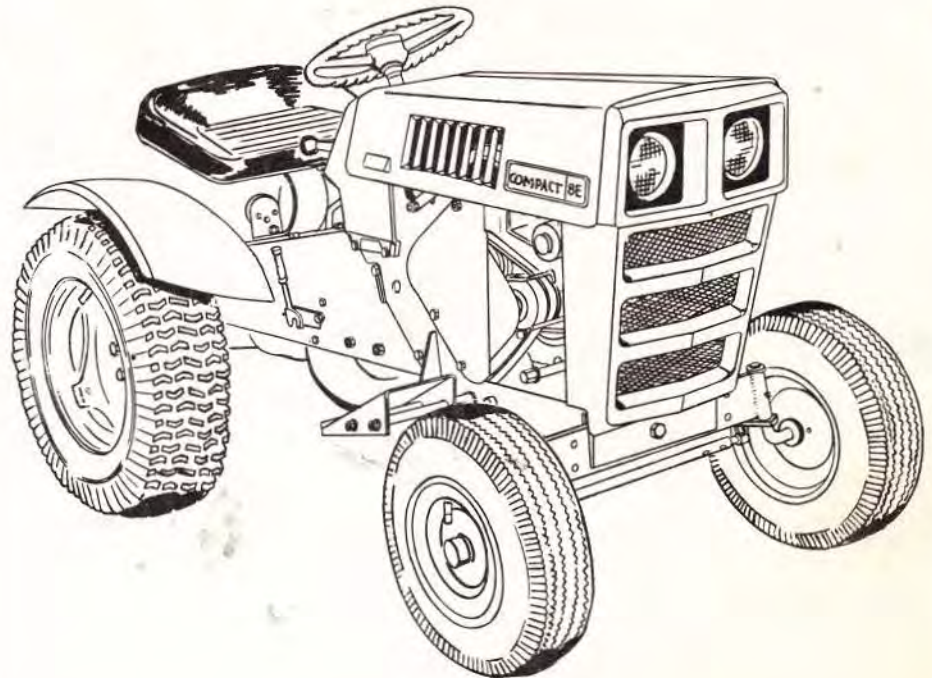


Sears
owners
manual

MODEL NO.
917.25041



COMPACT 8E GARDEN TRACTOR

- Assembly
- Operating
- Maintenance
- Repair Parts

Sears, Roebuck and Co., Chicago, Ill. 60607 U.S.A.
and Simpsons Sears Limited, Toronto

GUARANTEE

Your Tractor is guaranteed for one full year. If any defect in material or workmanship should appear during this time, simply contact our nearest Sears store or service center throughout the United States or Canada. We will make all necessary repairs, including parts and labor, at no charge to you. Tractors equipped with batteries: If battery proves defective and will not hold a charge, in exchange for the battery, we will: During the first 90 days-replace battery at no charge. After 90-days-replace battery, charging customer 1/12th of the price of the new battery for each full month from date of sale.

If the tractor is used for commercial or rental purposes, this guarantee applies for thirty days. Guarantee continued on the inside of the back page.

SEARS, ROEBUCK AND CO. - SIMPSON-SEARS LTD.

SAFETY PAYS OFF

IMPORTANT

rules for safe operation

TRAINING

1. Read the Owners Manual carefully and fully familiarize yourself with the controls and proper use of your tractor as well as any attachment. Be prepared to stop the engine and powered attachment(s) on a second's notice. Only persons well acquainted with these Rules for Safe Operation should be allowed to use your tractor.
2. Do not allow children or young teenagers to start or operate your tractor.
3. Do not allow anyone in the area while operating your tractor. Keep the children and pets in the back yard while using it in the front yard. Keep a wary eye out for children or passers-by. Disengage the power to all attachments and stop the engine while they are in the vicinity of your tractor. Children, particularly, could get in the way of and injured by the tractor or an attachment.

PREPARATION

4. Do not operate the tractor when barefoot or wearing open sandals. Always wear substantial footwear, preferably steel-toed shoes. Also, do not wear loose fitting clothing that could get caught in moving parts.
5. Check your fuel supply before each use. Never remove the gas cap or fill the gasoline tank when the engine is running or while it is hot. When filling the fuel tank, leave space for

expansion, do not fill it to the brim and keep in mind that the heat of the sun can cause the gasoline to expand. Wipe off any spilled gasoline before starting the engine. Remember, gasoline is highly flammable and must always be handled with extreme care.

6. A tractor and all attachments are precision pieces of equipment, not playthings, therefore extreme caution must be exercised at all times.
7. Never attempt to operate a damaged tractor or attachment, always repair any damage before attempting to start or operate your tractor or attachment.
8. Never attempt to carry any passengers, their safety as well as your safety will be endangered.
9. Before attempting to start the engine of your tractor make sure the gear shift lever is in neutral and the power to all attachments is disengaged, then firmly apply the foot brake and be sure to release the parking brake. The parking brake must always be disengaged when you put the tractor in motion. If the tractor is operated with the parking brake engaged serious damage may result.
10. Each time before leaving the operator's seat, be absolutely sure the power to all attachments is disengaged, the parking brake is engaged, the gear shift lever is in neutral, the engine is shut off, the attachments and all moving parts have completely stopped and the ignition key is removed. Never leave the operator's seat with the engine or any powered attachment running. Always get on or off your tractor from the operator's left-hand side.

rules for safe operation (cont.)

11. Always operate your tractor in daylight; dusk or dark - use your lights.
12. Operate your tractor at safe speeds on wet or slippery surfaces, where traction is unsure. Never at a speed which could cause a skid.

OPERATION

13. Do not attempt to change the governor setting or overspeed the engine. The governor controls the engine speed and protects the engine from damaging, excessive speeds. Excessive engine speeds are dangerous.
14. When starting your engine on tractors equipped with a pull starter, stand firm and make sure your feet are well away from all powered attachments.
15. Never place your hands or feet in or under any powered attachment or near any moving parts while the tractor or any powered attachment is running.
16. Always disengage the power to all attachments, set the parking brake, shift into neutral, shut off the engine, make absolutely sure any powered attachment and all moving parts have completely stopped and remove the ignition key each time you dismount your tractor, even for a second. Children, yourself, other persons or pets may be endangered.
17. If your tractor or any attachment should inadvertently strike a foreign object, immediately disengage the power to the attachment, set the parking brake, shift into neutral, shut off the engine, make absolutely sure any powered attachment and all moving parts have completely stopped, remove the ignition key, disconnect the spark plug wire from the spark plug and keep the wire away from the plug to prevent injury or accidental starting, then thoroughly, inspect the tractor or attachment for any damage. Such damage must be repaired before restarting and operating the tractor or attachment.
18. If the tractor or any powered attachment should start to vibrate abnormally, place the control lever for powered attachments in the disengaged position, set the parking brake, shift into neutral, shut off the engine, make absolutely sure the powered attachment and all moving parts have completely stopped, remove the ignition key, disconnect the spark plug wire from the spark plug and keep it away from the plug to prevent injury or accidental starting, then check immediately for the cause of this vibration as vibration is generally a warning of trouble.
19. Before adjusting, cleaning, repairing or inspecting your tractor or any powered attachment, disengage the power to all attachments, set the parking brake, shut off the engine, make absolutely sure the powered attachments and all moving parts have completely stopped, remove the ignition key, disconnect the spark plug wire and keep it away from the spark plug to prevent injury or accidental starting.
20. Do not run the engine indoors because the engine exhaust fumes contain carbon monoxide which is a tasteless, odorless, deadly poison.
21. Never operate your tractor upon a terrace, slope or incline that is too steep to preserve good stability and control in order to prevent tipping or sideways upsets. Always operate a tractor up and down such an incline, at a slow speed, do not operate it across. Always exercise extreme caution when changing direction on inclines. Never attempt to operate your tractor on steep terraces, slopes or inclines with more than a 15 degree slope.
22. Do not start or stop suddenly when going up or down a terrace, slope or incline. If it is necessary to stop your tractor upon an incline, do so firmly to prevent the tractor from picking up speed during declutching and before reaching the brake position. Do not shift gears while going up or down inclines. Choose a gear low enough to negotiate the incline without stopping and shifting gears. To reduce the speed of the tractor on an incline move throttle lever to slow.
23. Never attempt to operate your tractor or any attachments without the proper shields, guards, plates or other protective devices in place and fully functioning.
24. Before and while attempting to back up, look carefully to be absolutely sure that children, bystanders, pets, foreign objects or obstacles of any kind are not behind you.
25. Never allow anyone near the tractor or any attachment while they are operating.
26. Be sure to exercise special care when operating your tractor around fixed objects in order to prevent the tractor or any attachment from striking them. Never deliberately run a tractor or an attachment into or over any foreign objects.
27. Use care when pulling loads. Use only approved drawbar hitch points. Limit loads to those you can safely control. Do not turn sharply. Use counterweight or wheel weight(s) when suggested in the attachment Owners Manual.
28. Never shift gears to reverse your direction of travel until the tractor comes to a complete stop.
29. Always stay alert to avoid holes in the terrain and other hidden hazards. Tipping or sideways upsets can happen easily in holes or ditches. Use low gear on unfamiliar ground. If the tractor or any attachment becomes stuck in a hole, always disengage the power to all attachments before attempting to free it.
30. The use of any precision piece of power equipment requires your full concentration and attention to the job being done in order to prevent injury or damage.
31. Always disengage the power to all attachments when not actually in use such as when crossing a gravel drive, sidewalk or roadway or when transporting the tractor.

rules for safe operation (cont.)

32. Watch out for traffic when crossing or near roadways.

MAINTENANCE

33. Keep all nuts, bolts and screws tight in order to be sure that the tractor and any attachment is in safe working condition. Be sure the brake and all powered attachment controls are always in proper adjustment and repair. Check the attachment and engine mounting bolts at frequent intervals for proper tightness. Before performing any maintenance, always disengage the power to all attachments, set the parking brake, shift into neutral, shut off the engine, make absolutely sure the powered attachment and all moving parts have completely stopped, remove the ignition key, disconnect the spark plug wire from the spark plug and keep it away from the plug to prevent injury or accidental starting. The only exception to this rule is carburetor adjustment, page 8.

34. Keep the engine free from accumulations of grass, leaves or excessive grease as these accumulations are combustible and could result in a fire. Always keep your tractor and all attachments in good operating condition and make sure that all shields, guards, plates and other protective devices are in place. Give your tractor and all attachments the regular maintenance they need and have a competent serviceman make a thorough inspection of them at least once a year.
35. Do not store your tractor for prolonged periods (more than 30 days) with gasoline in the tank. Do not store your tractor or a gasoline container inside a building where fumes may reach an open flame or spark, they should be stored in a cool, dry place. Be sure to let the engine cool before storing in any enclosure. Always use an approved gasoline container for storing gasoline and keep your tractor, attachments and gasoline container in locked storage to prevent children from playing and tampering with them.

introduction

This tractor has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears, Roebuck or Simpsons Sears, Ltd. Store. They have well qualified, competent trained technicians and the proper tools to service or repair this unit.

It is important that the operator ALWAYS OBSERVE THE "RULES FOR SAFE OPERATION" as well as other instructions contained in this Manual. We have provided this Manual to help you operate your Tractor with utmost efficiency. We urge you to study this Manual so you will understand your new Tractor thoroughly before operating it. We suggest that you take care of your Manual so that it will be available for future reference should you need it.

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assembly instructions

A letter in paranthesis in the following instructions refers to an arrow in the adjoining Figure (illustration), except when otherwise stated. When R.H. (Right Hand) or L.H. (Left Hand) is used, it should be understood to mean as if one were seated on the Tractor seat facing forward.

1. Remove battery. Cut banding holding Tractor to bottom of crate.
2. Your Tractor has been completely assembled at the factory except, to fill, charge and install the battery. The battery was shipped dry. Instructions are given on page 4 for filling, charging and installation.
3. Your Tractor was lubricated at the factory however, we suggest you follow the Lube Chart on page 9 before operation.

4. Tires were over-inflated for shipping purposes. Reduce air pressure to 12 lbs. in front tires and 8 lbs. in rear tires. This will improve traction and give you the comfortable ride you will want.
5. A plastic bag of parts was shipped with your Tractor and should be opened at this time. It will contain the following items:

- 1 - Battery Clamp
- 2 - Wing Nuts
- 2 - Battery Bolts
- 2 - Flat Washers

(These items hold battery in position on Tractor. They are used in step 3, page 5).

- 2 - Hex Nuts

(They secure ground strap and positive cable to battery. They are used in steps 4 and 5, page 5).

- 2 - Ignition Keys

(We suggest one key be removed from the wire ring and kept in a safe place. Position the second key in the Tractor ignition).

fill and charge battery

CAUTION: DO NOT ASSEMBLE BATTERY TO TRACTOR UNTIL BATTERY HAS BEEN FILLED AND CHARGED.

FILL BATTERY AS SHOWN

WARNING DO NOT OVERFILL--
CORRECT LEVEL IS
BOTTOM OF TUBES IN CELLS...



FIG. 1

1. Fill battery with electrolyte and charge battery as outlined in instructions in battery container. NOTE: After filling cells, let battery stand for thirty (30) minutes. Recheck acid level, add more electrolyte if necessary, then charge battery at a rate not exceeding three (3) amperes for about 2½ hours. CORRECT LEVEL IS BOTTOM OF TUBES IN CELLS.

