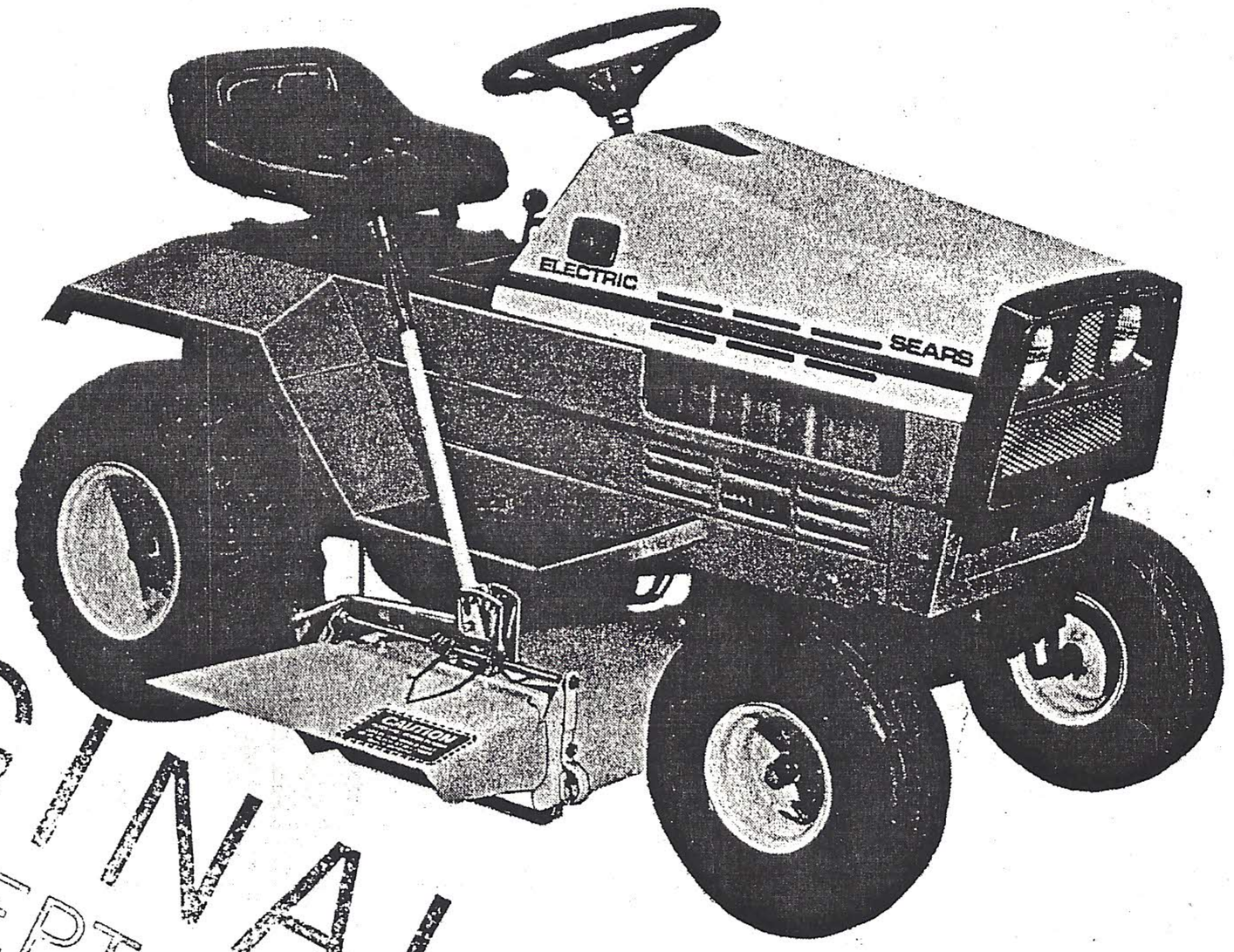
Sears

owners manual



ELECTRIC LAWN TRACTOR AND MOWER

MODEL NO.
917.25790

CAUTION:
Read Rules for Safe Operation and Instructions Carefully

- Assembly
- Operating
- Maintenance
- Repair Parts

6450R

Sears, Roebuck and Co., Chicago, Ill. 60684 U.S.A.
and Simpsons Sears Limited, Toronto

PRINTED IN U. S. A.

guarantee

Your tractor and mower are 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. If battery is defective and will not hold a charge, in exchange for the battery, we will: WITHIN FIRST 2 YEARS: Replace battery at no charge. AFTER 2 AND UP TO 5 YEARS: Replace battery, charging customer 1/60th of the price of a 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.

SEARS, ROEBUCK AND CO, CHICAGO, ILL. 60684 USA
and SIMPSONS–SEARS LIMITED, TORONTO

Only the following attachments may be used with your Electric Lawn Tractor: 36" Rotary Mower, 38" Snow Blade, 7 cu. ft. Hauling Cart, Roller, Spreader/Seeders, Aerator and Towed Sweeper.

IMPORTANT
read rules for safe operation

TRAINING

1. Read the Owners Manuals carefully and fully familiarize yourself with the controls and proper use of your tractor and mower, as well as any other attachment. Be prepared to stop the motors on a second's notice. Only persons well acquainted with these Rules for Safe Operation should be allowed to use your tractor and mower.
2. Do not allow children or young teenagers to start or operate your tractor and mower.
3. Clear the work area of objects which might be picked up and thrown.
4. Do not allow anyone in the area while operating your tractor and mower. Keep children and pets in the back yard while using it in the front yard. Keep a wary eye out for children or passers-by. Stop the mower motors and tractor motor while they are in the vicinity of your tractor. Children, particularly, could get in the way of and be injured by the tractor or mower. Children, particularly, could get an extremity in the way of the revolving blade(s) and also, although the area to be mowed should be completely cleared of all foreign objects, a small object may have been overlooked and could be accidently thrown by the mowing attachment.

PREPARATION

5. Thoroughly inspect your lawn and remove all foreign objects such as rocks, stones, wires, cans, boards, branches, bones and other foreign objects before each cutting. Do not strike any roots or other foreign objects as they may be propelled by the blades causing injury to the operator, a bystander or a pet or damage to other property, the tractor or the mowing attachment itself.
6. Do not operate the tractor and mower when barefoot or wearing sandals. Always wear substantial footwear, preferably steel-toed shoes. Also, do not wear loose fitting clothing that could get caught in moving parts.
7. Immediately after using your tractor, plug charger into a 110-120 Volt, 60 cycle, grounded 3-hole receptacle. Refer to page 5.
   A. Lead acid batteries generate explosive gases.
   B. Keep sparks, flames and lighted cigarettes away from batteries.
   C. When charging - provide ventilation. Keep hood in raised position.
   D. The batteries contain sulphuric acid - if acid contacts eyes, skin, or clothing, flush immediately with large amounts of water.
   E. Also in case of eye contact, see a physician immediately.
8. A tractor and mower are precision pieces of equipment, not playthings, therefore extreme caution must be exercised at all times.
9. Never attempt to operate a damaged tractor or mower, always repair any damage before attempting to start or operate your tractor, mower or any other attachment.
10. Never attempt to carry any passengers; their safety as well as your safety will be endangered.
11. Before attempting to start the motor of your tractor make sure the gear shift lever is in the "start" position, then firmly apply 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.

12. Each time before leaving the operator's seat, be absolutely sure the parking brake is engaged the gear shift lever is in neutral, the mower blade motors switch is in the "off" position, the tractor key switch is in the "off" position, and all moving parts have completely stopped. Remove the switch key. Never leave the operator's seat with the mower and tractor running. Always get on and off your tractor from the operator's left-hand side. Children, yourself, other persons or pets may be endangered.
13. Always operate your tractor in daylight. Use lights only when necessary.

OPERATION

15. This electric tractor and/or mower are silent when operating, compared to the gas operated type. You may think they are stopped but may actually be running.
16. Never place your hands or feet in or under the mower or near any moving parts while the tractor or mower is running.
17. If your tractor, mower or any other attachment should inadvertently strike a foreign object, immediately engage the brake, place gear shift lever in neutral, position mower blades switch motors in "off" position, turn tractor key switch to "off" position and be sure all moving parts have completely stopped. Remove the key. Thoroughly inspect the tractor, mower or any other attachment for any damage. Such damage must be repaired before restarting and operating the tractor, mower or any other attachment.
18. If the tractor or mower should start to vibrate abnormally, immediately engage the brake, place gear shift lever in neutral, position mower blades switch motors in "off" position, turn tractor key switch to "off" position and be sure all moving parts have completely stopped. Remove the key. 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 and/or mower, immediately engage the brake, place gear shift lever in neutral position mower blades switch motors in "off" position, turn tractor key switch to "off" position and be sure all moving parts have completely stopped. Engage parking brake. Remove the key. Disconnect fuse beneath hood and disconnect one of the battery terminals.
20. Check the mower blades mounting bolts for tightness at frequent intervals.
21. Never operate your tractor and mower on 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 and mower on an incline do so firmly to prevent the tractor from picking up speed during declutching and before reaching the brake position. Do not shift while going up or down inclines. Choose a gear low enough to negotiate the incline without stopping and shifting gears.
23. Never attempt to operate your tractor, mower or any other attachments without the proper shields, guards, plates or other protective devices in place and fully functioning. All safety devices are for your protection. Do not attempt to defeat them.
24. Be absolutely sure that the mower deflector safety shield is used at all times in order to minimize the possibility of injury or damage from a thrown object.
25. Never direct grass clippings from the discharge chute toward bystanders or pets nor allow anyone near the tractor while it is operating.
26. 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.
27. Never allow anyone near the tractor and mower or any attachment while they are operating.
28. Be sure to exercise special care when operating your tractor and mower around fixed objects in order to prevent the tractor and mower from striking them. Never deliberately run a tractor or mower into or over any foreign objects.
29. 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 when suggested in the Attachment Owners Manual.
30. Never shift gears to reverse your direction of travel until the tractor comes to a complete stop.
31. 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 becomes stuck in a hole, always stop the mower blades motors and raise mower by means of the lift handle before attempting to free it.
32. 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.
33. Always stop the mower blades motors and raise mower by means of the lift handle when not actually in use such as when crossing a gravel drive, sidewalk or roadway or when transporting the tractor.
34. Watch out for traffic when crossing or near roadways.

MAINTENANCE

35. Do not remove the terminal shroud or battery cover except when necessary for service or repair.
36. Tractor can be tipped a maximum of 30 degrees. Avoid spilling battery acid which could cause personal injury or machine damage. Refer to page 11.
37. Do not service batteries while charging.
38. Keep hood in the raised position while charging batteries.
39. Keep all nuts, bolts and screws tight in order to be sure that the tractor, mower or any other attachment is in safe working condition. Be sure the brake and all controls are always in proper adjustment and repair. Check the mower and

tractor motor mounting bolts at frequent intervals for proper tightness. Before performing any maintenance, always immediately engage the parking brake, place gear shift lever in neutral, position mower blades switch motors in "off" position, turn tractor key switch to "off" position and be sure all moving parts have completely stopped. Remove the key. Disconnect fuse beneath hood and disconnect one of the battery terminals.

40. Keep your equipment free from accumulations of grass, leaves or excessive grease as these accumulations are combustible and could result in a fire. Always keep your tractor, mower or any other attachment in good operating condition and make sure that all shields, plates and other protective devices are in place. Give your tractor, mower and all attachments the regular maintenance they need and have a competent serviceman make a thorough inspection of them at least once a year.

table of contents

introduction

This tractor and mower have 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 and Co. or Simpsons Sears, Ltd. Store. They have well qualified, competent trained technicians and the proper tools to service or repair these units. 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 operate your tractor and mower with utmost efficiency. We urge you to study this Manual so you will understand your new tractor and mower thoroughly before operating them. We suggest that you take care of your Manual so that it will be available for future reference.

do this first

1. Cut all four corners of tractor-mower shipping carton down from top to bottom.
2. Cut all hold-down wires retaining tractor and mower to skid.
3. Remove small carton located next to tractor foot rest.
4. Remove mower from beneath tractor. Turn tractor wheel to the extreme left. Lift and turn mower to the right.
5. Disengage parking brake and place gear shift lever in neutral position. Push tractor off of shipping carton.
6. Prepare your tractor for operation before assembling and attaching your mower to tractor. Assemble mower and attach to tractor while batteries are charging.
7. To be sure your batteries are in warranty, remove the tabs on top of each battery to indicate the month and year of tractor purchase.

READ YOUR OWNERS MANUAL CAREFULLY

tools and items needed

With some tools you already own, plus a few inexpensive items, that can be purchased at your Sears store, assembly and maintenance can be accomplished quickly and accurately.

1. Adjustable end wrench
2. Pliers
3. Hammer
4. Grease gun
5. Low pressure tire guage
6. Oil can
7. Small ruler

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. Your tractor has been completely assembled at the factory except to assemble the steering wheel and to charge and fill the batteries. Refer to pages 4 and 5. Your mower was shipped with same parts not assembled for shipping purposes. Refer to pages 6 and 7.
2. Your tractor and mower were lubricated at the factory however, we suggest you take note of the information on pages 12 and 13.
3. The tractor tires were over-inflated for shipping purposes. Reduce air pressure to 12 lbs. in front tires and 10 lbs. in rear tires. This will improve the traction and give you the comfortable ride you will want.
4. A carton of parts was included in your shipment. It will contain the following items:

Parts for tractor and mower
1 - Plastic bag of parts
1 - Steering Wheel (F, Fig. 1)
1 - Safety Shield (P, Fig. 9)
1 - Lift handle assembly (H, Fig 8)

Open plastic bag of parts. It will contain the following items:
1 - Steering wheel cap (G, Fig. 1)
1 - Extra fuse - 100 amp. (Fig. 26)
2 - Keys
(We suggest one key be removed from the wire ring and kept in a safe place. Position the second key in the key switch A, Fig. 17)
1 - Owners Manual

Continued at top of page 4.

1 - Torsion spring (S, Fig. 9)
1 - Safety shield rod (U, Fig. 9)
2 - Push nuts (T, Fig. 9)
4 - Retainer springs (Two F, Fig. 12 - Two G, Fig. 13)
1 - Cotter pin 1/8 x 1 (N, Fig. 8)
1 - Cotter pin 3/32 x ¾ (F, Fig. 7)
2 - Flat washers 13/32 x 7/8 x 14 Ga. (At G, Fig. 13)
1 - Center lock nut 3/8 (On K, Fig. 8)
1 - Hex bolt 3/8 x 2 (K, Fig. 8)
4 - Hex bolts 5/16 x ¾ (In A, Fig. 6)
4 - Lockwashers 5/16 (In A, Fig. 6)
4 - Hex nuts 5/16 (In A, Fig. 6)
1 - Lift handle bushing (J, Fig. 8)
2 - Lift quadrants (A, Fig. 6)
1 - Rivet pin ¾'' long (E, Fig. 7)
2 - Rivets 1'' long (D, Fig. 12)
2 - Rear hanger adjusting screws with hardware (B, Fig. 13)
1 - Lift rod trunion (L, Fig. 8)
1 - Lift rod (G, Fig. 8)

assemble steering wheel

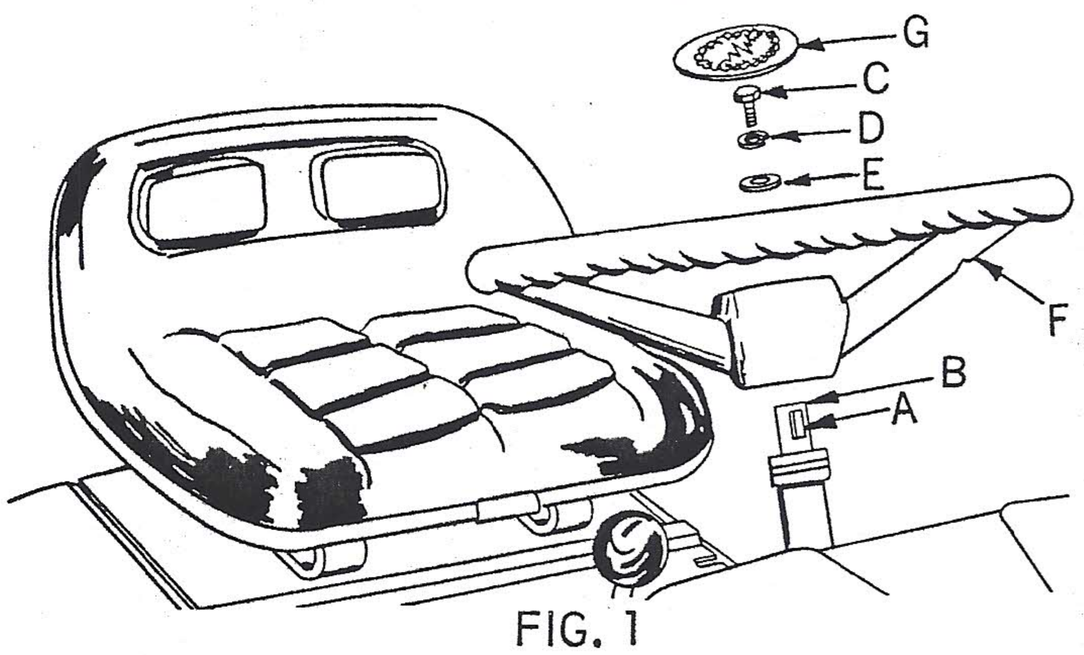


FIG. 1

1. Remove tape to expose woodruff key (A) in steering shaft (B).
2. Remove bolt (C), lockwasher (D) and flat washer (E) from steering shaft (B).
3. Position steering wheel (F) over steering shaft (B) and woodruff key (A).
4. Place lockwasher (D), then flat washer (E) over bolt (C). Thread bolt with two washers attached, into steering shaft (B). Tighten bolt securely.
5. Press steering wheel cap (G) into rubber hub of steering wheel (F).

