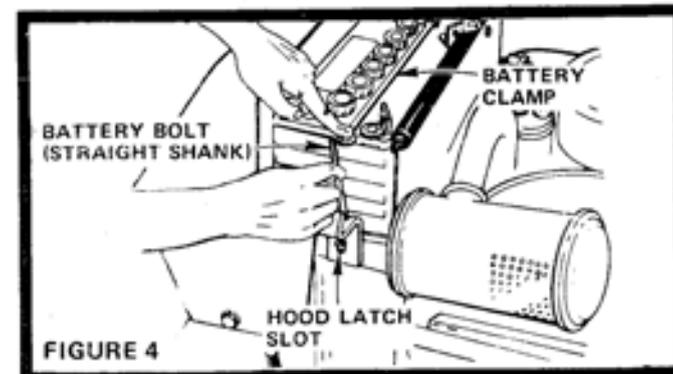
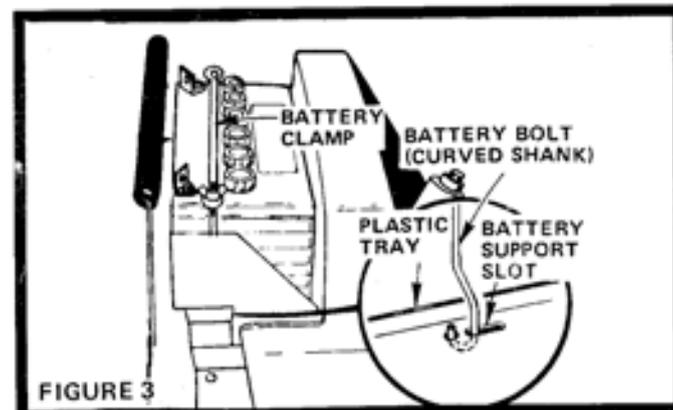
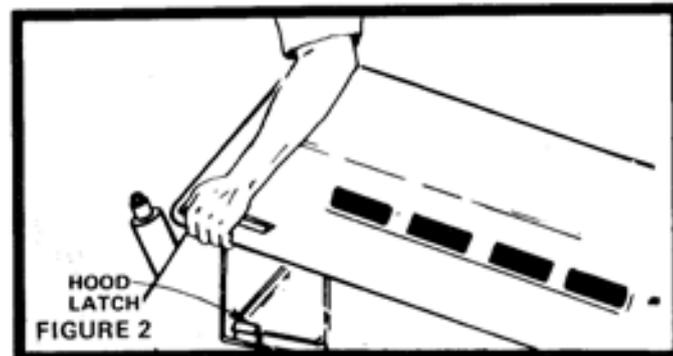
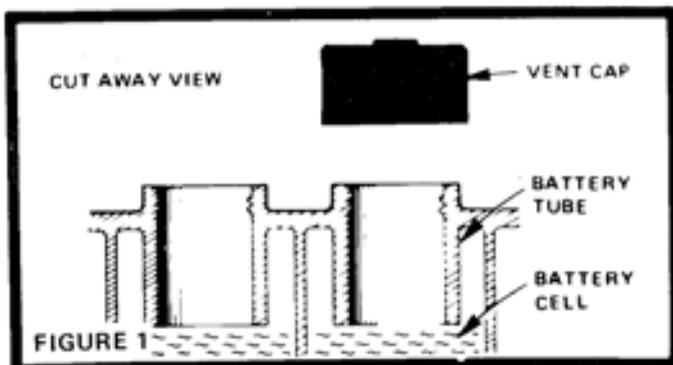
Simpsons-Sears Limited
Toronto, Ontario, Canada

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. Clear the work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start the engine.
6. Disengage power to attachments and stop the engine before leaving the operator's position.
7. Disengage power to attachments and stop the engine before making any repairs or adjustments.
8. Disengage power to attachments when transporting or not in use.
9. 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.
10. 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.
11. Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in the terrain and other hidden hazards.
13. 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.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the vehicle while in operation.
16. 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.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place.
18. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
19. 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.
20. To reduce fire hazard, keep the engine free of grass, leaves or excessive grease.
21. 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.
22. Do not change the engine governor settings or overspeed the engine.
23. 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.
24. Check the grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.



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



To assemble and adjust your Tractor you will need:

two 7/16", one 9/16" and one 3/4" Wrenches

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

ASSEMBLY

1. Remove Shipping Wires, Battery, Steering Wheel and Bag of Parts.
2. Filling and charging Battery (before installing) NOTE: SEE DETAILED INSTRUCTIONS PACKAGED WITH BATTERY.



WEAR EYE AND FACE SHIELD.

- a. 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.

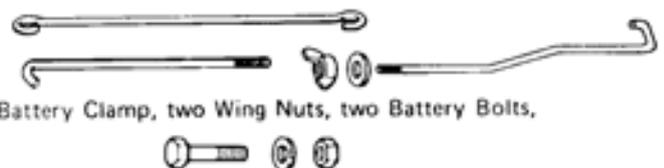
- b. Check level of electrolyte after 30 minutes. Add additional electrolyte if necessary. NOTE: Tighten Vent Caps securely.
- c. Charge Battery at a rate not exceeding three amperes for about two and one half hours.



DO NOT SMOKE. FUMES FROM CHARGED ELECTROLYTE ARE EXPLOSIVE.

- d. 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. Install Battery using:



Battery Clamp, two Wing Nuts, two Battery Bolts,

four Flat Washers, two Hex Bolts and two Hex Nuts found in Bag of Parts.

- a. Push down and slightly spread rear sides of Hood to release Hood Latches. Lift Hood from rear sides (Fig. 2).
- b. Remove tape from Plastic Tray. Position Plastic Tray so that drain hole in Tray is over round hole of Battery Support.
- c. Place Battery in Plastic Tray (Battery Terminals to front of Tractor) (Fig. 3).
- d. Hook the curved shank Battery Bolt into slot on the left side of Battery Support (Fig. 3). Fasten Battery Clamp to Battery Bolt with a Flat Washer and Wing Nut.
- e. Hook the straight shank Battery Bolt into slot in R.H. Hood Latch and fasten Battery Clamp with a Flat Washer and Wing Nut (Fig. 4). Tighten Wing Nuts securely.
- f. Place a Flat Washer over the end of a Hex Bolt. Secure RED Battery Cable to Positive (+) Battery Terminal with a Hex Bolt (Washer) and Hex Nut (Fig. 5). Tighten Nut securely. Place Boot over Terminal.



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

- g. Place remaining Flat Washer over the end of the remaining Hex Bolt. Secure BLACK Ground Cable to Negative (-) Battery Terminal with Hex Bolt (Washer) and Hex Nut (Fig. 5). Tighten Nut securely.

4. Install Steering Wheel using:



Flat Washer, Lockwasher, and Hex Bolt assembled on end of Steering Shaft.



Woodruff Key, and Steering Wheel Insert found in Bag of Parts.

- Remove Hex Bolt, Lockwasher and Flat Washer from Steering Shaft (Fig. 6).
- Insert Woodruff Key in Keyway of Steering Shaft and slide Steering Wheel over Shaft and Key. NOTE: BE SURE WOODRUFF KEY IS SECURE IN STEERING SHAFT.
- Fasten with Flat Washer, Lockwasher and Hex Bolt (Fig. 6). Tighten securely.
- Press Steering Wheel Insert in place.

INITIAL ADJUSTMENTS

- Reduce Tire pressure to 12 pounds in front and rear Tires. (Tires were overinflated for shipping purposes).
- Seat position may be adjusted forward or backward by loosening Nut in Seat Plate (Fig. 7). NOTE WHEN RE-TIGHTENING NUT AFTER ADJUSTMENT MAKE SURE SEAT PLATE HAS NOT TWISTED OUT OF ALIGNMENT WITH SEAT SPRING.
- A spark arrester muffler is available as an accessory part for your tractor. Check legal requirements in your area.

INITIAL SERVICE

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

- Check Engine Oil Level with Tractor on level ground. Wipe dipstick (Fig. 8) clean, push 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.
- Fuel Tank (Fig. 7) with fresh regular grade lead free or leaded gasoline. Capacity is 3 1/4 gallons. 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.

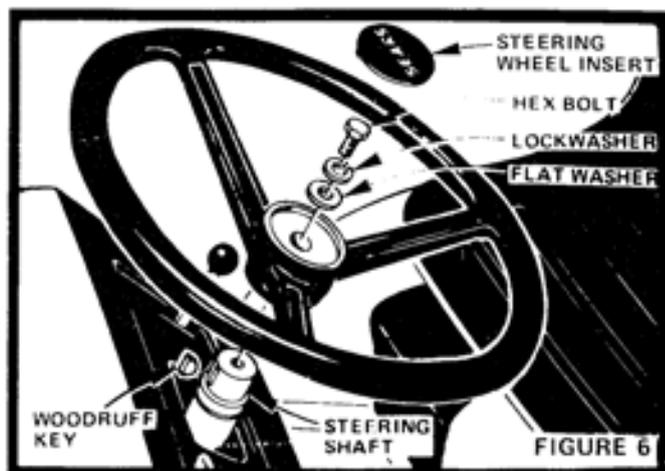


FIGURE 6

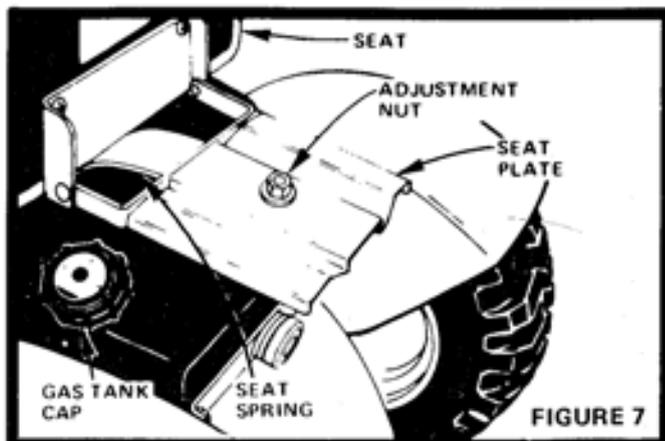


FIGURE 7

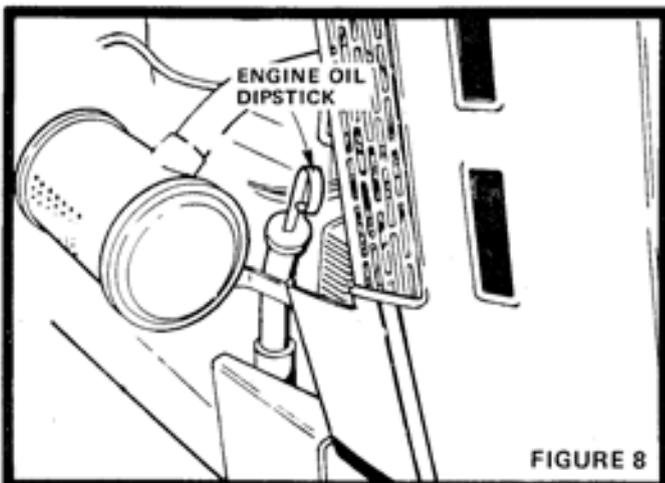


FIGURE 8

THIS TRACTOR IS EQUIPPED WITH SAFETY SWITCHES TO PREVENT STARTING OF THE TRACTOR ENGINE WHILE THE ATTACHMENT CLUTCH PEDAL IS IN THE "ON" POSITION (FIG. 10) AND THE CLUTCH BRAKE PEDAL IS IN DRIVE POSITION (FIG. 12).

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



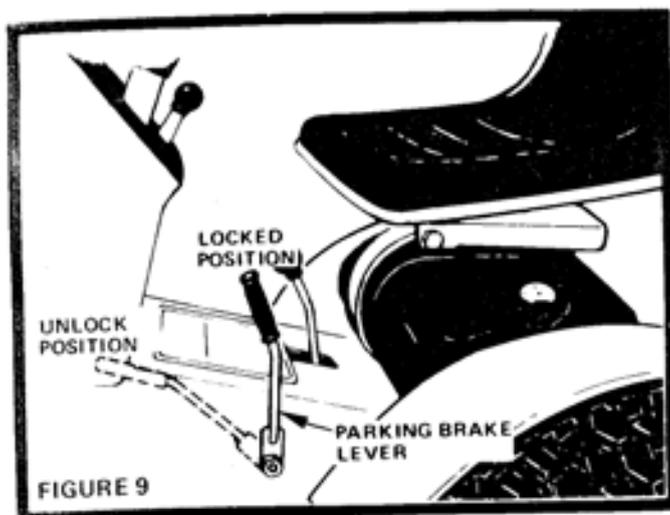


FIGURE 9

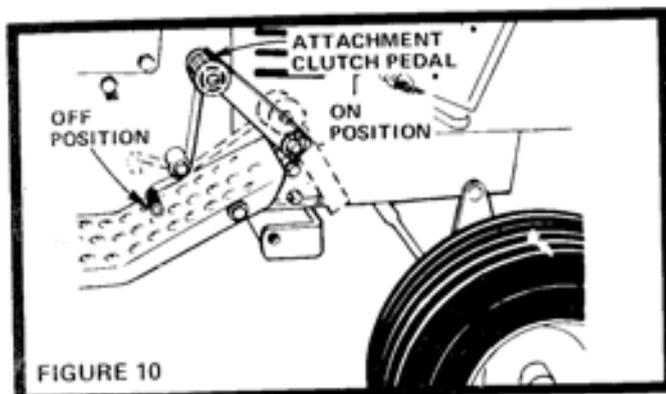


FIGURE 10

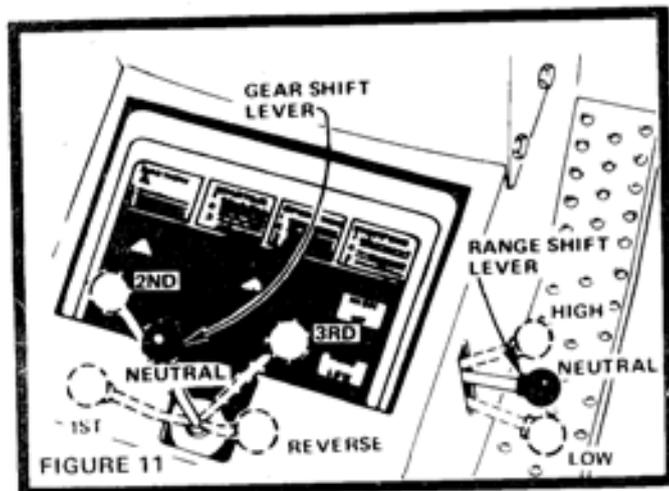


FIGURE 11

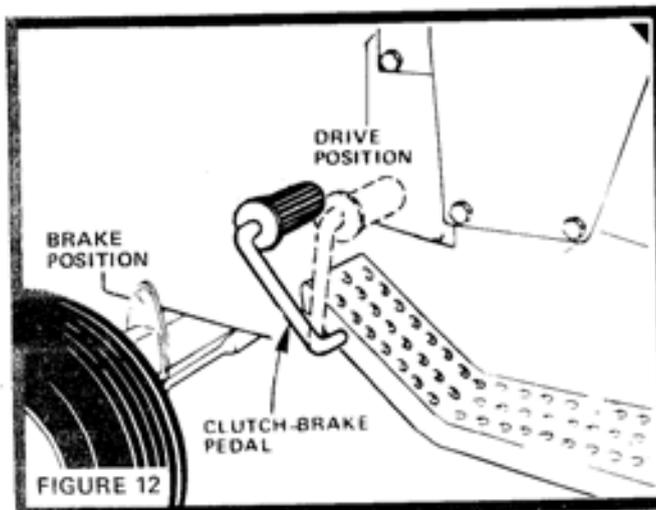


FIGURE 12

OPERATION

STARTING THE ENGINE

1. Place Parking Brake Lever in locked position (Fig. 9).
2. Place Attachment Clutch Pedal in "OFF" position (Fig. 10).
3. Place Gear Shift Lever in neutral "N" position (Fig. 11).
4. Move Range Shift Lever to "N" neutral position (Fig. 11).
5. Push Clutch-Brake Pedal into brake position (Fig. 12).
6. Move Throttle Control Lever to middle position (Fig. 13).
7. Pull Choke out (Fig. 13).
8. Turn Ignition Key to "START" position until Engine starts (Fig. 13). Release key into "ON" 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 "FAST" position, wait a few minutes, and try again.

NOTE: The Electric Lift Switch (Fig. 13) raises or lowers an attachment when used with an Electric Three Point Hitch (optional equipment).

WARMING UP THE ENGINE

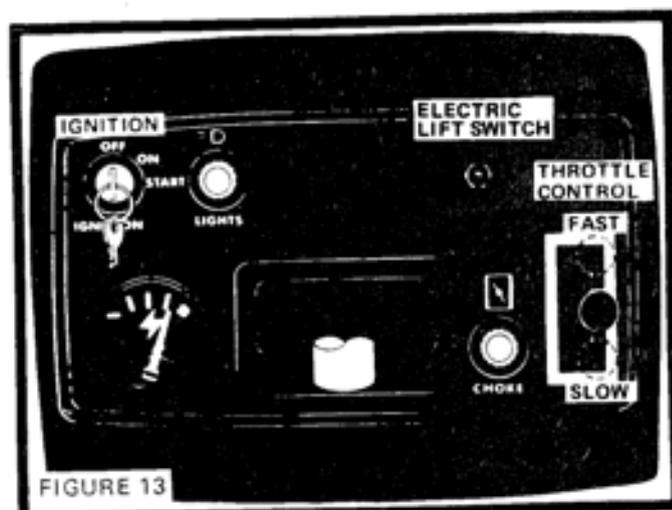
Move Throttle Control Lever to slow position. Push Choke in as engine warms. NOTE: ALLOW ENGINE TO WARM UP FOR A FEW MINUTES BEFORE OPERATING.