CUT-AWAY VIEW
OF BATTERY

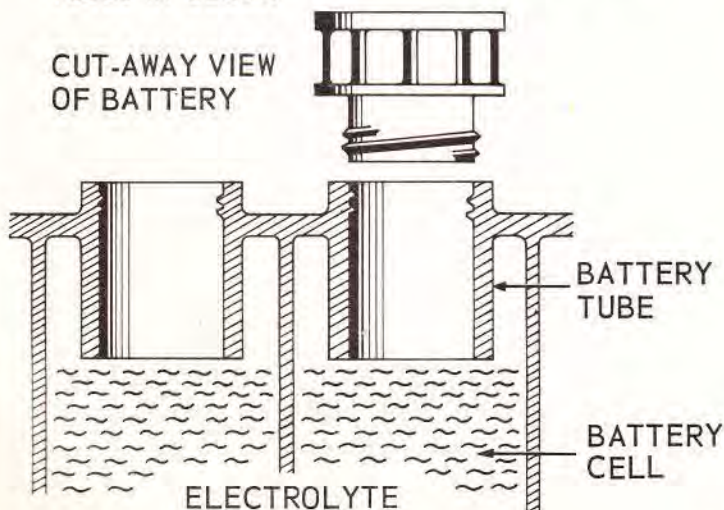


FIG. 2

There will be an amount of electrolyte (acid) in the container after battery is filled. This should be disposed of and not used at a later date to refill Tractor or any other battery. Using a common 5 gallon polyethylene garbage can or pail, fill with a minimum of four inches of water. Avoid spillage on person or clothing, add left over electrolyte to water. Then sodium bicarbonate (baking soda) should be added and the mixture stirred or agitated until the addition of bicarbonate no longer causes foaming. Agitate with a wooden or plastic stake or stick only. It will now be safe to dispose of this down a regular sewage system. Since the product is well neutralized, no criticism from authorities should result.

It is preferable, where permissible, to burn the empty acid pak to prevent possible further contact with acid.

battery installation

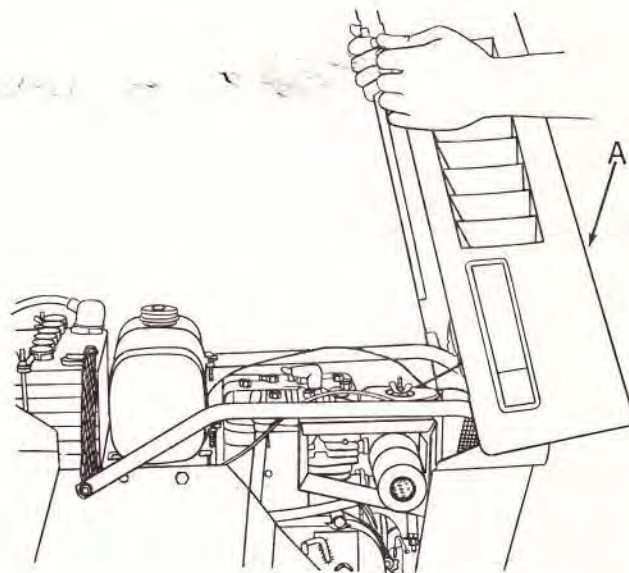


FIG. 3

2. To lift hood assembly (A), grasp each side of hood at rear and pull outward and upward. Lift hood to its extreme forward position.

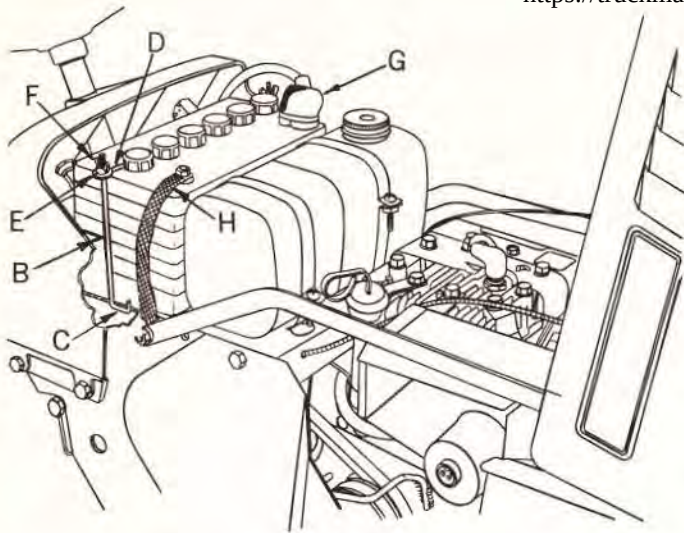


FIG. 4

3. Install battery as shown so that (+) positive and (-) negative terminals are to front of tractor. Hook a battery bolt (B), into battery support (C). Assemble battery clamp (D), flat washer (E), and wing nut (F), to battery bolt (B). Do not tighten wing nut tight. Assemble the other battery bolt to opposite side of Tractor. Position clamp (D) over second battery bolt. Secure with second flat washer and wing nut. Tighten both wing nuts securely. NOTE: Do not over tighten wing nuts, only tight enough to hold battery securely.
4. Connect battery cable (covered cable with terminal cover G), to positive (+) terminal. Tighten nut securely.
5. Connect ground strap (H), to negative (-) terminal. Tighten nut securely.
6. Be sure terminal cover (G), is in place on positive terminal.

seat position

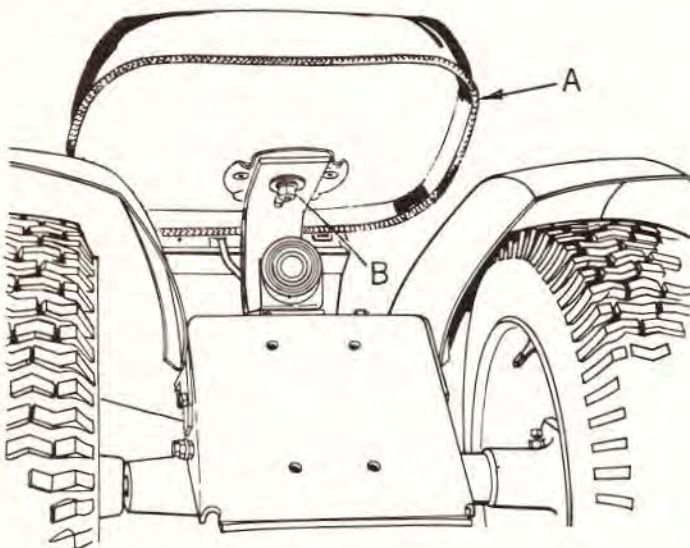


FIG. 5

1. The seat (A), may be moved towards the front or rear to give the most comfortable and safe operating position. To move the seat, loosen the nut (B), beneath the seat and seat spring. Slide the seat to the position desired. Tighten the nut. Make sure that the seat plate has not twisted out of alignment with the seat spring.

instructions before operating

controls

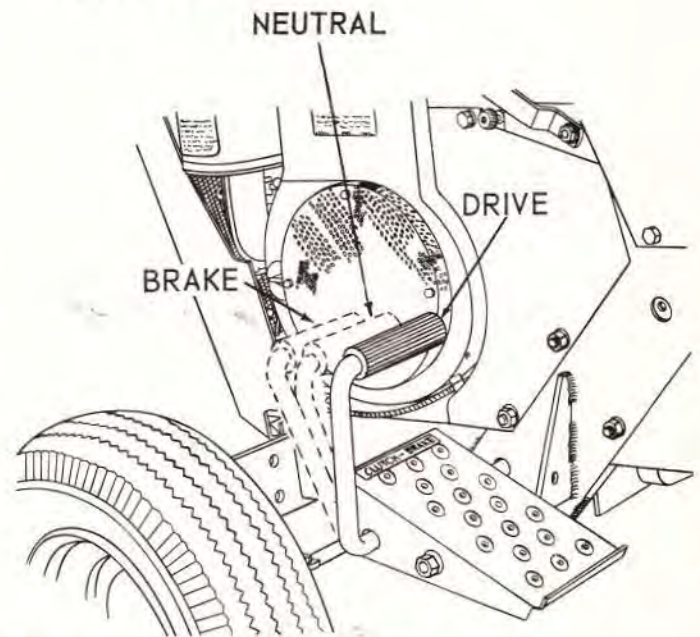


FIG. 6

The following controls are used to operate the Tractor:

1. Clutch and brake foot pedal is located on the left side foot rest. The foot pedal operates a combination brake and drive clutch. There are three positions of operation on the foot pedal.
 - a. The clutch is in DRIVE position when the pedal is all the way out (i.e. when the foot is removed from the pedal).
 - b. The clutch is in NEUTRAL when the pedal is depressed half way or more.
 - c. The BRAKE is on when the pedal is pressed all the way forward.

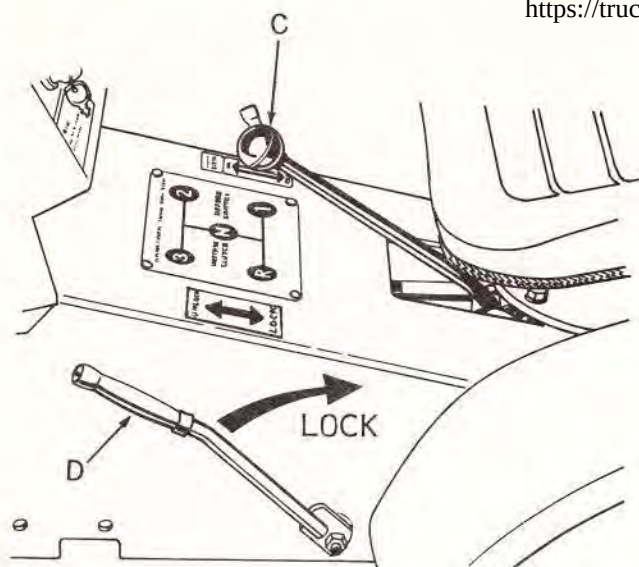


FIG. 7

2. The transaxle (transmission) gear shift lever (C), is located at front, center of seat.
 - a. The gear shift lever selects the FORWARD, NEUTRAL and REVERSE gears.
3. To engage parking brake, pull brake lever (D) to rear (lock) position. To release parking brake push lever (D) forward.

fuel and lubricant

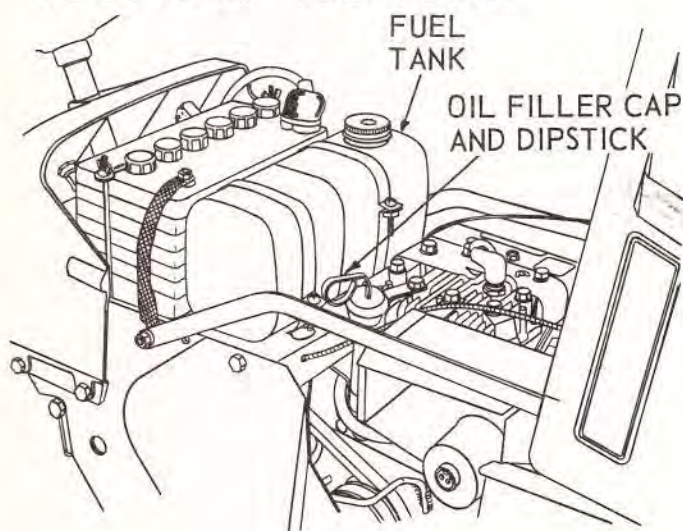


FIG. 8

4. To lift hood assembly grasp each side of hood at rear and pull outward and upward. Lift hood to its extreme forward position.
5. Engine crankcase is shipped with oil ready for use. However, check oil level before starting. If necessary, add oil to bring oil level up to the full oil mark on the dipstick. Dipstick must be pushed in tight for checking oil level, and tractor should be level. NOTE: Do not fill above full mark on dipstick. Use Allstate MS SAE 30 detergent oil or equivalent for summer use. For winter use below (32°) use Allstate regular multi-grade detergent oil MS SAE 10W-30, 10W-40 or equivalent. Nothing should be added to the recommended oil. Make sure the oil used is a high quality detergent oil classified "for service MS". For extreme cold (below 0° F) use MS SAE 5W-20

operating instructions

how to start and stop

DO NOT FILL GASOLINE TANK WHILE ENGINE IS RUNNING. AVOID SPILLING GASOLINE ON A HOT ENGINE. THIS MAY CAUSE AN EXPLOSION AND SERIOUS INJURY. DO NOT MIX OIL WITH GASOLINE. USE CLEAN, FRESH "REGULAR" GRADE GASOLINE. FILL TANK COMPLETELY.

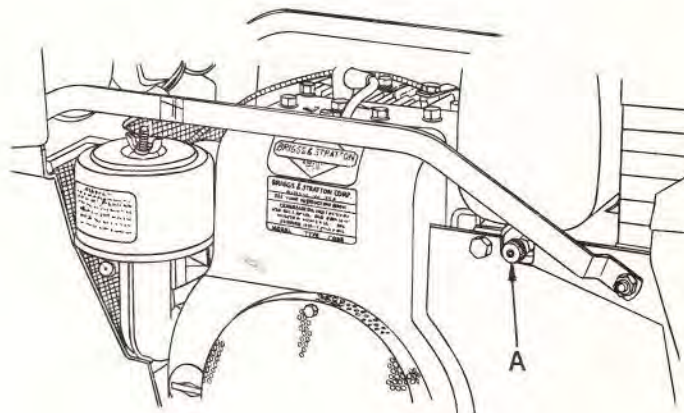


FIG. 9

1. Open gasoline shut-off valve (A). Close gasoline shut-off valve after each days use.

NEVER STORE EQUIPMENT WITH GASOLINE IN THE TANK INSIDE A BUILDING WHERE FUMES MAY REACH AN OPEN FLAME OR SPARK. FOR LONG PERIODS OF STORAGE, THIS GASOLINE TANK SHOULD BE DRAINED. DISCARD THE GASOLINE IN A SAFE PLACE. ALLOW ENGINE TO COOL BEFORE STORING IN ANY ENCLOSURE.

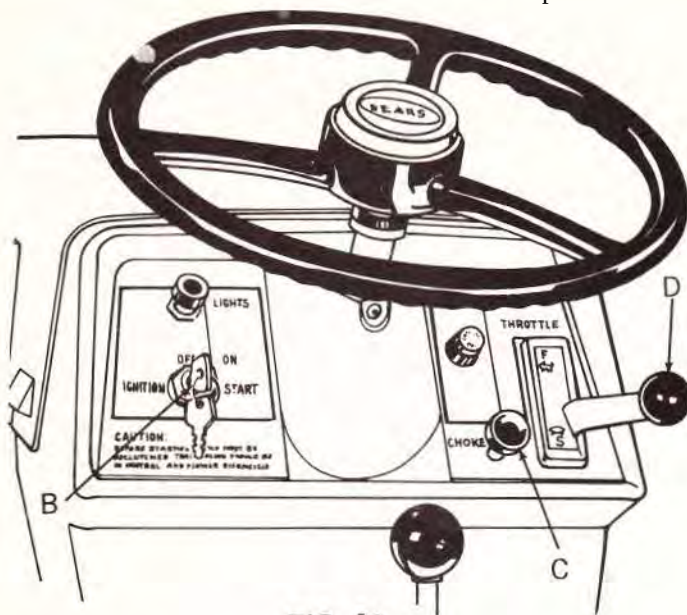


FIG. 10

2. Pull out choke control (C), to full choke position to start in cold weather.
3. Advance throttle control lever (D), to about $\frac{1}{2}$ throttle.