fill and charge batteries

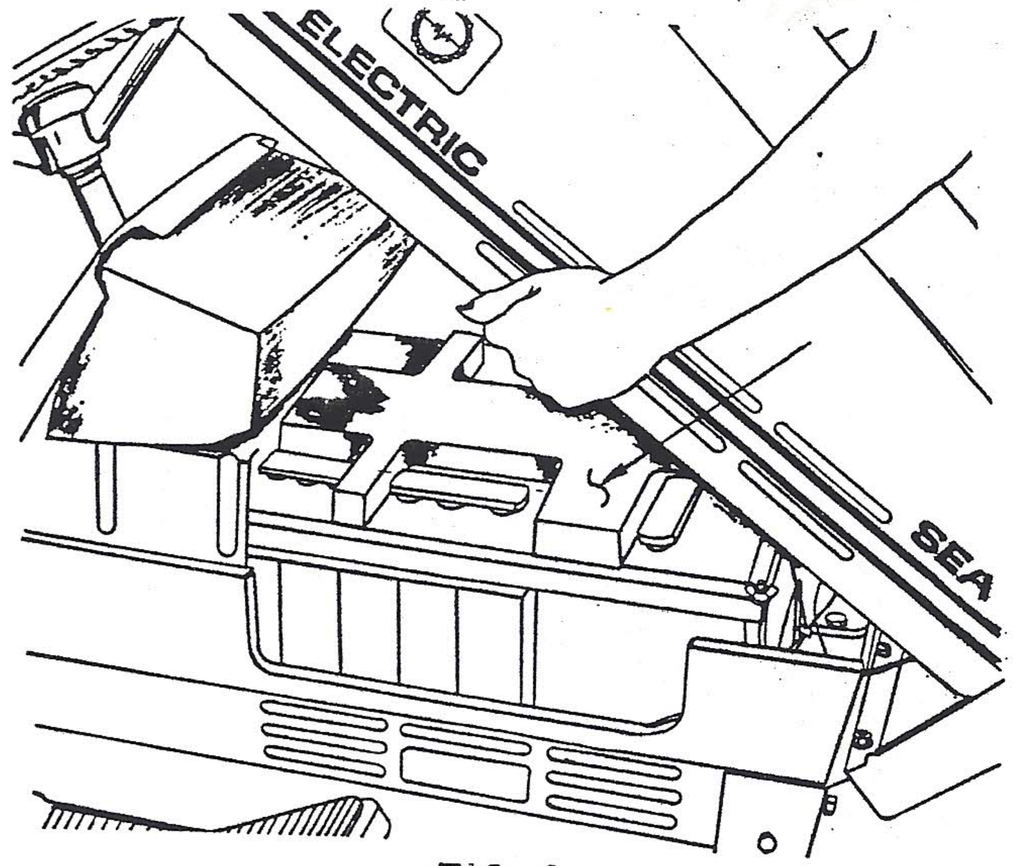


FIG. 2

1. Raise tractor hood by grasping each side of hood at rear and pull outward. Lift hood to its extreme position.
2. Do not remove battery cover (A).

CAUTION:

A. Lead acid batteries generate explosive gases.
B. Keep sparks, flames and lighted cigarettes away from batteries.
C. When charging - provide room ventilation. Keep hood in raised position.
D. The battery packs contain acid - if acid contacts eyes, skin, clothing or tractor, flush immediately with large amounts of water. Also, in case of eye contact, see a physician immediately.

CUT-AWAY VIEW OF BATTERY WITH FLIP CAP OPEN

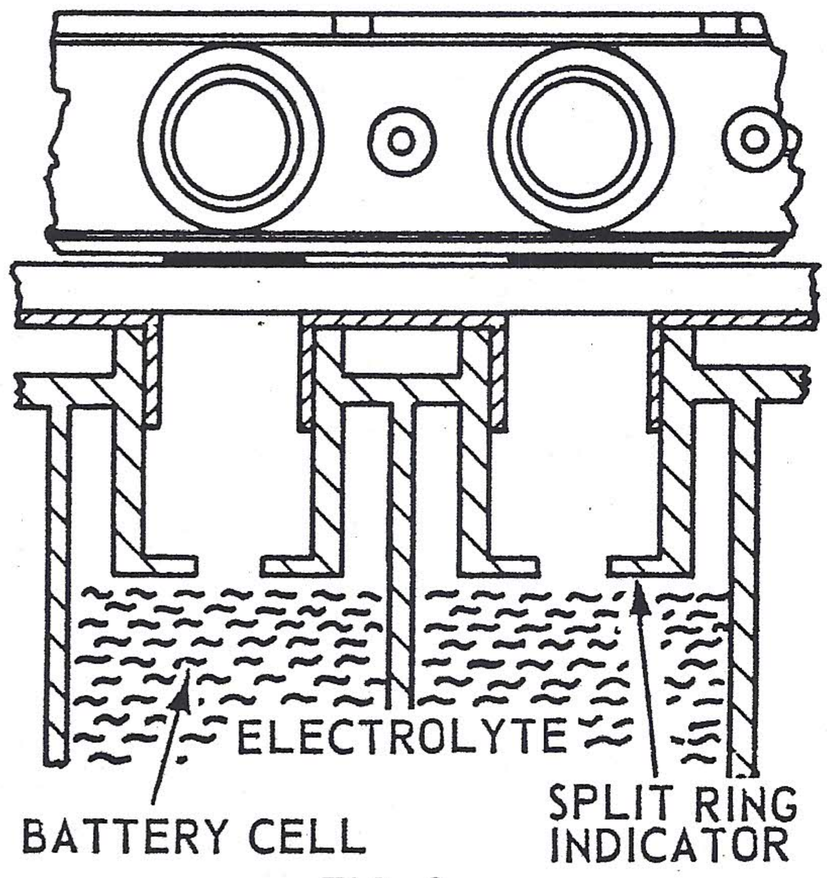


FIG. 3

2. Fill each cell of each battery with acid furnished, to a level just covering top of plates. Allow 10 minutes for absorption of acid into batteries. Then add more acid, if necessary, to bring level to just covering plates. Completely drain each acid pack before opening another. Be sure to guard against spillage of acid during filling. Wash off spilled acid immediately.

Continued on page 5.

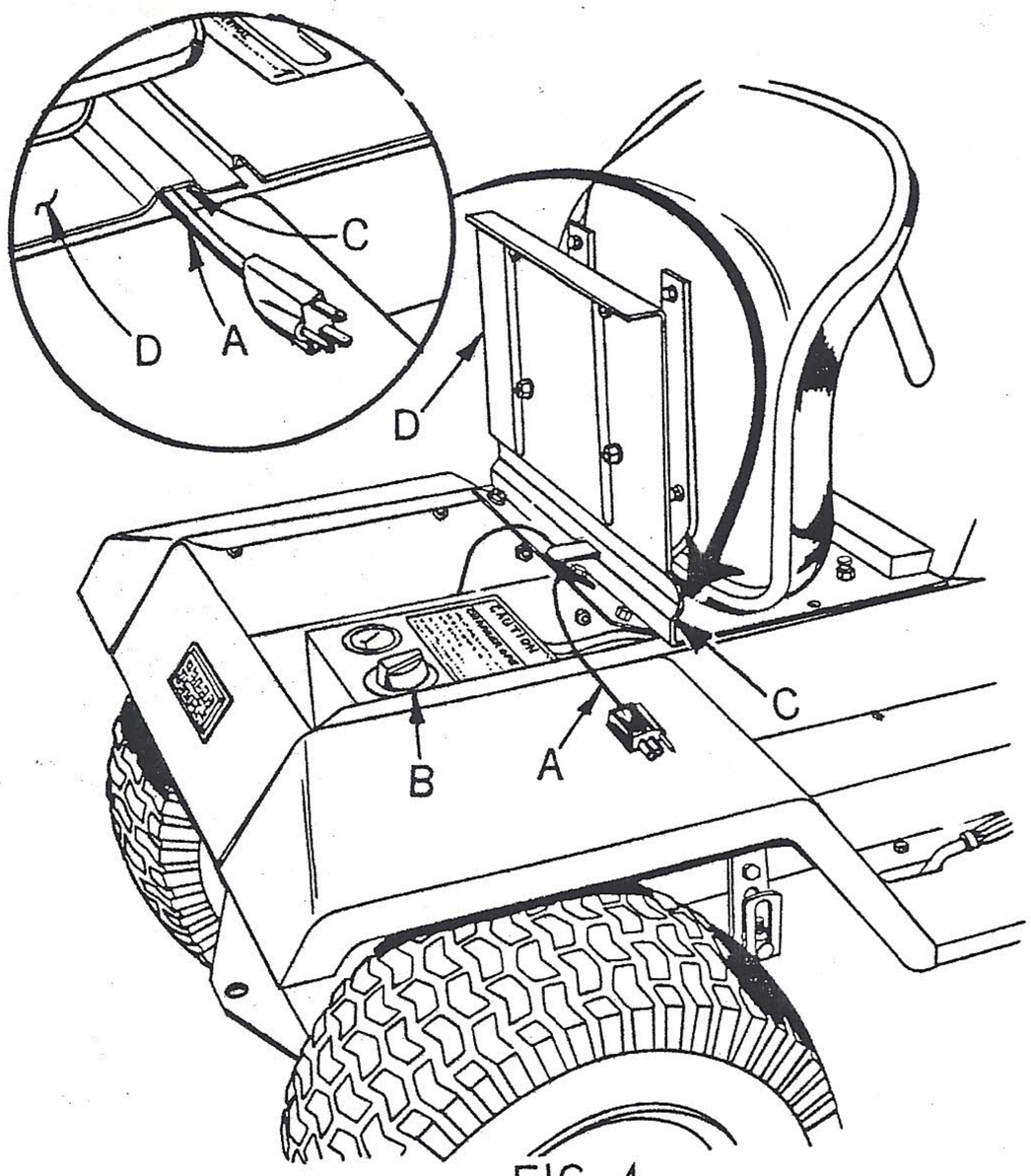


FIG. 4

4. Position seat and seat plate in raised position--against steering wheel.
5. Pull charger cord (A), through clamp and plug into a properly grounded 110-120 Volt, 60 cycle outlet. (See Fig. 5). Turn charger knob (B) clockwise to "On" position for one 12 hour cycle. The batteries must receive a one 12 hour cycle before initial tractor operation. Batteries are fully charged when charger knob returns to "Storage" position.

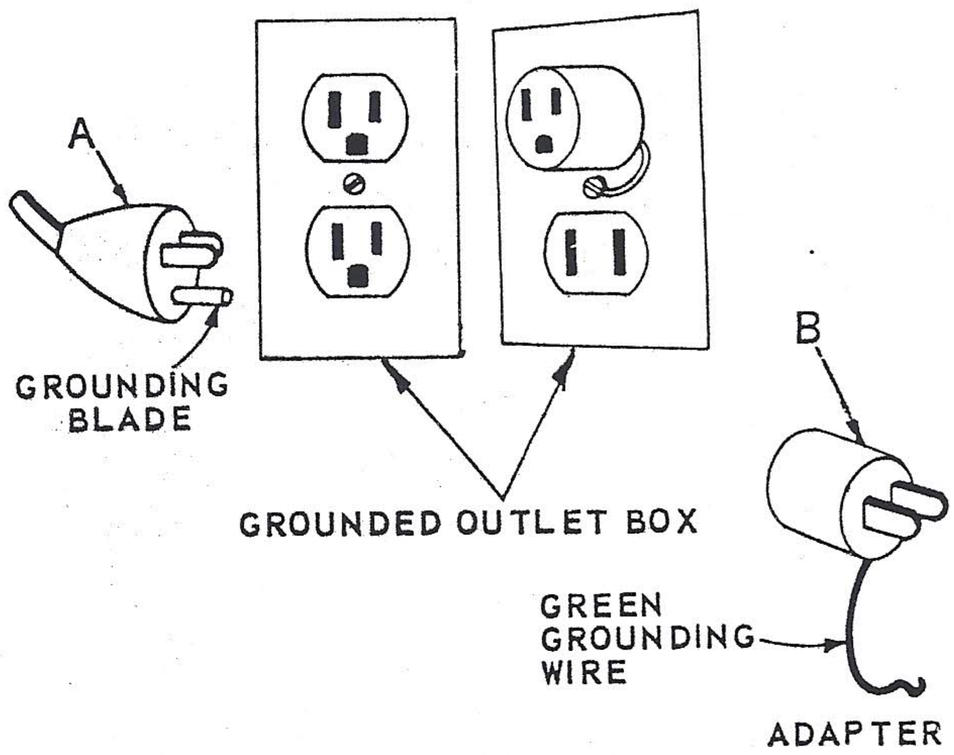


FIG. 5

6. The outlet box must be grounded for charger use to protect you from electric shock. The charger is equipped with an approved three-conductor cord and three-prong grounding-type plug to fit the proper grounding-type receptacle. The charger has a plug that looks like (A), above.
7. An adapter (B), is available at your local Sears Store for connecting three-prong grounding-type plugs to two prong receptacles shown above. The green grounding wire extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

DO NOT CHARGE BATTERIES WITH ANY OTHER CHARGER. DO NOT USE THE TRACTOR BATTERIES TO START OTHER VEHICLES. BATTERY DAMAGE WILL RESULT.

8. Refer to inset on Fig. 4. Position cord (A), in groove (C), of seat plate (D). Now seat can be lowered to closed position.

While you are charging the batteries, assemble mower and attach to tractor.

assembly of mower

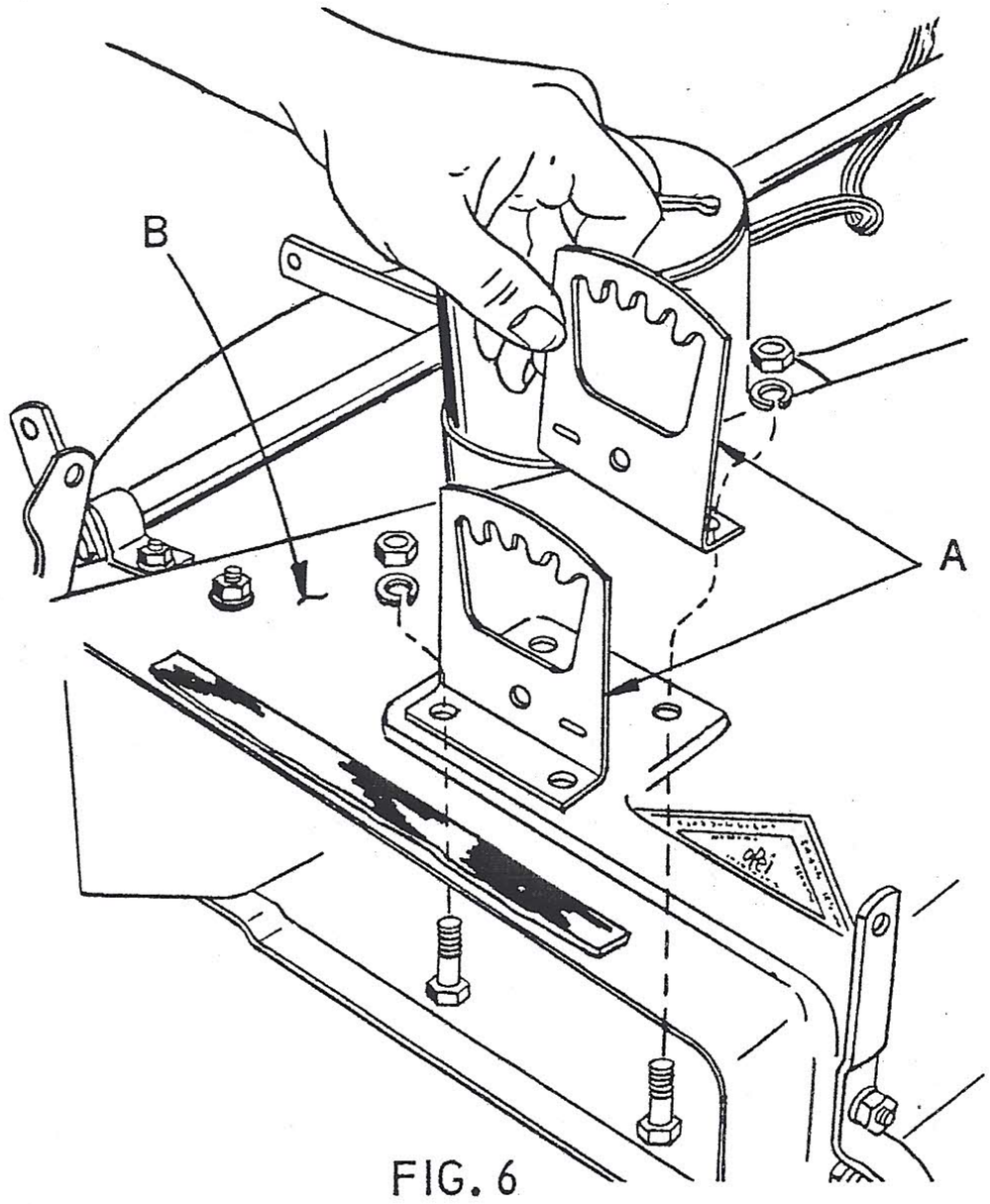


FIG. 6

1. Assemble lift quadrants (A), to mower housing (B). Use four 5/16 x ¾ hex bolts, four 5/16 lockwashers and four 5/16 hex nuts as shown. Do not tighten securely at this time.