When restarting a warm engine, move Throttle Control Lever to middle position. Choke may not have to be used.

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



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



TRACTOR OPERATION

1. With engine running and warm, place Throttle Lever in middle position.
2. Push Clutch-Brake Pedal down to brake position.
3. Move Gear Shift Lever to "2ND" and Range Shift Lever to "LOW".
4. Unlock Parking Brake.
5. Release Clutch-Brake Pedal SLOWLY to start forward movement.
6. If ground travel is too slow move Throttle Lever to fast position or press Clutch-Brake pedal 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. Reduce Throttle Lever to "SLOW" position.
2. Push Clutch-Brake Pedal into Brake position.
3. Place Attachment Clutch Pedal in "OFF" position and lower attachment to the ground.
4. Move Gear Shift Lever to neutral "N".
5. Place Parking Brake in "LOCK" position.
6. Release Clutch-Brake Pedal.



MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.

7. Turn Ignition Key to "OFF" position.



REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE.

TRANSPORTING YOUR TRACTOR

For pushing or towing your tractor, place Gear Shift Lever and Range Shift Lever in "N" (Neutral) position (Fig. 1). **NOTE: DO NOT TOW YOUR TRACTOR FASTER THAN SIX MILES PER HOUR.**

TRACTOR OPERATION ON HILLS

1. Choose one of the lowest gears 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 shifting or stopping on hills.
 - a. If slowing is necessary, move Throttle Control to middle position.
 - b. If stopping is necessary, push Clutch-Brake Pedal quickly to brake position to prevent rolling.
 - c. Lock Parking Brake and shift to lowest speed range.
 - d. Partially release Clutch-Brake Pedal (until forward movement begins).
 - e. Unlock Parking Brake.
 - f. Completely release Clutch-Brake Pedal.
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 GASSES. KEEP SPARKS, FLAME, AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS SHIELD EYES AROUND BATTERIES.

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



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.

Each time you start your tractor, check your Ammeter (Fig. 14). The needle should move towards the + (charging) mark indicating the battery is being charged as you operate the tractor.



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

FIRST 2 HOURS:

1. CHECK V-BELT TENSION

A new V-Belt may stretch after the first few hours of operation. If Clutch-Brake Pedal, in drive position (Fig. 15), is considerably to the front or rear of the vertical position, the V-Belt is out of adjustment and must be re-tensioned.

- Secure Clutch-Brake pedal in brake position (relaxing V-Belt tension) by tying to front axle.
- Hold Nut on inside of Flat Idler and loosen Flat Idler Bolt.
- Move Flat Idler in frame slot 1/4 inch down (to tighten), up (to loosen) V-Belt tension. Tighten Bolt.
- Release Clutch-Brake Pedal. It should return to approximately vertical position.



CHECK TO MAKE SURE TRACTOR DOES NOT START WITHOUT FULLY DEPRESSING CLUTCH-BRAKE PEDAL.

NOTE: FOR LONGER V-BELT LIFE, ALWAYS KEEP BELT TENSIONED PROPERLY. START TRACTOR MOVEMENT WITH THROTTLE CONTROL IN MIDDLE POSITION, AND ALWAYS REPLACE WITH SIMPSON-SEARS V-BELTS.

2. 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.

- Drain Oil with Engine warm. Unscrew Oil Drain Cap (Fig. 16) and catch Oil in a suitable container. Replace Cap.
- Refill Engine Oil (Fig. 17). 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). Capacity is 3 - 1/2 pints. **NOTE: DO NOT OVER-FILL.**

FREQUENTLY:

1. CHECK BATTERY

- Electrolyte solution level in each Battery Cell should be even with bottoms of tubes in cells (Fig. 18). Add distilled water if necessary. **NOTE: DO NOT OVERFILL.**
- Keep Battery and Terminals clean. Refer to page 10.
- Keep Battery bolts tight.
- Keep Vent Caps tight and small Vent holes in caps open.
- Recharge **SLOWLY** at 3 amperes if specific gravity of electrolyte falls below 1.225.

2. CHECK TIRE PRESSURE

The pressure in front and rear Tires should be 12 pounds.

3. CLEAN AIR SCREEN

Air Screen (Fig. 21) must be kept free of dirt and chaff to prevent Engine damage from overheating.

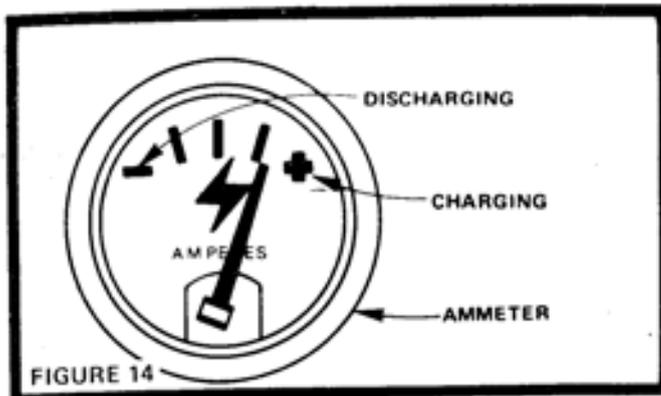


FIGURE 14

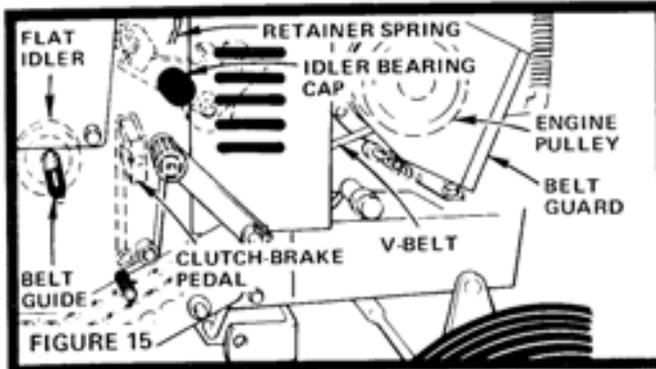


FIGURE 15

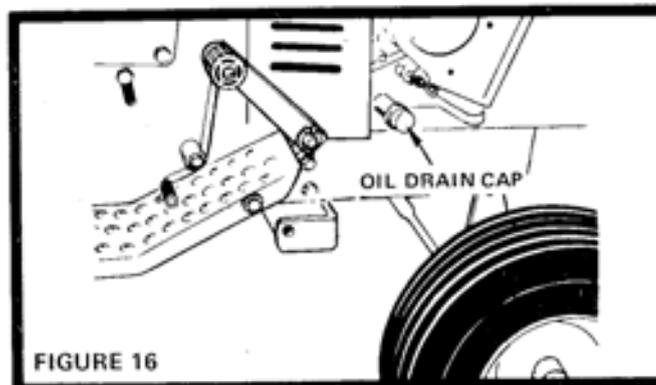


FIGURE 16

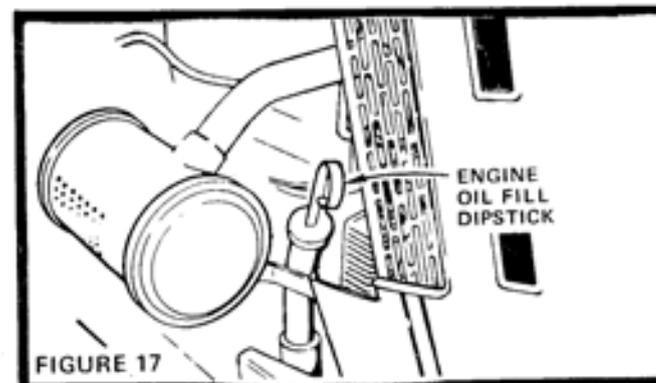


FIGURE 17

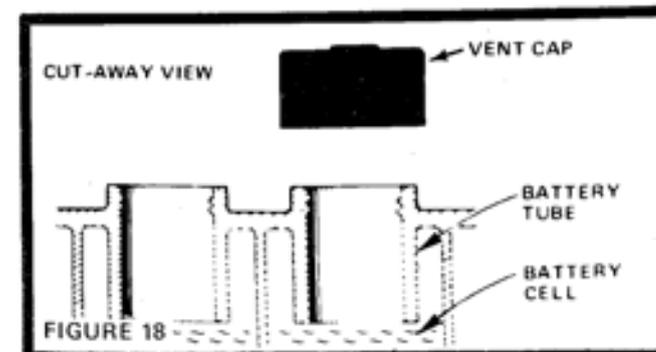


FIGURE 18

EVERY 5 HOURS:

1. 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 (Fig. 17) clean, push it down 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 OVER-FILL.

2. LUBRICATE STEERING AND FRONT WHEELS

There are six Grease Fittings on your Tractor (Fig. 19). Using a Grease Gun, give each Grease Fitting two shots of Extreme Pressure Lubricating Grease Amdex No. 1 (Available through your Simpsons-Sears store).

3. OIL PIVOT POINTS

Place several drops of SAE 30 Oil at points where parts move against each other, especially:

a. Idler Bearing (Fig. 15)

- Remove Idler Bearing Cap.
- Remove Retainer Spring from Idler Shaft.
- Move Idler and Shaft outward and lubricate exposed Shaft.
- Return Idler and Shaft to original position, replace Retainer Spring and reposition Cap.

b. Front Axle Pivot (Fig. 19)

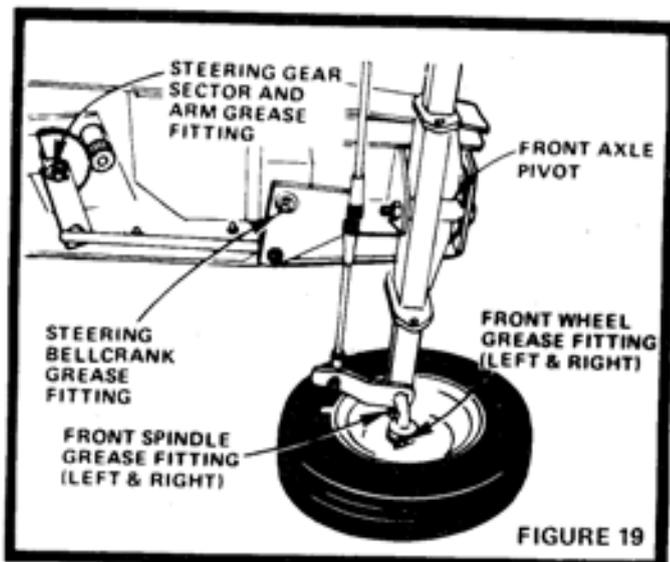


FIGURE 19

EVERY 25 HOURS: (EVERY 15 HOURS IF OPERATING IN VERY DUSTY CONDITIONS)

1. CLEAN PAPER CARTRIDGE AND FOAM PRE-CLEANER.

- a. Unscrew Wing Nut (Fig. 20) to remove Air Filter Cover, Paper Air Filter Element and Foam Pre-Cleaner.
- b. Clean dust from Paper Air Filter Element by gently tapping Element on a flat surface.
- c. Wash Foam Pre Cleaner in detergent and water.
- d. Rinse, squeeze (rather than twist) and allow to dry thoroughly.
- e. Coat with three tablespoons of S.A.E. 30 Engine Oil, knead to distribute evenly, and squeeze out excess.
- f. Check Paper Air Filter Element. Replace if excessively dirty.
- g. Re-Assemble Air Filter and re-position on Tractor. NOTE: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

2. CLEAN AIR SCREEN

Air Screen (Fig. 21) must allow free-flow of air to prevent Engine damage from overheating. Clean with a wire brush to remove dirt, chaff, stubborn dried gum and fibers.

3. 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 6.

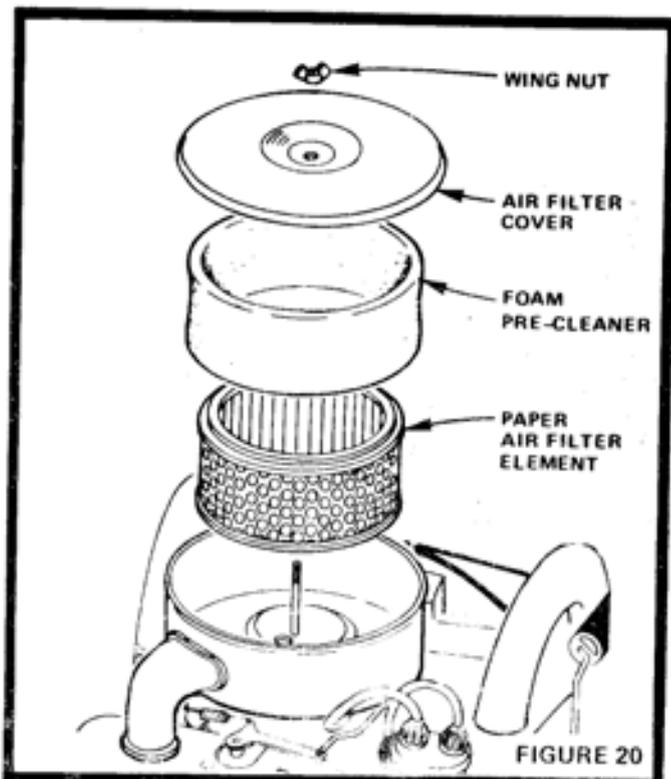


FIGURE 20

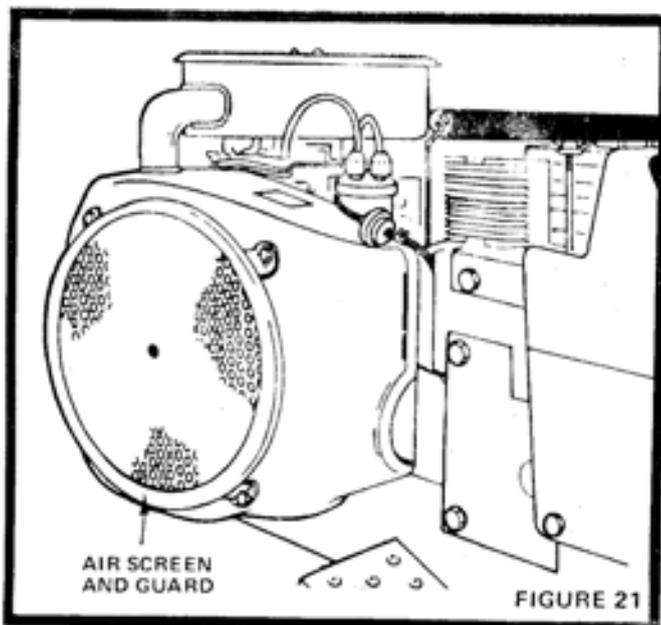


FIGURE 21

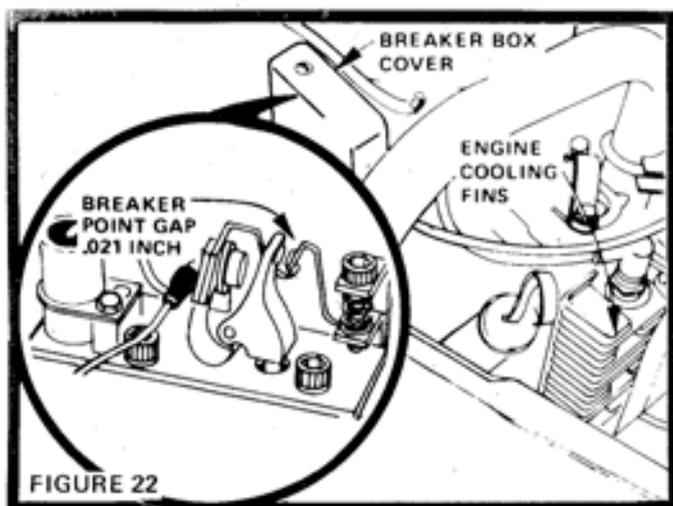


FIGURE 22



FIGURE 23

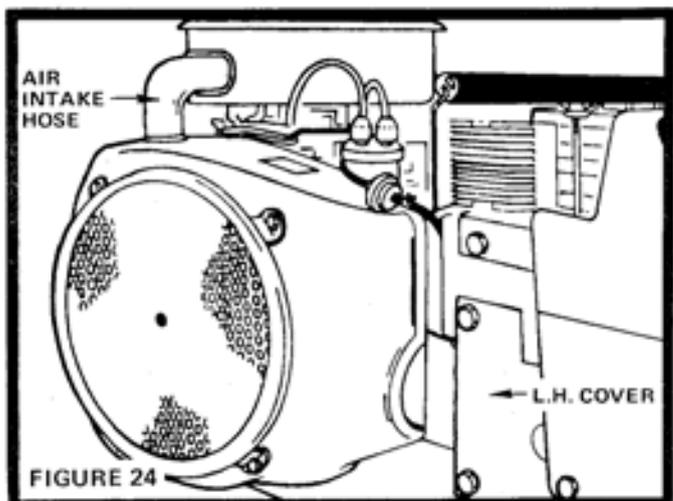


FIGURE 24

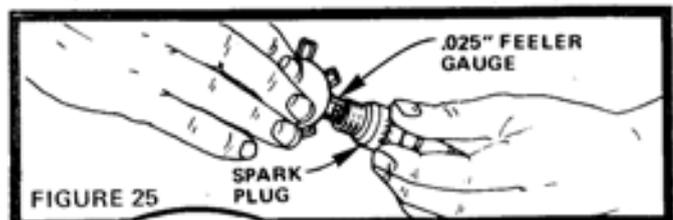


FIGURE 25

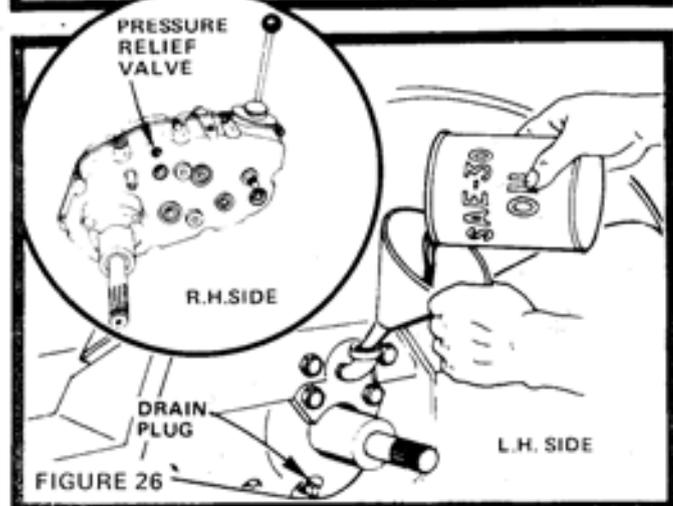


FIGURE 26

EVERY 50 HOURS:

1. CLEAN ENGINE COOLING FIN

Remove any dust, dirt or oil from Engine Cooling Fins (Fig. 22) to prevent Engine damage from overheating.