GEAR SHIFT LEVER

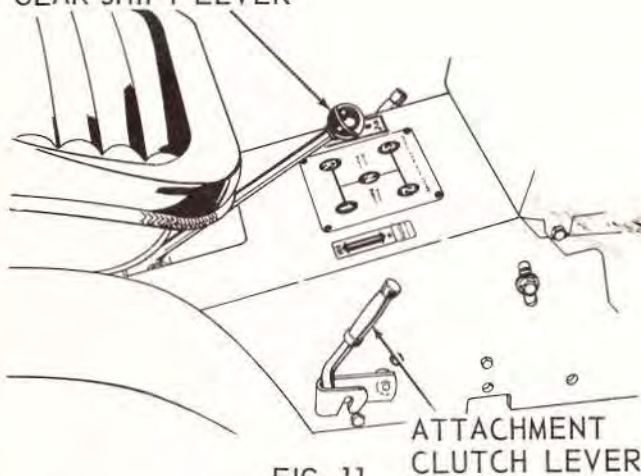


FIG. 11

ATTACHMENT CLUTCH LEVER

4. This tractor is equipped with two safety switches. One switch is located on the gear shift lever. The other switch is located on attachment clutch lever. The gear shift lever must be in neutral (center position). The clutch lever (mower) must also be in disengaged (out) position for engine to start.
5. Turn key (B, Fig. 10), in ignition-starter switch clockwise to engage starter. When engine starts, release key. After engine starts, move throttle control lever (D), to fast position. Let engine warm up, before applying load. CAUTION: Do not run starter continuously for more than 30 seconds at a time. If after several attempts engine does not start, move throttle control lever (D), to fast position. Wait for two minutes, then try again.

6. To stop engine, turn key (B, Fig. 10), in a counterclockwise direction to OFF position. Key should be removed so children can not start Tractor.

safe operating

1. Try your Tractor in a large, open space. Learn to start, stop and reverse.
2. Start the engine and put the throttle control lever at about $\frac{1}{2}$ throttle. Push down on foot pedal, move gear shift lever to speed desired. Release foot pedal slowly, and Tractor will start to move. After foot pedal is fully released (clutch engaged), move throttle control lever to fast position. If ground travel is too fast, depress foot pedal and shift to a slower ground travel speed. Always select a ground travel speed that will suit attachment being used and not overload the engine.
3. Do not shift gears while Tractor is moving.
4. To stop Tractor, push foot pedal all the way down. Move gear shift lever to neutral, set parking brake lock, and release foot pedal. Always check to make sure brake lock will hold Tractor secure. Disengage power to attachment. Shut-off and remove key from switch. This will prevent unauthorized operation. Keep key in a safe place out of reach of children. Never leave engine running with Tractor unattended.
5. Do not operate the Tractor in high gear going down hill. Do not turn sharp corners while going down hill. If it is necessary to stop Tractor while going down hill, do so quickly to prevent Tractor from picking up speed during the declutching to brake position.

NOTE: The engine produces considerable braking action when throttled back to idling speed without declutching. This procedure is recommended before applying brake.

DO NOT OPERATE TRACTOR ACROSS SLOPES. DO NOT OPERATE TRACTOR UP OR DOWN SLOPES WITH MORE THAN A 15 DEGREE SLOPE.

6. Do not shift gears while going up steep hills. Choose a low enough gear to climb hill without stopping and shifting gears. If it is necessary to stop while going up hill, do so quickly to prevent Tractor rolling backward. Before starting Tractor in motion going uphill, use one of the lowest gears. Reduce engine speed and engage clutch gradually to prevent Tractor from "rearing up".
7. Upsets can happen easily in ditches. Stay alert for holes or other yard hazards.

towing tractor

1. Place gear shift lever in neutral position. Tractor can then be towed at a reasonable safe speed not faster than 6 miles per hour.

maintenance air cleaner

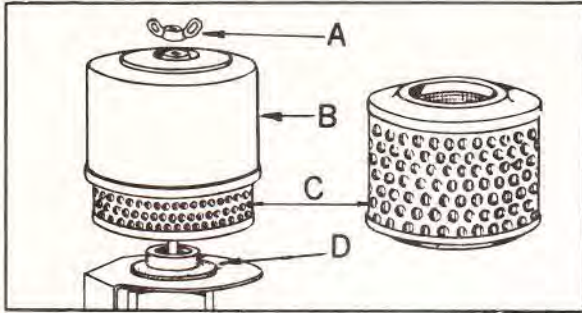


FIG. 12

Clean air cleaner element (C), every 25 hours — more often under dusty conditions.

1. Remove wing nut (A).
2. Remove cover (B).
3. Remove element (C), and tap element (top or bottom) on flat surface or wash in non-sudsing detergent and flush from inside until water is clear. After washing, air dry thoroughly before using. DO NOT OIL.
4. Reassemble parts as shown. Be sure element seats on grommet (D). Screw wing nut (A), down tight.

starter air screen

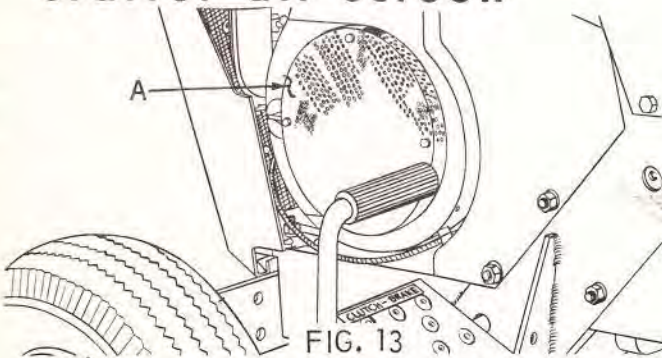


FIG. 13

The starter screen guard (A), and the starter rotating screen (located directly behind the starter screen guard), are designed to keep grass, chaff and leaves from entering the cooling system. They must be cleaned periodically. The cleaning of the screens will vary with the conditions in which the Tractor is used. They should not be allowed to become dirty. This would interfere with the cooling of the engine. Remove the screen guard (A), clean it and the starter rotating screen regularly.

clean cooling system

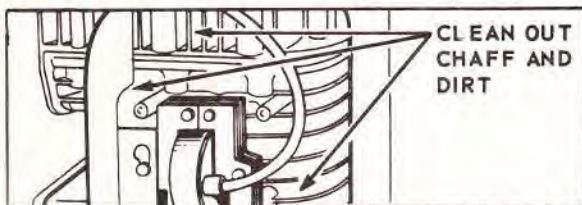


FIG. 14

Grass or chaff may clog cooling system after prolonged service in cutting tall dry grasses or hay. Continued operation with a clogged cooling system causes severe overheating and possible engine damage. Remove blower housing and clean regularly.

carburetor

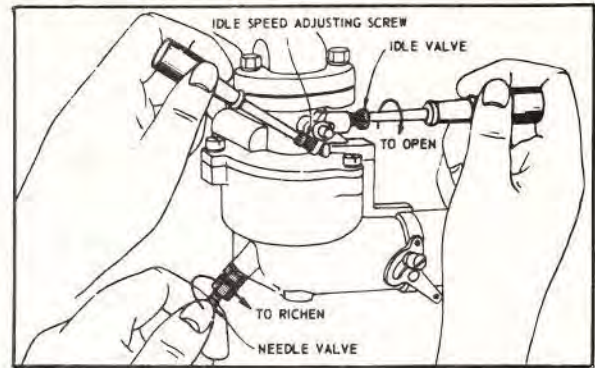


FIG. 15

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

TO ADJUST CARBURETOR: Turn needle valve clockwise until it just closes. **CAUTION:** Valve may be damaged by turning it in too far.

Now open needle valve 1-1/8 turns counterclockwise. Close idle valve in same manner and open 1-1/8 turns. 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 RPM). 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 RPM. 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.

spark plug

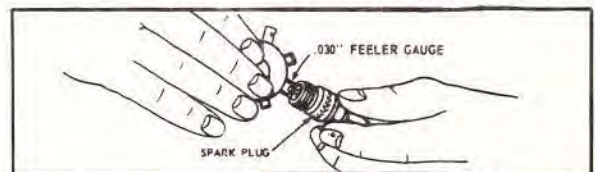


FIG. 16

Clean and reset gap at .030" every 100 hours of operation.

Blast cleaning of spark plugs in machines that use abrasive grit is not recommended. Spark plugs should be cleaned by scraping or wire brushing and washing with a commercial solvent or gasoline. Should spark plug need replacing, use Champion CJ-8.

ignition point gap

The ignition point setting is .020".

engine lubrication

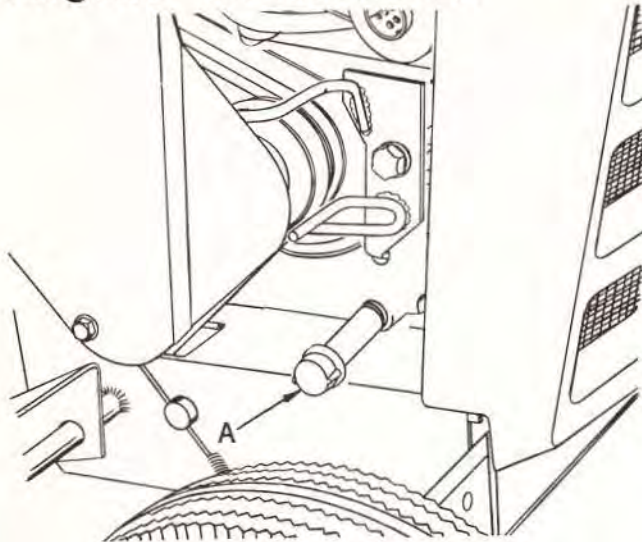


FIG. 17

1. Change oil in engine crankcase after FIRST 5 HOURS of operation. Engine should be warm when oil is changed.
2. To drain oil, remove oil drain plug (A), at lower front end of engine. Catch used oil in suitable container. Replace oil drain plug.

NOTE: THE BEST TIME TO DRAIN OIL IS AT THE END OF A DAY'S OPERATION. THE OIL IS HOT AND ALL DIRT AND FOREIGN MATERIAL IS SUSPENDED IN THE OIL.

OIL FILLER CAP
and DIPSTICK

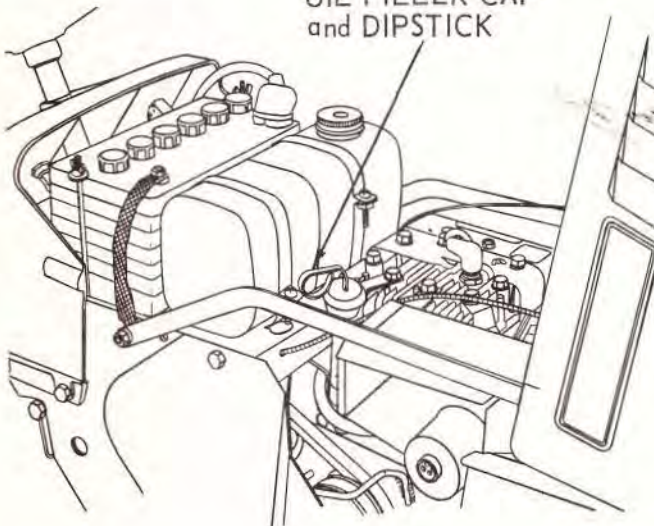


FIG. 18

3. Refill engine crankcase with oil as instructed under "Fuel and Lubricant", page 6. Capacity 2-3/4 pints. Check oil level after each five hours of operation. Add oil, if necessary, to bring to correct level on dipstick.
4. After first oil change, oil should be changed after each 25 hours of operation.

CHECK OIL LEVEL REGULARLY—AFTER EACH 5 HOURS OF OPERATION. STOP ENGINE AND WAIT SEVERAL MINUTES BEFORE CHECKING OIL LEVEL. BE SURE OIL LEVEL IS MAINTAINED AND TRACTOR IS ON LEVEL GROUND.

transaxle (transmission) lubrication

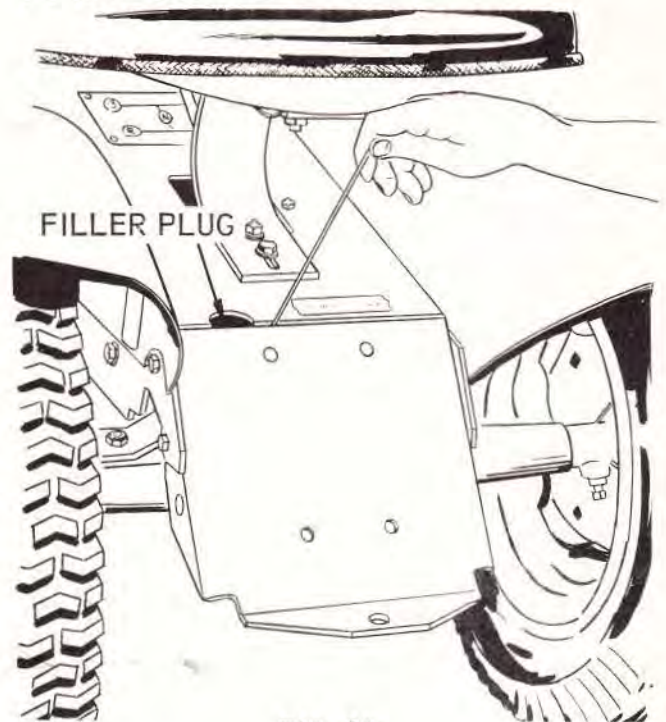


FIG. 19

1. Check oil in transaxle (transmission) every 50 hours of operation. Remove filler plug see Fig. 19 to check oil level. Use a piece of stiff wire 10" to 12" long and insert thru filler opening at a slight angle as shown. Proper oil level will be approximately, 1 3/4" on the wire. Add gear lubricant if necessary to bring level to 1 3/4" on wire. Use Allstate or any high grade multi-purpose extreme pressure gear lubricant SAE 90. Gear case capacity of transaxle is 1 quart.