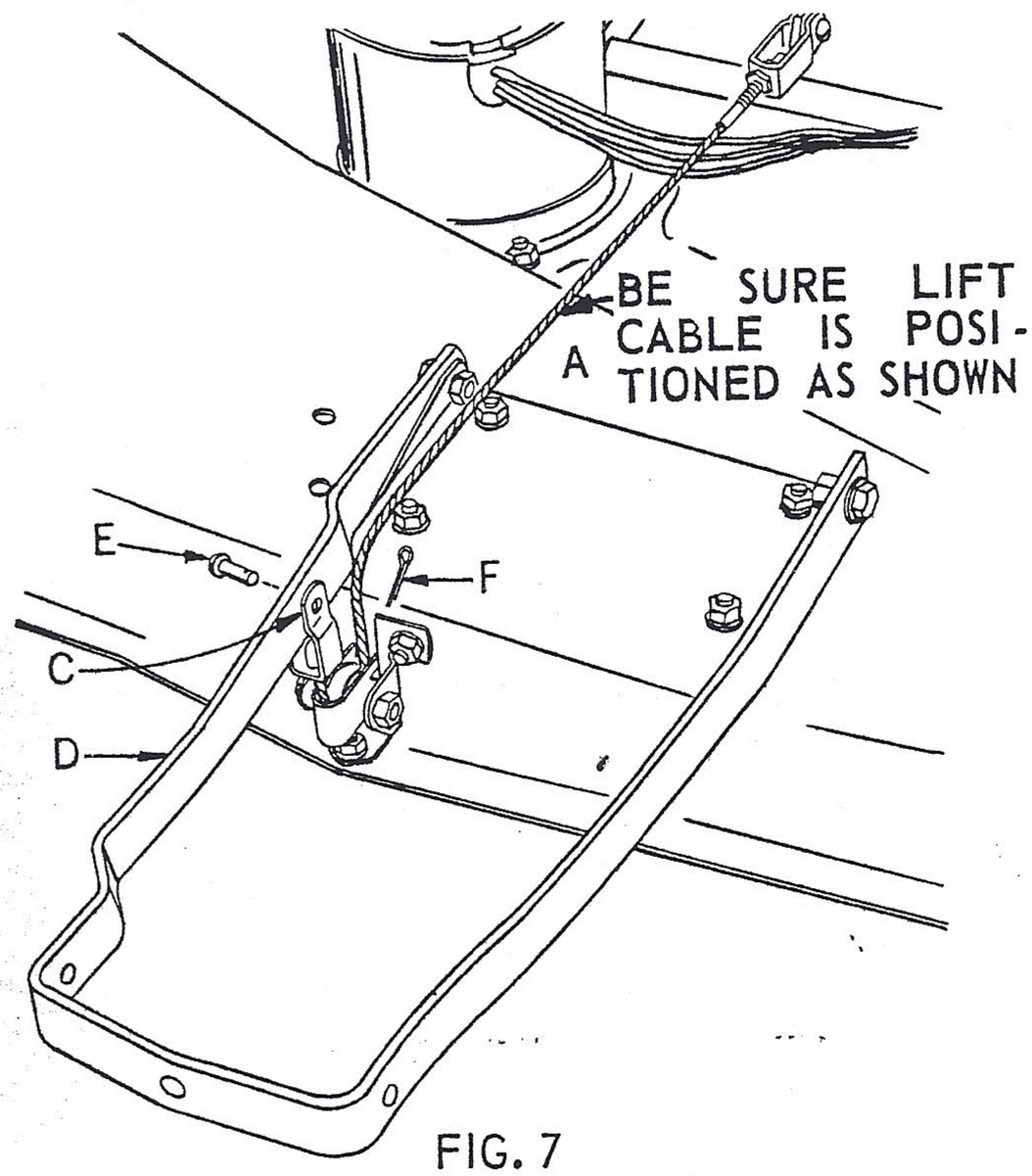


FIG. 7

2. Attach lift cable clevis (C) to front lift link (D), with rivet pin (E) and a 3/32 x ¾ cotter pin (F).

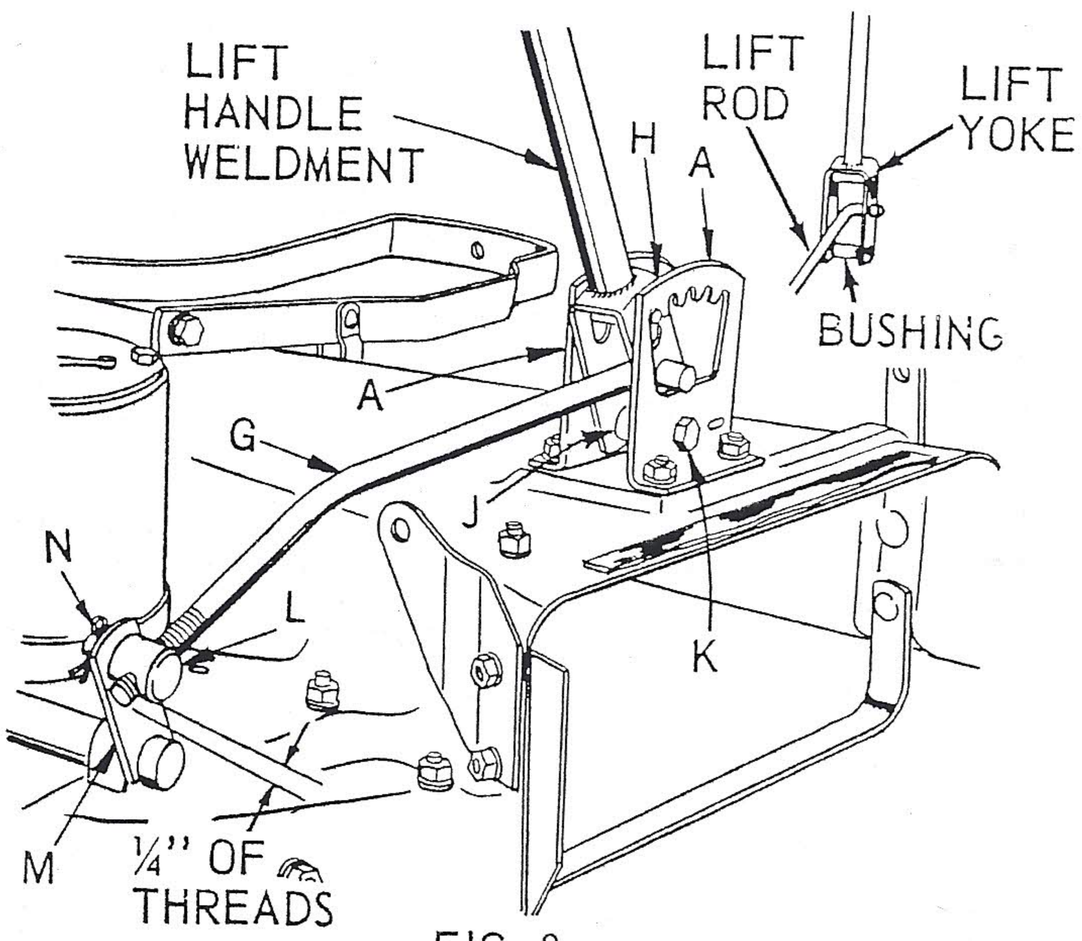


FIG. 8

3. Insert right angle of lift rod (G) into center hole of lift handle weldment yoke (H).
4. Position lift handle weldment (H), with lift rod (G), attached between lift quadrants (A).
5. Place lift handle bushing (J) between lift handle weldment yoke (H). Align holes in lift quadrant (A), lift handle weldment yoke (H), and bushing (J). Insert a 3/8 x 2 hex bolt (K) and secure with a 3/8 center lock nut. IMPORTANT: Do not tighten nut securely. Lever must be free to move back and forth easily by depressing lift handle weldment plunger.
6. Tighten the four nuts in lift quadrant (A) which were left loose in step 1, Fig. 6.
7. Screw lift rod trunion (L), on threaded end of lift rod (G). Leave about ¼ inch of thread exposed on lift rod (G).
8. Assemble lift rod trunion (L), to lift shaft weldment (M). Secure with a 1/8 x 1 cotter pin (N).

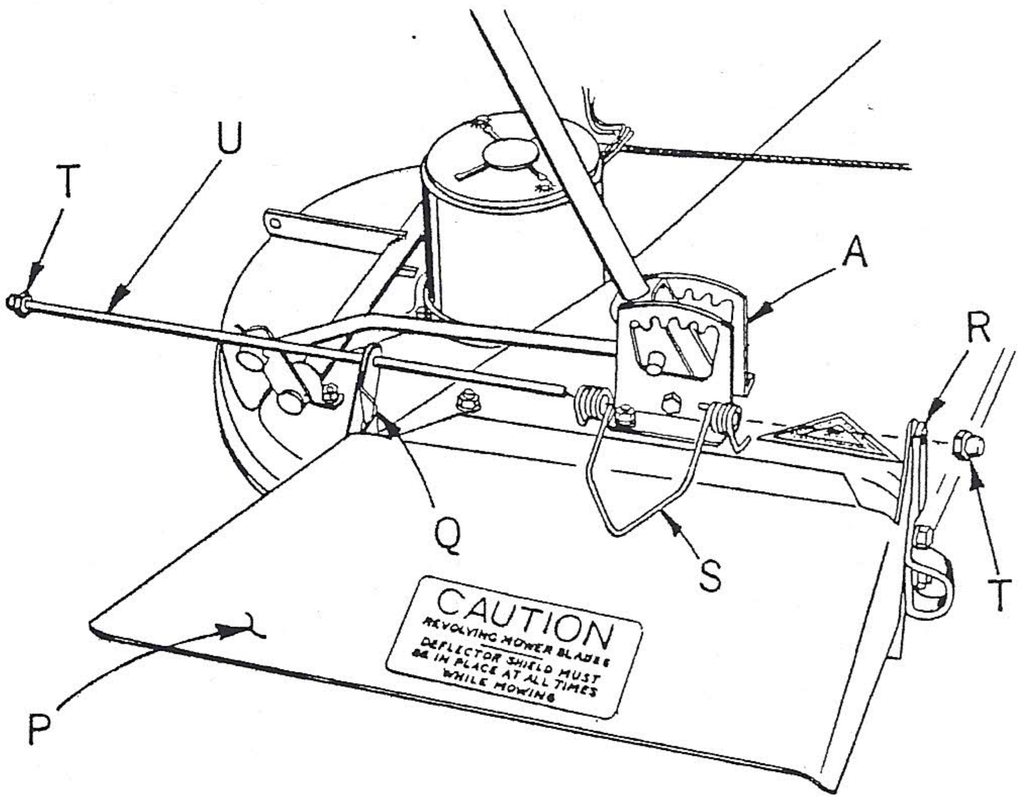


FIG. 9

9. Position safety shield (P) as shown: rear of safety shield (P) to outside of safety shield bracket (Q). Front of safety shield (P) to inside of runner (R).

Refer to Fig. 9.

10. Place torsion spring (S) straddle of lift quadrant (A) as shown.
11. Using a hammer, secure a push nut (T); on one end of safety shield rod (U).
12. Align holes and push open end of safety shield rod (U), through holes in safety shield (P), safety shield bracket (Q), and loops of torsion spring (S) then through holes in front end of safety shield (P), and runner (R). Tap a push nut securely on end of safety shield rod (U).

assembly of mower to tractor

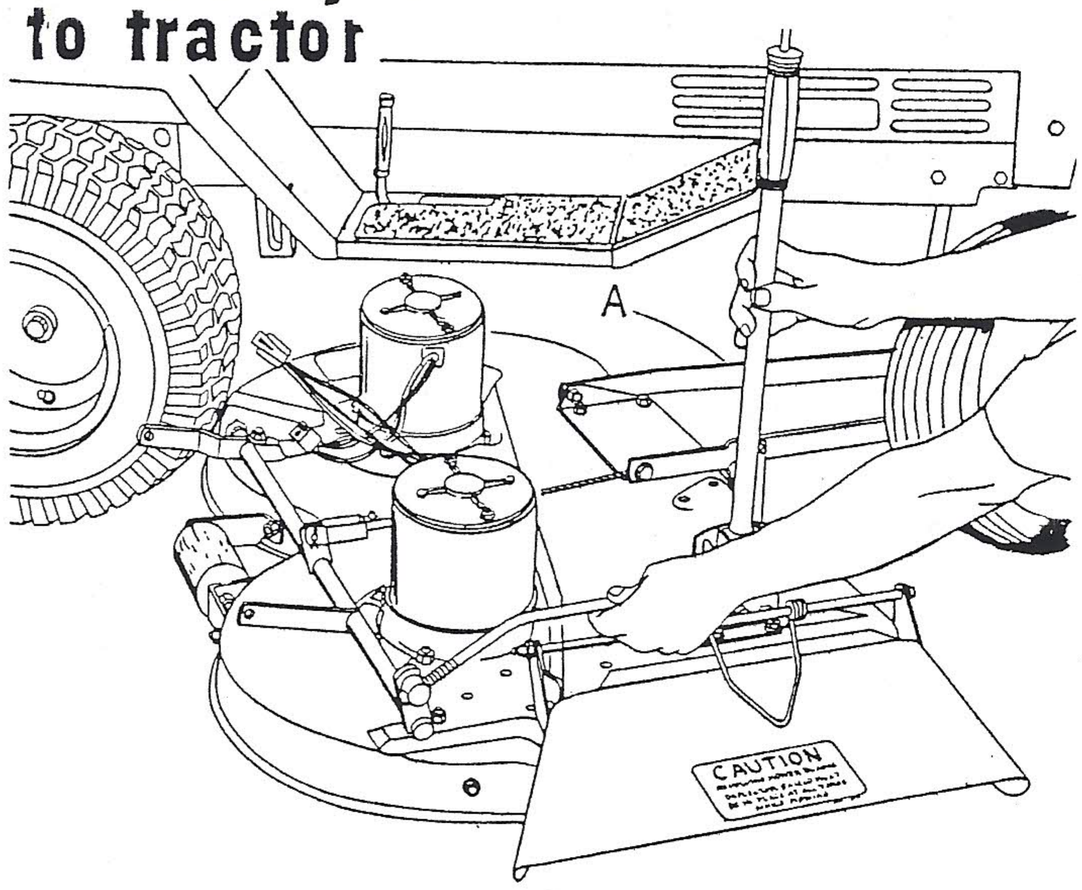


FIG. 10

1. Turn tractor front wheels to the extreme L.H. position.
2. Slide mower under tractor. NOTE: Front lift link (A), must be slid under front of tractor first. Mower can then be turned and slid under tractor to mounting position.

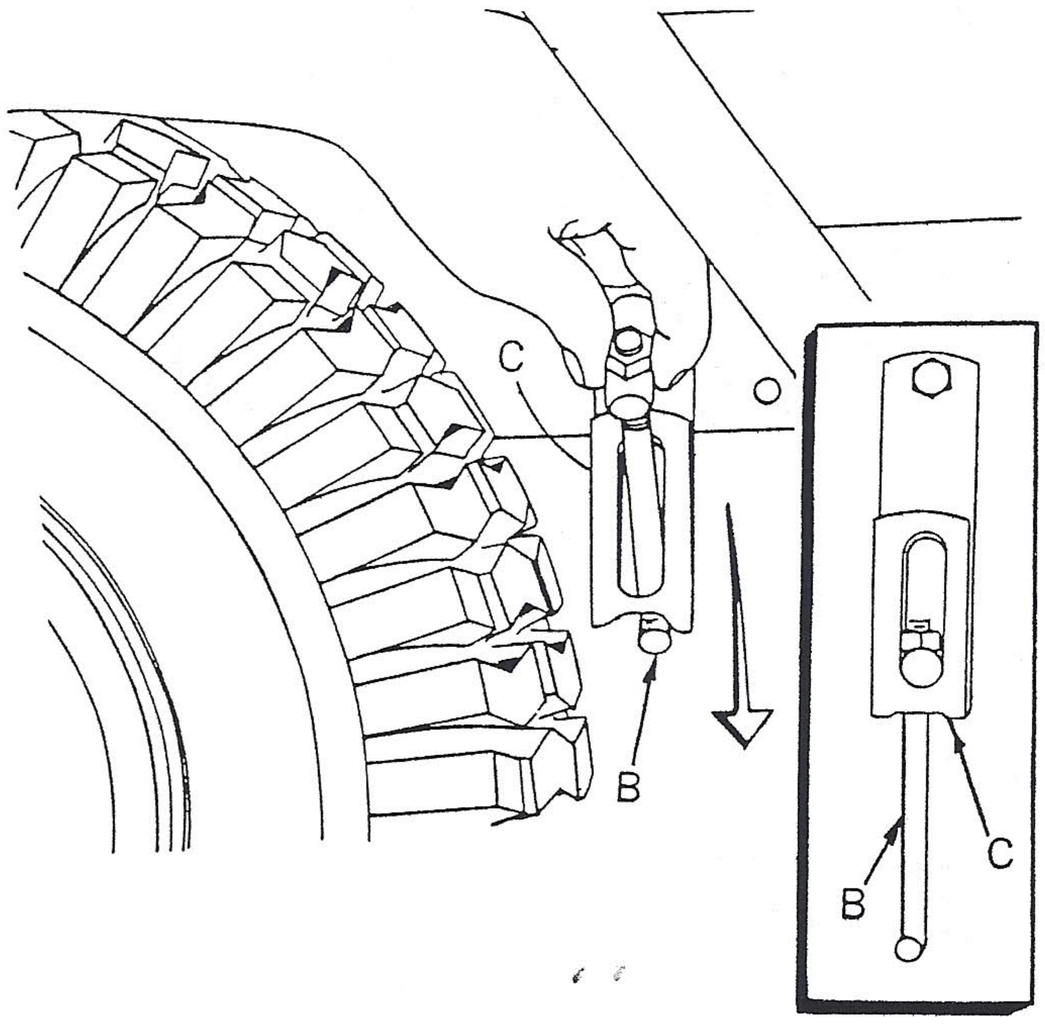


FIG. 11

3. Insert rear hanger adjusting screw (B), into tractor hanger bracket (C), as shown. This applies to both sides of tractor.