2. CHECK TRANSAXLE OIL LEVEL

- Block up Rear Axle securely or use a Tractor Jack. Remove left rear wheel by removing E-Ring (Fig. 33).
- Remove Filler Plug (Fig. 23) from Transaxle. Oil Level should be even with Filler Plug threads. Add S.A.E. 30 Motor Oil if necessary.
- Check Pressure Relief Valve located on R.H. side near top (Fig. 26). It should spring completely closed when pulled out by hand and released.
- Reposition wheel. Secure with E-Ring.

EVERY 100 HOURS:

1. CLEAN SPARK PLUGS AND RESET GAP

Wire brush carbon deposits from Spark Plug Electrodes and reset gap at .025 inch. (Fig. 25). Replace Spark Plugs if they show signs of fouling or electrode erosion.

2. CHECK BREAKER POINTS

Replace Points if they are pitted or burned.

- Remove Air Intake Hose that connects to Blower Housing (Fig. 24). This provides an access to view Timing Mark.
- Remove Spark Plugs and Belt Guard and turn Engine Pulley (Fig. 15) clockwise by hand until 21°BTC mark on gear cover aligns with mark on flywheel. Turn another 1/4 turn to ensure points are fully open.
- Remove Breaker Box Cover (Fig. 22) by loosening Screw and lift off to remove.
- Replace Points, if necessary.
- Using an Allen Wrench, adjust Set Screw for .021 inch between Points. Measure Point Gap with a Flat Feeler Gauge. NOTE: MAKE SURE FEELER GAUGE IS CLEAN AND FREE OF GREASE, OIL, OR DIRT. No other adjustment or alignment is necessary. Setting point gap accurately adjusts Engine Timing.
- Replace Breaker Box Cover, Spark Plugs and Cables and Air Intake Hose.

3. LUBRICATE BALL JOINTS

- Move Rubber Boots to expose Ball Joints on Tie Rods and Steering Link (Fig. 28).
- Coat Ball Joints with Silicone Spray Lubricant.
- Reposition Rubber Boots.

EVERY 200 HOURS:

1. REPLACE PAPER AIR FILTER ELEMENT

Refer to page 7.

2. REPLACE BREAKER POINTS

Refer to step 2, above.

EVERY 400 HOURS:

CHANGE TRANSAXLE OIL

- Block up Rear Axle securely or use a Tractor Jack. Remove Left Rear Wheel by removing E-Ring (Fig. 33).
- Drain Transaxle Oil by removing Drain Plug (Fig. 26) and catching Oil in suitable container. Replace Drain Plug.
- Refill Transaxle with S.A.E. 30 (SC, SD or SE) Motor Oil. Capacity is 5 quarts. Pressure Relief Valve (R.H. side of Transaxle, Fig. 26, Inset) may be held open to allow Transaxle to fill more quickly.
- Check Pressure Relief Valve. It should spring completely closed when pulled out by hand and released.
- Reposition wheel. Secure with E-Ring.

AS NEEDED:

1. REPLACE IN-LINE FUEL FILTER

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

- With Engine cool, remove and plug Fuel Line Sections as removed from both ends of Fuel Filter (Fig. 27).
- Place new Fuel Filter in position in Fuel Line.



BE SURE THERE ARE NO FUEL LINE LEAKS AND THAT FUEL LINE IS IN PROPER POSITION IN HOSE CLAMPS.

2. TOE-IN ADJUSTMENT

If any parts in Front Axle or Steering Mechanism are being replaced, Tie Rod adjustment is required.

- Loosen Jam Nuts (Fig. 28) at each end of Tie Rod Adjustment Sleeves.
- Adjust both Tie Rods so that Tie Rod Joints measure from 10 to 10 1/8 inches from center to center.
- Tighten Jam Nuts, making sure Tie Rod Joints are parallel (180°) to each other. This adjustment secures proper Front Wheel Toe-in and steering operation.

3. BRAKE ADJUSTMENT

If Clutch-Brake Pedal (Fig. 29) has more than approximately 4 inches of travel from vertical to full brake position then brake adjustment is necessary.

- Loosen Jam Nut (Fig. 29), in order to turn turnbuckle clockwise (from in front of tractor) one turn at a time until Clutch-Brake Pedal regains 4 inches of travel.
- Tighten Jam Nut against Turnbuckle.

4. PARKING BRAKE ADJUSTMENT

If Parking Brake will not hold tractor, Parking Brake adjustment is necessary.

- Loosen Parking Brake Hex Nuts (Fig. 29).
- Place Parking Brake Lever in locked position.
- Hold Clutch-Brake Pedal in brake position and tighten first Hex Nut finger tight against Bushing.
- Release Clutch-Brake Pedal and turn first Hex Nut two turns more against Bushing.
- Tighten second Hex Nut against first Hex Nut.

5. CARBURETOR ADJUSTMENT

If Engine lacks power or does not idle properly, the Carburetor may need adjustment.

- Main Fuel (High Speed) Screw (Fig. 30) should not require adjustment. If resetting is necessary, turn clockwise, closing finger tight ONLY, then turn counterclockwise 1 - 1/2 turns.
- Turn Idle Adjusting Needle (Fig. 30) clockwise, closing finger tight ONLY, and then turn counterclockwise one turn.
- Start Engine and allow to warm for five minutes.
- Make final adjustments with Engine running and Gear Shift Lever in Neutral position.
 - Turn Idle Adjusting Needle counterclockwise until Engine runs "rough" then clockwise until Engine begins to miss. Return Screw to a point midway between these extremes.
 - Throttle Stop Screw (Fig. 30) should not require adjustment. If resetting is necessary, set to obtain the slowest engine speed that will allow smooth acceleration.

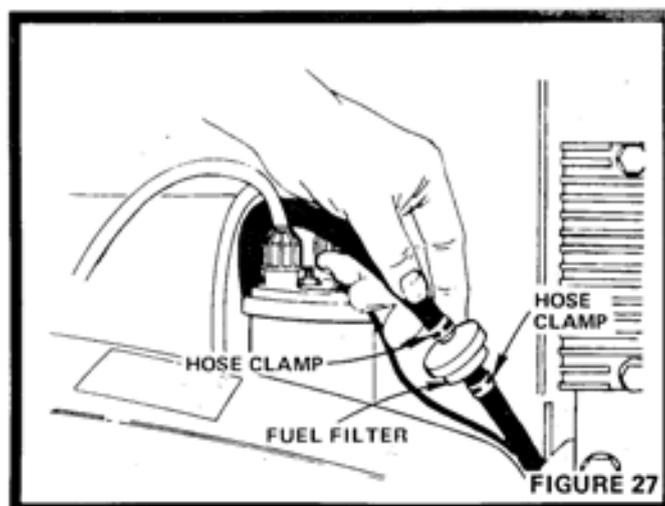


FIGURE 27

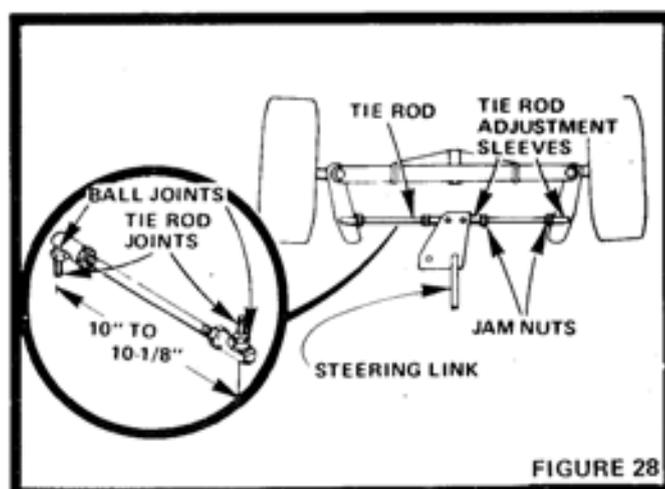


FIGURE 28

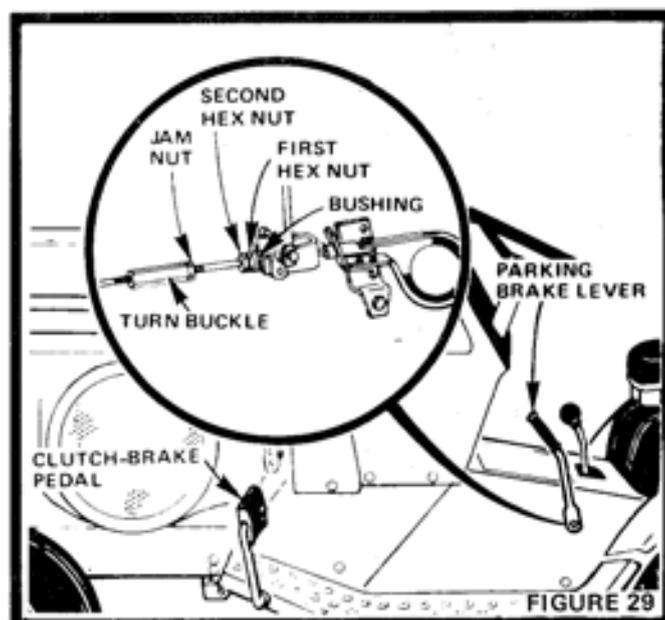


FIGURE 29

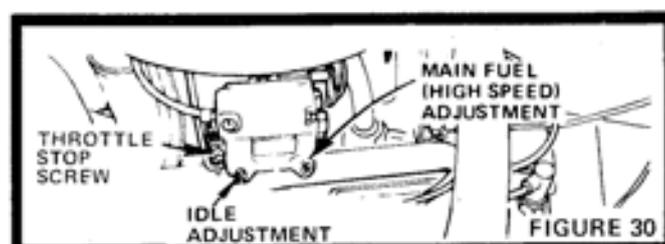


FIGURE 30

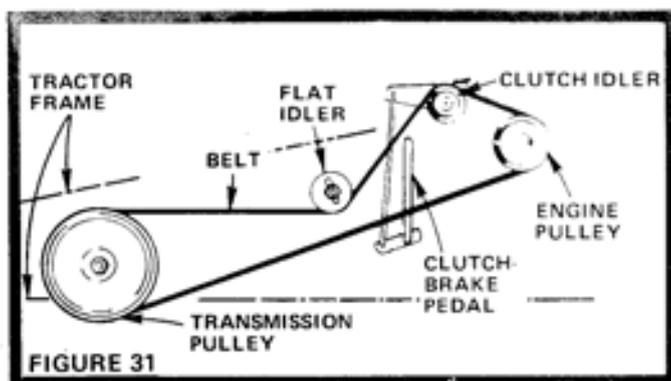


FIGURE 31

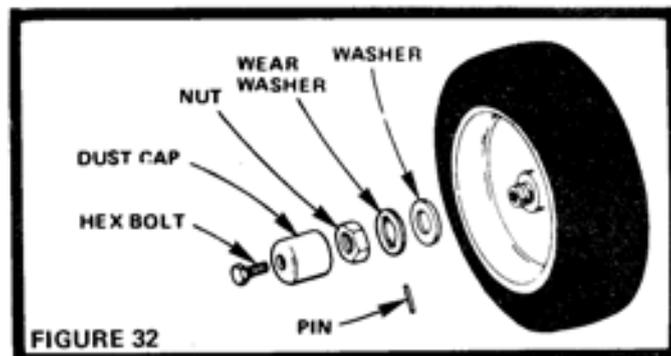


FIGURE 32

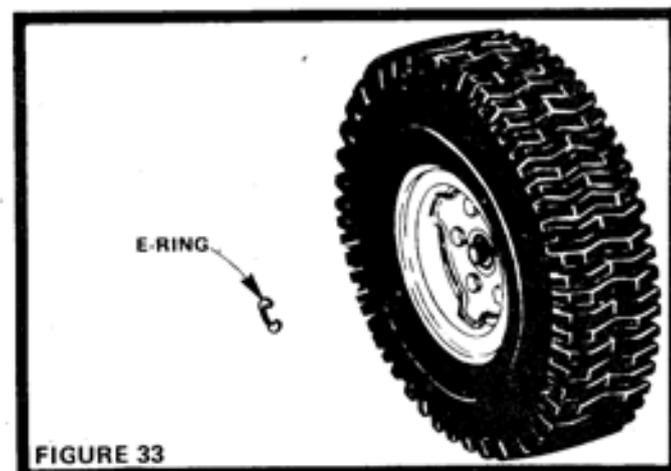


FIGURE 33

6. RE-TENSION V-BELT

It may be occasionally necessary to re-tension V-Belt. (See page 6).



CHECK TO MAKE SURE TRACTOR DOES NOT START WITHOUT FULLY DEPRESSING CLUTCH BRAKE PEDAL.

7. V-BELT REPLACEMENT

- Remove Belt from Clutch Idler by depressing Clutch-Brake Pedal (Fig. 31).
- Remove Belt Guide from Engine Pulley.
- Remove Rear Belt Guide Assembly from Transmission Pulley.
- Loosen Flat Idler Assembly on R.H. side of Tractor Frame.
- Remove Belt from Engine Pulley, between Belt Guide Finger (note position of Belt) and Flat Idler, and Transmission Pulley.
- Place new Belt around Transmission Pulley. Then place Belt between Belt Guide Finger and Flat Idler and then around Engine Pulley.
- Depress Clutch-Brake Pedal and slip Belt over the top of the Clutch Idler.
- Replace Engine Pulley Belt Guide and Transmission Pulley Belt Guide. Tighten Flat Idler Assembly. NOTE: Make sure Belt Guide Finger on Flat Idler is parallel with slot in Tractor Frame.
- Check Belt tension, page 6.

8. CLEAN BATTERY AND TERMINALS

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

- 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.

9. TIRE CARE

- Maintain tire pressure in front and rear tires of 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. 32).
 - Block up front axle securely or use a Tractor Jack.
 - Remove Hex Bolt and Dust Cap.
 - Remove Nut, Wear Washer, Pin and Washer to allow wheel removal.
 - Repair tire and reassemble.
- Removing rear wheel for tire repair (Fig. 33).
 - Block up rear axle securely or use a Tractor Jack.
 - Remove E-Ring to allow wheel removal.
 - Repair tire and reassemble. Snap E-Ring securely in place.

10. FINISH

Keep tractor finish 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
Attachment Clutch Pedal in "ON" position
No gasoline in Fuel Tank, clogged Fuel Filter or Fuel Line
Blown Fuse
Dead Battery

Press Pedal into brake position
Move Pedal to "OFF" position
Fill Tank with Gasoline. Check Fuel Line, Fuel Filter and Carburetor (clean if necessary)
Check for fault and replace Fuse
Recharge or replace Battery

HARD TO START

Choked improperly, flooded Engine

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

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

Improper Carburetor adjustment

ENGINE MISSES OR LACKS POWER

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

Shift to a lower gear or reduce load
Remove and replace
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 Plugs 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 Mufflers
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 or Taillight with Light Switch Knob pulled out

Check Fuse, Wire Connections and Switch. Replace Taillight Bulb or 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 6.

2. FUEL SYSTEM

- a. 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.
- b. Dispose of gasoline if not to be used. NOTE: GASOLINE STORED FOR SEVERAL MONTHS LOSES ITS VOLATILITY (ABILITY TO BURN EFFECTIVELY).

3. CYLINDER

- a. Remove Spark Plugs.
- b. Pour one ounce of oil through spark plug holes into cylinders.
- c. Turn ignition key to "START" position for a few seconds to distribute oil.
- d. Replace Spark Plugs.