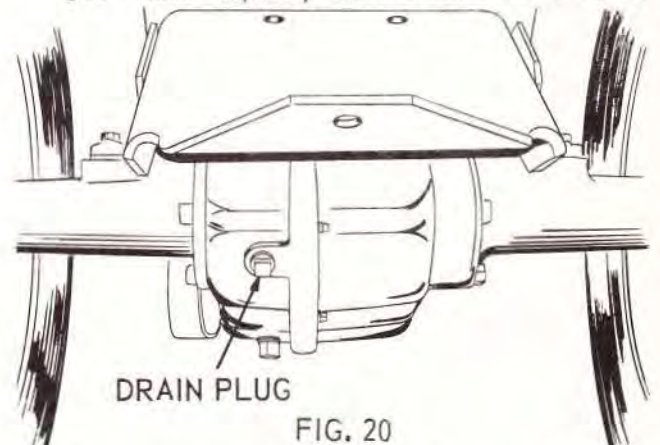
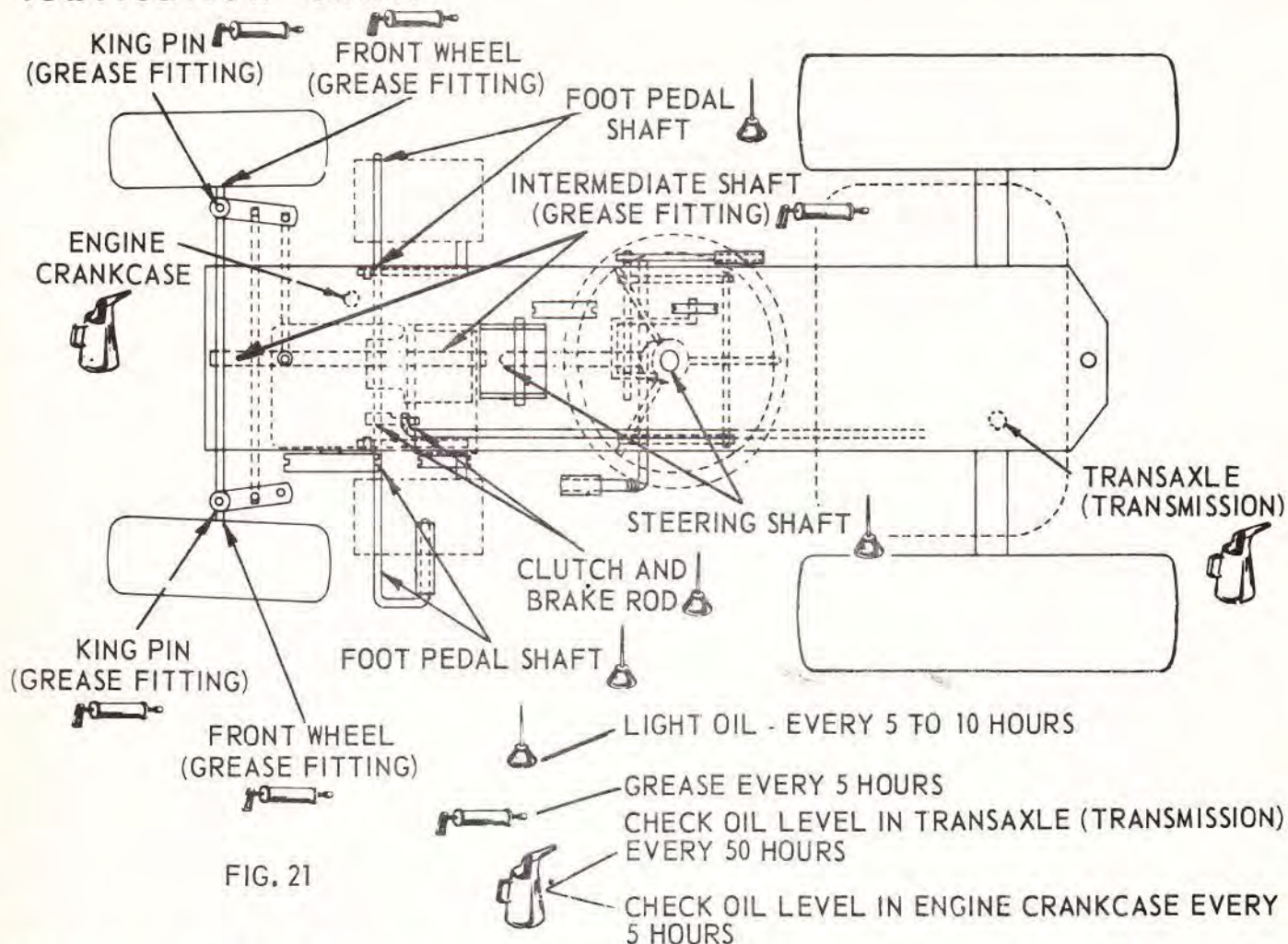


FIG. 20

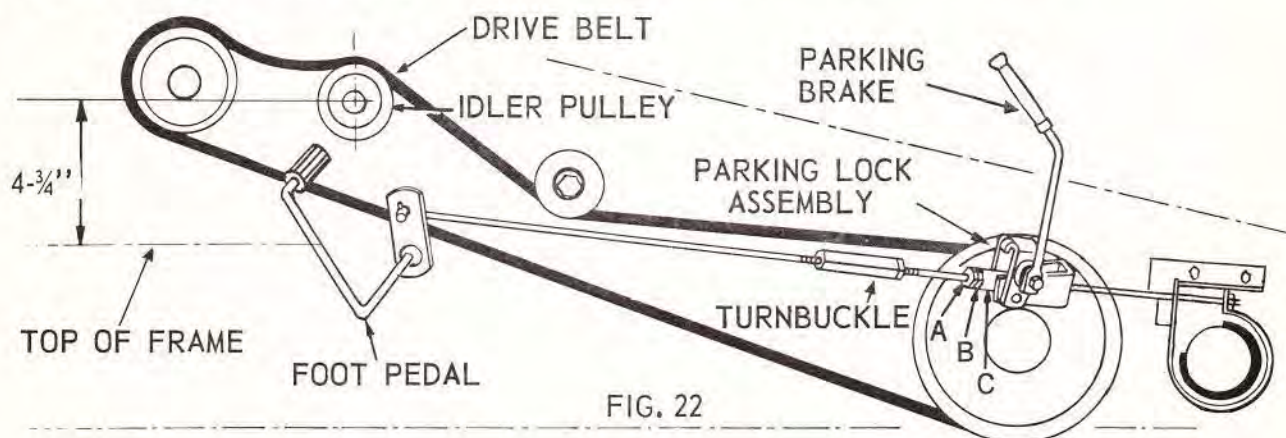
2. Drain oil every 500 hours of operation.
3. To drain oil, unscrew drain plug under rear of transaxle. Replace drain plug and fill with 1 quart of gear lubricant as stated above. Use a funnel for filling transaxle. Replace filler plug.

lubrication chart

<https://truckmanualshub.com/>



brake adjustment



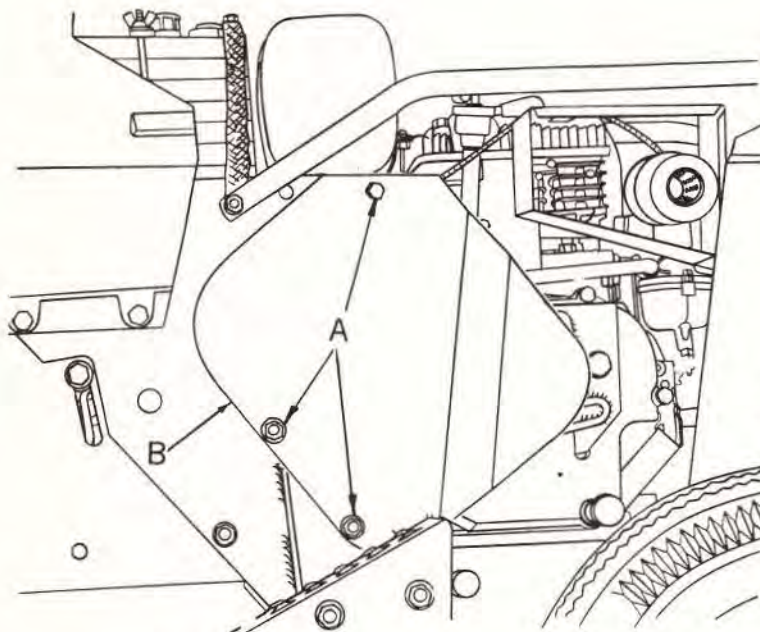
To adjust brake, loosen nut back of turnbuckle and turn turnbuckle (clockwise when standing in front of tractor), one turn at a time until foot pedal has about 4 inches of travel from clutch engaged to full brake position, or center of idler is about 4- $\frac{3}{4}$ inches above frame. Tab on idler bracket will deflect belt slightly. Tighten jam nut against turnbuckle to lock turnbuckle in position. Keep brake properly adjusted especially in hilly terrain.

park brake lock adjustment

To tighten parking brake loosen hex nuts (A and B). Rotate parking lock lever to lock position. By hand press foot pedal forward to full brake position. While holding brake pedal forward tighten nut (B) against bushing (C) finger tight. Release foot pedal, and turn nut (B) back against bushing (C) two additional turns. Tighten nut (A) against nut (B) to lock in position. Place gear shift lever in neutral position. Pull parking lock lever back (lock) position. Rear wheels of tractor should slide when tractor is pushed.

transaxle (transmission) drive belt adjustment

A new belt will stretch after the first few hours of operation, then after initial stretch, adjustment is seldom necessary.



Remove bolts and nuts (A), from belt guard (B), and remove guard.

FIG. 23

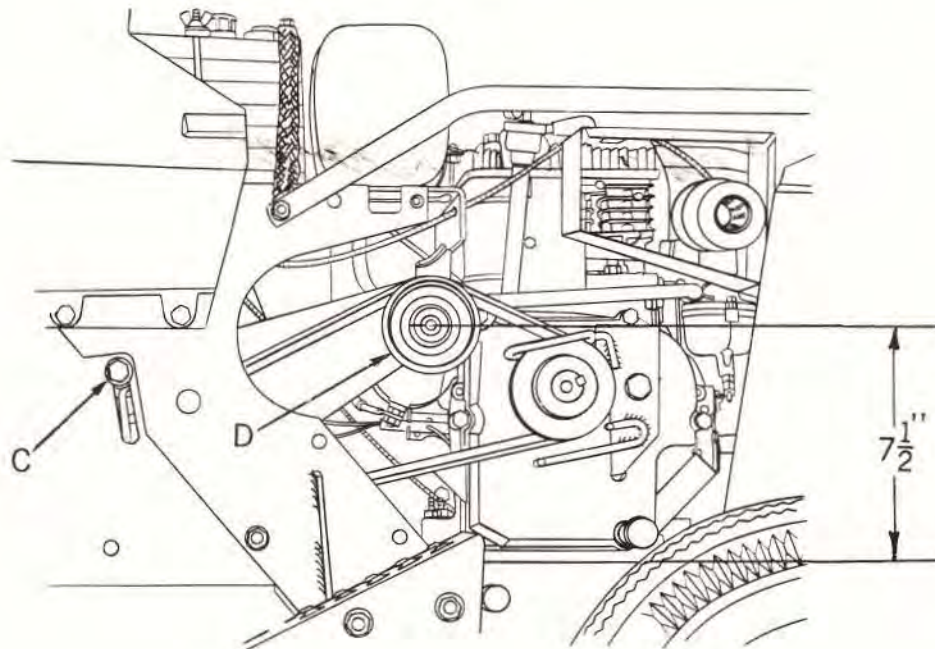


FIG. 24

1. Loosen bolt (C), in flat idler and push bolt down in slot of frame until center of idler pulley (D), is $7\frac{1}{2}$ inches above frame as shown.
2. Tighten bolt (C), in flat idler securely making sure belt guide finger on bolt (C), is parallel with slot in frame.
3. Replace belt guard (B, Fig. 23).

NOTE: Foot pedal should be vertical or just back of vertical position with clutch engaged.

trouble shooting

WILL NOT START

POSSIBLE CAUSE

Dead battery
Attachment clutch lever engaged
Gear shift lever in gear
No gasoline in fuel tank or carburetor

POSSIBLE REMEDY

Recharge or replace battery.
Move to "out" position.
Shift into neutral position.
Fill the tank with gasoline; open fuel shut-off valve.
Check fuel line and carburetor.

HARD TO START

Water in gasoline or old fuel
Choked improperly. Flooded engine
Dirty air cleaner
Spark plug dirty or improper gap
Defective battery
Defective ignition or loose wiring

Drain fuel tank and carburetor. Use new fuel and dry spark plug.
Push in choke, open throttle control and crank engine several times to clear out the gas.
Remove and clean, refer to page 8.
Clean, adjust the gap or replace. Refer to page 8.
Replace.
Check the wiring and spark plug.

ENGINE MISSES OR LACKS POWER

Dirty starter air screen
Partially plugged air cleaner
Low oil level or dirty oil
Improper carburetor adjustment
Spark plug dirty, wrong gap or wrong type
Engine overloaded
Faulty ignition
Oil in gasoline
Poor compression

Clean screen over starter, see page 8. Be sure fins on cylinder head and around cylinder are clean.
Remove and clean, refer to page 8.
Check or change oil, see page 9.
Refer to page 8.
Clean, reset the gap or replace.
Shift to a lower gear or reduce load.
Check spark plug and for loose wires. If trouble cannot be corrected, contact Sears.
Drain and refill gasoline tank and carburetor. Oil reduces the efficiency of the engine.
Contact Sears.