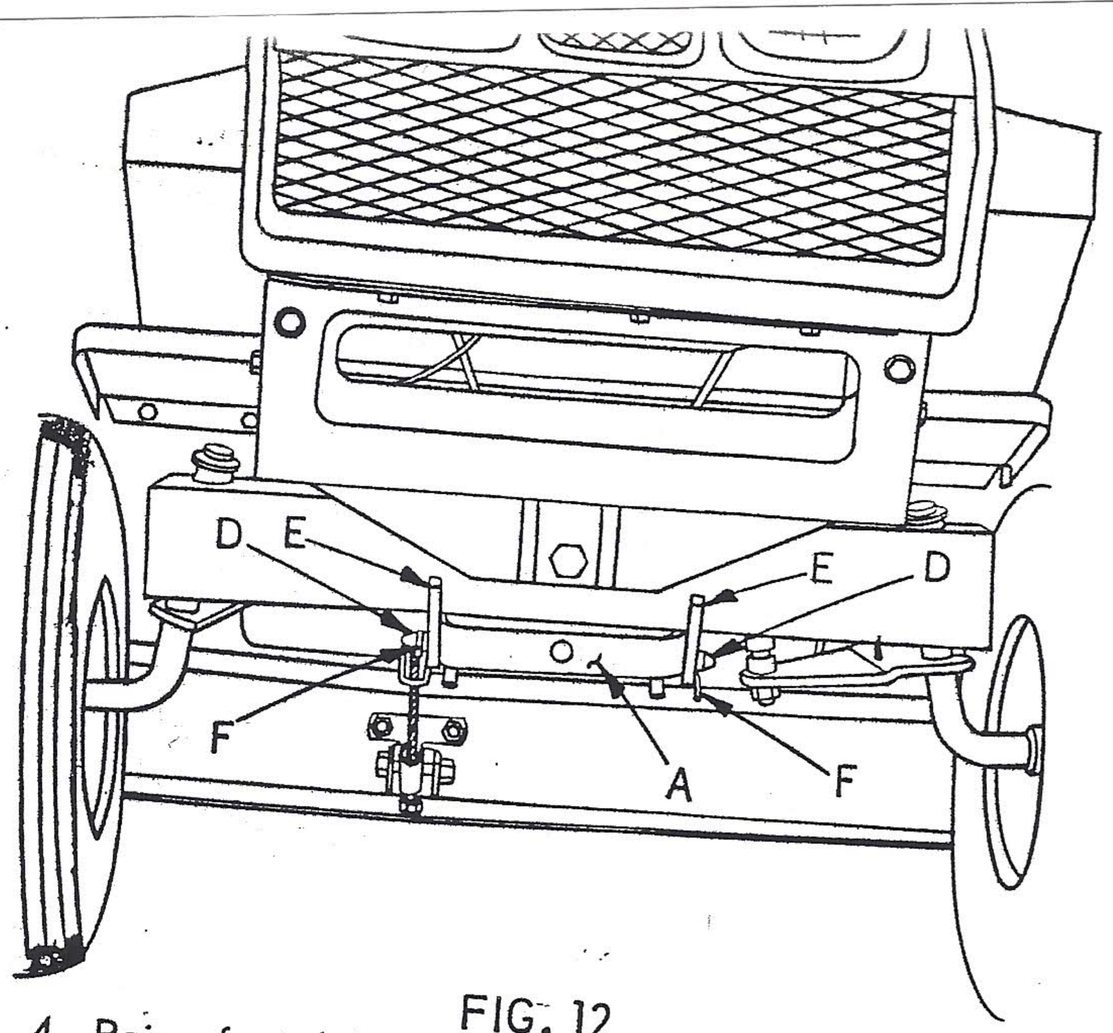


FIG. 12

4. Raise front lift link (A) up until round head rivets (D) can be inserted through holes in front lift link (A) and tractor front hanger brackets (E).
5. Secure round head rivets (D) with retainer spring (F).

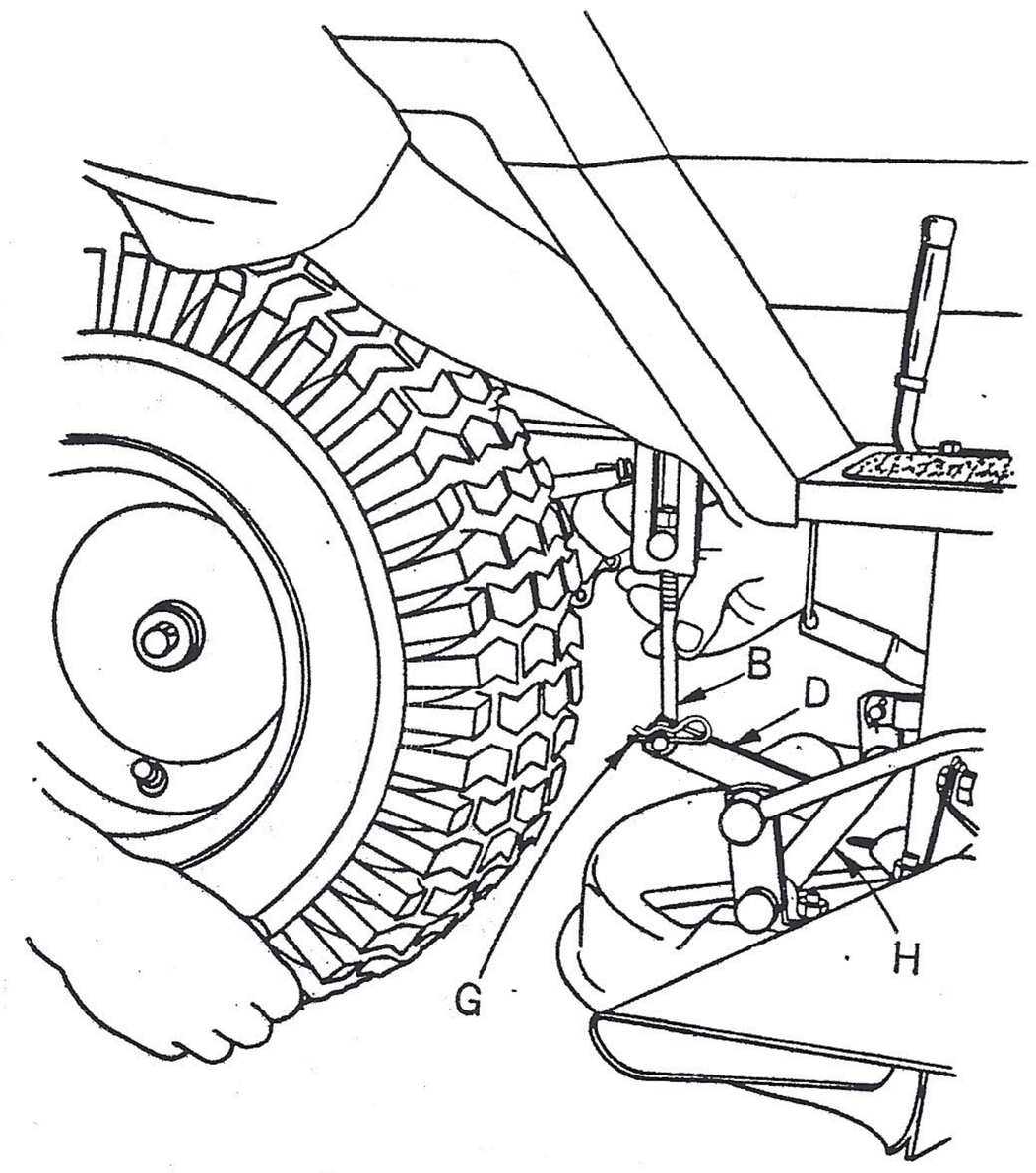
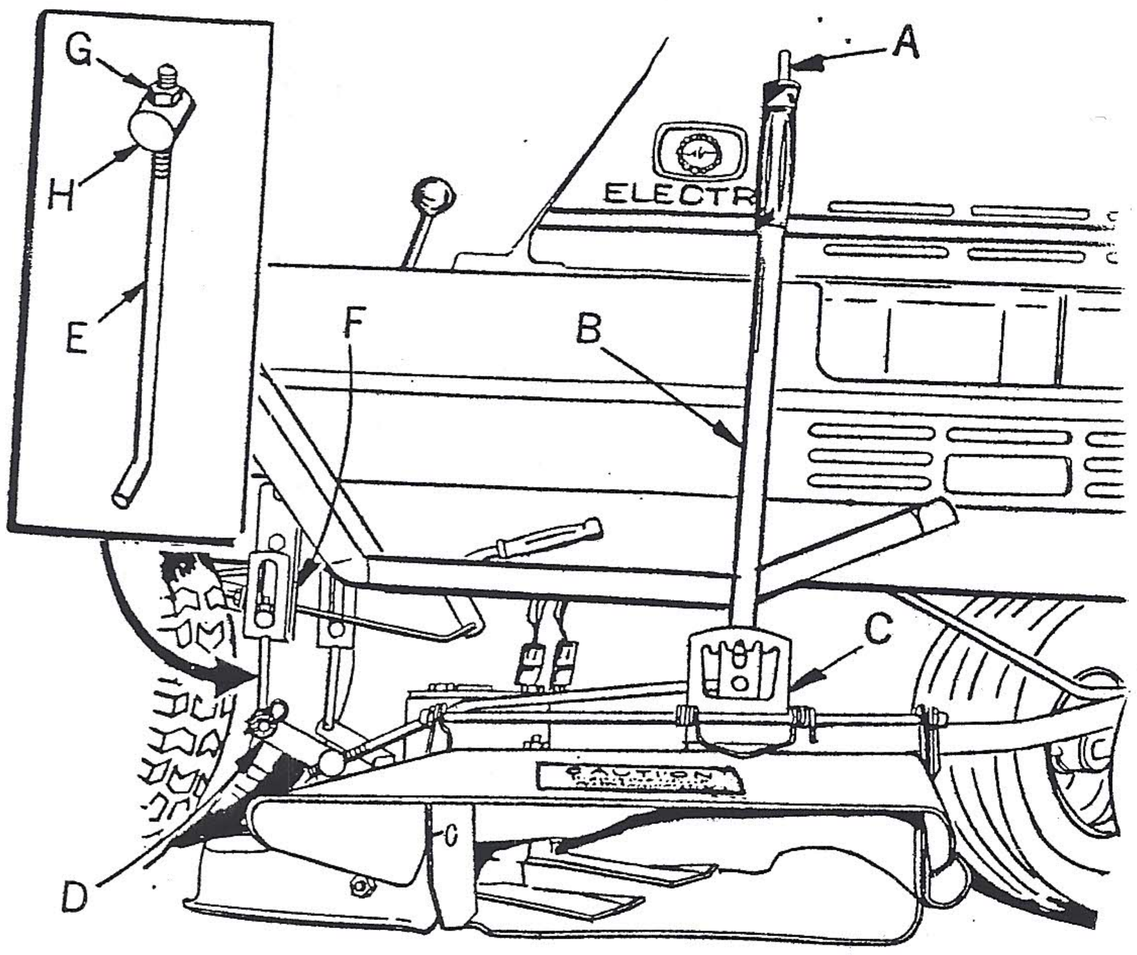


FIG. 13

6. Raise R.H. side of mower and insert adjusting screw (B) into hole in arm (D) of lift shaft weldment (H). Place a 13/32 x 7/8 x 14 Ga. washer on adjusting screw (B). Secure with a spring retainer (G). Attach L.H. side in same manner.

level mower from side to side



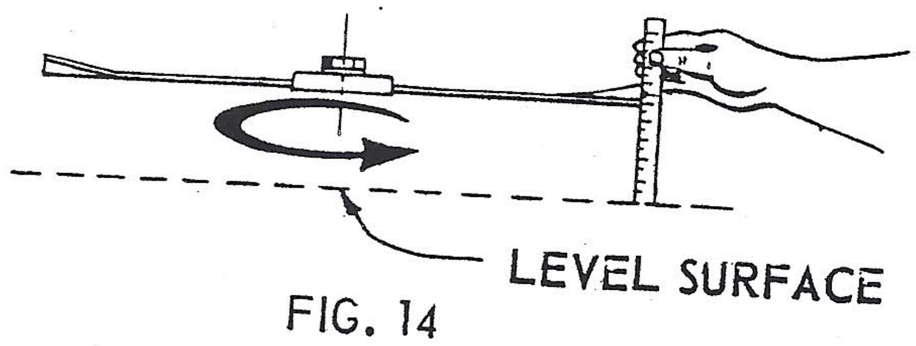


FIG. 14

1. CHECK TIRE PRESSURE ON TRACTOR FOR PROPER INFLATION. FRONT TIRES 12 LBS. REAR TIRES 10 LBS.
2. Place tractor and mower on level surface. Depress lever plunger (A) and position lever (B) in center notch of lever quadrant (C).
3. NOTE: Lift cable (Fig. 7) is preset at the factory and should not be adjusted. However, if dimension is accidently changed, the correct length is 25½" from center of hole in yoke to center of hole in the other yoke.
4. Rotate mower blades so that they are in line with the length of tractor. Measure the height of the rear tip of both blades. Both R.H. and L.H. sides must be the same distance from level surface. If they are not, follow steps 5, 6, and 7 below.
5. Remove retainer spring and flat washer (D) from the low side. Remove rear hanger adjusting screw (E) from the lift shaft weldment (F).
6. Loosen locknut (G) on rear hanger adjusting screw (E), and turn rear hanger adjusting nut (H) farther on adjusting screw (E). Each complete turn is approximately 1/16". Replace rear hanger adjusting screw (E) in lift shaft weldment (F).
7. Recheck rear tip height of both mower blades. If blades are same height, tighten locknut (G) on rear hanger adjusting screw (E). If not, blade is bent or mower housing is warped. Replace or contact Sears.

level mower front to rear

Refer to Fig. 14.