4. BATTERY

- a. Remove battery if tractor is not used regularly during winter months. Store in cool, dry place (above 50°F). NOTE: DO NOT STORE BATTERY DIRECTLY ON CEMENT SURFACE.
- b. 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

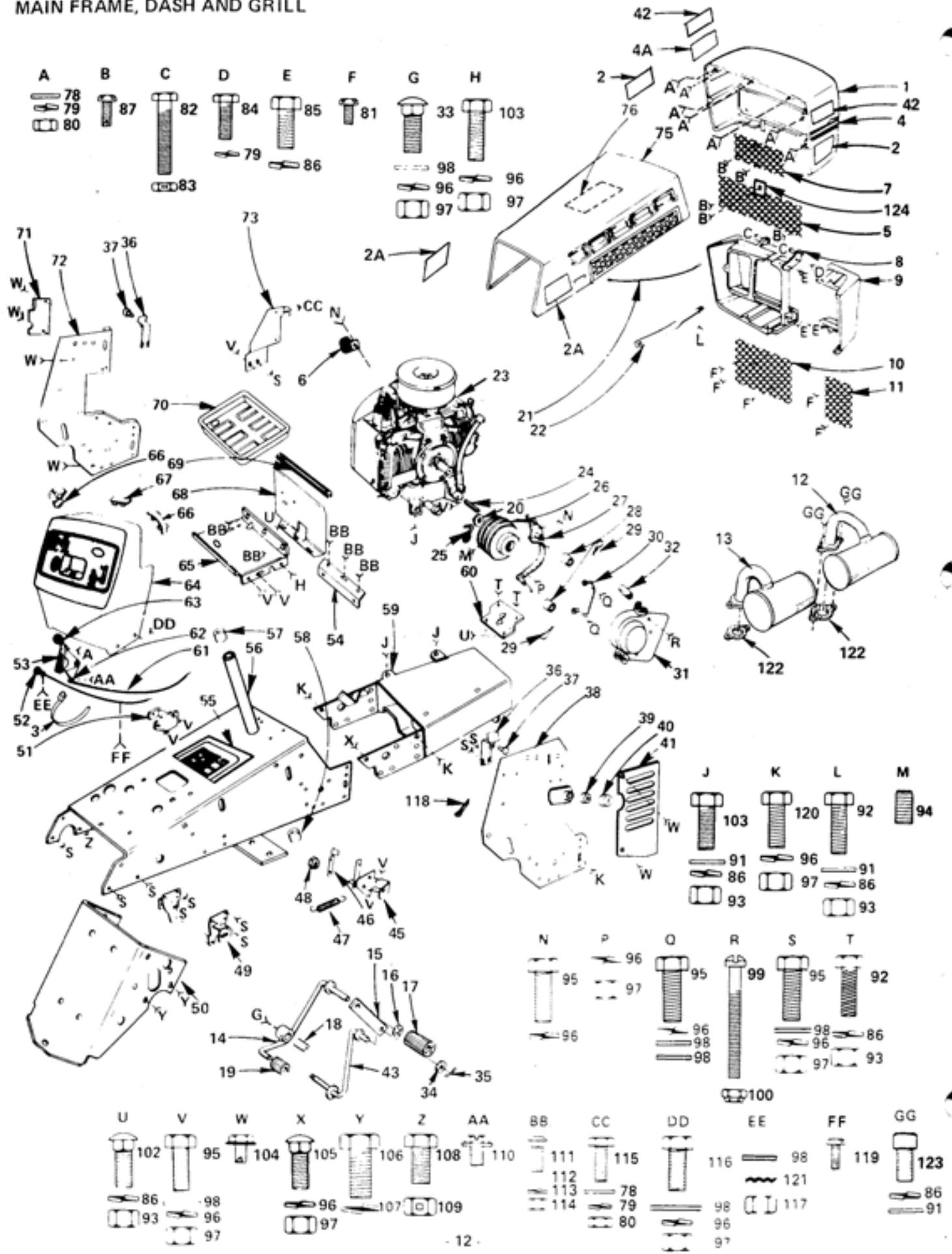
Clean engine, battery, finish, etc. of all foreign matter.

Simpsons-Sears Ltd. in Canada reserves the right to make any changes in design or improvements without imposing any obligation to install the same upon its items heretofore manufactured.

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

MAIN FRAME, DASH AND GRILL



REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

MAIN FRAME, DASH AND GRILL

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	911J	Grill - Upper	68	107J	Battery Heat Shield
2	3653R	Decal - Twin	69	7874R	Hood Seal
2A	3300R	Decal - Sears	70	8855R	Battery Tray
3	6106R	Tie - Wire	71	86J	Cover - L.H.
4	8644R	Decal - R.H. Hood Stripe	72	113J	Bracket - Battery Support - L.H.
4A	7995R	Decal - L.H. Hood Stripe	73	1181J	Bracket - Rectifier
5	2794R	Grill Screen - Center	75	634A907	Hood Ass'y.
6	5320R	Wire Clip	76	958J	Decal - Maintenance
7	2672R	Grill Screen - Upper			
8	868J	Grill - Lower	78	STD551025	*Washer 9/32 x 5/8 x 16 Ga.
9	7938R	Grill Side	79	STD551125	*Lockwasher 1/4
10	2674R	Grill Screen - L.H.	80	STD541025	*Hex Nut 1/4 - 20 UNC
11	2673R	Grill Screen - R.H.	81	5501P	Phillips Pan Hd. Thd. Self Tap. 10 - 24 x 3/8 Type T
12	104J	Muffler - Front			
13	105J	Muffler - Rear	82	STD522515	*Hex Bolt 1/4 - 20 x 1 - 1/2 Grade 5
14	634A901	Pedal Weldment	83	1605H	Locknut 1/4 - 20 UNC
15	89J	Link	84	STD522507	*Hex Bolt 1/4 - 20 x 3/4
16	92J	Push-On Nut	85	STD523107	*Hex Bolt 5/16 - 18 x 3/4
17	93J	Rubber Pedal	86	STD551131	*Lockwasher 5/16
18	91J	Pivot Spacer	87	5554P	Phillips Pan Hd. Thd. Self Tap. 10 - 16 Hi-Lo Thd. x 1/2 Blunt Point
19	267J	Foot Pedal			
20	1606P	Washer 1 - 1/16 x 2 x .140	91	STD551037	*Washer 11/32 x 11/16 x 16 Ga.
21	8058R	Grill Cable	92	STD523110	*Hex Bolt 5/16 - 18 x 1
22	875J	Grill Brace	93	STD541031	*Hex Nut 5/16 - 18 UNC
23	634A912	Engine, Onan 16 H.P. Model No. BF-MS/3394F	94	4540P	Hex Forged Socket Hdless. Set Screw 5/16 - 18 x 1/2
24	9396E	Sq. Key 1/4 x 2	95	STD523710	*Hex Bolt 3/8 - 16 x 1
25	8245R	Belt Retainer Finger	96	STD551137	*Lockwasher 3/8
26	634A104	Engine Pulley (Inc. 2 ea. Key No. 94)	97	STD541037	*Hex Nut 3/8 - 16 UNC
27	634A527	Belt Guide Weldment	98	STD551037	*Washer 13/32 x 13/16 x 16 Ga.
28	8704H1	Spacer	99	3154P	St. Fil. Hd. Machine Screw 1/4 - 20 x 2 - 1/4
29	4939M	Retainer Spring			
30	9011H	Belt Retainer	100	347H	Huglock Nut 1/4 - 20 UNC
31	634A659	Belt Guard Weldment	102	STD533107	*Carriage Bolt 5/16 - 18 x 3/4
32	8238H	Split Spacer	103	STD523712	*Hex Bolt 3/8 - 16 x 1 - 1/4
33	50P	Sq. Neck Carriage Bolt 3/8 - 16 x 2 - 1/4	104	5557P	Hex Washer Hd. Thd. Cutting Screw 1/4 - 20 x 1/2 Type 1
34	1545P	Washer 17/32 x 1 x 16 Ga.			
35	STD561210	*Cotter Pin 1/8 x 1	105	61P	Sq. Neck Carriage Bolt - Short Shoulder 3/8 - 16 x 1 Gr. 5
36	634A900	Hood Latch			
37	8457R	Support Bumper	106	3035P	Hex Bolt 7/16 - 14 x 1 - 1/4
38	634A903	Battery Support Bracket (Inc. Key No. 38)	107	STD551143	*Lockwasher 7/16
39	7756R	Bearing	108	STD523707	*Hex Bolt 3/8 - 16 x 3/4
40	8006R	Cap	109	5394H	Locknut 3/8 - 16 UNC
41	7729R	Cover - R.H.	110	6055P	Hex St. Hd. Machine Screw w/Sems Int. Tooth Lockwasher 10 - 32 x 1/4
42	7993R	Decal - SS/16			
43	634A902	Lever Weldment	111	53P	Sq. Neck Carriage Bolt 10 - 24 x 1/2
45	634A785	Hanger Weldment - R.H. - Front	112	STD551010	*Washer 7/32 x 7/16 x 18 Ga.
46	7944R	Belt Tightener Arm	113	STD551110	*Lockwasher No. 10
47	7948R	Return Spring	114	STD541010	*Hex Nut 10 - 24 UNC
48	7810H	Locknut 3/8 - 24 UNF	115	STD522505	*Hex Bolt 1/4 - 20 x 1/2
49	634A814	Hanger Weldment - Rear	116	STD523715	*Hex Bolt 3/8 - 16 x 1 - 1/2
50	634A787	Drawbar and Weldnuts	117	STD541137	*Hex Nut 3/8 - 24 UNF
51	634A355	Hanger Weldment - L.H. - Front	118	2514P	Cotter Pin 1/4 x 1
52	7931R	Choke Control	119	5592P	Slotted Pan Hd. Self Tap. Screw No. 8 x 3/4 Type AB
53	9900R	Throttle Control (Inc. Key 61, 62 & 63)			
54	97J	Adaptor Bar	120	STD523712	*Hex Bolt 3/8 - 16 x 1 - 1/4 Gr. 5
55	955J	Decal - Shift Pattern	121	1402P	Ext. Tooth Lockwasher - 3/8
56	634A888	Chassis Ass'y. (Inc. Key 57 & 58)	122	878J	Gasket - Exhaust Manifold
57	6468H	Bearing	123	3366P	Soc. Hd. Cap Screw 5/16 - 18 x 3/4
58	4766H	Bearing	124	8768H	Mounting Clip
59	634A908	Engine Mount Ass'y.			
60	96J	Grill Spacer			
61	9903R	Throttle Wire & Casing			
62	8204R	Clamp			
63	8203R	Throttle Control Lever			
64	634A893	Dashboard (Inc. Key No's. 66 and 67)			
65	106J	Battery Support			
66	1998R	Clip - Dashboard			
67	8571R	Clip - Dashboard, Center			

*STANDARD HARDWARE--PURCHASE LOCALLY

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

STEERING, AND FINAL DRIVE

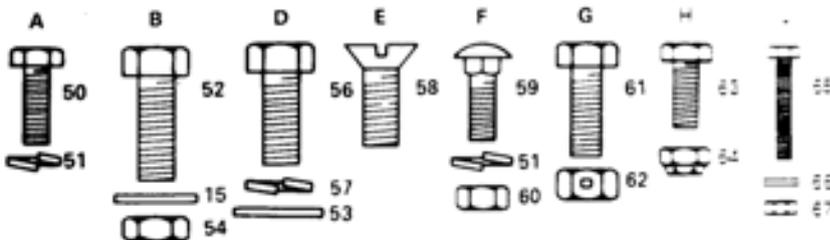
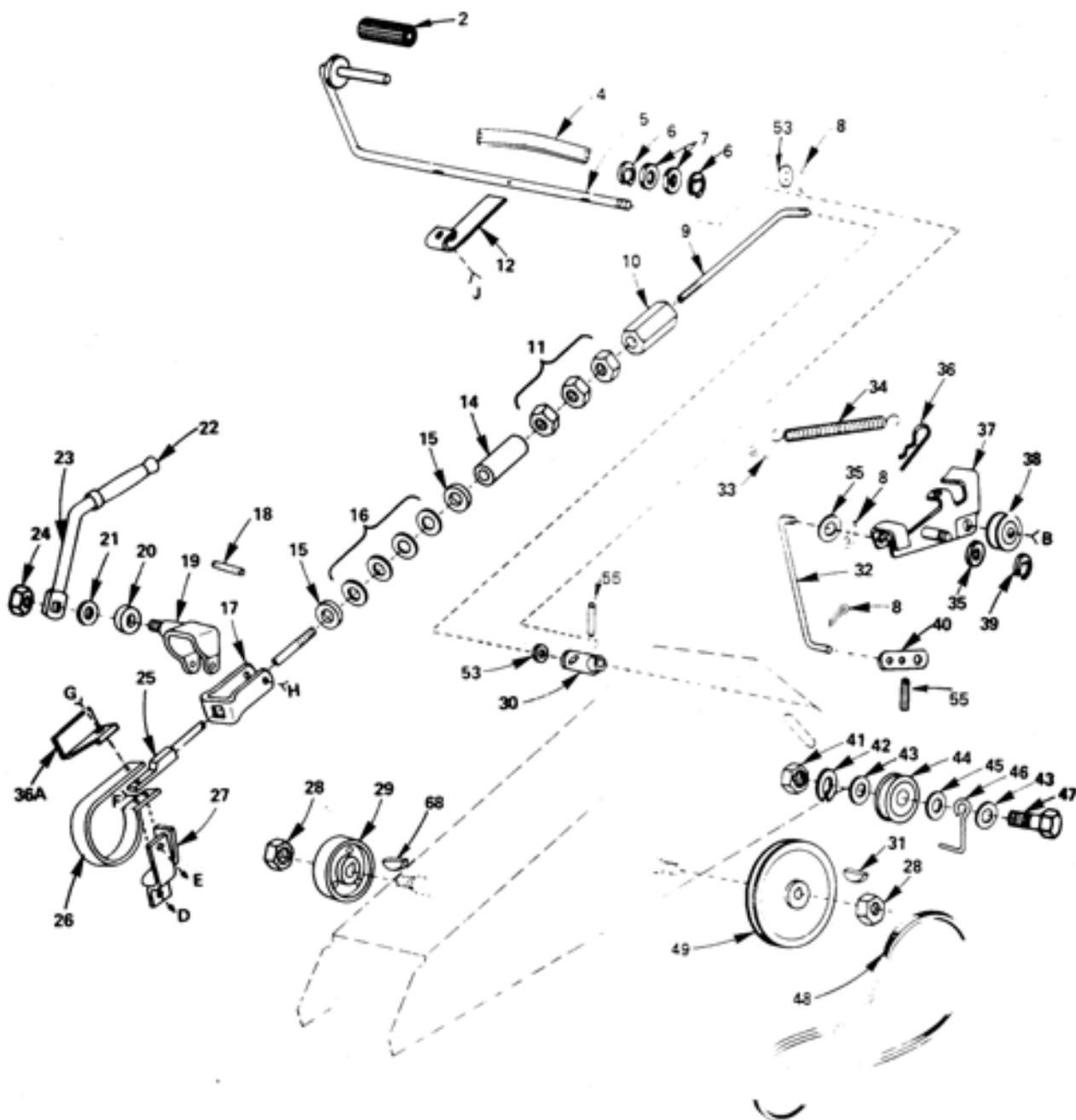
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	7996R	Steering Wheel Insert	46	61P	Sq. Nk. Sht. Shld. Carr. Bolt 3/8 - 16 x 1 Grade 5
2	STD523710	*Hex Bolt 3/8 - 16 x 1	47	STD551037	*Washer 13/32 x 13/16 x 16 Ga.
3	STD551137	*Lockwasher 3/8	48	1519P	Washer 15/32 x 1 x 12 Ga.
4	1559P	Washer 7/16 x 1 x 10 Ga.	49	5394H	Locknut 3/8 UNC
5	4820R	Steering Wheel	50	STD523712	*Hex Bolt 3/8 - 16 x 1 - 1/4
6	5003P	E-Ring	51	1557P	Washer 13/32 x 13/16 x 11 Ga.
7	9007H	Cap	53	STD541037	*Hex Nut 3/8 - 16 UNC
8	5949H	Rubber Bushing	54	STD523715	*Hex Bolt 3/8 - 16 x 1 - 1/2
9	7903R	Foot Rest - L.H.	55	STD523707	*Hex Bolt 3/8 - 16 x 7/8
9A	956J	Decal - Clutch/Brake	56	STD523107	*Hex Bolt 5/16 - 18 x 3/4
10	957J	Decal - Attach. Clutch	57	STD551131	*Lockwasher 5/16
11	7904R	Foot Rest - R.H.	58	STD533707	*Sq. Neck Carriage Bolt 3/8 - 16 x 3/4
12	1553P	Washer 5/64 x 1 - 1/4 x 16 Ga.	59	1304H	Hub Bolt
13	9858M1	Woodruff Key 3/16 x 5/8	60	3034P	Hex Bolt 7/16 - 14 x 1
14	634A626	Steering Shaft and Pinion	61	STD551143	*Lockwasher 7/16
15	7987R	Control Knob	62	STD541043	*Hex Nut 7/16 - 14 UNC
16	6442H	Shift Rod Bracket	63	STD522507	*Hex Bolt 1/4 - 20 x 3/4
17	2511P	Cotter Pin 3/16 x 1	64	STD551025	*Washer 9/32 x 5/8 x 16 Ga.
18	634A22A	Belt Guide	65	STD551125	*Lockwasher 1/4
19	6477H	Range Shift Rod	66	STD541025	*Hex Nut 1/4 - 20 UNC
20	9594R	Transmission Bracket	70	5P	Short Shoulder Sq. Neck Carriage Bolt 5/16 - 18 x 3/4
21	8674R	Seat Stop	71	STD551037	*Washer 11/32 x 11/16 x 16 Ga.
22	794J	Rear Tire 23 x 9.50 - 12	72	1685H	Locknut 5/16 - 18 UNC
23	795R	Tire Valve	73	STD523707	*Hex Bolt 3/8 - 16 x 3/4
24	2893R	Rear Wheel 12 x 7 JA	74	52P	Carriage Bolt 1/2 - 13 x 1 - 1/4 Gr. 5
25	9428R	Fender - R.H.	75	1578P	Washer 3/4 x 1 - 1/8 x 11 Ga.
26	634A692	Rear Wheel Hub and Bushing	76	1560P	Washer 17/32 x 1 - 1/2 x 11 Ga.
27	7563R	Axle Thrust Washer	77	STD551150	*Lockwasher 1/2
28	5845R	Retaining Ring	78	STD541050	*Hex Nut 1/2 - 13 UNC
29	9427R	Fender - L.H.	79	3159P	Hex Bolt 5/16 - 18 x 7/8
30	2656R	Bracket - Tail Light	80	9547R	Rubber Grommet
31	125J	Seat Stop Bracket	82	124J	Rubber Bumper
32	126J	Fuel Tank Retainer	---	954J	Owners Manual
33	8141H	Seat Spring Reinforcement			
34	7898R	Seat Spring			
35	634A776	Seat Plate Weldment			
36	634A532	Seat Bracket Weldment			
37	7897R	Bracket, Seat Pivot			
38	268J	Seat			
39	7886R	Fuel Gauge			
40	7885R	Fuel Tank			
41	6999R	Fuel Line Clamp			
42	2751R	Clip - Fuel Line			
43	7834R	Fuel Line (Long)			
44	266J	In-Line Filter			
45	7833R	Fuel Line			
45A	9297R	Clip - Fuel Line			