ENGINE OVERHEATS

Dirty starter air screen
Low oil level or dirty oil
Partially plugged muffler
Poor fuel or too lean a mixture
Partially plugged air cleaner
Dirty engine

Clean screen over starter, see page 8.
Check or change oil, see page 9.
Remove muffler from engine and clean.
Refer to page 8.
Remove and clean, refer to page 8.
Clean fins on cylinder head and around cylinder.

NO LIGHTS

No head lights or tail light with light switch knob pulled out

Turn fuse holder on dashboard counterclockwise - check for burned out fuse

tires

Keep tires inflated to 12 pounds of air pressure in front; 8 pounds in rear.

Avoid stumps, stones, deep ruts and other hazards. Cuts in tires should be repaired immediately as neglect decreases the tire life. Keep tires free of oil and grease as both destroy rubber. After using the Tractor for spraying--insect control work--wash off any chemicals that may be on the tires.

To remove a front tire and wheel proceed as follows:

1. Remove hub cap.
2. Unsnap "E" ring from king pin (front axle).
3. Remove flat washer.
4. Slide wheel and tire from king pin (front axle).

A rear wheel and tire is removed by removing the three hub bolts from wheel and hub.

Sears or your local service station can repair your Tractor tire in the same manner as an automobile tire.

how to start if battery is low

1. Connect quick-start battery cables or "jumpers" from your automobile 12 volt battery to the Tractor battery. CAUTION: Connect positive (+) terminal to positive (+) terminal. This method of starting is only a means of emergency starting. Have Tractor battery recharged or replaced immediately.

important battery care

Proper attention to the battery is of utmost importance.

The following points are recorded to help remind you to provide attention to the battery and gain full advantage of the usable life built into the battery and avoid costly replacement.

1. Check solution level in battery at least once each week. Add distilled water when required. Correct level is bottom of tubes in cells, refer to page 4. After adding water, run the engine so that the generator charge will mix the solution. DO NOT OVERFILL. Acid spilled from the battery will corrode choke control and throttle control casing and wire, Tractor paint, etc.
2. Keep the battery clean and dry at all times. Remove any collection of grease, corrosion or other substance from the battery.
3. Keep battery snug in its holder.
4. Keep vent caps tight and small vent holes in caps open.
5. If battery should become discharged or falls below a specific gravity of 1.225, remove battery and have it recharged.
6. When recharging, request service station to SLOW CHARGE the battery at a rate of 3 amperes. FAST CHARGING IS NOT RECOMMENDED.

winter care--battery

1. If Tractor is not used regularly during winter months, the battery should be removed and stored in a cool, dry place above 50° F.
2. Battery should not be placed directly on cement as this will drain the battery.
3. If Tractor is used only infrequently during winter months, check battery at least once each thirty days to be sure a full charge is maintained.
4. A battery not fully charged can freeze, resulting in the necessity to replace.
5. A safe rule is to charge the battery monthly or at least test and recharge if below 1.225 specific gravity.
6. Recharge to bring the specific gravity to normal before replacing it in the Tractor after storage.

Please remember the necessity of proper winter care for the battery. Batteries not in use for several months and not kept fully charged, produce a sulphation of the plates which cannot be removed by recharging.

storage instructions

In the event your Tractor is to be inoperative for periods in excess of 30 days - prepare for storage as outlined below:

1. Drain fuel tank and carburetor by allowing the engine to run out of gasoline. Gasoline left in your engine will leave gum deposits and condensation in the carburetor and fuel tank. This makes fuel system inoperative and will result in hard or non-starting of the engine.
2. Lubricate cylinder by removing the spark plug. Pour one ounce of clean lubricating oil through the spark plug hole into the cylinder. Crank the engine slowly to spread oil and replace the spark plug.
3. Clean the engine and Tractor of all foreign matter.
4. Do not save or store gasoline over winter.

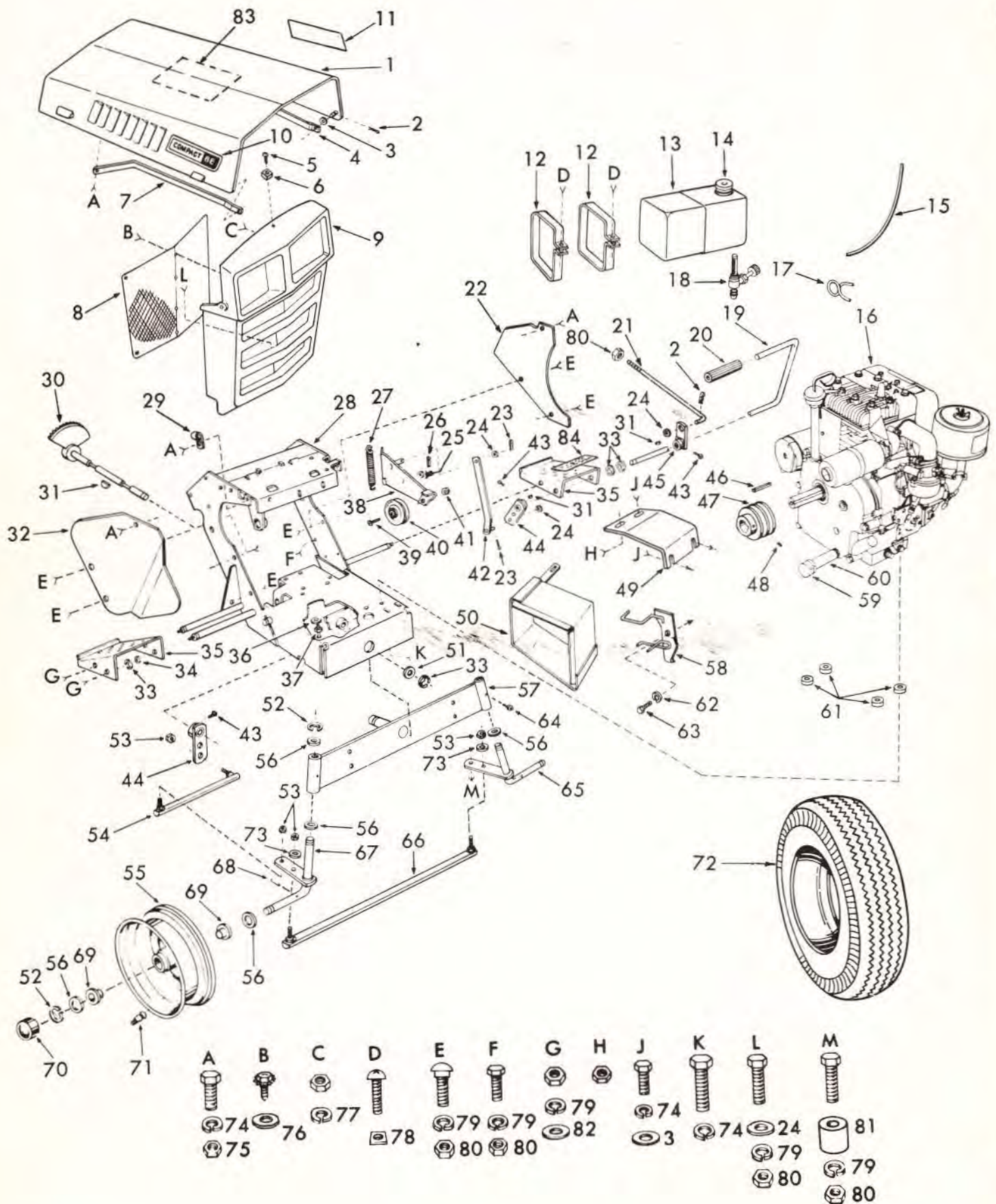
STORE YOUR TRACTOR IN A DRY AND PROTECTED PLACE. LEAVING YOUR TRACTOR OUTDOORS, EXPOSED TO THE ELEMENTS, WILL RESULT IN MATERIALLY SHORTENING ITS LIFE.

1. Just as your automobile needs professional mechanical maintenance from time to time, so does your air cooled engine. Cleaning and adjustment of the carburetor and periodic replacement of the spark plug and ignition points is made necessary by NORMAL use.
2. Professional air cooled engine service is as close as your nearest Sears Store.
3. A yearly check-up or tune-up by Sears is a good idea to avoid breakdowns or delays.