8. Rotate both blades ½ turn so that the end of the blade you just measured will now be facing front of mower.
9. Measure the height of the front tips of both blades. The front tips of each blade should be the same dimension as the rear dimension obtained under "Level Mower from Side to Side," or 1/8" lower in front.
10. If the front tip of the blades are not the same as the dimension stated above, repeat steps 5 and 6 under "Level Mower from Side to Side." However, both R.H. and L.H. rear hanger adjusting nuts (H), must be adjusted the same so that side to side level is not disturbed.
11. Recheck front tip height of both mower blades. If blades are same height, tighten locknut (G), on rear hanger adjusting screw (E) securely. Replace washers and retainer springs (D). If not, blade is bent or mower housing is warped. Replace or contact Sears.

complete the "assembly of mower to tractor"

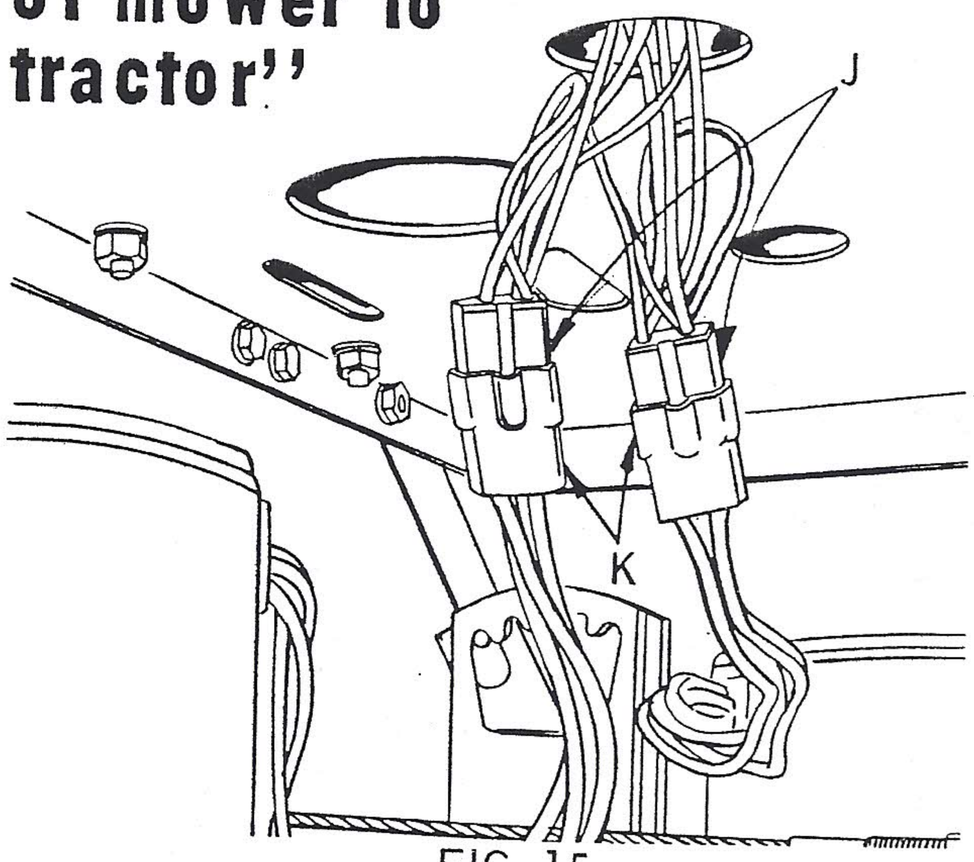


FIG. 15

1. Connect mower motors lead assemblies (K), to tractor terminals (J), securely. ("K" has a slotted hole that slips over a locking tab on "J").

complete the "fill and charge batteries instructions"

1. After charge cycle is completed, fill each battery cell to split ring indicator (refer to Fig. 3). Again take proper precautions against acid spilling.
2. There will be an amount of acid in the third container after all batteries have been 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 acid 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 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 packs to prevent further contact with acid.

instructions before operation

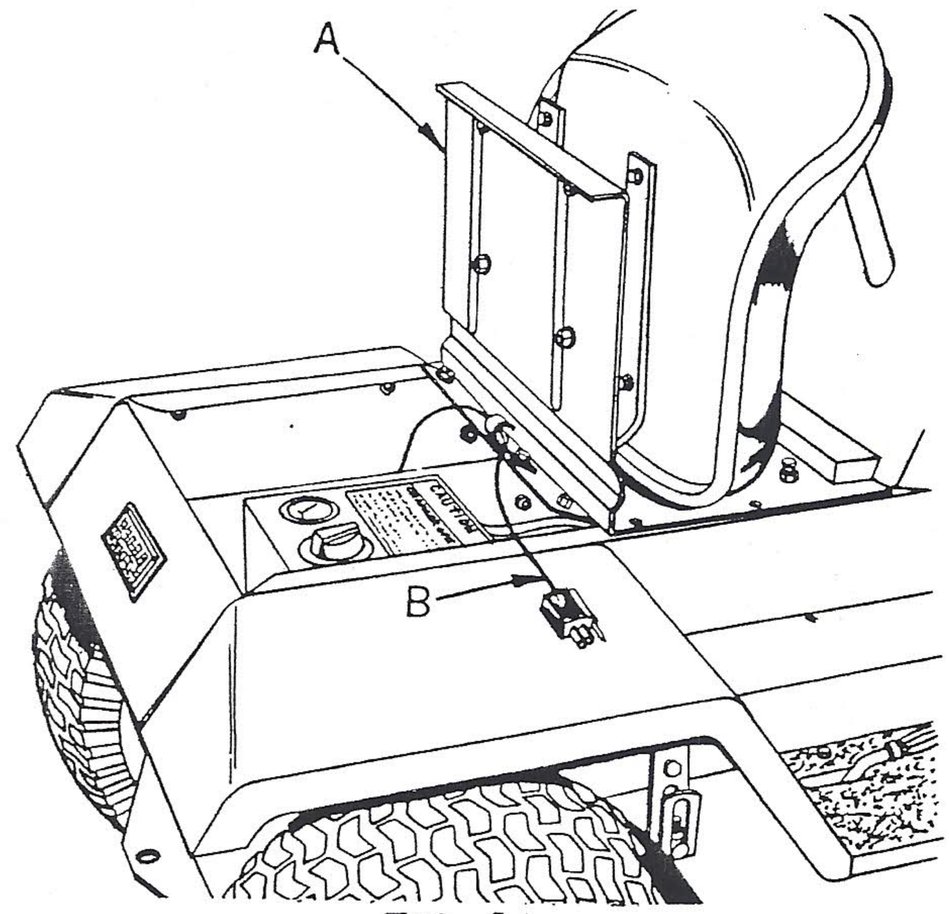


FIG. 16

1. Position seat and seat plate (A) in raised position--against steering wheel. Disconnect charger cord (B) from electrical outlet. Pull cord through clamp until cord and plug can be placed inside the storage compartment.

controls-tractor

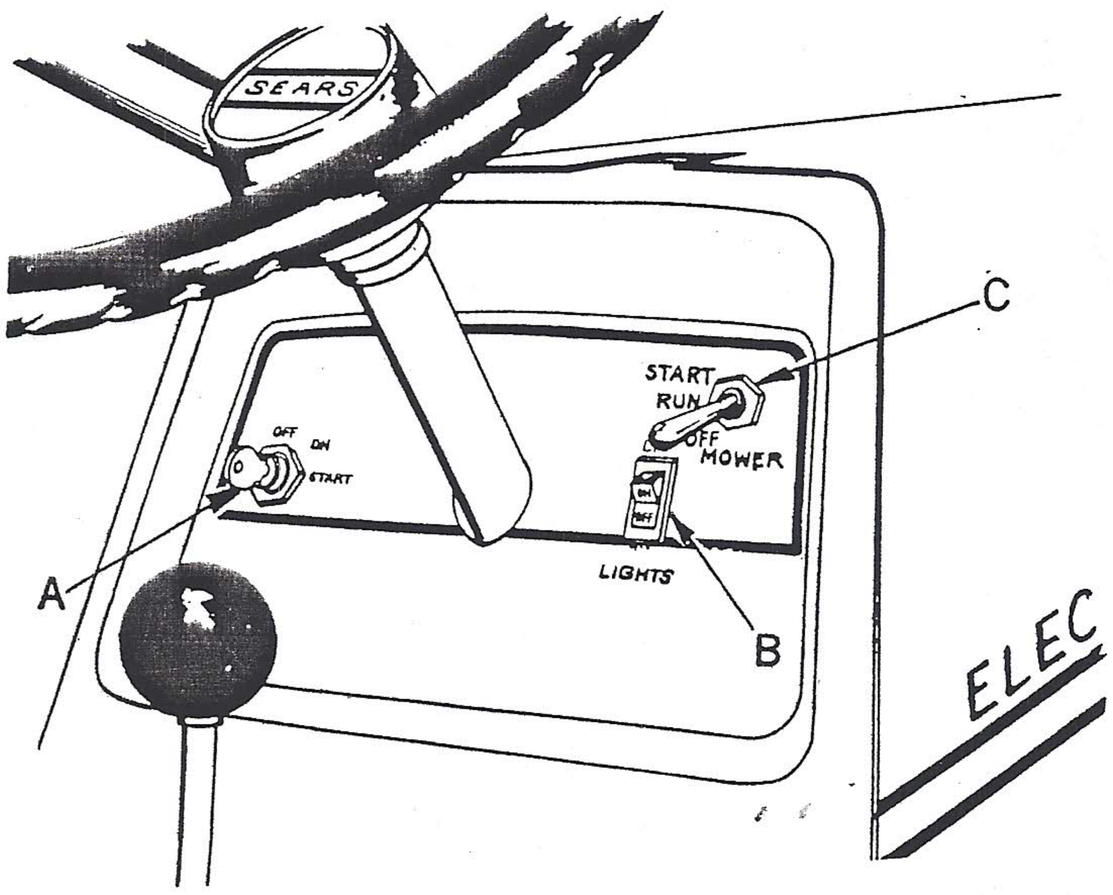


FIG. 17

1. (A) "Off" - "On" - "Start" key switch for drive (traction) electric motor.
2. (B) Light switch.
3. (C) "Start" - "Run" - "Off" toggle switch for mower (blade) electric motors.

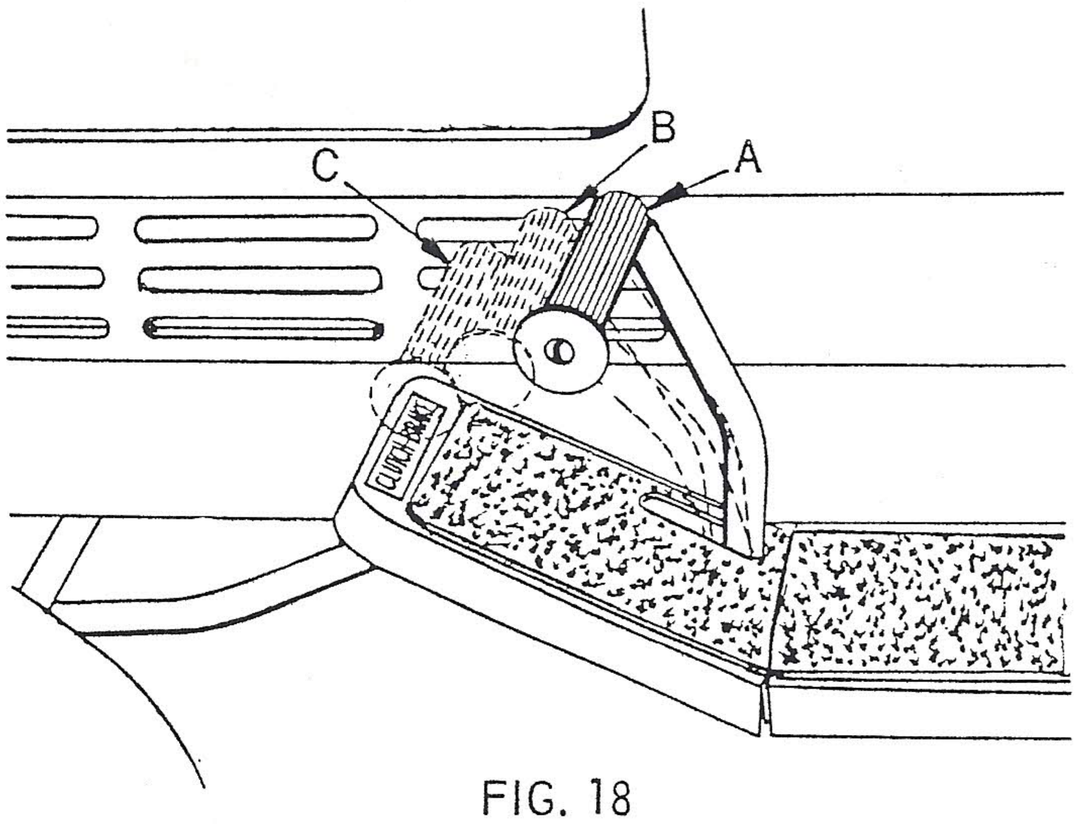


FIG. 18

The following controls are used to operate the tractor:

4. 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 (A) position when the pedal is all the way out (when the foot is removed from the pedal).
   b. The clutch is in NEUTRAL (B) when the pedal is depressed half way.
   c. The BRAKE (C) is on when the pedal is depressed all the way forward.

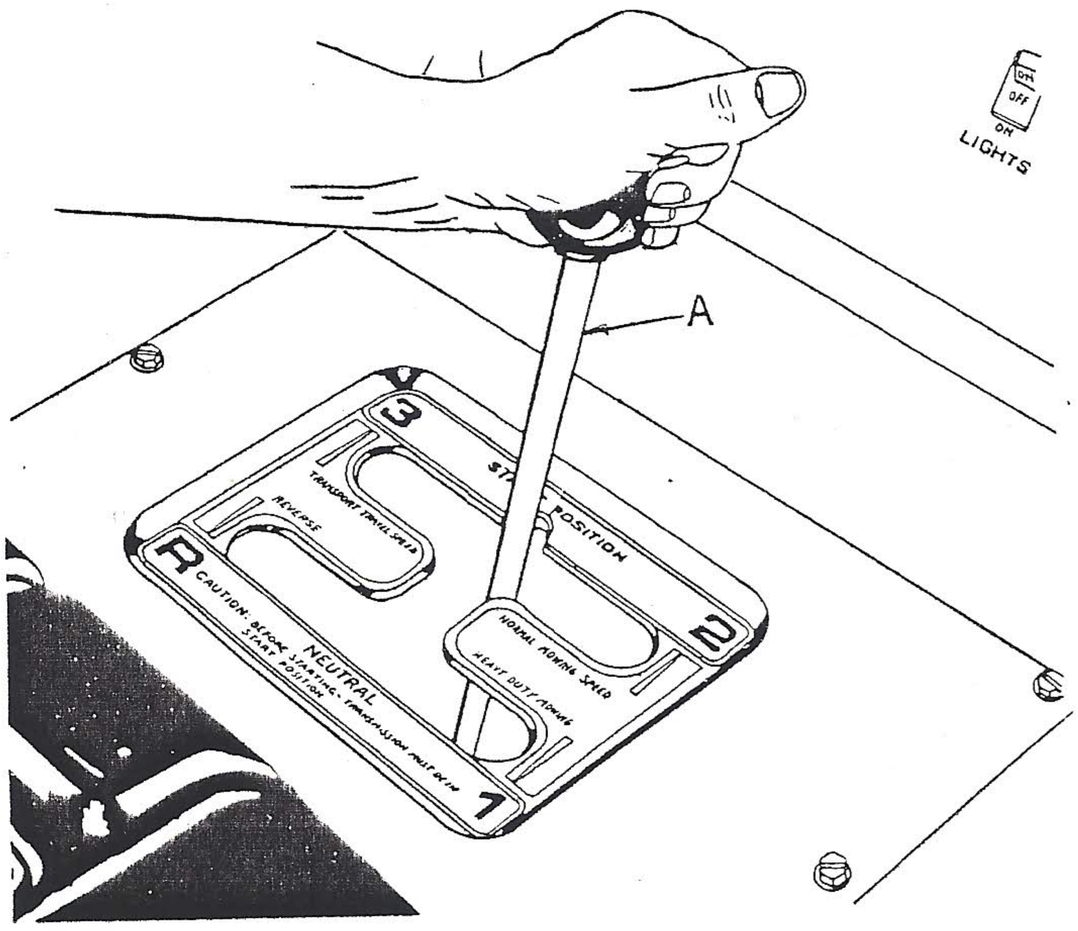


FIG. 19

5. The transaxle gearshift lever (A) is located at front, center of seat.
   a. The gearshift lever selects the FORWARD, NEUTRAL and REVERSE gears.

CAUTION: YOU MUST COME TO A COMPLETE STOP AND DEPRESS CLUTCH-BRAKE FOOT PEDAL TO NEUTRAL POSITION, BEFORE SHIFTING GEARS.