*STANDARD HARDWARE--PURCHASE LOCALLY

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

BRAKE AND CLUTCH



REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

BRAKE AND CLUTCH

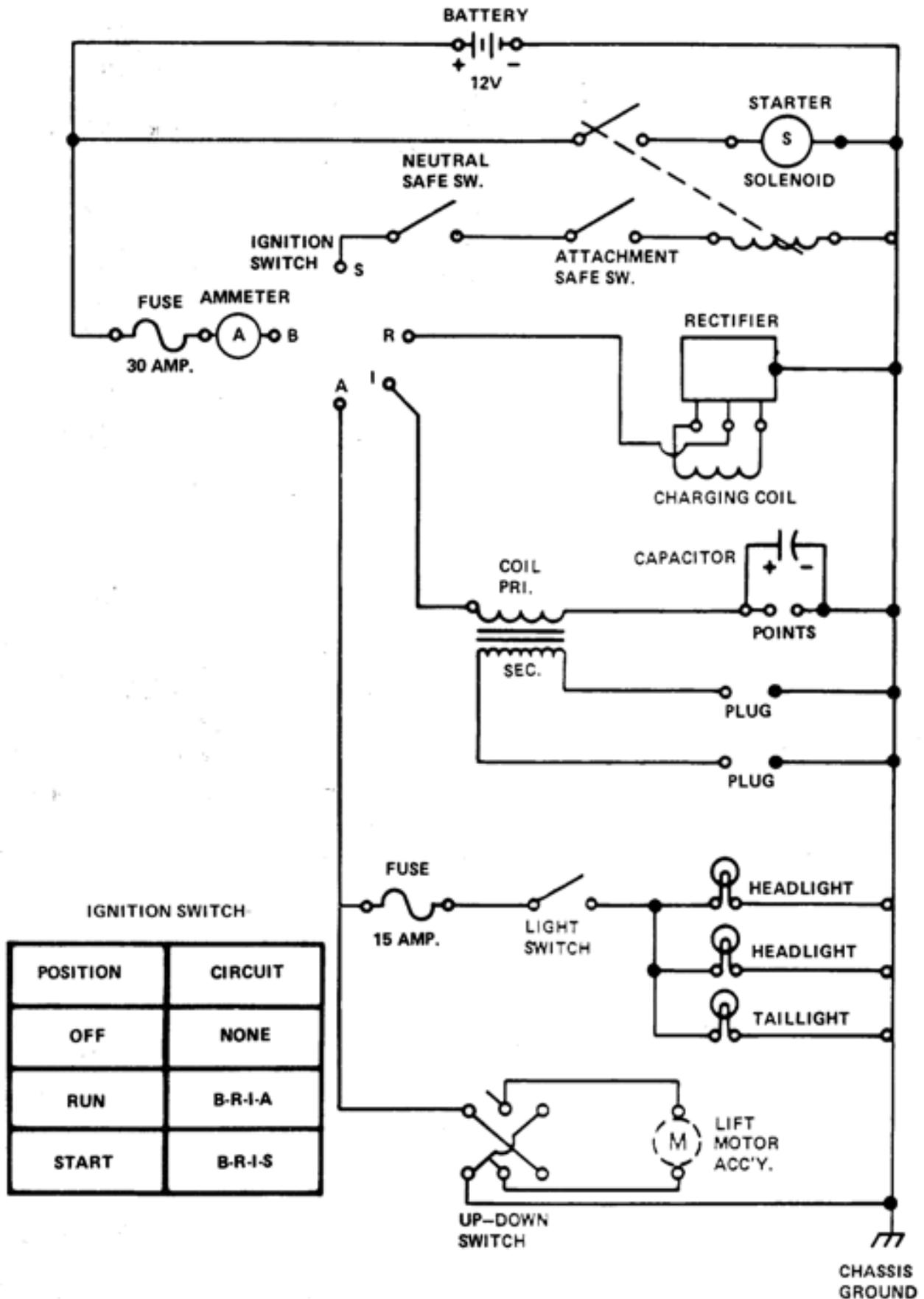
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2	8156H	Foot Pedal Cover	37	634A754	Idler Bracket Weldment
4	9008H	Spring	38	6636H	Idler
5	634A906	Foot Pedal Shaft Weldment	39	5002P	E-Ring
6	5001P	E-Ring	40	634A898	Steering Arm Assembly
7	1527P	Washer 21/32 x 7/8 x 16 Ga.	41	STD541043	*Hex Nut 7/16 - 14 UNC
8	2505P	Cotter Pin 1/8 x 3/4	42	STD551143	*Lockwasher 7/16
9	2202R	Brake Rod - Front	43	STD551043	*Washer 15/32 x 15/16 x 16 Ga.
10	6417H	Turnbuckle	44	6635H	Flat Idler
11	STD541037	*Hex Nut 3/8 - 16 UNC	45	1520P	Washer .469 I.D. x 1 - 1/8 x 11 Ga.
12	7823R	Safety Start Actuator	46	6479H1	Belt Finger
14	2201R	Bushing	47	3262P	Hex Bolt 7/16 - 14 x 2 - 1/2
15	1557P	Washer 13/32 x 13/16 x 11 Ga.	48	2692R	V-Belt
16	2263R	Spring Washer	49	6461H2	Pulley, Transmission
17	9686R	Parking Brake Yoke	51	STD551125	*Lockwasher 1/4
18	175H	Roll Pin	52	STD523710	*Hex Bolt 3/8 - 24 x 1
19	634A887	Lock Bracket Assembly	53	STD551037	*Washer 13/32 x 13/16 x 16 Ga.
20	2221R	Spacer	54	STD541337	*Hex Jam Nut 3/8 - 24 UNF
21	5999H	Spring Washer	55	5142H	Roll Pin
22	4379H	Handle Grip	56	STD523707	*Hex Bolt 3/8 - 16 x 7/8
23	626A341	Parking Lock Handle Assembly	57	STD551137	*Lockwasher 3/8
24	7810H	Gripco Centerlock Nut 3/8 - 24 UNF	58	3164P	Flat Hd. Machine Screw - Undercut 3/8 - 16 x 3/4
25	626A365	Brake Rod Assembly	59	11P	Sq. Neck Carriage Bolt 1/4 - 20 x 5/8
26	634A167	Brake Band and Lining	60	STD541025	*Hex Nut 1/4 - 20 UNC
27	634A168	Brake Bracket Assembly	61	STD523108	*Hex Bolt 5/16 - 18 x 7/8
28	9204H	Locknut 1/2 - 20 UNF	62	1685H	Locknut 5/16 - 18 UNC
29	7648H1	Brake Drum	63	3244P	Hex Bolt 1/4 - 28 x 5/8 Gr. 5
30	634A899	Brake Arm Assembly	64	9071H	Huglock Nut 1/4 - 28 UNF
31	9858M1	Woodruff Key	65	3326P	Hex Hd. Mach. Screw 6 - 32 x 1
32	9288R	Clutch Rod	66	1567P	Washer 5/32 x 3/8 x 20 Ga.
33	2514P	Cotter Pin 1/4 x 1	67	562P	Centerlock Nut 6 - 32 UNC
34	6486H	Spring	68	2228M	Woodruff Key
35	1587P	Washer 17/32 x 1 - 1/16 x 21 Ga.			
36	4939M	Retainer Spring			
36A	544J	Hose Shield			

*STANDARD HARDWARE--PURCHASE LOCALLY

REPAIR PARTS:

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

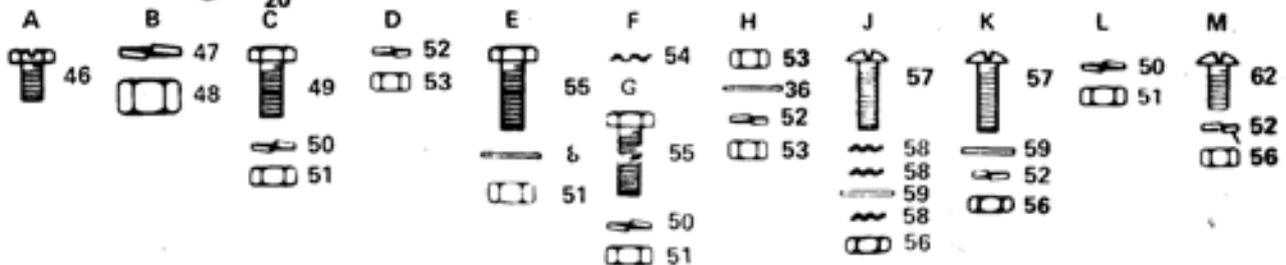
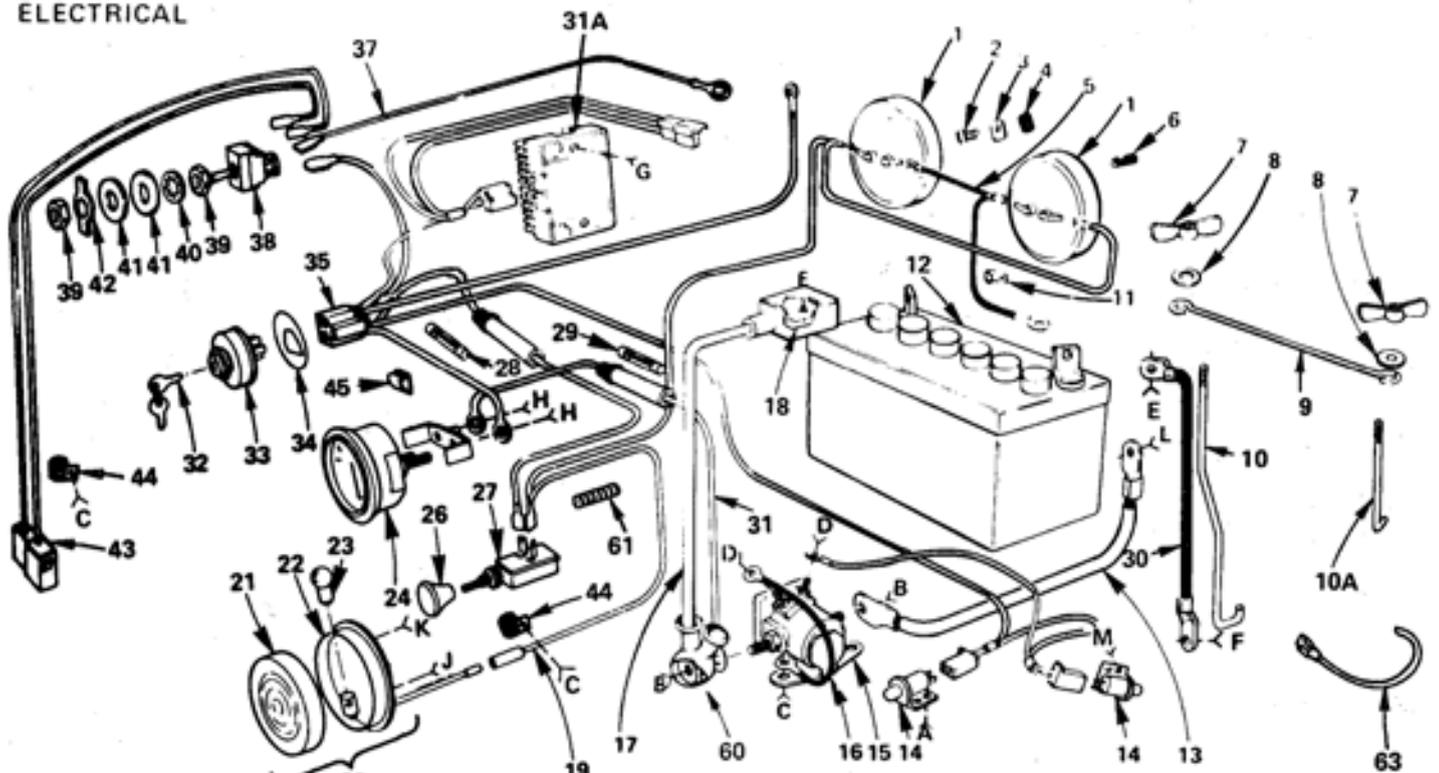
ELECTRICAL



REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

ELECTRICAL

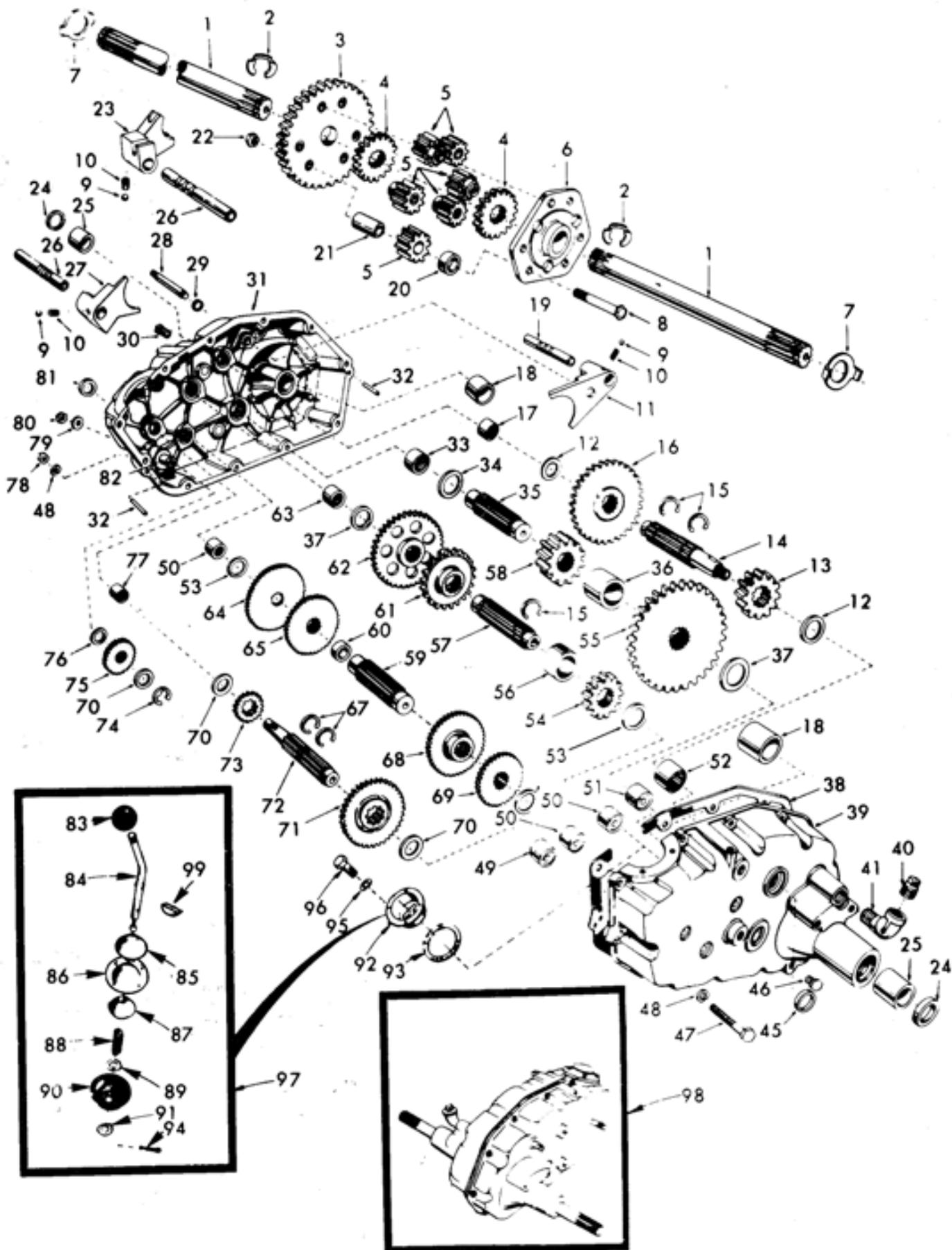


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	6452R	Headlight	32	7552H	Key Set
2	5554P	Phillips Pan Hd. Thd. Cutting Screw No. 10 - 16 x 1/2	33	2683R	Ignition Switch (Inc. Key No. 32)
3	8768H	Mounting Clip	34	8656R	Terminal Identifier
4	8784H1	Rubber Spacer	35	9564R	Wire Harness - Main
5	8031R	Headlight Ground Wire	36	1583P	Brass Washer No. 10
6	9197H	Hose	37	9698R	Wire, Ground Lift Switch
7	3748M	Wing Nut 1/4 - 20 UNC	38	8984R	Switch Elec. Lift
8	STD551025	*Washer 9/32 x 5/8 x 16 Gc	39	566P	Hex Nut, Steel 7/16 - 32 NS - 2A
9	7955R	Battery Clamp	40	7319R	Lockwasher, Internal Tooth
10	2685R	Battery Bolt	41	1518P	Washer 15/32 x 11/16 x 16 Ga.
10A	88J	Battery Bolt	42	9349R	Switch Plate
11	4171R	Insulated Clip	43	8985R	Lift Motor - Harness
12	8859R	Battery "Die Hard"	44	5320R	Clip, Wire
13	2235R	Cable - Solenoid to Starter	45	8615R	Clip
14	7755R	Safety Switch	46	5534P	Slotted Hex Indented Hd. Self Tapping Screw No. 10 - 24 x 3/8 Type 1
15	7754R	Solenoid	47	STD551131	*Lockwasher 5/16
16	8027R	Wire - Ground to Solenoid	48	STD541331	*Hex Jam Nut 5/16 - 24 UNF
17	116J	Battery Cable	49	STD522506	*Hex Bolt 1/4 - 20 x 5/8
18	225J	Terminal Cover	50	STD551125	*Lockwasher 1/4
19	8030R	Light Harness	51	STD541025	*Hex Nut 1/4 - 20 UNC
20	8089H	Tail Light (Inc. Key No's. 21, 22, 23)	52	STD551110	*Lockwasher No. 10
21	8292H	Lens - Tail Light	53	STD541110	*Hex Nut No. 10 - 32 UNF
22	8293H	Housing - Taillight	54	1402P	Ext. Tooth Lockwasher 3/8
23	8291H	Bulb No. 1895 2 Candle Power	55	STD522507	*Hex Bolt 1/4 - 20 x 3/4
24	9433R	Ammeter	56	STD541410	*Hex Nut No. 10 - 24 UNC
26	7794R	Light Switch Knob	57	STD511007	*Std. Truss Hd. Mach. Screw 10 - 24 x 3/4
27	7793R	Light Switch	58	1404P	Ext. Tooth Lockwasher No. 10
28	2212R	Fuse - 15 Amp.	59	STD551010	*Washer 7/32 x 1/2 x 18 Ga.
29	6347R	Fuse - 30 Amp.	51J	51J	Solenoid Terminal Cover
30	2753R	Battery Cable - Ground	61	302J	Wire Guard
31	8113R	Fuse Harness	62	3357P	Std. R.H. Mach. Screw No. 10 - 24 x 1/2
31A	7753R	Regulator - Rectifier	63	6106R	Cable Tie