Sears, Roebuck and Co. or 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

COMPACT 8E GARDEN TRACTOR--MODEL NUMBER 917.25041

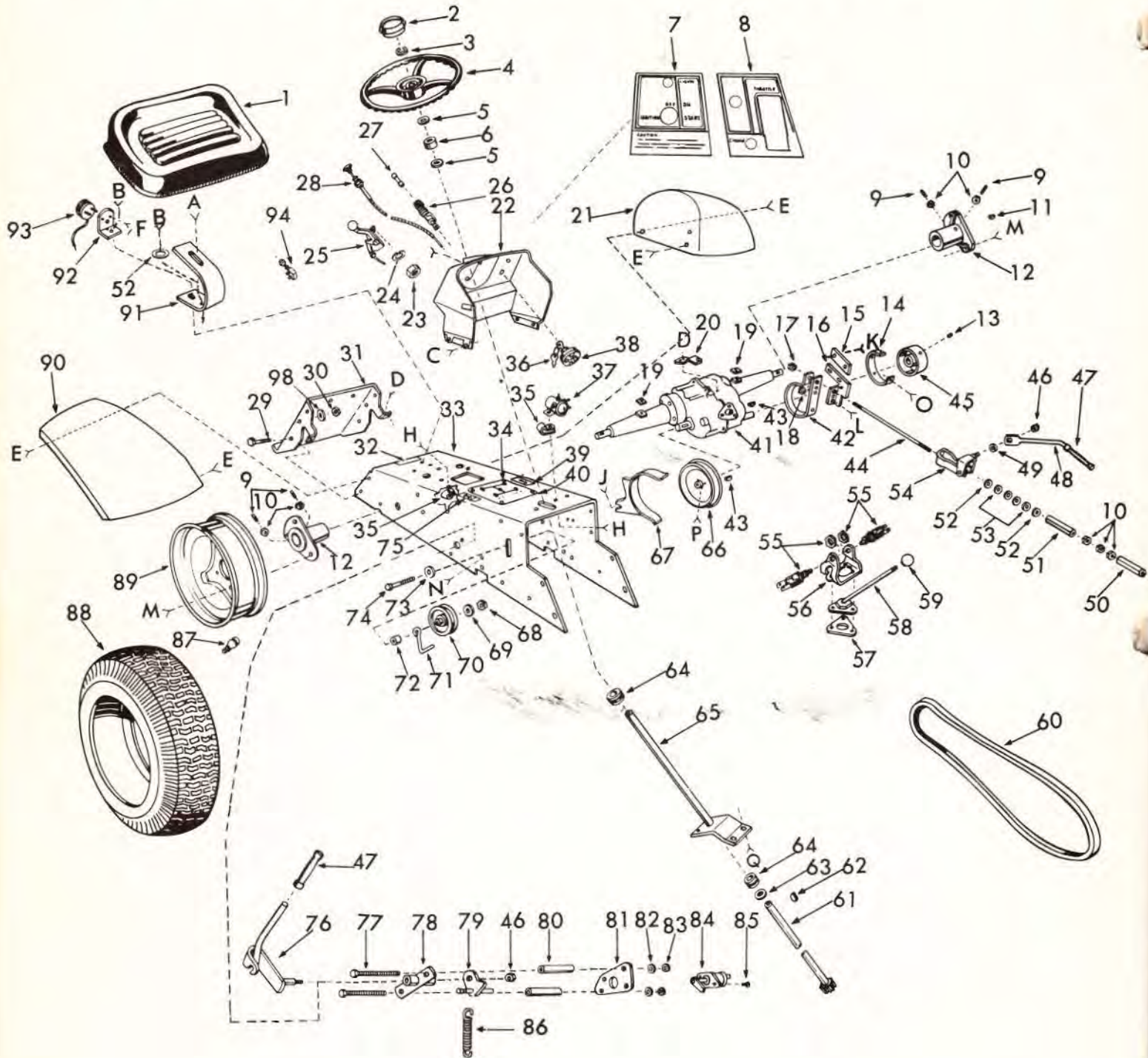


COMPACT 8E GARDEN TRACTOR--MODEL NUMBER 917.25041

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	626A268	Hood Assembly	48	4525P	Set Screw Hex Socket Hdless 3/8 - 16 x 3/8
2	2503P	Cotter Pin 3/32 x 3/4	49	1759R	Engine Tie Bracket
3	1537P	Washer 11/32 x 11/16 x 16 Ga.	50	626A288	Heat Shield Assembly
4	805R	Grill Brace L.H.	51	1548P	Washer 21/32 x 7/8 x 16 Ga.
5	3198P	Slotted Rd. Hd. Mach. Screw #10 - 24 x 1	52	5000P	E-Ring
6	8887H	Rubber Bumper	53	511P	Nylock Nut 3/8 - 24
7	806R	Grill Brace R.H.	54	5137H	Steering Link
8	8837H	Grill Screen	55	2174R	Front Wheel
9	852R	Grill Frame	56	1552P	Washer 49/62 x 1 1/4 x 16 Ga.
10	2104R	Decal - Hood, R.H.	57	626A12	Rocker Bar (Front Axle Assy.)
11	2103R	Decal - Hood, L.H.	58	626A267	Belt Guide Assy.
12	809R	Tank Strap	59	4010P	Pipe Cap 3/8 - 18 N.P.T.
13	814R	Fuel Tank	60	4011P	Pipe 3/8 x 3 1/2 - 18 N.P.T.
14	2188R	Gas Tank Cap	61	844R	Mounting Spacer
15	946R	Fuel Line	62	1000P	Lockwasher 1/2
16	626A319	Engine B. & S. 8 H.P. Model No. 190407	63	3041P	Hex Bolt 1/2 - 20 x 3/4
17	9772H	Hose Clamp	64	6855M	Grease Fitting
18	926R	Shut Off Valve	65	626A193	King Pin Assembly L.H.
19	1795R	Foot Pedal Shaft	66	5136H	Tie Rod
20	8156H	Foot Pedal Sleeve	67	626A194	King Pin Assembly R.H.
21	2192R	Brake Rod-Front	68	5142H	Roll Pin 3/16 x 1 1/4
22	846R	Tie Plate Cover	69	9040H	Flanged Bearing
23	2505P	Cotter Pin 1/8 x 3/4	70	2118R	Hub Cap
24	1513P	Washer 13/32 x 13/16 x 16 Ga.	71	795R	Valve
25	1545P	Washer 17/32 x 1 x 16 Ga.	72	2175R	Tire, Tubeless
26	2505P	Cotter Pin 1/8 x 3/4	73	1559P	Washer 7/16 x 1 x 10 Ga.
27	5105H	Idler Spring	74	1007P	Lockwasher 5/16
28	626A333	Engine Mount and Tie Plate Assembly	75	504P	Hex Nut 5/16 - 18
29	9776H	Control Clip	76	1509P	Washer 5/16 x 3/4 x 16 Ga.
30	626A30A	Intermediate Shaft Assembly	77	1006P	Lockwasher #10
31	9858M1	Woodruff Key 3/16 x 5/8	78	503P	Sq. Nut 1/4 - 20
32	8212H	Belt Guard	79	1004P	Lockwasher 3/8
33	5001P	E-Ring	80	501P	Hex Nut 3/8 - 16
34	1549P	Washer 41/64 x 1 x 12 Ga.	81	2516R	Spacer
35	8172H	Foot Rest	82	1511P	Washer 3/8 x 7/8 x 14 Ga.
36	1505P	Washer 9/32 x 1/2 x 14 Ga.	83	2017R	Decal - Under Hood
37	6842M	Grease Fitting	84	1064R	Decal - Clutch-Brake
38	626A241	Idler Bracket Assembly	A	3010P	Hex Bolt 5/16 - 18 x 3/4
39	1343R	Idler Stud	B	6029P	Hex (end) Self Tapping Screw w/Sems Lockwasher 1/4 - 20 x 5/8
40	1342R	Idler Pulley	C	505P	Hex Nut #10 - 24
41	548P	Hex Jam Locknut 3/8 - 24	D	3153P	Rd. Hd. Phillips Mach. Screw 1/4 - 20 x 1 1/4
42	626A196	Clutch Rod Assembly	E	8P	Carriage Bolt 3/8 - 16 x 1
43	4501P	Set Screw, Sq. Hd. 5/16 - 18 x 1/2	F	3023P	Hex Bolt 3/8 - 16 x 1
44	626A31A	Steering Arm Assembly	G	501P	Hex Nut 3/8 - 16
45	634A33A	Brake Arm Assembly	H	504P	Hex Nut 5/16 - 18
46	9396E	Sq. Key 1/4 x 2	J	3010P	Hex Bolt 5/16 - 18 x 3/4
47	615A40	Engine Pulley w/Set Screw	K	3016P	Hex Bolt 5/16 - 18 x 2 1/4
			L	3027P	Hex Bolt 3/8 - 16 x 1 1/2
			M	3028P	Hex Bolt 3/8 - 16 x 1 3/4
			---	3738R	Owners Manual

repair parts

COMPACT 8E GARDEN TRACTOR-- MODEL NUMBER 917.25041



A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q
95	98	98	98	98	99		82	101	52	82		83			103
96		10		10			83		98	83		102			
97									10			83			

COMPACT 8E GARDEN TRACTOR--MODEL NUMBER 917.25041

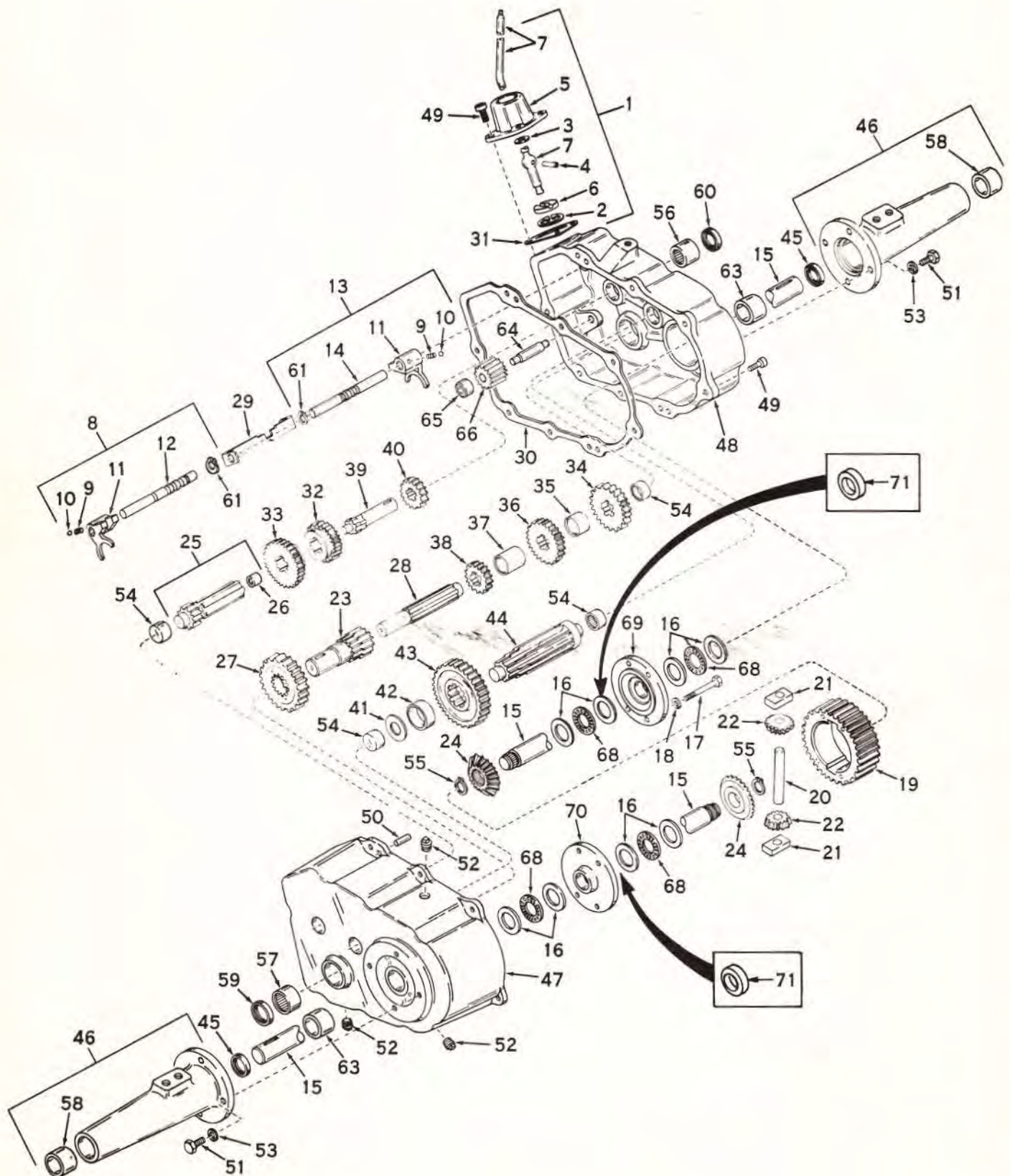
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	2053R	Seat	61	626A29	Steering Shaft Assembly
2	9357H	Steering Wheel Cap	62	9858M1	Woodruff Key 3/16 x 5/8
3	5000P	E-Ring	63	1552P	Washer 49/64 x 1 1/4 x 16 Ga.
4	5138H	Steering Wheel	64	4437H	Steering Bushing
5	9007H	Cap	65	626A109	Steering Column Assembly
6	5949H	Rubber Bushing	66	5134H1	Transaxle Pulley w/Set Screw
7	1771R	Dash Plate L.H.	67	626A20	Rear Belt Guard Assembly
8	2241R	Dash Plate R.H.	68	500P	Hex Nut 7/16-14
9	4524P	Set Screw Sq. Hd. 3/8-16 x 1 1/4	69	1001P	Lockwasher 7/16
10	501P	Hex Nut 3/8-16	70	6635H	Flat Idler
11	5101H	Woodruff Key 1/4 x 1-1/8	71	6479H1	Belt Guide Finger
12	5945H	Wheel Hub-Rear	72	8209H	Idler Spacer
13	4525P	Set Screw Hex Socket Hdless 3/8-16 x 3/8	73	1544P	Washer 15/32 x 59/64 x 16 Ga.
14	7631H	Brake Lining	74	3197P	Hex Bolt 7/16-14 x 3 3/4
15	2194R	Spacer	75	2275R	Decal-Attachment Clutch
16	7870H	Brake Bracket	76	626A347	Clutch Lever Weldment
17	5394H	Center Locknut	77	3254P	Hex Bolt 1/4-20 x 3 1/2
18	508P	Hex Jam Nut 3/8-16	78	626A345	Clutch Hub Weldment
19	6124H	Transaxle Spacer	79	626A346	Clutch Lever Stop Weldment
20	6018H	Transaxle Bracket	80	2215R	Spacer
21	626A176A	Fender Assembly L.H.	81	2218R	Switch Plate
22	2213R	Dashboard, Less Plates	82	1002P	Lockwasher 1/4
23	503P	Hex Nut 1/4-20	83	503P	Hex Nut 1/4-20
24	1002P	Lockwasher 1/4	84	2256R	Implement Safety Switch
25	626A255	Throttle Control	85	5501P	Pan Hd. Phillips Thrd Cutting Screw #10-24 x 3/8 Type T
26	2211R	Fuse Holder	86	2255R	Clutch Return Spring
27	2212R	Fuse 15 amp.	87	795R	Valve
28	862R	Choke Control	88	2165R	Tire-Tubeless
29	3137P	Hex Bolt 3/8-16 x 1 1/4 Grade 5 H.T.	89	7226H	Rim Disc Wheel
30	545P	Gripco Crown Locknut 3/8-16	90	626A177A	Fender Assembly R.H.
31	626A154	Drawbar and Weldnuts	91	5053H	Seat Spring
32	3737R	Model Number Plate	92	8143H	Tail Light Bracket
33	2195R	Chassis Channel	93	8169H1	Tail Light
34	9521H	Drive Rivet	94	5735H	Light Switch
35	235R	Insulated Clip	95	1560P	Washer 17/32 x 1 1/2 x 11 Ga.
36	7552H	Key	96	1000P	Lockwasher 1/2
37	103R	Solenoid	97	502P	Hex Nut 1/2
38	2210R	Ignition Starter Switch	98	1004P	Lockwasher 3/8
39	1362R	Decal-Brake	99	1006P	Lockwasher #10
40	2108R	Shift Plate	100	505P	Hex Nut #10
41	794005	Transaxle	101	1007P	Lockwasher 5/16
42	626A156	Brake Band and Lining	102	1405P	Lockwasher Internal Tooth 1/4
43	2228M	Woodruff Key 3/16 x 3/4	103	8698H	Flange Locknut 3/8-16
44	2193R	Brake Rod-Rear	A	25P	Carriage Bolt 1/2-13 x 1 1/4
45	7630H	Brake Drum	B	20P	Carriage Bolt 3/8-16 x 1
46	511P	Nylock Nut 3/8-24	C	3027P	Hex Bolt 3/8-16 x 1 1/2
47	4379H	Shift Handle Grip	D	3091P	Hex Bolt 3/8-16 x 1 H.T.
48	626A341	Parking Lock Handle Assembly	E	3022P	Hex Bolt 3/8-16 x 7/8
49	5999H	Spring Washer	F	3073P	Slotted Truss Hd. Mach. Screw #10-24 x 1/2
50	6417H	Turnbuckle	G	4502P	Hex Socket Hdless Set Screw 5/16-18 x 5/16
51	2201R	Bushing	H	3003P	Hex Bolt 1/4-20 x 3/4
52	1513P	Washer 13/32 x 13/16 x 16 Ga.	J	3011P	Hex Bolt 5/16-18 x 1
53	2263R	Springwasher	K	3027P	Hex Bolt 3/8-16 x 1 1/2
54	626A369	Lock Bracket & Yoke Assembly	L	12P	Carriage Bolt 1/4-20 x 3/4
55	2329R	Neutral Safety Switch	M	1304H	Hub Bolt
56	2328R	Neutral Safety Support	N	3255P	Hex Bolt 1/4-20 x 1 1/4
57	788003	Shift Lever Gasket	O	2004P	Brass Tubular Rivet #4 x 1/4
58	784073A	Shift Lever and Housing Assembly	P	4511P	Hex Socket Set Screw 5/16-18 x 3/8
59	6364H	Control Knob	Q	3091P	Hex Bolt 3/8-16 x 1 H.T.
60	6474H	V-Belt (Engine to Transaxle)			