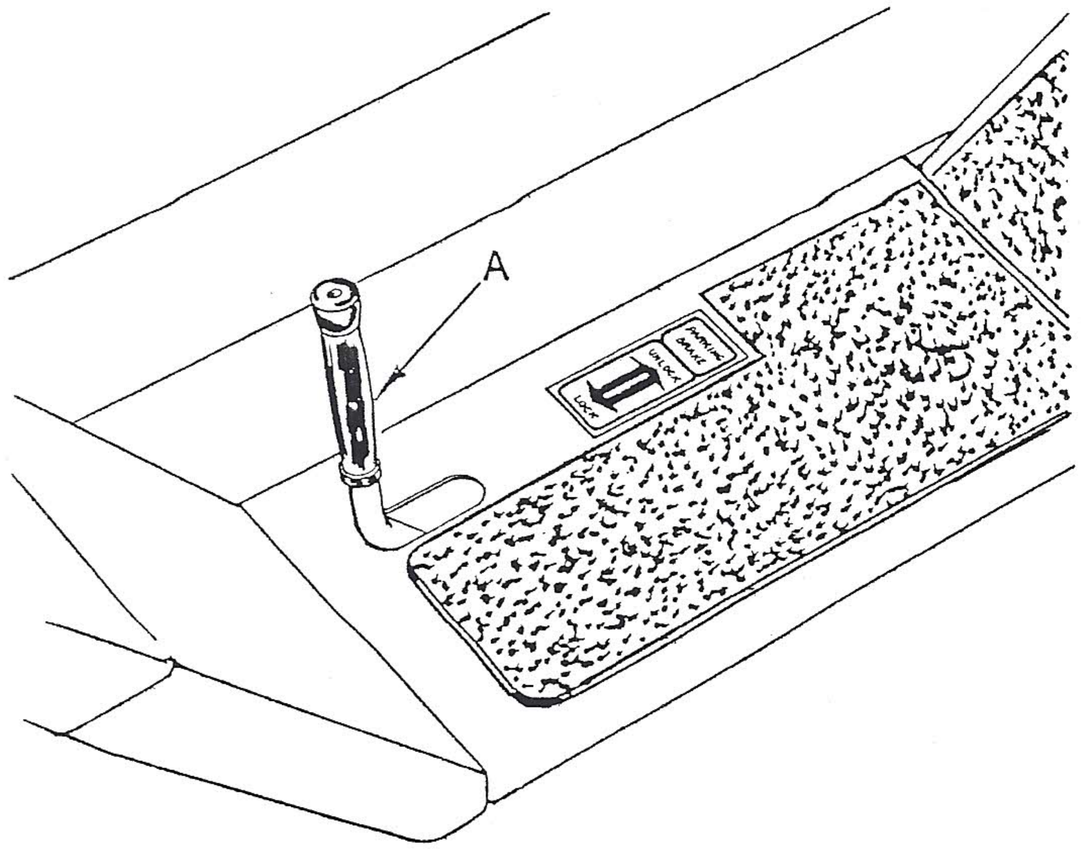


FIG. 20

6. To engage parking brake, pull parking brake lever (A), to rear (lock) position. To release parking brake push lever forward.

controls — mower height of cut

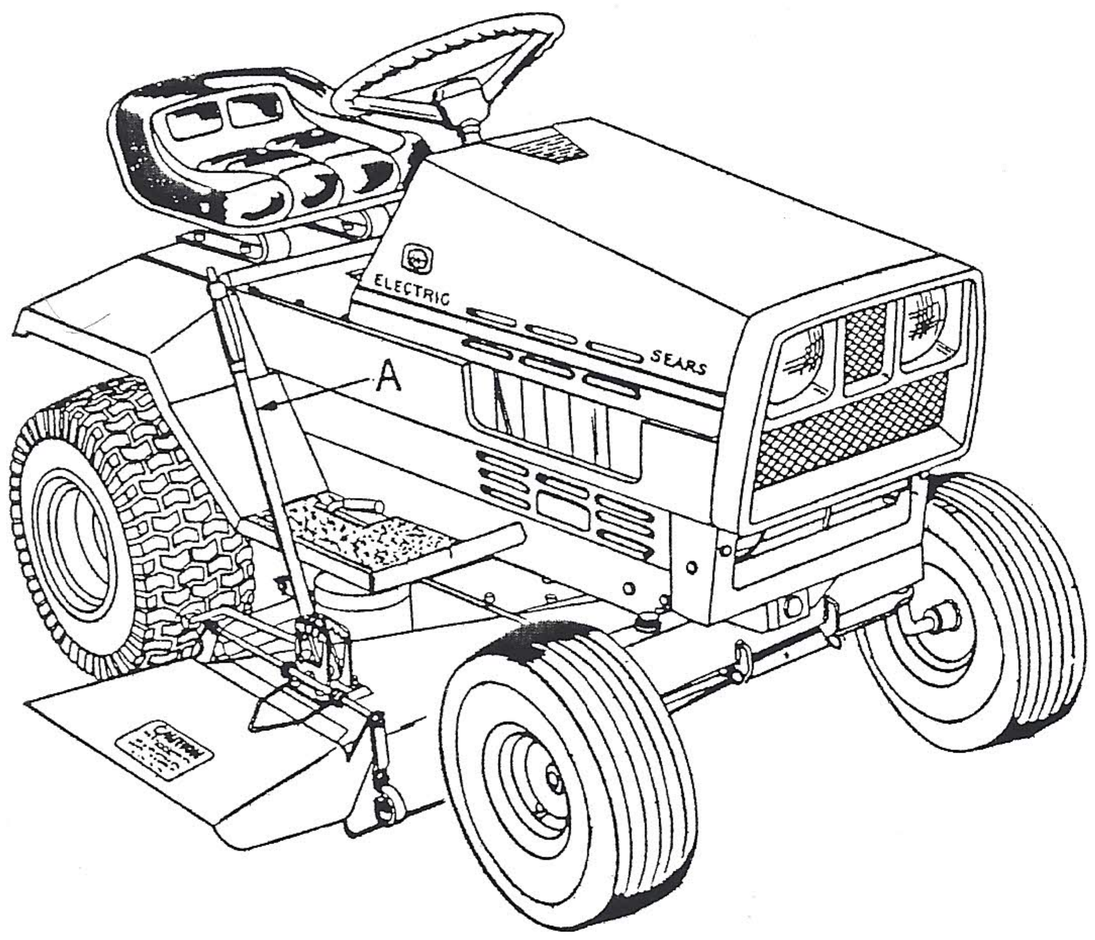


FIG. 21

1. The height of cut is determined by the lift lever (A). Moving the lever forward lowers the mower. Moving it backwards raises the mower. Each notch in the quadrant will change the height of cut approximately 7/16". Normally the center notch in quadrant will give you approximately a 2" height in cut.

mower toggle switch

2. The two mower blade motors are activated by a toggle switch (C, Fig. 17) located on the R. H. side of the dashboard. It has three positions: "Start", "Run" and "Off". Mower will not start unless tractor drive (traction) motor is running. Mower toggle switch must be in "Off" position before stopping or starting the tractor.

operation instructions

BEFORE OPERATING YOUR TRACTOR AND MOWER, AGAIN REFER TO THE "RULES FOR SAFE OPERATION", LISTED ON PAGES 1, 2 AND 3. ALWAYS BE CAREFUL.

how to start and stop

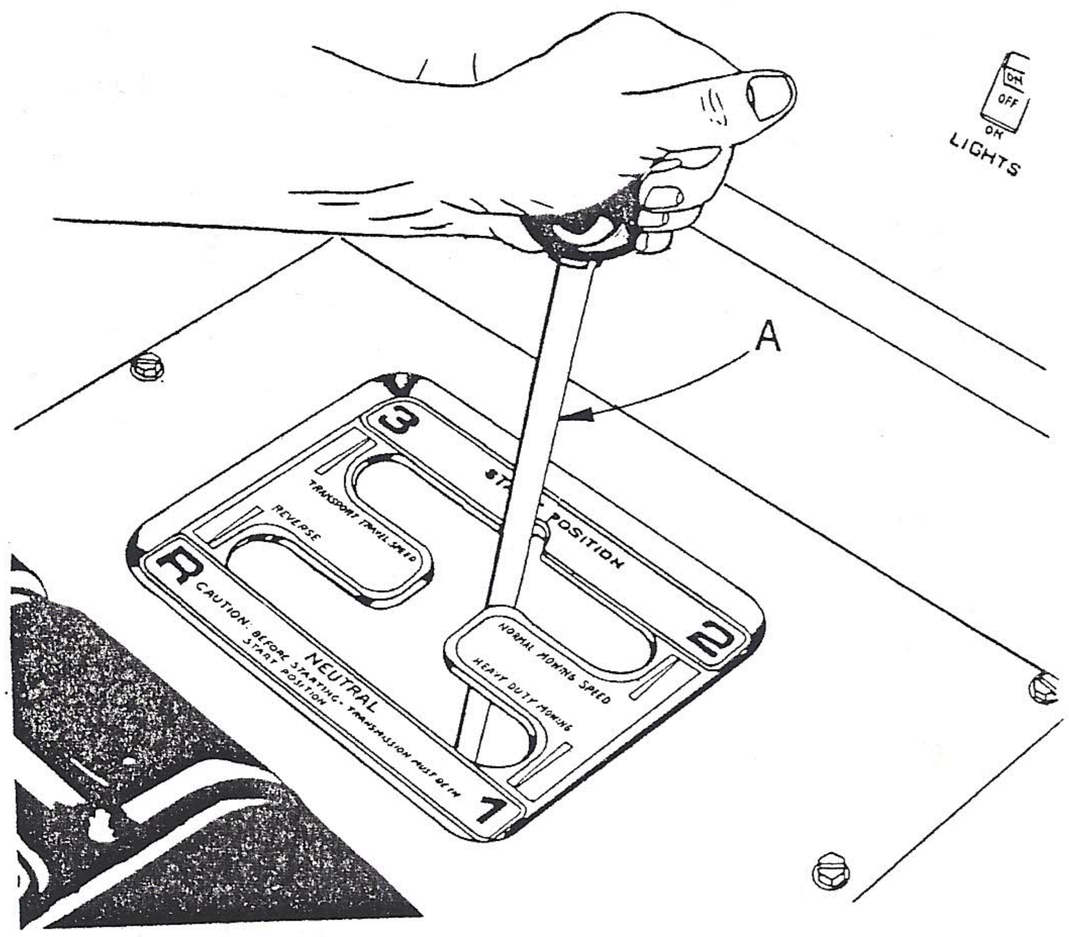


FIG. 22

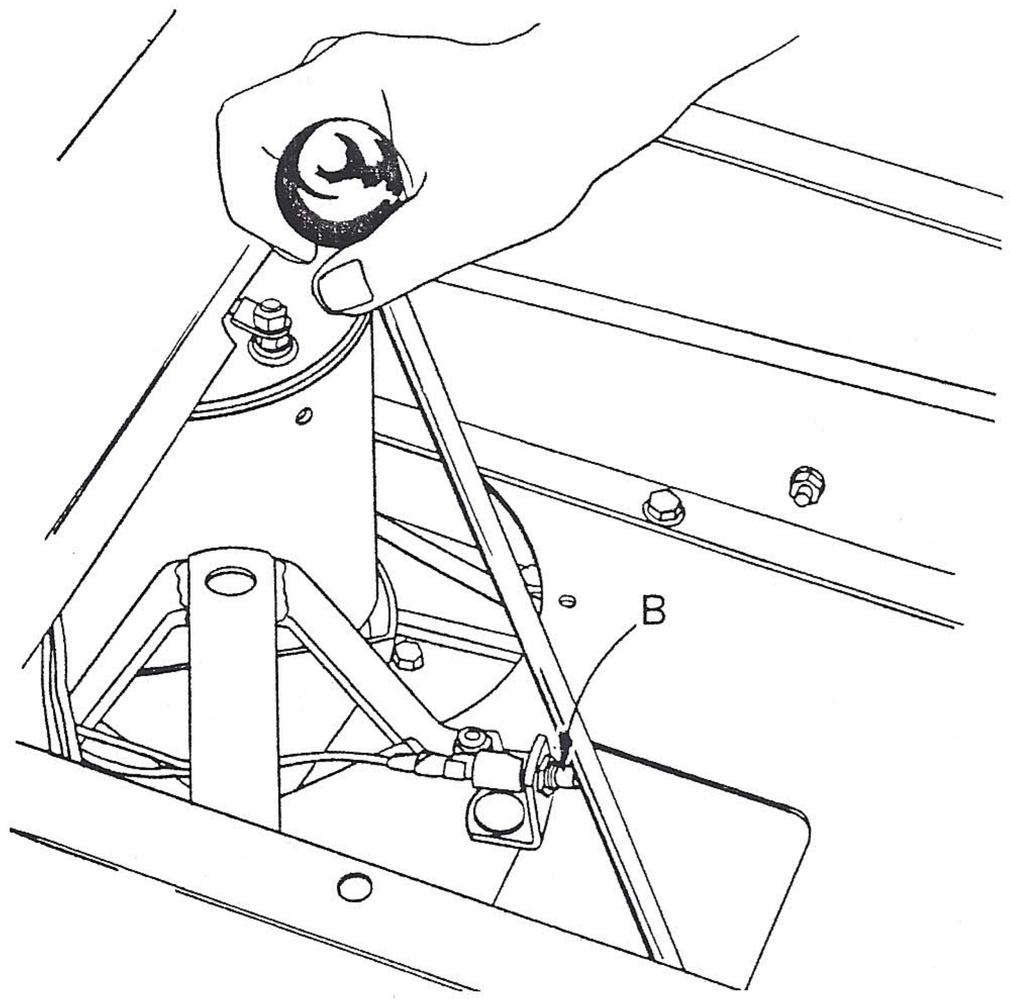


FIG. 23

Refer to Fig's. 22 and 23.

1. Your tractor is equipped with a neutral safety switch (B, Fig. 23). The gear shift lever (A, Fig. 22) must be in the "start position" (held in notched area), before motor will start.
2. Mower electric motors switch (C, Fig. 17), should be in the "Off" position. NOTE: Mower will not start unless tractor drive (traction) motor is running.
3. Depress clutch and brake foot pedal, refer to Fig. 18.
4. Turn the key (A, Fig. 17), for the tractor drive (traction) motor, to "Start" position. Release key and it will return to "On" position.
5. Flip mower electric motors switch (C, Fig. 17) to "Start" position. Release switch and it will return to "Run" position.
6. To stop mower motors, flip switch (C, Fig. 17) to "Off" position. To stop tractor motor, turn key (A, Fig. 17) to "Off" position. Key should be removed to prevent unauthorized operation.

safe operation

1. Try your tractor-mower in a large open space. Learn to start, stop and reverse.
2. Follow steps 1 through 5 under "How to Start and Stop", top of this page.
3. Be sure parking brake (A, Fig. 20) is in the "unlock" position.
4. Depress clutch and brake foot pedal, refer to Fig. 18, to "Neutral" position. Move gear shift lever refer to Fig. 19, to desired speed. Release clutch and brake foot pedal slowly and tractor will start to move. After clutch and brake foot pedal is fully released, should ground travel be too fast, depress foot pedal and shift to a slower ground travel speed. DO NOT shift gears while tractor is moving.
5. Do not operate tractor in high gear downhill. Do not turn sharp corners while going downhill. If it is necessary to stop tractor while going downhill, do so quickly to prevent tractor from picking up speed during the declutching to brake position.
6. DO NOT OPERATE TRACTOR ACROSS SLOPES. DO NOT OPERATE TRACTOR UP OR DOWN SLOPES WITH MORE THAN A 15 DEGREE SLOPE.
7. Do not shift gears while going uphills. Choose a low enough gear to climb without stopping and shifting gears. If it is necessary to stop while going uphill, do so quickly to prevent tractor rolling backward. Before starting tractor in motion going uphill, use one of the lowest gears. Engage clutch gradually to prevent tractor from "rearing up".
8. Upsets can happen easily in ditches. Stay alert for holes or other yard hazards.
9. To stop tractor and mower, flip mower motors switch (C, Fig. 17) to "Off" position. Push clutch and brake foot pedal all the way down. Move gear shift lever to neutral, set parking brake and release foot pedal. Always check to make sure brake lock will hold tractor-mower secure. 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 mower motors and/or tractor drive (traction) motor running after dismounting from tractor seat.

mower motors circuit breakers

*1. There are circuit breakers built in the mower motors. Continous towing or pushing of heavy loads, mowing in tall, heavy or damp grass, etc. can cause the mower motors to overheat which will trip the circuit breakers. These circuit breakers will prolong the life of the motors.

*2. Should a mower motor overheat, its breaker will open the circuit to that motor. DO NOT ATTEMPT to start the mower motors until sufficient time has lasped for the motor to cool.

*3. Use the following procedure in the event one or both mower motors stop due to overheating:
   A. Turn mower switch to "Off".
   B. Turn tractor key switch to "Off".
   C. Wait at least 5 minutes.
   D. Turn "Start" key switch (traction motor should start).
   E. Turn mower motors switch to "Start" and hold no longer than 3 or 4 seconds. Release to the "Run" position. (Both mower motors should start and run at full speed. If not, IMMEDIATELY TURN BOTH SWITCHES TO "OFF", and wait another 5 minutes since the motor had not cooled sufficiently).

*4. Repeat procedure starting at "A", above.

*IMPORTANT: Serious damage to the control circuit and solenoids can result if the above procedure is not followed and the mower switch is held in the "Start" position for a prolonged period before the motor has cooled sufficiently.

mowing tips

1. Normal cutting height is 2 inches, height of cut can be adjusted by means of the lift lever (A, Fig. 21). Moving the lever forward lowers the mower, moving the lever backwards raises the mower.
2. In the early spring, when the grass is damp or when ground is soft, adjust the lift lever for a higher cut to avoid overloading the motors. NOTE: The mower lift rod can be adjusted for a higher than normal cut. Refer to Fig. 8, page 6. Remove cotter pin (N). Turn lift rod trunion (L), outward on lift rod (G), until trunion is even with end of lift rod. Recotter lift rod trunion (L), to lift shaft weldment (M).
3. For extremely heavy cutting conditions, it is advisable to make the width of your cut ½ or ¾ of normal full cut. This will reduce the load on the mower and will provide a clean cut since the blade speeds will be fully maintained.