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

TRANSAXLE



REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

TRANSAXLE

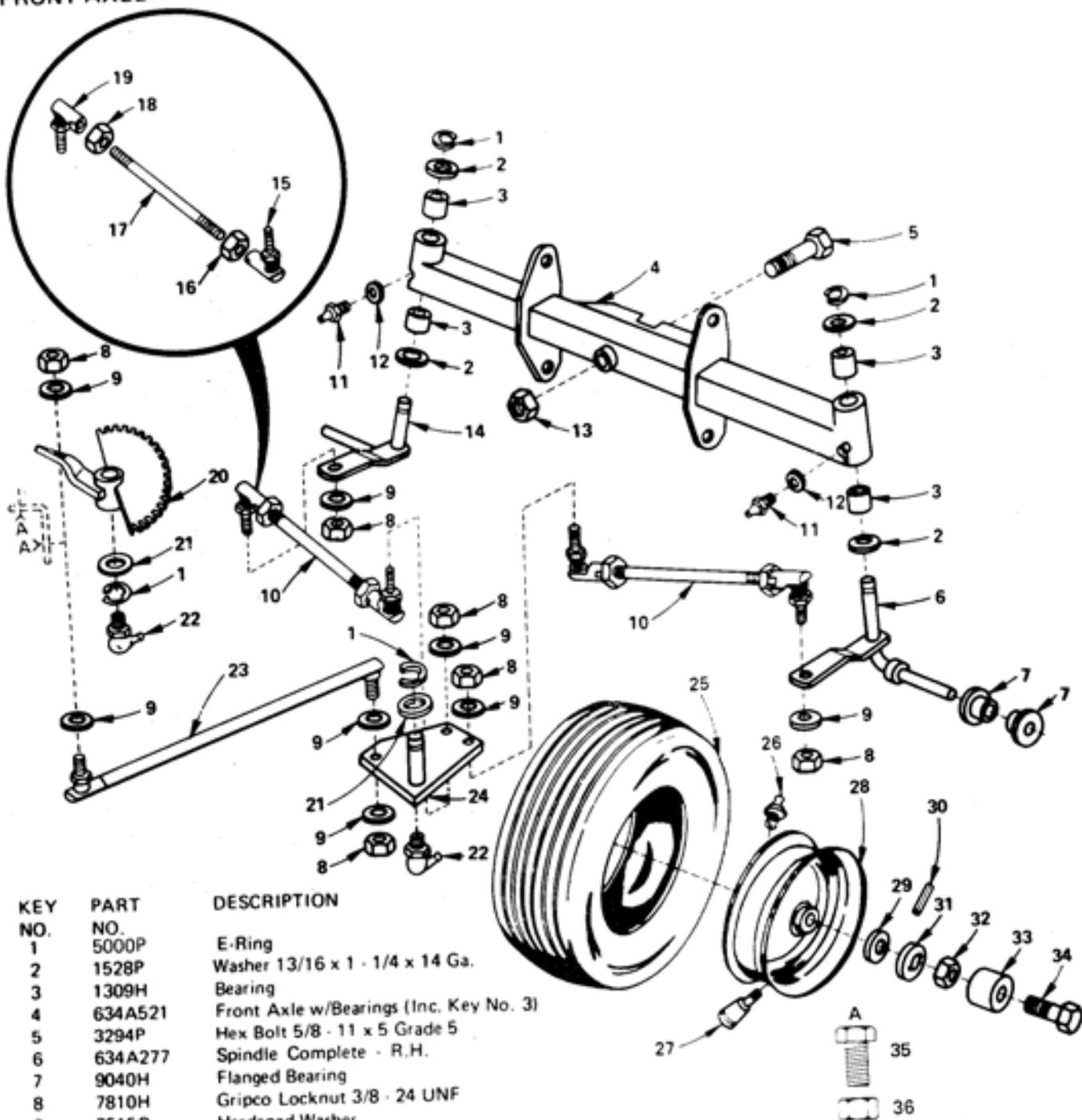
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	4202R	Axle Shaft	49	4895H	Needle Bearing
2	5845R	Retaining Ring	50	4222R	Needle Bearing
3	4199R	Final Drive Gear	51	1529R	Needle Bearing
4	4216R	Differential Gear	52	8119M	Needle Bearing
5	4215R	Differential Pinion	53	4220R	Thrust Bearing Race
6	4217R	Differential Carrier	54	4209R	3rd Reduction Pinion - Low
7	6256H	Axle Thrust Washer	55	4213R	4th Reduction Gear
8	3056P	Hex Bolt 3/8 - 24 UNF x 3 - 1/4 (1" Thread Length)	56	4442R	3rd Reduction Pinion Spacer
9	7392M	Steel Ball	57	4195R	2nd Reduction Gear Shaft
10	6272H	Spring Shift Fork Detent	58	4214R	Final Drive Pinion
11	4985R	Shift Fork, High - Low Range	59	4194R	1st Reduction Gear Shaft
12	6266H	Thrust Bearing Race	60	7528R	1st Reduction Shaft Spacer
13	4212R	4th Reduction Pinion	61	4208R	3rd Reduction Pinion - High
14	4196R	3rd Reduction Gear Shaft	62	4207R	2nd Reduction Gear
15	6276H	Snap Ring - Crescent Type	63	7398H	Needle Bearing
16	633A63	High - Low Range Gears	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
17	8118M	Needle Bearing	65	4204R	Reverse Gear
18	8740H1	Sintered Iron Bearing			
19	6217H	Shift Fork Shaft, High - Low Range	67	4926H	Snap Ring - Crescent Type
20	4218R	Differential Pinion Spacer	68	4205R	Intermediate Speed Gear
21	6252H1	Differential Pinion Bushing	69	4206R	High Speed Gear
22	7810H	Gripco Centerlock Nut 3/8 - 24 UNF	70	1370H	Thrust Bearing Race
23	4986R	Shift Fork - L.H.	71	633A69	Intermediate and High Speed Cluster Pinions
24	7393R	Oil Seal			
25	992R1	Sintered Iron Bearing	72	4193R	Input Shaft
26	6216H	Shift Fork Shaft	73	4201R	Low Speed Pinion
27	6262H	Shift Fork - R.H.	74	5001P	E-Ring
28	6215H	Shift Shaft, High - Low Range	75	1153R	Reverse Idler Gear
29	6269H	Oil Seal	76	7392H	Reverse Idler Thrust Washer
30	5855H	Pressure Relief Valve	77	5529H	Needle Bearing
31	633A65	Gearcase, Reverse Idler Shaft and Bearings - R.H. (Inc. Key No's. 17, 18, 25, 33, 50, 63, 76, 77 and 82)	78	STD541031	*Hex Nut 5/16 - 18 UNC
32	6277H	Dowel Pin	79	1167R	Sealing Washer
33	4225R	Needle Bearing	80	541P	Hex Jam Nut 7/16 - 20 UNF
34	7396H	Thrust Bearing Race	81	6270H	Oil Seal
35	4198R	4th Reduction Gear Shaft	82	7384H	Reverse Idler Shaft
36	4200R	4th Reduction Gear Spacer	83	7987R	Control Knob
37	7395H	Thrust Bearing Race	84	8551R	Gear Shift Lever - Bent
38	6275H	Gearcase Gasket	85	9013R	Gear Shift Cap
39	633A64	Gearcase and Bearings - L.H. (Inc. Key No's. 18, 25, 49, 50 (2), 51 and 52)	86	633A85	Gear Shift Ball Cover and Pin
40	4002P	Pipe Plug 1/2 - 14 N.P.T.	87	8739H1	Shift Lever Guide Ball - Keyed
41	4003P	Street Elbow 90°, 1/2 - 1/4 N.P.T.	88	4924H	Spring
45	6271H	Oil Seal	89	STD551043	*Washer 15/32 x 59/64 x 16 Ga.
46	4001P	Pipe Plug 1/4 - 18 N.P.T.	90	8105R	Shift Mechanism Seal
47	STD523115	*Hex Bolt 5/16 - 18 x 1-1/2 Grade 5	91	1569P	Washer 9/16 x 15/16 x 11 Ga.
48	1007P	Lockwasher 5/16 Extra Heavy	92	75J	Gear Shift Gate
			93	6274H	Shift Ball Cover Gasket
			94	2505P	Cotter 1/8 x 3/4
			95	STD551131	*Lockwasher 5/16
			96	STD523108	*Hex Bolt 5/16 - 18 UNC x 7/8
			97	633A82	Gear Shift Lever Ass'y.
			98	633A78	Transaxle Assembly Less Brake Drum & Shift Lever
			99	7835M	Woodruff Key 1/8 x 1/2

*STANDARD HARDWARE--PURCHASE LOCALLY

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100

FRONT AXLE



KEY NO.	PART NO.	DESCRIPTION
1	5000P	E-Ring
2	1528P	Washer 13/16 x 1 - 1/4 x 14 Ga.
3	1309H	Bearing
4	634A521	Front Axle w/Bearings (Inc. Key No. 3)
5	3294P	Hex Bolt 5/8 - 11 x 5 Grade 5
6	634A277	Spindle Complete - R.H.
7	9040H	Flanged Bearing
8	7810H	Gripco Locknut 3/8 - 24 UNF
9	2515R	Hardened Washer
10	7838R	Tie Rod and Joints (Inc. Key No's. 15, 16, 17, 18 & 19)
11	6855M	Grease Fitting
12	1505P	Washer 9/32 x 1/2 x 14 Ga.
13	4764H	Huglock Nut 5/8 x 11 UNC
14	634A278	Spindle Complete L.H.
15	8515R	Tie Rod Joint (R.H. Thread)
16	STD541350	*Hex Jam Nut 1/2 - 20 (R.H. Thread)
17	634A819	Tie Rod and Nuts (Inc. Key No's. 16 & 18)
18	559P	Hex Jam Nut 1/2 - 20 (L.H. Thread)
19	8514R	Tie Rod Joint (L.H. Thread)
20	634A813	Steering Gear Sector and Arms
21	1552P	Washer 49 64 x 1 - 1/4 x 16 Ga.
22	6842M	Grease Fitting
23	7837R	Drag Link and Joints
24	634A98	Steering Bell Crank Weldment
25	2169R	Front Tire 16 x 6.50 - 8

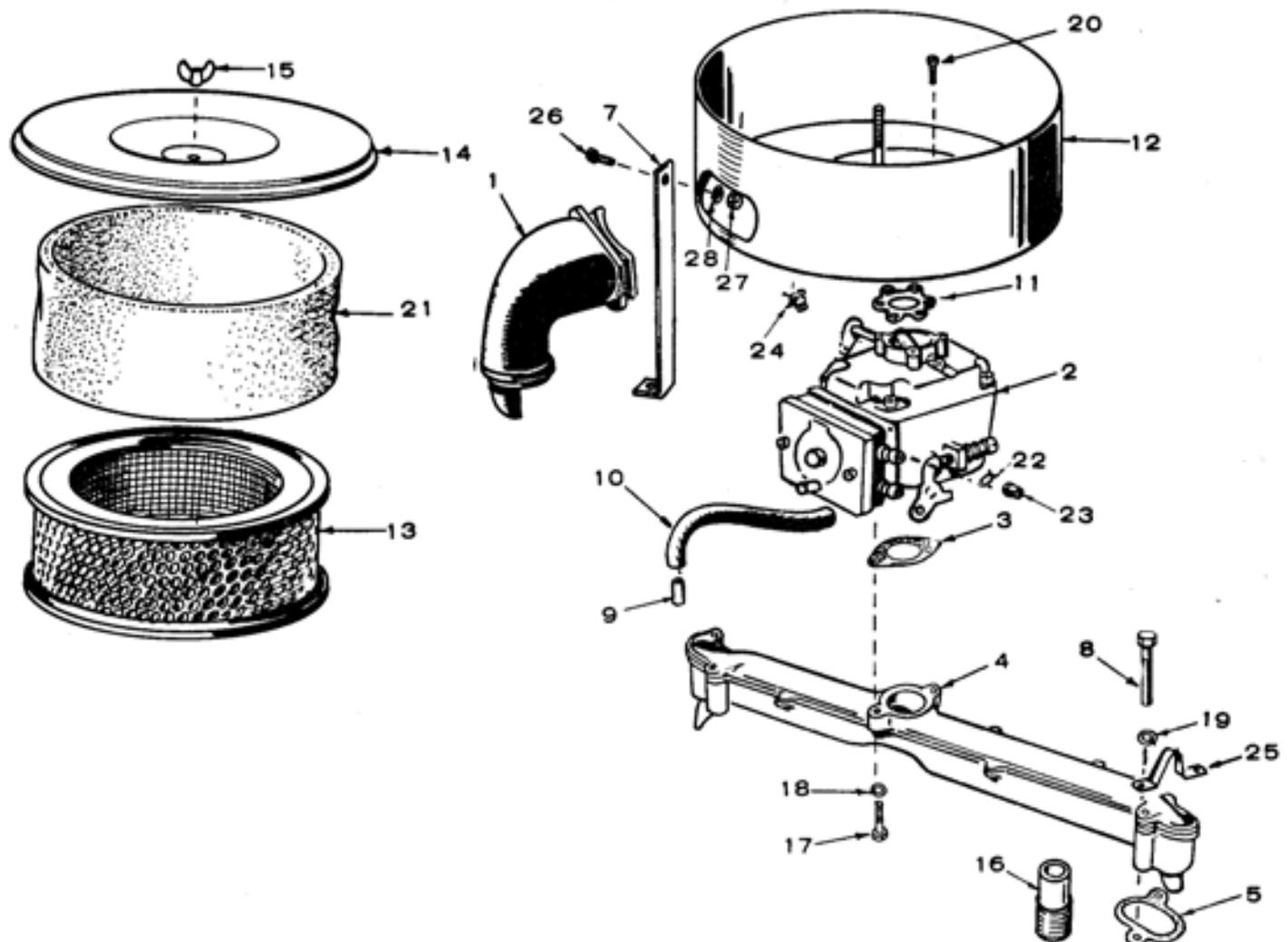
KEY NO.	PART NO.	DESCRIPTION
26	6855V	Grease Fitting 1/4 - 28 Taper Thrd.
27	735P	Tire Valve
28	467-	Front Wheel and Bearings
29	1552P	Washer 25/32 x 1 - 1/2 x 16 Ga.
30	8755-	Roll Pin 5/32 x 1
31	8755-	Rear Washer
32	463-	Ball Nut 3/4 - 16 UNF
33	8743-	Dust Cap Outer
34	8725P	Hex Bolt 5/16 - 18 x 1/2
35	STD541350	*Hex Bolt 3/8 - 24 x 1
36	STD541337	*Hex Jam Nut 3/8 - 24 UNF