repair parts

COMPACT 8E GARDEN TRACTOR-- MODEL NUMBER 917.25041

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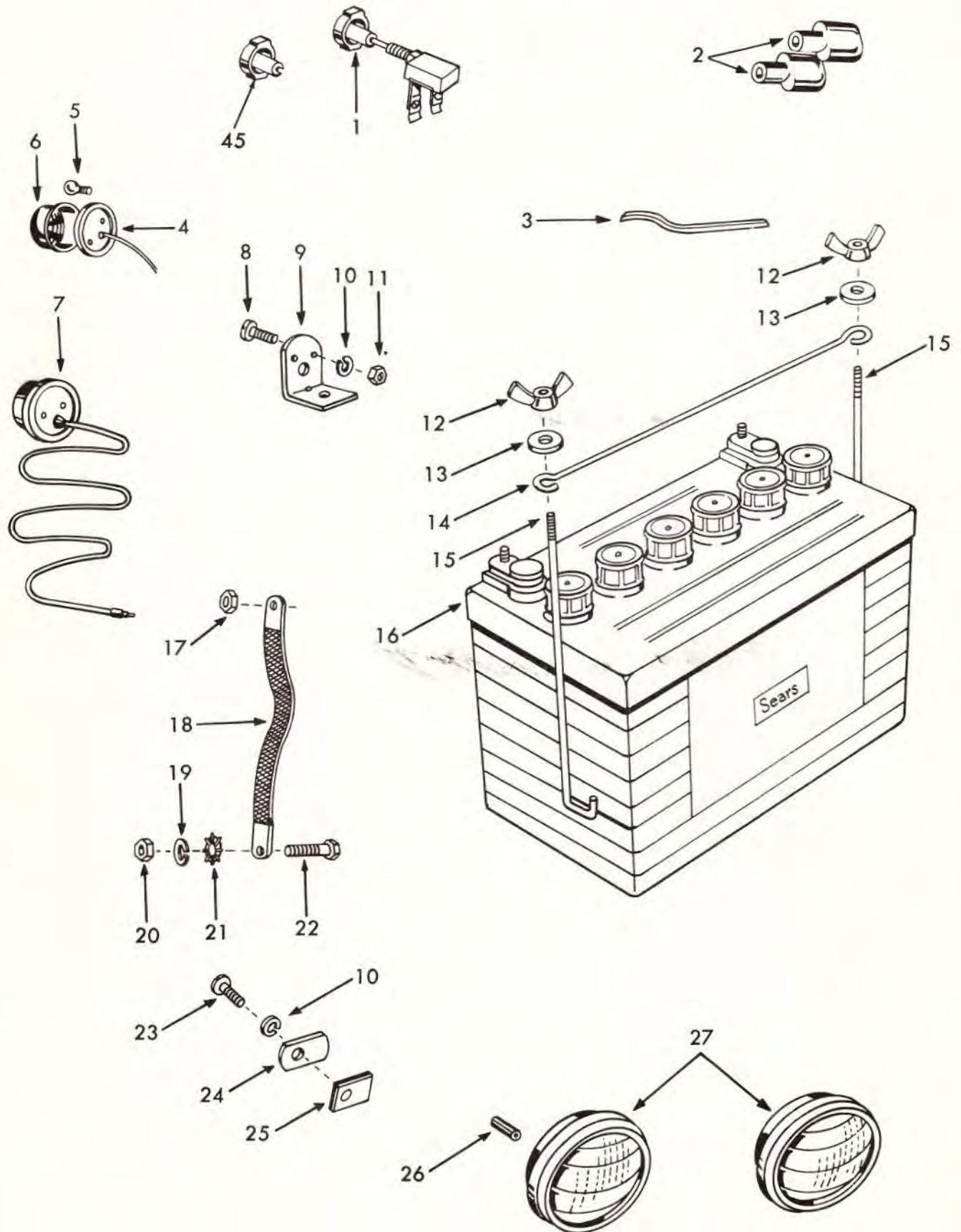
COMPACT 8E GARDEN TRACTOR-- MODEL NUMBER 917.25041

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	784073A	Lever & Housing Assy., Shift (Incl. Nos. 2, 3, 4, 5, 6 & 7)	40	778024	Spur Gear, Input Shaft
2	792016	Ring, Snap	41	780001	Washer
3	792001	Ring, Quad	42	786017	Spacer
4	792049	Pin, Roll	43	778036	Gear, Output
5	784088	Housing, Shift Lever	44	778041	Pinion, Output
6	784094	Keeper, Shift Lever	45	788007	Seal, Oil
7	784046	Lever, Shift	46	782017	Housing Assy., Axle (Incl. No. 58)
8	784056	Rod Assy., Shift (Incl. Nos. 9 thru 12)	47	772046	Cover Assy., Transaxle (Incl. Nos. 54, 57, & 63)
9	792003	Spring	48	770034	Case Assy., Transaxle (Incl. Nos. 54, 60 & 63)
10	792004	Ball, Steel	49	792007	Screw, Socket Hd. Cap 1/4 - 20 x 3/4
11	784004	Fork, Shifter	50	786026	Pin, Dowel (5/16 x 3/4)
12	784057	Rod, Shifter	51	792013	Screw, Hex Hd. Cap 5/16 - 18 x 3/4
13	784054	Rod Assy., Shift (Incl. Nos. 9, 10, 11, 14, & 61)	52	792010	Plug, Pipe
14	784055	Rod, Shifter	53	792029	Lockwasher, 5/16"
15	774055	Axle	54	780013	Bearing
16	780045	Washer, Thrust	55	792018	Ring, Snap
17	792005	Screw, Hex Hd. Cap 1/4 - 20 x 2 1/2	56	780011	Bearing
18	792006	Lockwasher	57	780055	Bearing
19	778033A	Gear, Ring	58	780002	Bearing
20	786019	Pin, Drive	59	788008	Seal, Oil
21	786027	Block, Drive	60	788009	Seal, Oil
22	778014	Pinion, Bevel	61	792017	Ring, Snap
23	776022	Pinion & Bushing Assy., Idler	63	780002	Bearing
24	778039	Gear, Bevel	64	776008	Shaft, Reverse Idler
25	776014	Shaft & Bearing Assy., Shifter (Incl. No. 26)	65	786008	Spacer, Reverse Idler
26	780018	Bearing	66	778016	Idler, Reverse
27	778037	Gear, Idler	68	780012	Bearing, Thrust
28	776032	Shaft, Idler	69	774037	Carrier, Differential
29	784074	Stop, Shifter	70	774036	Carrier, Differential
30	788026	Gasket, Case to Cover	71	780005	Washer (See Note 1)
31	788003	Gasket, Shift Lever Housing			
32	778019	Gear, Shifting (2nd & High)			
33	778020	Gear, Shifting (1st & Rev.)			
34	778021	Gear, Spur (26 Teeth)			
35	786014	Spacer			
36	778022	Gear, Spur (22 Teeth)			
37	786015	Spacer			
38	778023	Gear, Spur (16 Teeth)			
39	776015A	Shaft, Input			

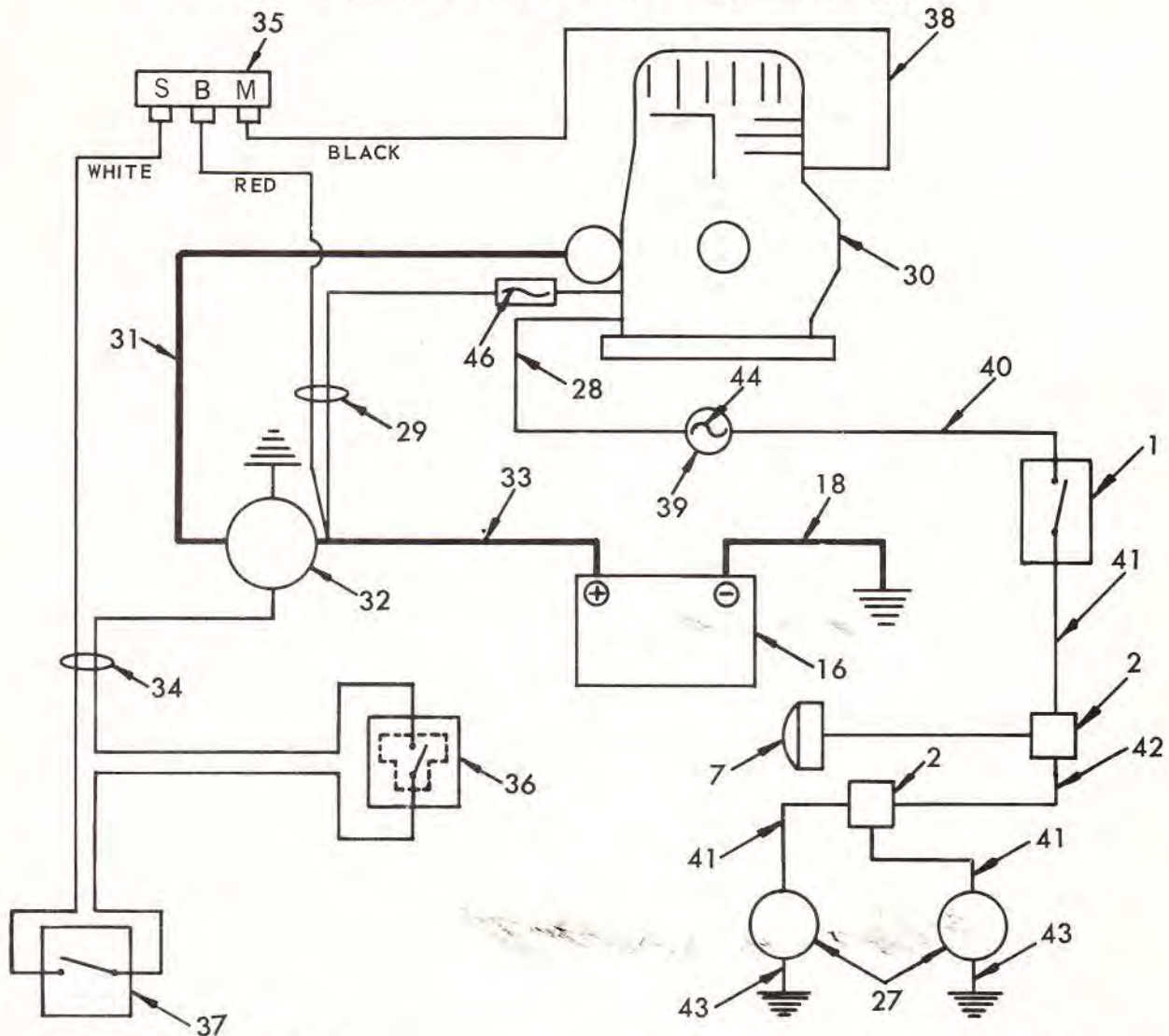
NOTE 1: This single washer can be used interchangeably in place of 2 No. 780045 washers and 1 No. 780012 thrust bearing in this location only.

repair parts

COMPACT 8E GARDEN TRACTOR--MODEL NUMBER 917.25041



COMPACT 8E GARDEN TRACTOR--MODEL NUMBER 917.25041



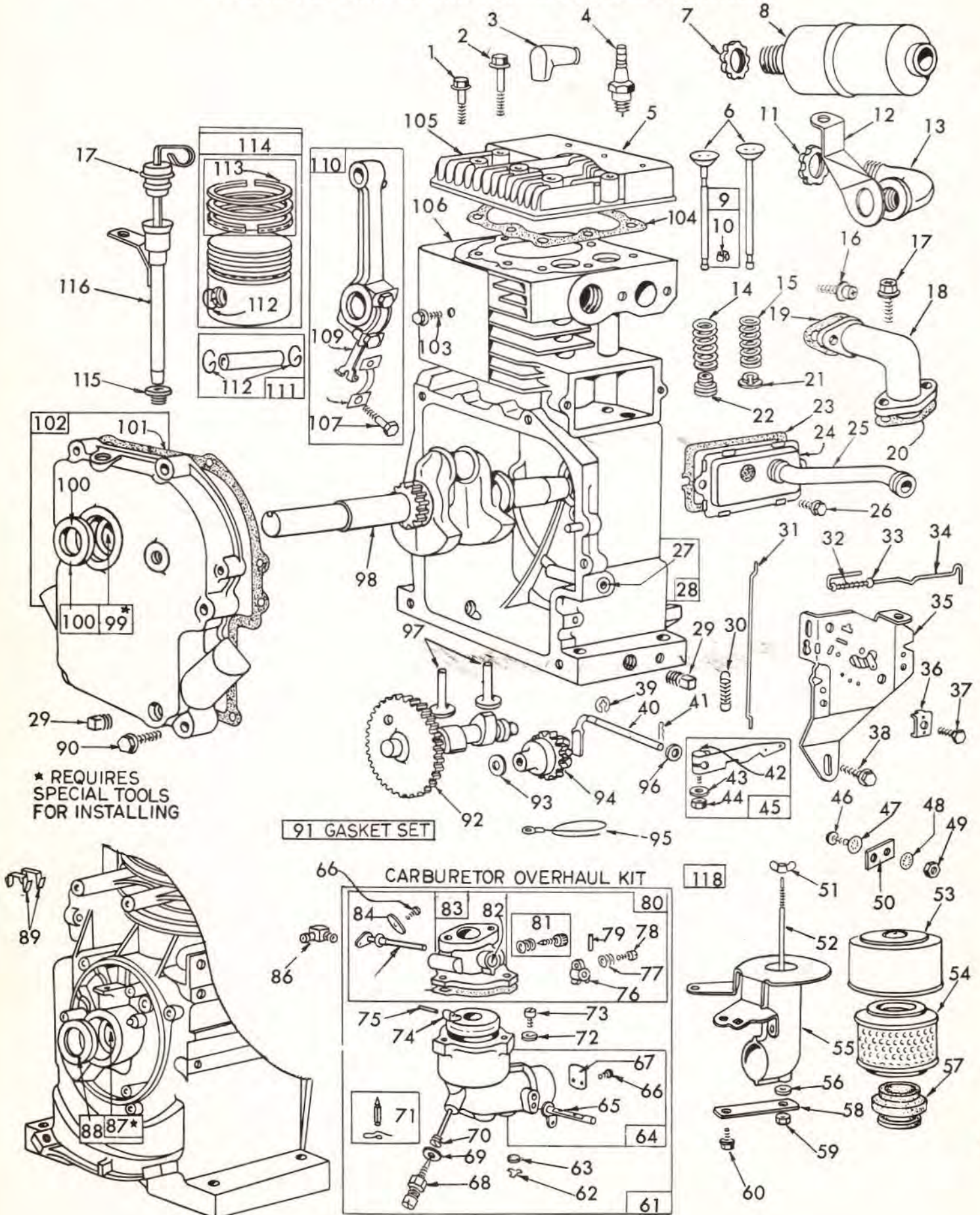
KEY NO.	PART NO.	DESCRIPTION
1	5735H	Light Switch
2	5740H	Wire Connector
3	6541H	Tie
4	8293H	Housing-Tail Light
5	8291H	Bulb- Tail Light
6	8292H	Lens-Tail Light
7	8169H1	Tail Light
8	3073P	Slotted Truss Hd. Mach. Screw #10-24 x 1/2
9	8143H	Tail Light Bracket
10	1006P	Lockwasher #10
11	505P	Hex Nut #10-24
12	3748M	Wing Nut
13	1509P	Washer 5/16 x 3/4 x 16 Ga.
14	5110H	Battery Clamp
15	5072H	Battery Bolt
16	5111H3	Battery
17	503P	Hex Nut 1/4-20
18	5114H	Ground Strap
19	1007P	Lockwasher 5/16
20	504P	Hex Nut 5/16-18
21	1402P	Lockwasher-External
22	3159P	Hex Bolt 5/16-18 x 7/8
23	5501P	Phillips Pan Hd. Mach. Screw #10-24 x 3/8 Type T