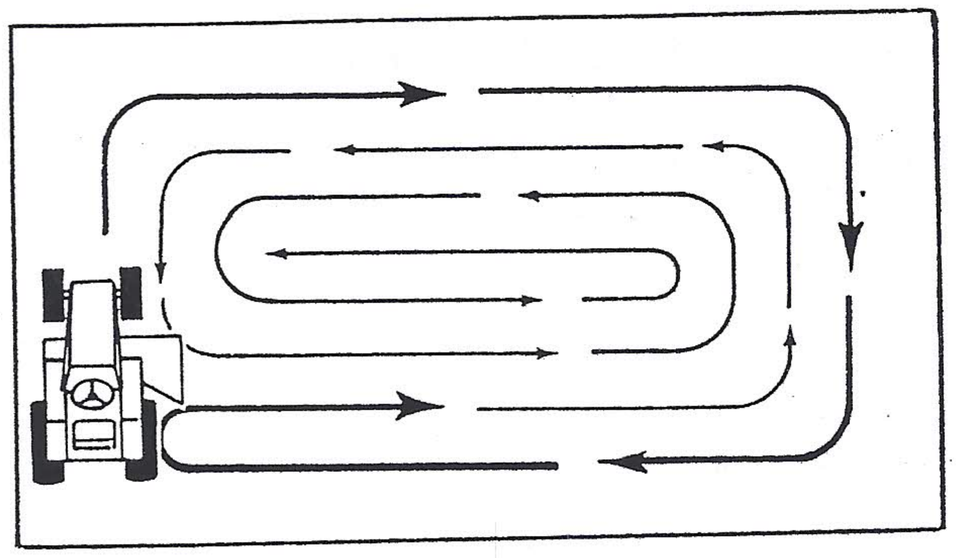


FIG. 24

4. For normal cutting use method as shown above. The first lap is cut in a clockwise direction. The balance of cutting is done in a counterclockwise direction. This should produce the best results for most lawns.
5. All but the very lightest cutting should be done in 1st or 2nd gear. The tractor should be operated in 1st gear when very heavy, moist grass is encountered. This will prevent clumping and clogging of grass beneath mower housing. The 3rd gear should be used for very light cutting.
6. When mowing next to buildings or flower beds, the tractor should be driven so that the discharge of mower will be away from building or flower beds.
7. When moving from cutting area to cutting area, over sidewalks, driveways, etc., shut-off mower motors, raise mower to highest position and drive tractor in 1st gear.

towing tractor

1. Place gearshift lever in neutral position. Be sure the parking brake lever is in the "Unlock" (forward) position. Tractor can then be towed at a reasonable safe speed not faster than 6 miles per hour.

after mowing

After you have finished your mowing and cleaned your mower as described under "Cleaning Instructions" proceed as follows:

1. Drive tractor to storage area near electrical outlet. Stop ground travel, shift into neutral and set parking brake.
2. Turn switch key to "Off" position and remove key.
3. Following steps 4, 5 and 6, page 5, to prepare to change batteries.

maintenance instructions

All servicing can be handled without tipping tractor with the exception of removing a wheel for tire repair. Tractor can be tipped a maximum of 30 degrees. Avoid spilling battery acid which could cause personal injury or machine damage.

charging the batteries

As soon as you finish using your tractor-mower, you should recharge your batteries so that your unit will be ready the next time you need it.

WARNING:
HIGHLY COMBUSTIBLE HYDROGEN GAS IS VENTED FROM THE BATTERIES DURING THE CHARGING CYCLE.

Keep the tractor hood open. Charge batteries in ventilated area. Keep flame away from and do not smoke around batteries.

With the charger control knob in the "storage" position, plug charger cord into a 110-120 volt, 60 cycle grounded electrical outlet. Refer to page 5. Rotate knob to "on" position to start the charging cycle. The control knob will then rotate clockwise as time elapses. When the batteries are fully charged, the timer will rotate to "storage" position. While in "storage" position, the charger gives the batteries a continuous trickle charge which keeps the batteries fully charged. Whenever disconnecting charger, rotate knob to "storage" position.

Keep the charger connected to a live electrical outlet whenever the machine is not in use . . . even during winter storage. Unit plugged into electrical outlet continuously will increase your electrical bill only pennies a day. Batteries can be severly damaged if stored for prolonged periods in a discharged condition. It is normal for the charger to become warm while in operation.

NOTE:
DO NOT charge batteries with any other charger. DO NOT use the tractor-mower to start other vehicles, battery damage will result.

battery care

A hydrometer test of the battery solution should be made monthly. If the specific gravity tests 1200 or less, the battery should be thoroughly recharged. At the same time the solution level should be examined, and distilled water added when necessary to retain the proper level. When necessary to add water, do it just prior to recharging so that the added water mixes with the solution. Care should be exercised not to overfill batteries at any time.

Any collection of grease or any other substance should be removed from the top of the batteries and the top kept dry and clean at all times. The batteries should be kept snug and not permitted to get loose. The flip caps should be kept tight and the small vent holes be kept open at all times to permit escape of gas formed in the batteries.

BEFORE PERFORMING ANY OTHER MAINTENANCE OR ADJUSTMENTS, DISCONNECT THE 100-AMP. FUSE (FIG. 26), AND ONE BATTERY TERMINAL FROM THE TRACTOR. ON THE MOWER, DISCONNECT MOWER MOTORS LEAD ASSEMBLIES FROM TRACTOR TERMINALS. REFER TO FIG. 15, PAGE 8.

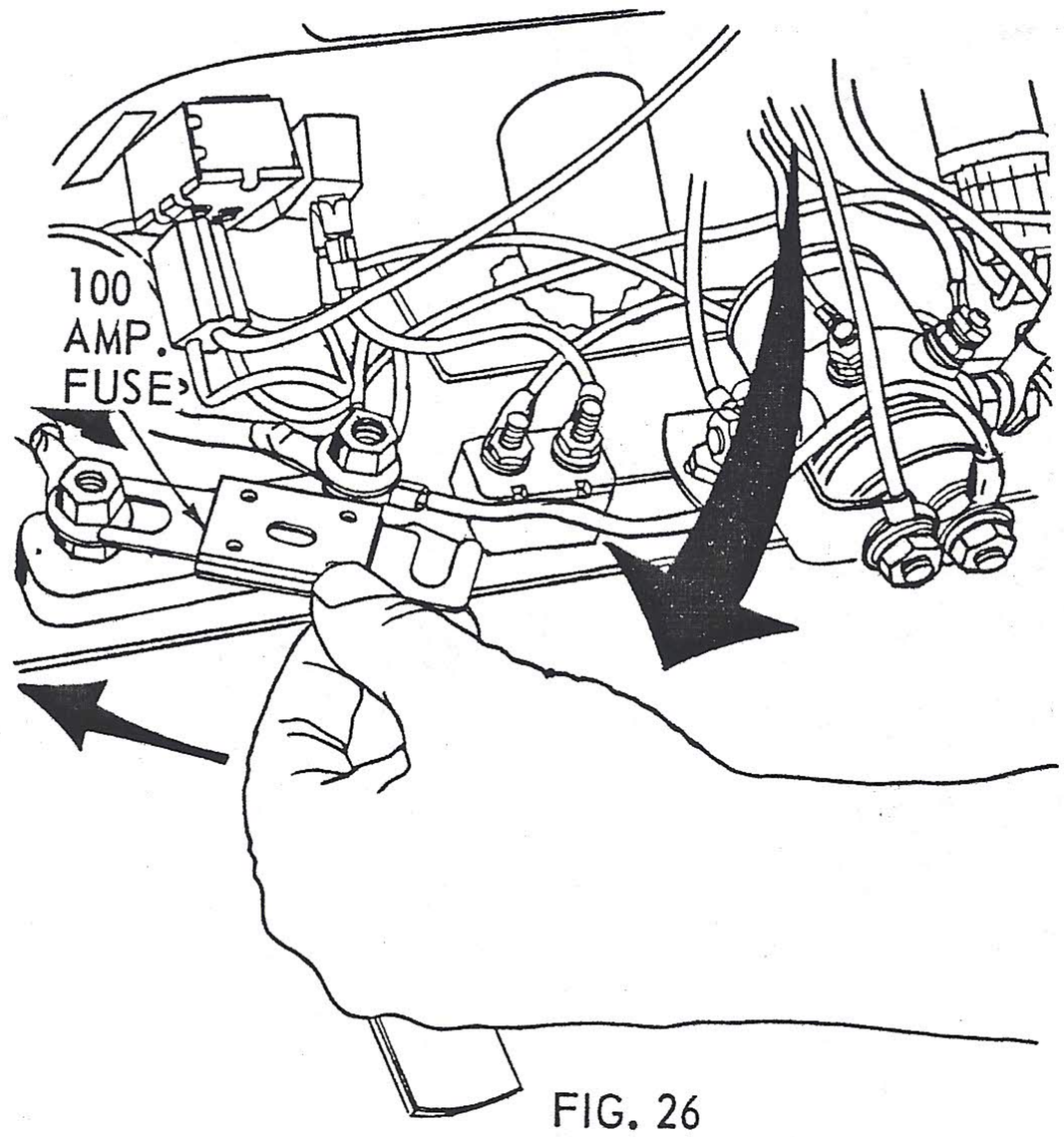


FIG. 26

transaxle lubrication

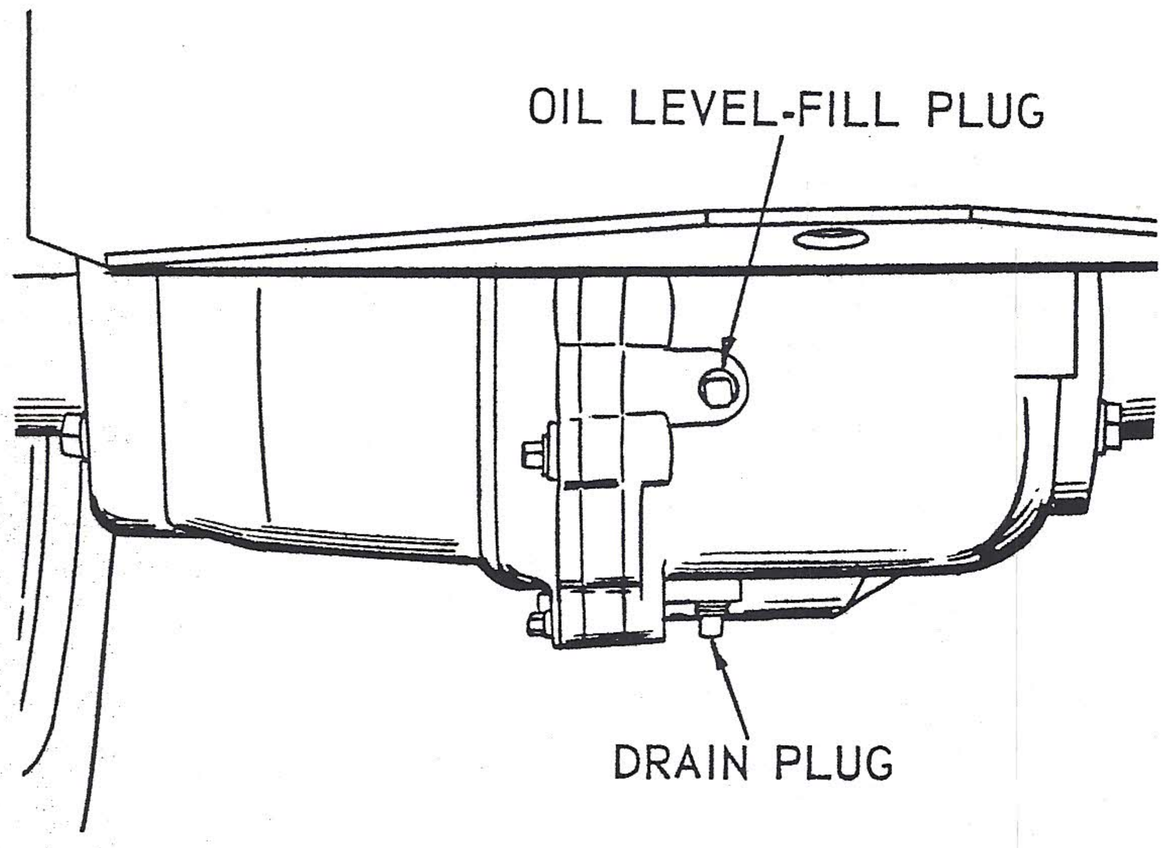


FIG. 27

1. Check oil in transaxle every 50 hours of operation. To check oil level, remove oil level-fill plug. Oil level should be even with this hole.

2. Change oil in transaxle after 500 hours of operation. To drain, remove drain plug and catch oil in a suitable container.

3. To fill transaxle, use Allstate multi-purpose extreme pressure gear lubricant S.A.E. 90 or equivalent. Fill through oil level-fill plug. Capacity approximately 1½ pints.

lubrication chart

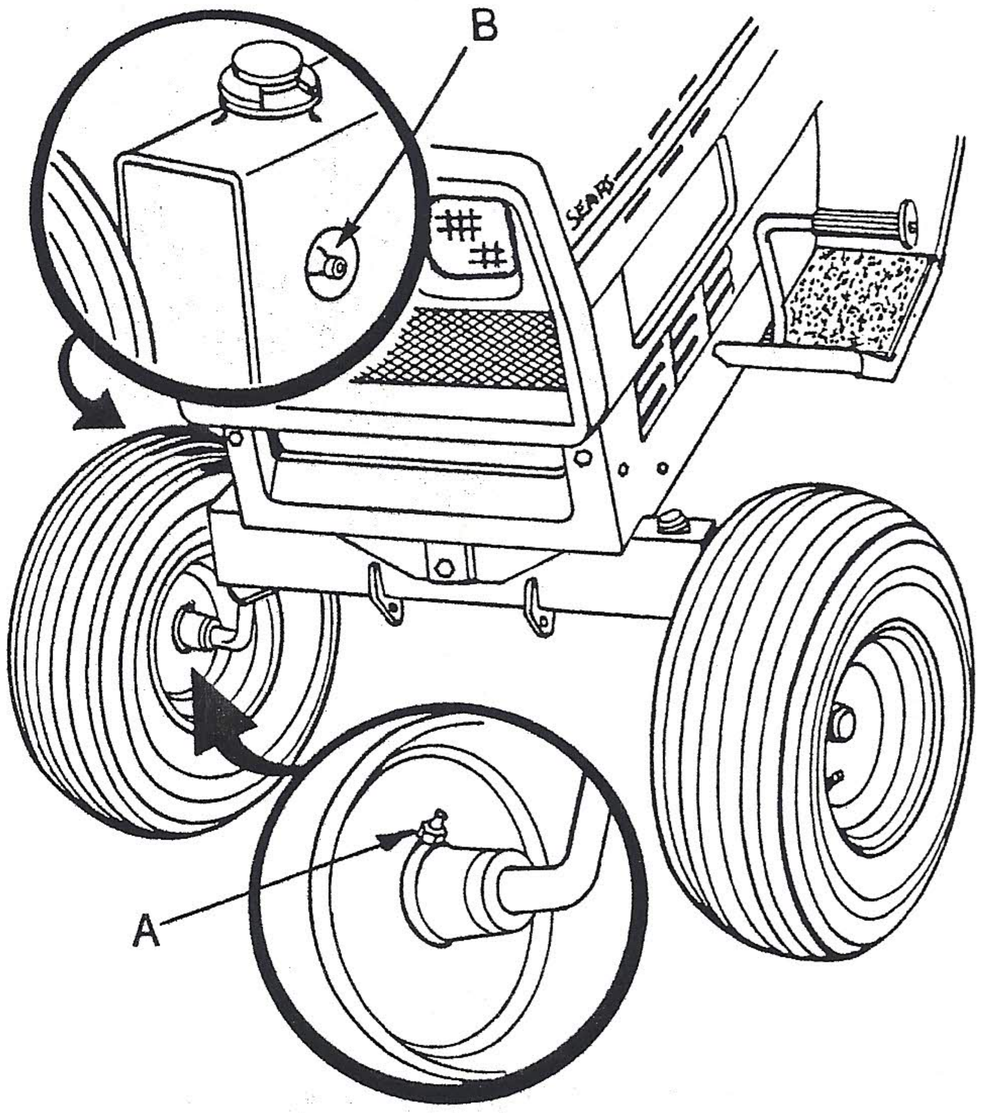


FIG. 28

There are only 4 grease fittings on your lawn tractor. Give each grease fitting 2 shots of grease every 5 hours of operation. Use high performance extreme pressure lubricating grease Amdex No. 1. This may be obtained by ordering part number 2557R from your local Sears store or Catalog outlet.

A – Front Wheels (1 fitting, each side).

B – King Pins, through holes in rear of front axle, (1 fitting each side).

- Check oil in transaxle every 50 hours of operation. Change oil every 500 hours of operation. (Fig. 27).

– To oil steering pinion shaft and steering sector assembly, apply several drops of S.A.E. No. 30 oil at bearing-steering sector. Oil every 5 hours of operation.

– Apply several drops of S.A.E. No. 30 motor oil to all pivot points every 5 hours of operation.

blade care

For best results, cutting blade must be kept sharp. The blade can be sharpened with a few strokes of a file, or on a grinding wheel. Do not attempt to sharpen while on mower.

When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before re-installation on mower. Imbalance of blade or bent blade will cause excessive vibration when running, and eventual damage to mower.