*STANDARD HARDWARE--PURCHASE LOCALLY

REPAIR PARTS

FUEL SYSTEM GROUP

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F



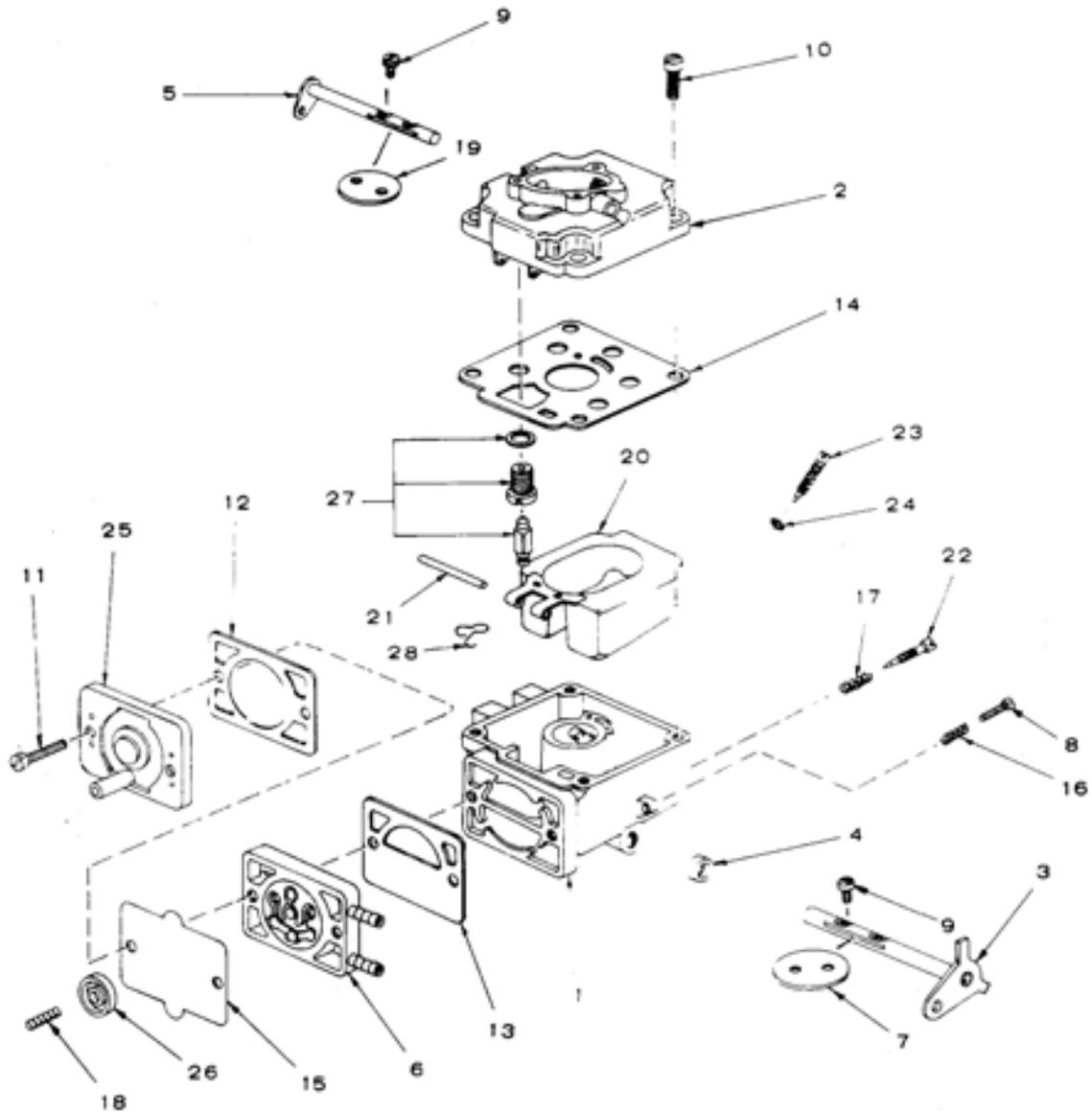
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140-1169	Air Intake Tube	15	865-0020	Wing Nut (1/4 - 20)
2	142-0585	Carburetor Assembly (Complete)	16	505-0755	Half Nipple (1" x 3")
3	145-0438	Gasket	17	800-0023	Hex Head Cap Screw (1/4 - 20 x 1 - 3/8")
4	154-1468	Intake Manifold	18	850-0040	Lockwasher (1/4")
5	154-1446	Gasket	19	850-0045	Lockwasher (5/16")
7	140-1198	Support	20	815-0377	Round Head Screw (10 - 32 x 3/8")
8	800-0033	Hex Cap, Screw (5/16 - 18 x 2")	21	140-1259	Pre-Cleaner
9	149-1299	Vacuum Tube	22	503-0301	Hose Clamp
10	503-0740	Vacuum Hose	23	149-1321	Cap
11	140-1215	Gasket	24	518-0328	Clip
12	140-1213	Housing	25	403-1021	Lifting Bracket
13	140-1216	Element	26	800-0003	Hex Head Cap Screw (1/4 - 20 x 1/2")
14	140-1168	Cover	27	862-0001	Hex Nut (1/4 - 20)
			28	853-0013	Lockwasher (1/4")

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

CARBURETOR (With Integral Fuel Pump) PARTS GROUP

SET # F773260266



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
	142-0585	Carburetor, Complete	14	142-0572	+Gasket
	142-0571	*Gasket Kit (Includes Parts Marked +)	15	142-0555	+Diaphragm
	412-0570	Repair Kit (Includes Parts Marked *)	16	142-0544	Spring
1	142-0574	Body	17	142-0292	*Spring
2	142-0573	Body	18	142-0545	*Spring
3	142-0534	*Throttle Shaft	19	142-0546	Fly
4	142-0535	+Seal	20	142-0547	Float
5	142-0536	Choke Shaft	21	142-0548	*Shaft
6	142-0537	*Valve Assembly	22	142-0518	Idle Needle
7	142-0584	Fly	23	142-0549	Power Needle
8	142-0064	Stop Screw	24	142-0550	-Seal
9	142-0334	*Screw	25	142-0551	Cover
10	142-0539	Screw	26	142-0552	*Plate
11	142-0540	Screw	27	142-0553	*Valve Assembly
12	142-0541	+Gasket	28	142-0554	Retaining Clip
13	142-0542	+Gasket			

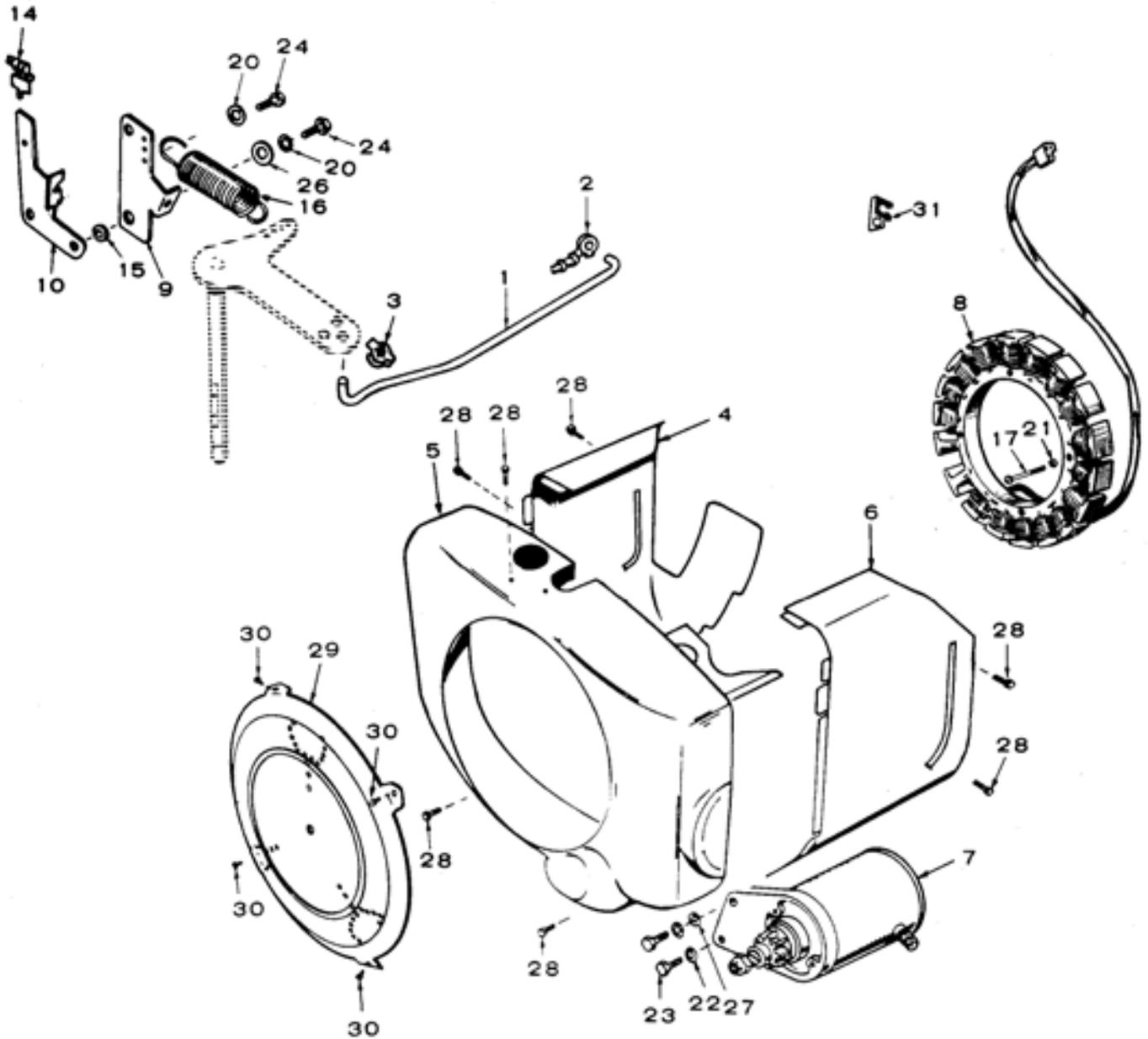
-Parts Included in 142-0571 Gasket Kit.
*Parts Included in 142-0570 Repair Kit.

S/51

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

GOVERNOR, STARTER, ALTERNATOR AND AIR HOUSING GROUP

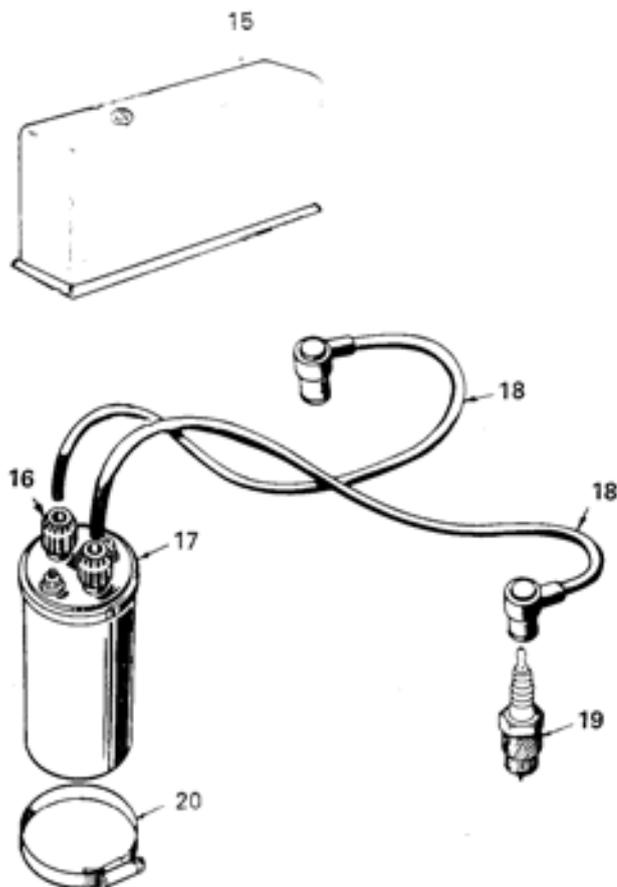
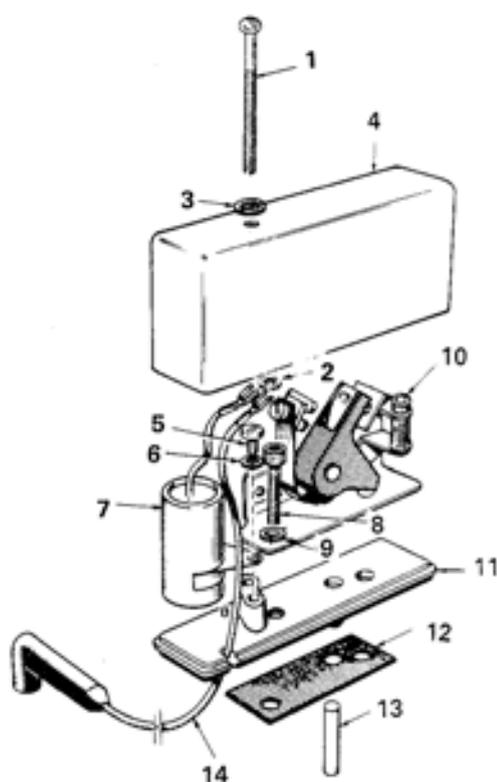


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	150-1350	Control Rod	20	850-0040	Lockwasher (1/4")
2	518-0004	Clip	21	850-0030	Lockwasher (No. 10)
3	870-0278	Push Nut (3/16")	22	850-0045	Lockwasher (5/16)
4	134-2890	Cylinder Air Housing (L.H.)	23	800-0028	Hex Head Cap Screw (5/16 - 18 x 1")
5	134-2393	Blower Housing	24	821-0010	Hex Head Cap Screw (1/4 - 20 x 1/2")
6	134-2889	Cylinder Air Housing (R.H.)	26	526-0214	Flat Washer (1/4")
7	191-1171	Starting Motor Assembly (For Components - See Separate Group)	27	526-0113	Flat Washer (5/16")
8	191-1102	Charging Alternator Stator	28	815-0261	Hex Head Cap Screw (1/4 - 20 x 7/16")
9	150-1576	Arm	29	134-2606	Screen Guard (Stationary)
10	150-1343	Bracket	30	815-0378	Self Tapping Screw (No. 14 x 1/2")
14	518-0176	Clip	31	167-0188	Clip
15	150-1269	Bushing			
16	150-1214	Spring			
17	813-0108	Round Head Screw (10 - 32 x 1 - 1/2")			

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

BREAKER BOX AND IGNITION GROUP



KEY NO.	PART NO.	DESCRIPTION
1	812-0108	+*Machine Screw, Round Head (No. 10 - 24 x 1 - 1/2")
2	509-0065	+*Retainer, "O" Ring
3	526-0008	+*Flat Washer (13/64" I.D. x 7/16" O.D. x 1/32" Thick)
4	160-1232	*Cover (Includes Parts Marked +)
5	815-0358	*Cap Screw (No. 8 - 32 x 5/16") - Slotted
6	850-0025	*Lockwasher (No. 8)
7	312-0196	*Condenser
8	802-0034	*Cap Screw (1/4 - 20 x 3/4") - Socket Head
9	850-0038	*Lockwasher (1/4")
10	160-1183	*Point Set
11	160-1219	*Base

KEY NO.	PART NO.	DESCRIPTION
12	160-1150	*Gasket
13	160-1151	Plunger
14	338-2132	Lead
15	160-1210	Breaker Box (Inc. Parts Marked *)
16	160-0604	Terminal Cap (Part of Coil)
17	160-0605	Ignition Coil
18	SPARK PLUG CABLE	
	160-1595	17"
	160-1596	15"
19	160-0237	Spark Plug
20	803-0311	Coil Clamp
"	160-1213	Tune-Up Kit (Inc. Key No's. 7 & 10)

*Parts not used in 160-1210 Breaker Box.

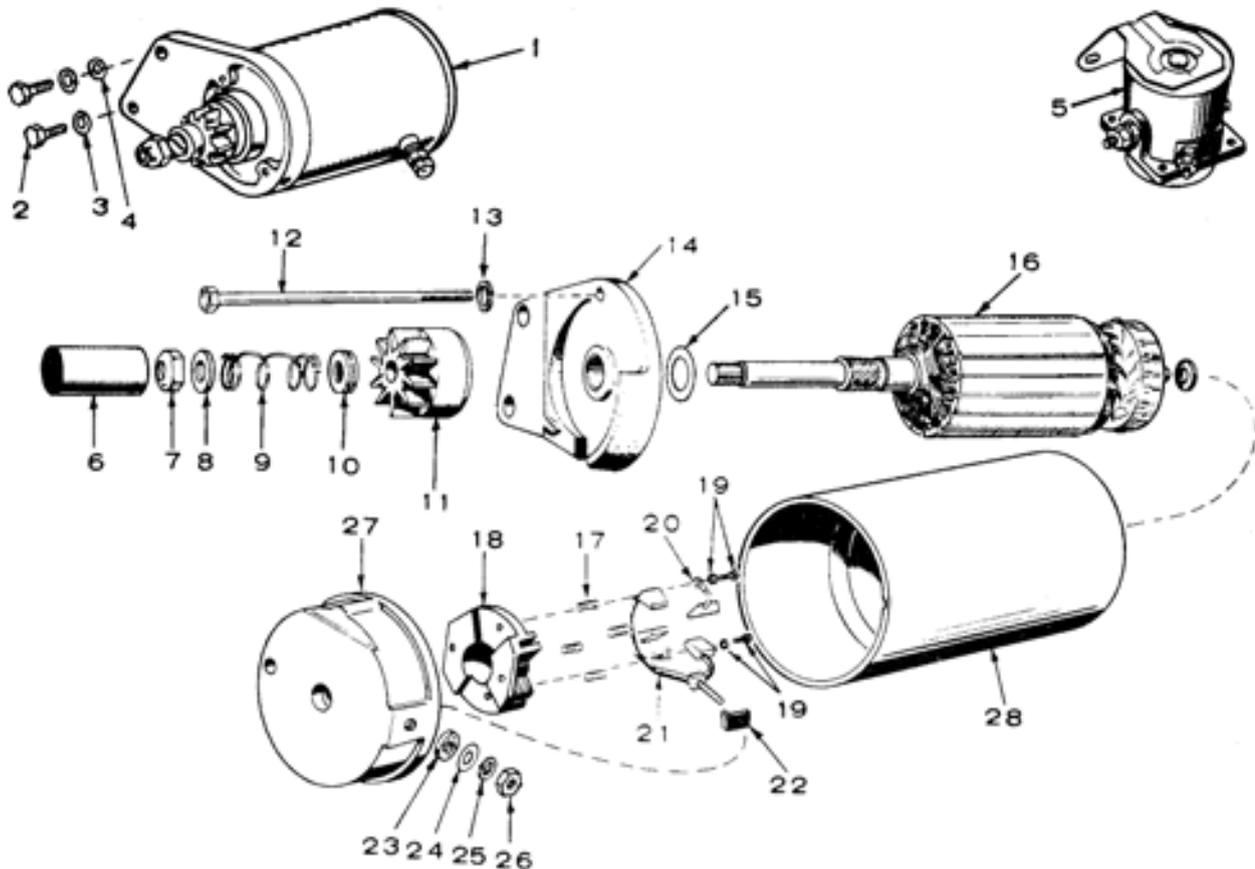
**Parts not used in 160-1232 Cover.