KEY NO.	PART NO.	DESCRIPTION
24	8768H	Mounting Clip
25	8784H1	Rubber Spacer
26	9197H	Hose
27	7034H	Head Light
28	2233R	Electrical Wire <i>3432 - 1.45</i>
29	2231R	Electrical Wire <i>3439 - 3.20</i>
30	626A319	Engine B. and S. 8 H.P. Model No. 190407
31	2236R	Battery Cable <i>3432 1.80</i>
32	103R	Solenoid <i>3432 5.65</i>
33	626A344	Cable and Cover
34	2326R	Electrical Wire
35	2210R	Starter Switch
36	2256R	Implement Safety Switch
37	2329R	Neutral Safety Switch
38	2222R	Electrical Wire <i>3432 1.45</i>
39	2211R	Fuse Holder
40	2234R	Electrical Wire
41	6136H	Lead Wire
42	6144H	Lead Wire
43	7035H	Ground Wire
44	2212R	Fuse for Fuse Holder
45	9267H	Black Knob (for light switch)
46	2395R	Fuse <i>3432 1.45</i>

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repair parts

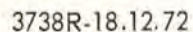
COMPACT 8E GARDEN TRACTOR-- MODEL NUMBER 917.25041



COMPACT 8E GARDEN TRACTOR--MODEL NUMBER 917.25041

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	93210	Screw-Cylinder Head (2-9/32" Long)	56	66648	Gasket-Air Cleaner Stud
2	93211	Screw-Cylinder Head (2-9/16" Long)	57	27907	Gasket-Air Cleaner
3	66538	Elbow-Spark Plug	58	22832	Strap-Air Cleaner Pipe
4	298809	Plug-Spark	59	92129	Nut-Hex 1/4-28
5	221901	Cover-Cylinder Head	60	93158	Screw-Sems
6	261055	Valve-Intake	61	390680	Carburetor Assembly
7	91242	Locknut-Muffler and Elbow	62	220521	Retainer-Carburetor Drain Filter
8	390249	Muffler-Exhaust	63	27590	Filter-Carburetor Drain
9	390419	Valve-Exhaust	64	390781	Body Assembly-Lower Carburetor
10	93630	Retainer-Exhaust Valve Rotocoil	65	390669	Shaft and Lever-Choke
11	91242	Locknut-Muffler and Elbow	66	93038	Screw-Throttle and Choke Valve Mounting Sems
12	221866	Support-Muffler	67	62872	Valve-Choke
13	91464	Elbow-Muffler	68	99525	× Valve-Needle
14	26828	Spring-Exhaust Valve	69	68667	× Gasket-Needle
15	65906	Spring-Intake Valve	70	390395	× Nozzle-Carburetor
16	93208	Screw-Intake Elbow Mounting Sems	71	299096	Valve-Fuel Inlet
17	93128	Screw-Carburetor Mounting Sems	72	92290	Washer-Lock #10 x 1/16 x 3/64
18	211812	Elbow-Intake	73	90746	Screw-Machine Fil. Hd. #10-32 x 5/8
19	*27828	Gasket-Intake Elbow Mounting	74	99333	Float-Carburetor
20	*270684	Gasket-Intake Elbow	75	230896	× Pin-Float Hinge
21	221596	Retainer-Intake Valve	76	61967	Stop-Throttle
22	292260	Rotocoil-Exhaust Valve	77	26157	Spring-Throttle Adjustment
23	*27803	Gasket-Valve Cover	78	91920	Screw-Machine Fil. Hd. #8-32 x 5/8
24	390321	Breather Assembly	79	93043	Pin-Throttle Stop
25	67068	Tube Breather	80	390404	Body Assembly-Upper Carburetor
26	93536	Screw-Sems	81	292681	× Valve Assembly-Carburetor Idle
27	230843	Bushing-Governor Shaft	82	23108	Bushing-Throttle Shaft
28	390399	Cylinder Assembly	83	390503	Body-Upper Carburetor
29	91084	Plug-Oil Drain	84	62940	Valve-Throttle
30	260695	Spring-Governor	85	298826	Shaft and Lever-Throttle
31	260872	Link-Governor	86	67218	Connector-Fuel Pipe
32	261119	Spring-Choke Link	87	295962	Bushing-Cylinder (Note: Requires Special Tools for Installation)
33	221198	Washer-Choke Link	88	294606	Seal-Oil
34	261122	Link-Choke	89	221907	Clip-Wire
35	390670	Plate-Governor Control	90	93585	Screw-Crankcase Cover Mounting Sems
36	221535	Clamp-Casing	91	*299577	Gasket Set
37	93496	Screw-Sems	92	210728	Gear-Cam
38	93535	Screw-Sems	93	221551	Washer-Thrust
39	93307	Retainer-E-Ring	94	297656	Gear-Governor
40	230842	Crank-Governor	95	299500	Wire Ground
41	93306	Cotter-Hair Pin	96	221559	Washer-Spacer
42	92613	Bolt-Governor Lever	97	260933	Tappet-Valve
43	220680	Washer	98	261179	Crankshaft
44	90356	Nut-Hex 10-24	99	295964	Bushing-Crankcase Cover
45	299165	Lever Assembly-Governor	100	298423	Seal-Oil
46	91920	Screw-Machine Fil. Hd. 8-32 x 5/8	101	*27750	Gasket-Crankcase Cover 1/64" Thick
47	92791	Washer-Lock-Shakeproof	101	*27876	Gasket-Crankcase Cover .005" Thick
48	92791	Washer-Lock-Shakeproof	101	*27877	Gasket-Crankcase Cover .009" Thick
49	90576	Nut-Hex 8-32	102	391010	Cover Assembly-Crankcase
50	66895	Insulator			
51	93453	Nut-Wing			
52	230633	Stud-Air Cleaner			
53	390588	Cover-Air Cleaner			
54	390492	Cartridge-Air Cleaner			
55	298410	Pipe Assembly-Air Cleaner			

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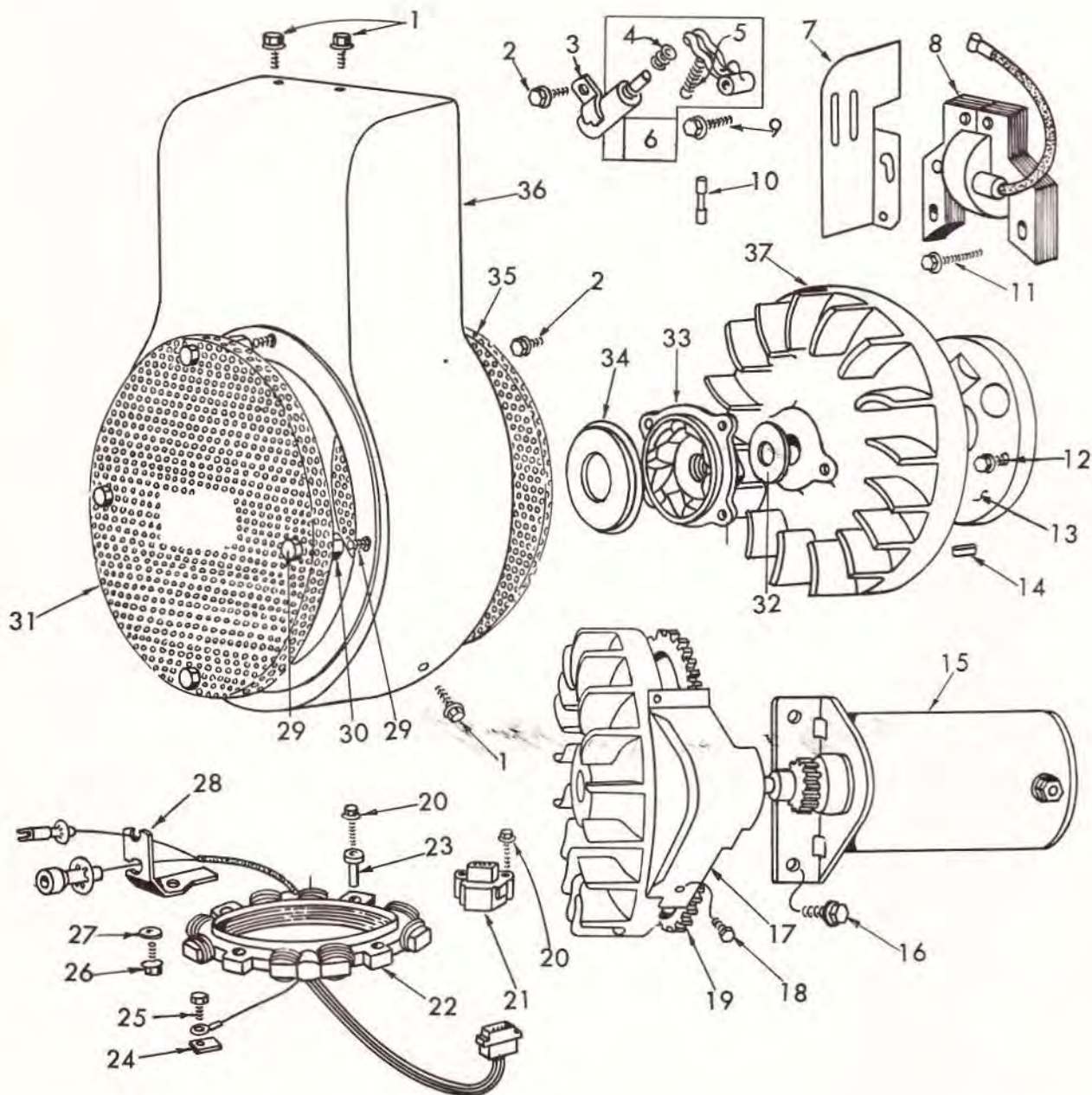
COMPACT 8E GARDEN TRACTOR--MODEL NUMBER 917.25041

KEY NO.	PART NO.	DESCRIPTION
103	93163	Screw-Cylinder Shield Mounting Sems
104	*270430	Gasket-Cylinder Head
105	211778	Head-Cylinder
106	221898	Shield-Cylinder
107	92659	Screw-Connecting Rod
108	222114	Lock-Connecting Rod Screw
109	222113	Dipper-Connecting Rod
110	390401	Rod Assembly-Connecting (Note: For Connecting Rod with .020" Undersize Crankpin Bore-Order No. 390773)
111	295840	Pin Assembly-Piston Standard
111	295841	Pin Assembly-Piston .005" O.S.
112	68546	Lock-Piston Pin
113	299569	Ring Set-Piston-Standard (Consists of: 211637 Ring-Piston, Comp., Top Std. 211636 Ring-Piston, Comp., Center Standard. 211635 Ring-Piston, Oil Std.
113	299570	Ring Set-Piston-.010" O.S. (Consists of: 211649 Ring-Piston, Comp., top, .010" O.S. 211650 Ring-Piston, Comp., Center, .010" O.S. 211651 Ring Piston, Oil, .010" O.S.
113	299571	Ring Set-Piston-.020" O.S. (Consists of: 211653 Ring-Piston, Comp., Top, .020" O.S. 211654 Ring-Piston, Comp., Center, .020" O.S. 211655 Ring-Piston, Oil, .020" O.S.
113	299572	Ring Set-Piston-.030" O.S. (Consists of: 211657 Ring-Piston, Comp., Top, .030" O.S. 211658 Ring-Piston, Comp., Center, .030" O.S. 211659 Ring-Piston, Oil, .030" O.S.
114	390347	Piston Assembly-Standard
114	390348	Piston Assembly-.010" O.S.
114	390349	Piston Assembly-.020" O.S.
114	390350	Piston Assembly-.030" O.S.
115	68838	Seal-Filler Tube
116	390970	Tube-Oil Filler
117	390969	Cap and Dipstick-Oil Filler
118	295938	Carburetor Overhaul Kit

*Included in Gasket Set-Part No. 299577 (Key No. 91)

× Included in Carburetor Overhaul Kit-Part No. 295938 (Key No. 118)

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KEY NO.	PART NO.	DESCRIPTION
1	93158	Screw-Sems
2	93042	Screw-Sems
3	220477	Clamp-Condenser
4	260374	Spring-Connector
5	26018	Spring- Breaker Arm
6	294628	Breaker Points and Condenser Set
7	221760	Guide-Air
8	298968	Armature Assembly
9	93381	Screw-Breaker Arm Mounting Sems
10	65704	Plunger-Breaker Point
11	93381	Screw-Armature Mounting Sems
12	93014	Screw-Sems
13	222117	Cover-Breaker Point
14	61760	Key-Flywheel
15	390307	Motor-Starting
16	93523	Screw-Sems
17	390233	Cover and Shield-Starter
18	93410	Screw-Sems
19	299543	Gear-Flywheel Ring (Inc. Mounting Parts)
20	93621	Screw-Sems
21	390892	Rectifier-Alternator
22	390693	Starter-Alternator
23	230976	Bushing-Starter
24	222212	Retainer
25	93438	Screw-Retainer
26	93536	Screw-Sems
27	220680	Washer
28	222211	Bracket-Fuse
29	93067	Screw-Screen Mounting Sems
30	231020	Spacer
31	222302	Screen
32	220865	Washer-Spring
33	211383	Housing
34	222277	Cover-Housing
35	221796	Screen-Rewind Starter
36	299392	Housing-Blower
37	390180	Flywheel-Magneto

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The Model Number will be found on a plate attached to the rear of the Chassis Channel and to the front of the seat. Always mention the Model Number when requesting service or repair parts for your Garden Tractor.

All parts listed herein may be ordered through SEARS, ROEBUCK AND CO. or SIMPSON'S-SEARS LIMITED. When ordering parts by mail, selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION, AS SHOWN IN THIS LIST.

1. The PART NUMBER
2. The PART DESCRIPTION
3. The MODEL NUMBER
917.25041
4. The NAME OF ITEM—
Garden Tractor



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