REPLACE SPARK PLUG WITH RESISTOR SPARK PLUG ONLY.

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

STARTER MOTOR PARTS GROUP



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	191-1171	Starting Motor, Complete	15	191-1038	Washer
2	800-0028	Cap Screw (5/16 - 18 x 1")	16	191-1221	Armature
3	850-0045	Lockwasher (5/16")	17	†	*+Spring
4	526-0113	Flat Washer (11/32" I.D. x 1" O.D. x 3/32" Thick)	18	†	+Brush
5	307-1031	Starting Solenoid	19	†	+Screw and Lockwasher
6	191-1034	Dust Cover	20	†	*+Brush
7	191-1045	Stop Nut	21	†	*+Stud and Brush Assembly
8	191-1046	Washer	22	†	+Bushing
9	191-1035	Spring	23	†	+Insulation Washer
10	191-1047	Spacer	24	†	+Flat Washer
11	191-1156	Drive Assembly	25	†	+Lockwasher
12	191-1220	Cap Screw	26	†	+Nut
13	850-0040	Lockwasher (1/4")	27	191-1040	Cap Assembly (Includes Parts Marked +)
14	191-1219	Cap Assembly	28	†	Housing
			---	191-1222	Repair Package (Includes Parts Marked *)

+Parts included in 191-1040 Cap Assembly.
*Parts included in 191-1222 Repair Package.
†Not Sold Separately.

Source \$151

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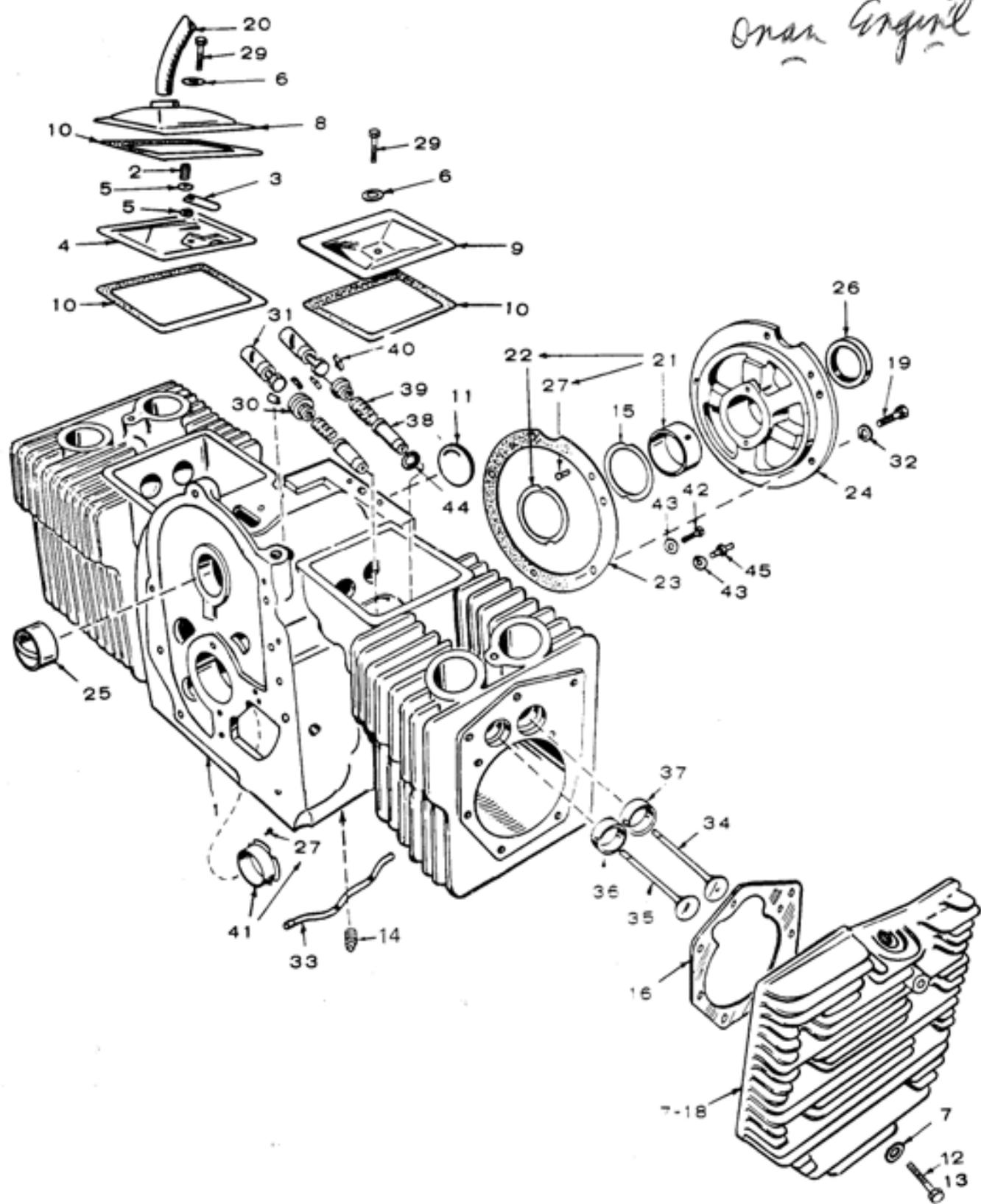
REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

CYLINDER BLOCK GROUP

5 151-

Onan Engine



REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

CYLINDER BLOCK GROUP

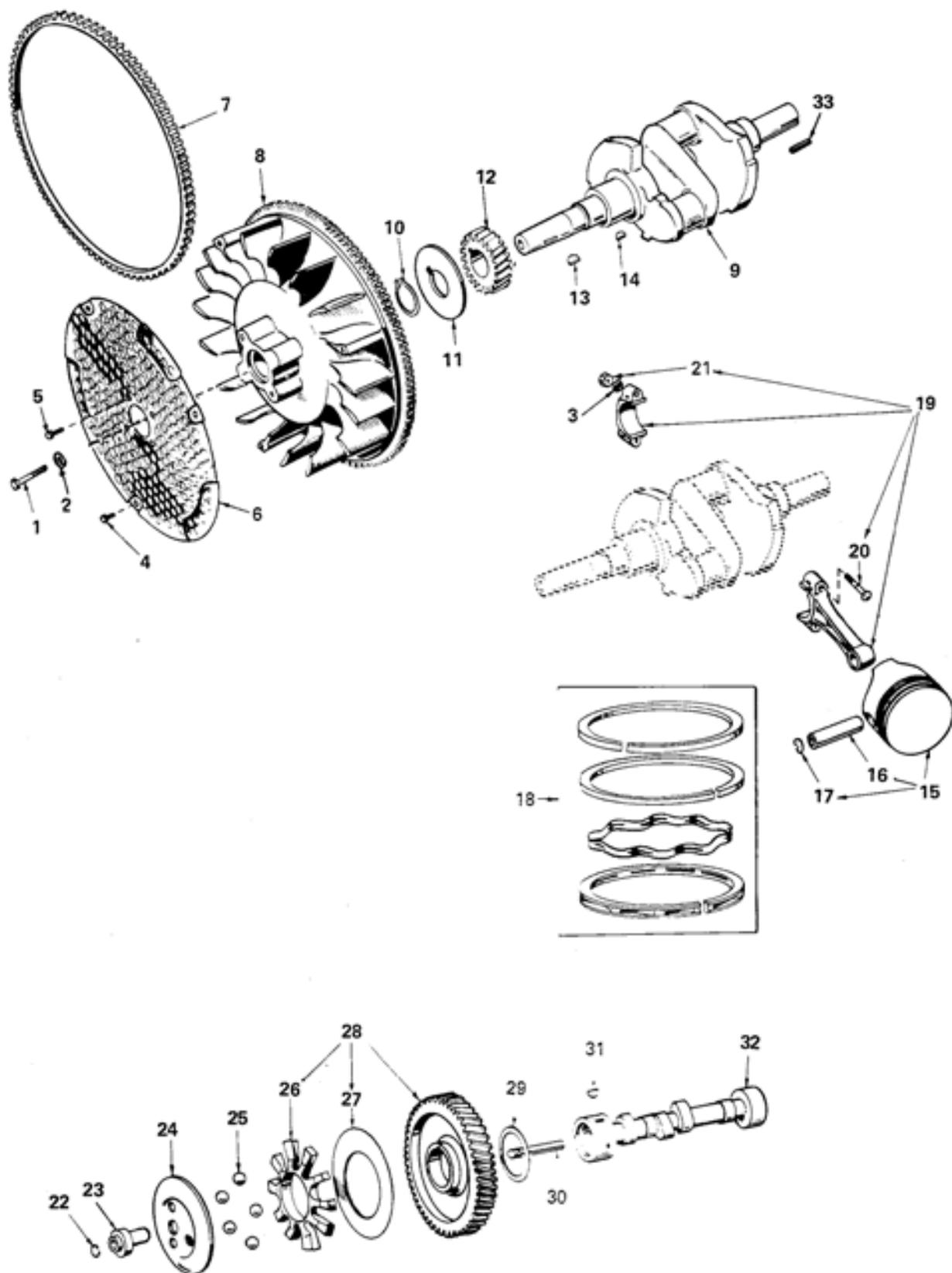
KEY NO.	PART NO.	DESCRIPTION
1	110-2580	Cylinder Block Assembly
2	123-1174	Spring
3	123-1175	Valve
4	123-1173	Baffle
5	526-0018	Flat Washer (1/4" Steel)
6	526-0063	Flat Washer (1/4" Copper)
7	526-0122	Flat Washer (5/16" Steel)
8	110-1878	Cover (L.H.)
9	110-1879	Cover (R.H.)
10	110-1921	Gasket
11	517-0048	*Expansion Plug
12	800-0540	Hex Head Cap Screw (5/16 - 18 x 1 - 5/8")
13	800-0541	Hex Head Cap Screw (5/16 - 18 x 2")
15	104-0776	*Shim (.005")
16	110-1920	Gasket
17	110-1924	Cylinder Head (R.H.)
18	110-1925	Cylinder Head (L.H.)
19	800-0051	*Hex Cap Screw (3/8 - 16 x 1 - 1/4")
20	123-1176	Breather Tube
21	REAR BEARING KIT	
	101-0450	*Standard
	101-0450-02	.002" Undersize
22	104-0575	*Bearing Thrust Washer
23	101-0415	*Gasket
24	101-0439	*Bearing Plate (Less Bearings)
25	101-0405	*Camshaft Bearing (Precision)
26	509-0041	*Oil Seal
27	516-0072	*Stop Pin
29	800-0010	Screw, Hex Cap (1/4 - 20 x 1 - 3/4")
30	110-0893	Retainer
31	115-0006	Tappet
32	850-0050	*Lockwasher (3 8")
33	120-0706	*Oil Tube
34	110-1808	Intake Valve
35	110-1809	Exhaust Valve
36	EXHAUST VALVE SEAT INSERT	
	110-0245	Standard
	110-0245-02	.002" Oversize
37	INTAKE VALVE SEAT INSERT	
	110-0197	*Standard
	110-0197-02	.002" Oversize
38	110-1807	*Valve Guide
39	110-0539	Valve Spring
40	110-0639	Retaining Lock
41	FRONT BEARING KIT	
	101-0432	*Standard
	101-0432-02	.002" Undersize
42	800-0046	Hex Head Cap Screw (3/8 - 16 x 1 1/2")
43	526-0066	Flat Washer (3/8" Copper)
44	110-0068	Gasket (Used with Intake Valve Guide Only)
45	520-0820	Stud (3 8 - 16)

*INCLUDED IN CYLINDER BLOCK ASSEMBLY

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

CRANKSHAFT, FLYWHEEL, PISTON,
CONNECTING ROD AND CAMSHAFT GROUP



REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

CRANKSHAFT, FLYWHEEL, PISTON, CONNECTING ROD AND CAMSHAFT GROUP

KEY NO.	PART NO.	DESCRIPTION
1	104-0170	Cap Screw (7/16 - 14 x 4")
2	850-0055	Lockwasher (7/16")
3	526-0017	Flat Washer (15/32" I.D. x 1 - 1/4" O.D. x 1/4" Thick)
4	821-0010	Locking Screw
5	821-0014	Cap Screw (5/16 - 18 x 1/2")
6	134-3495	Guard
7	104-0779	Ring Gear
8	134-3494	Flywheel (Includes Ring Gear and Stator)
9	104-0889	Crankshaft
10	518-0014	Retaining Ring
11	104-0043	Gear Retaining Washer
12	104-0032	Gear
13	515-0227	Key, Flywheel
14	515-0001	Key, Crankshaft Gear
15	PISTON AND PIN (INCLUDES RETAINING RINGS)	
	112-0134	Standard
	112-0134-05	.005" Oversize
	112-0134-10	.010" Oversize
	112-0134-20	.020" Oversize
	112-0134-30	.030" Oversize
	112-0134-40	.040" Oversize
16	112-0122	Piston Pin
17	518-0311	Retaining Ring
18	RING SET, PISTON	
	113-0174	Standard
	113-0174-05	.005" Oversize
	113-0174-10	.010" Oversize
	113-0174-20	.020" Oversize
	113-0174-30	.030" Oversize
	113-0174-40	.040" Oversize
19	CONNECTING ROD (INCLUDES BOLT AND NUT)	
	114-0225	Standard
	114-0225-10	.010" Undersize
	114-0225-20	.020" Undersize
	114-0225-30	.030" Undersize
20	114-0228	Bolt (Special)
21	870-0137	Hex Nut, Locking (5/16 - 24)
22	150-0078	Retaining Ring
23	150-1519	Hub
24	150-1520	Cup
25	510-0015	Flyball
26	150-1257	Spacer
27	150-0077	Plate
28	105-0332	Gear (Includes Spacer and Plate)
29	105-0004	Thrust Washer
30	150-0075	Center Pin
31	515-0001	Camshaft Gear Key
32	105-0402	Camshaft (Includes Center Pin)
33	515-0103	Key (1/4" x 1/4" x 2")

REPAIR PARTS

SS/16 GARDEN TRACTOR--MODEL NUMBER 917.608100
ONAN ENGINE--MODEL NUMBER BF-MS/3394F

OIL SYSTEM AND GEARCASE ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	120-0491	Oil Pump (Components Not Sold Separately)
2	120-0161	Oil Pump Gasket Kit
3	850-0040	Lockwasher (1/4")
4	800-0007	Cap Screw (1/4 - 20 x 1")
5	120-0713	Intake Cup
6	801-0050	Cap Screw (3/8 - 24 x 1")
7	526-0066	Flat Washer, Copper (25/64" I.D. x 9/16" O.D. x 1/16" Thick)
8	120-0140	Spring
9	120-0398	Plunger
10	516-0141	Pin (5/16 x 1 - 1/8)
11	102-0741	Oil Base
12	505-0056	Plug
13	102-0693	Gasket
14	850-0050	Lockwasher (3/8")
15	800-0056	Cap Screw (3/8 - 16 x 2 - 1/2")
16	123-1138	Cap and Indicator
17	505-0002	Nipple, Pipe (1/2 x 3")
18	505-0158	Cap, Pipe (1/2")
19	103-0498	Gearcase Assembly
20	510-0105	*Bearing
21	150-1470	*Shaft and Arm
22	150-1187	*Yoke
23	815-0046	*Pan Head Screw (No. 8 - 32 x 3/8")
24	516-0130	*Dowel Pin
25	509-0008	*Seal
26	510-0014	*Bali
27	509-0040	*Seal
28	103-0408	Gasket
29	CAP SCREW	
	800-0032	5/16 - 18 x 1 - 3/4"
	800-0034	5/16 - 18 x 2 - 1/4"
30	526-0065	Flat Washer, Copper (21/64" I.D. x 9/16" O.D. x 1/16" Thick)

*INCLUDED IN 103-0498 GEARCASE ASSEMBLY

SERVICE KITS AND MISCELLANEOUS

PART NO.	DESCRIPTION
160-1213	Ignition Tune-up Kit
168-0123	Carbon Removal Gasket Kit
168-0124	Engine Gasket Kit

Sears

**MODEL NO.
917.608100**

HOW TO ORDER REPAIR PARTS

MODEL NUMBER

The Model Number will be found on the Model Plate attached to the Battery Heat Shield, in front of the Battery. Always mention the Model Number when requesting service or repair parts for your Garden Tractor.

REPAIR PARTS

All parts listed herein may be ordered from any SIMPSONS-SEARS LIMITED retail or catalog store.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

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

If the parts you need are not stocked locally, your order will be electronically transmitted to a Simpsons-Sears Repair Parts Distribution Center for "expedited handling".