To insure satisfactory operation, it is recommended that before the start of each mowing season, the old blades be discarded and replaced with new blades. Mower blades can be ordered at all Sears retail stores and mail order outlets.

blade replacement

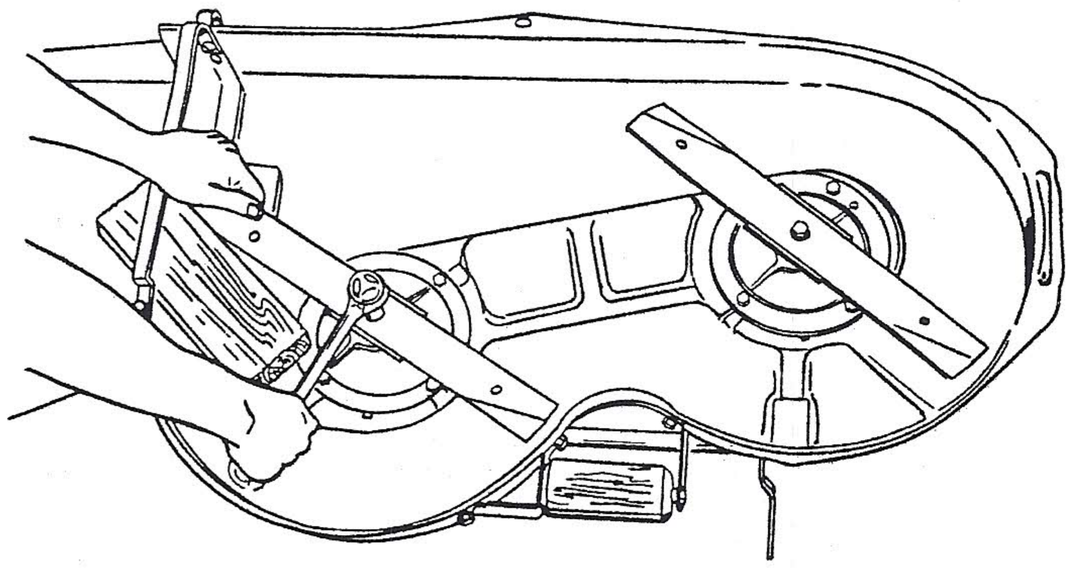


FIG. 29

1. Mower should be removed from tractor to replace or sharpen blades. Wedge a block of wood between blade and mower housing to hold from turning when removing bolt holding blade to blade saddle weldment. Turn bolt counterclockwise to remove. Remove spring washer and blade from blade saddle weldment. Install new blade or sharpened blade with sharp edge down. Replace spring washer and hex bolt. Do not use a substitute for this bolt. It is a special heat treated one. Make sure blade is positioned inside channel blade saddle weldment. TIGHTEN BOLT SECURELY.

disc brake adjustment

NOTE: The parking brake must be adjusted each time the disc brake is adjusted.

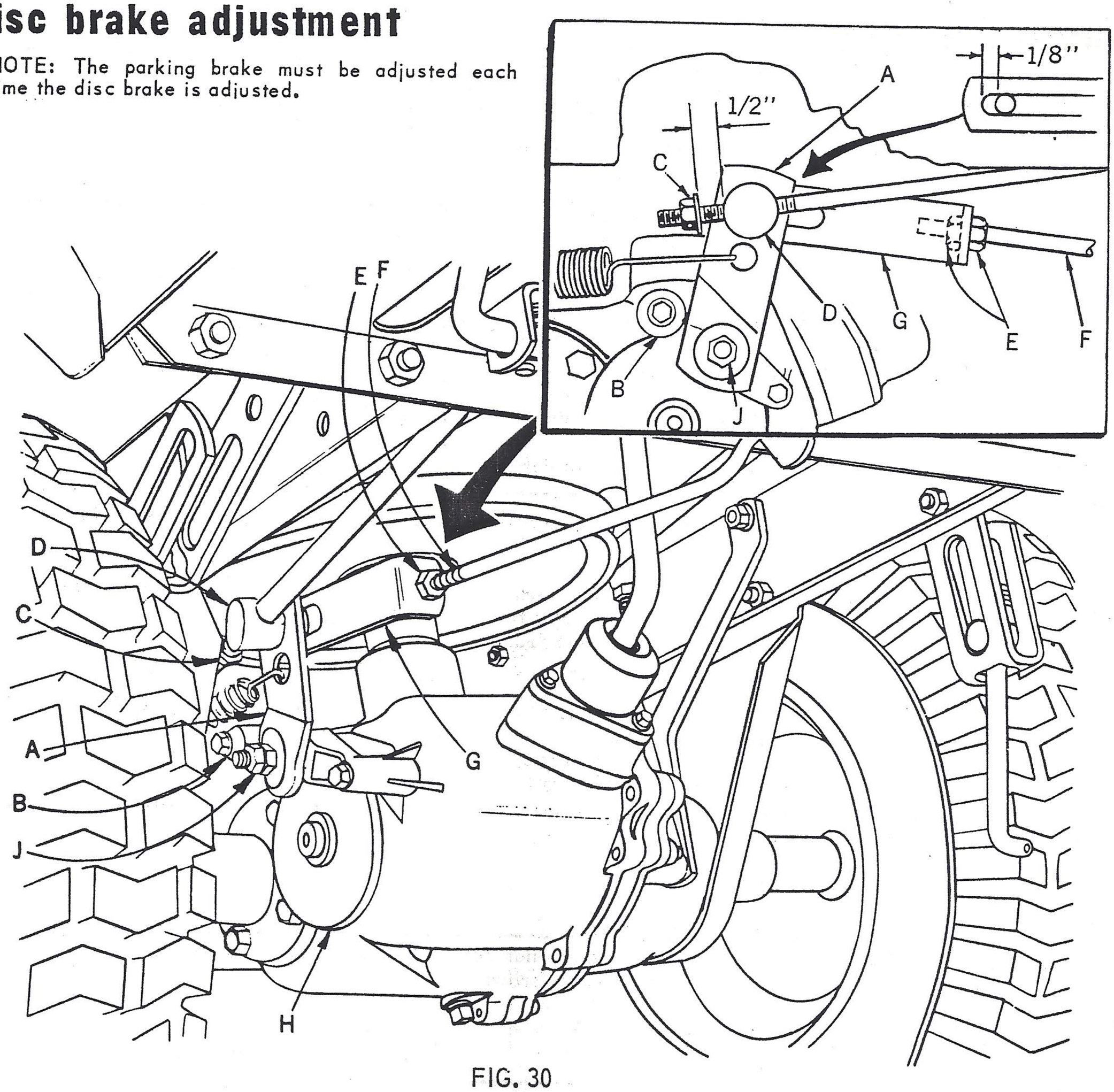


FIG. 30

1. Make sure parking brake is in the disengaged ("unlock") position. Refer to page 9.
2. Adjust hex nut (C), until there is approximately ½" distance from the rear of the brake pin (D), to nut (C). Refer to inset.
3. With the clutch-brake pedal engaged ("drive") position, refer to page 9, the brake arm (A, Fig. 30), should be against stop (B). There should be approximately 1/8" side movement in brake arm (A). Check the disc brake (H), for dragging against the brake shoes (pads) by raising the rear of the tractor off the ground and rotating the tire by hand. If there is apparent dragging, back-off the rear nut (J), until dragging is eliminated. Now secure the top hex nut against the bottom nut.

parking brake adjustment

4. With parking brake in the "unlock" position, loosen the two nuts (E), on the parking brake rod (F). Adjust locking nuts (E), until the back of the slot in bracket (G), is 1/8" from brake pin (D). Refer to inset.
5. Position parking brake in the "lock" position and check for ability of parking brake to hold by pushing tractor.

trouble shooting

PROBLEM	POSSIBLE CAUSE	REMEDY
Tractor drive (traction) motor will not start.	Defective key switch or neutral safety switch.	Replace switch.
	Transaxle gearshift lever is not in start position.	Place gear shift lever in start position against neutral safety switch. Refer to Fig's. 22 and 23.
	Batteries discharged.	Charge batteries refer to page 5.
	100 amp fuse is blown.	Replace fuse. Refer to Fig. 26.
	Motor overheated.	Allow to cool. Refer to page 11.
	Traction motor defective.	Contact Sears.
	Traction motor circuit defective.	Contact Sears.
Mower blade motors do not start.	Tractor drive (traction) motor not running.	Start tractor traction motor. Refer to page 10.
	Mower motors lead assemblies not connected to tractor terminals. Or not connected securely.	Connect or be sure they are securely connected. Refer to Fig. 15.
	100-amp fuse s blown.	Replace fuse. Refer to Fig. 26.
	Motors overheated.	Allow to cool. Refer to page 11.
	Batteries discharged.	Charge batteries refer to page 5.
	Motors defective.	Contact Sears.
	Toggle switch defective.	Contact Sears.
	Motors circuit defective.	Contact Sears.
Both blades start but stop.	Diode defective.	Contact Sears.
	Switch defective.	Contact Sears.
	Motors overheated.	Allow to cool. Refer to page 11.
Only one blade motor runs.	Electrical connectors not connected or properly fastened.	Check connectors. Refer to Fig. 15.
	Motor defective.	Contact Sears.
	Motor overheated.	Allow to cool. Refer to page 11.
Batteries not recharged.	No power to charger.	Did you forget to plug charger into 110-120 Volt outlet? No power to outlet.
	Charger not working.	Check both charger fuses. AC fuse inside; DC fuse outside. If fuses are not your problem, contact Sears.
Uneven mowing.	Tires not inflated properly.	Front tires should have 12 lbs. of air pressure. Rear tires 10 lbs.
	Mower not leveled properly.	Refer to pages 7 and 8.
	Uneven ground.	Reduce ground travel speed.
	Damaged blade.	Replace blade. Refer to page 13.

special service guide cleaning instructions

It is important that your tractor and mower be cleaned periodically to ensure maximum performance and the long life that has been built into it. Clean all dirt and grease from your tractor and mower. Repaint chipped or rusted spots. Touch-up paint is available at your nearest Sears Service Center.

tractor

1. To preserve the natural beauty of your tractor, we suggest that you give it a good coat of wax the same as you do your automobile.
2. It pays to keep the batteries and charger clean. Remove all accumulations of dirt, grease, grass clippings, etc., to assure optimum electrical system performance.

mower

Underside of mower must be kept clean to do a good job of mowing.

to remove mower from tractor

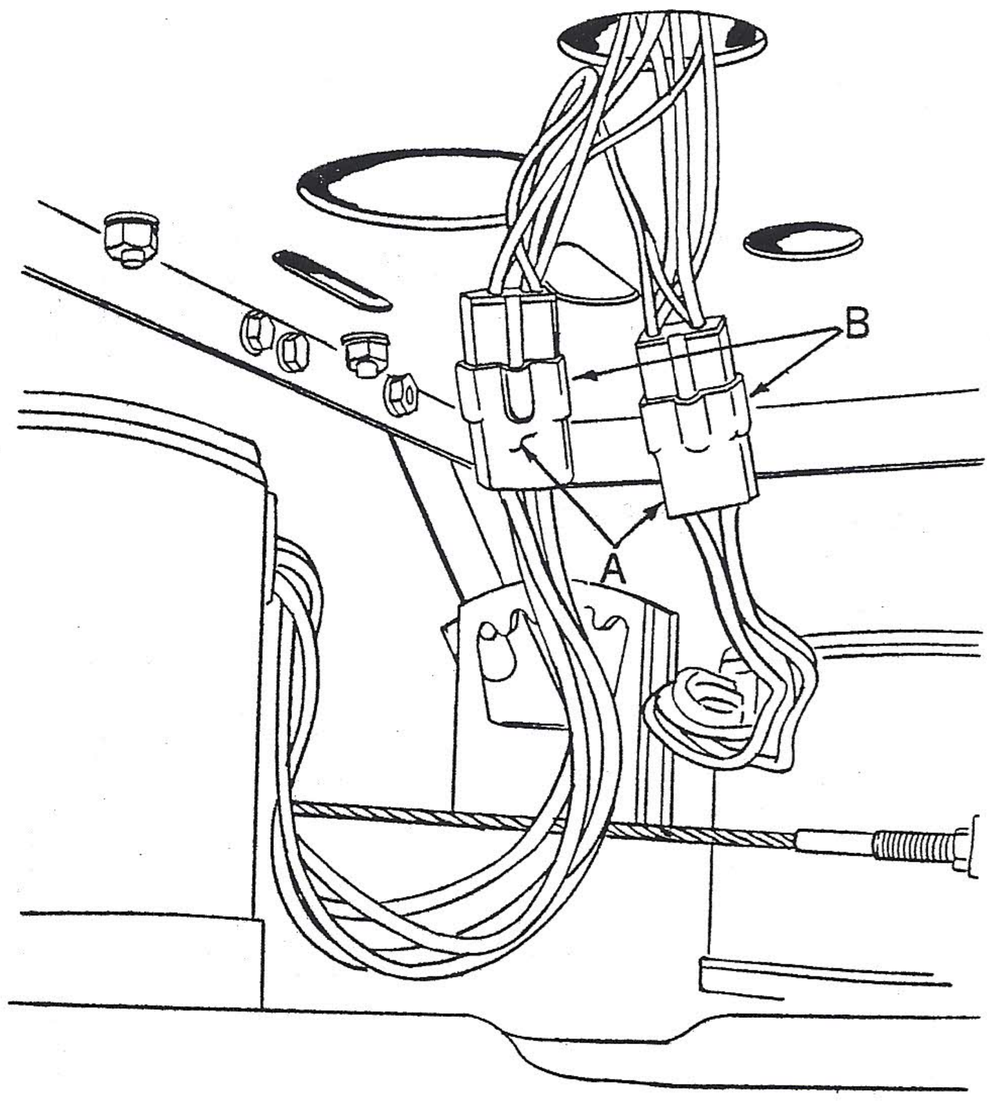


FIG. 31

1. Move the lift lever (A, Fig. 21) forward to lower the mower to its lowest position.
2. Disconnect mower motor lead assemblies (A) from tractor terminals (B).

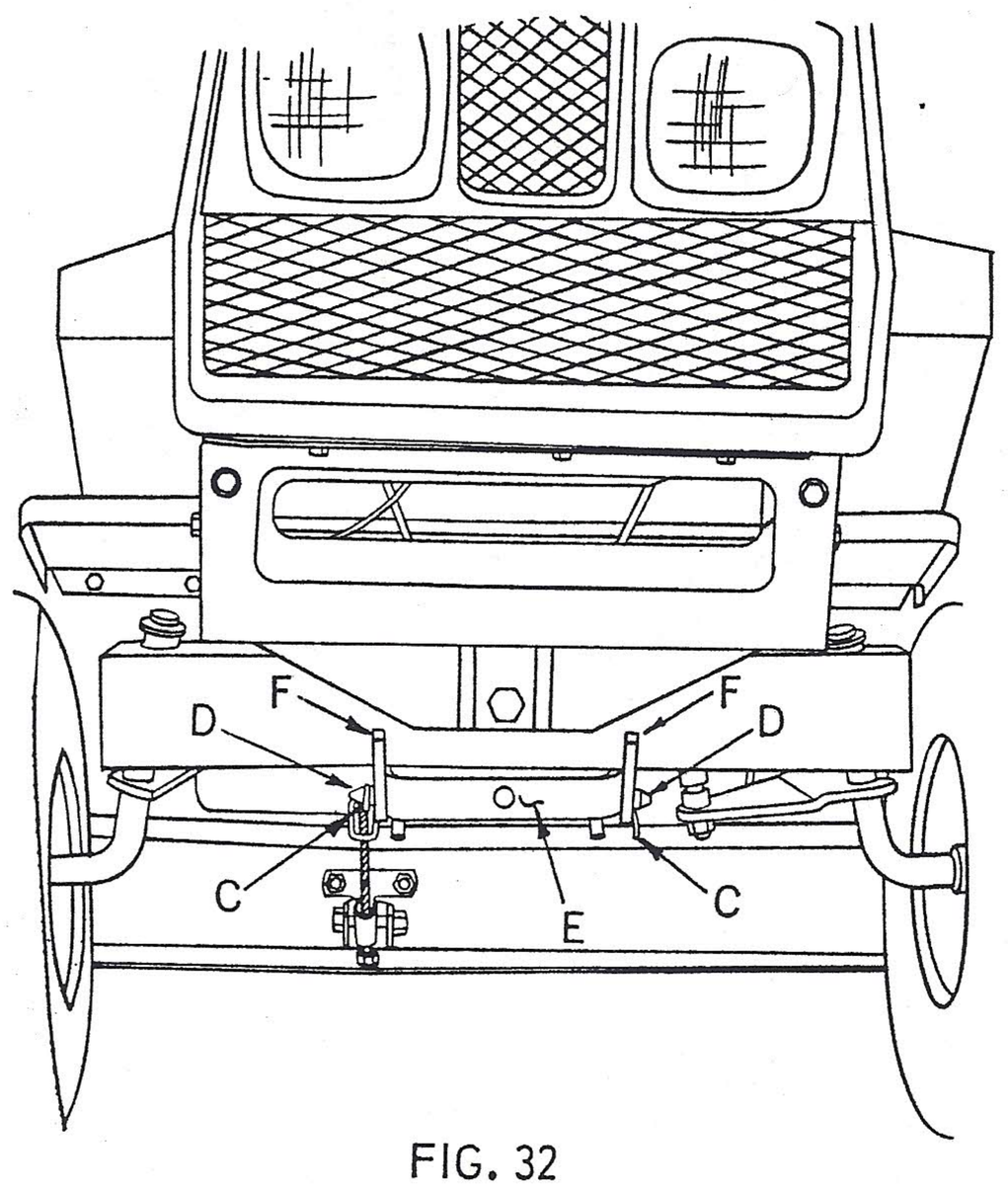


FIG. 32

3. Remove retainer springs (C) from round head rivets (D), in front lift link (E), and tractor front hanger brackets (F).

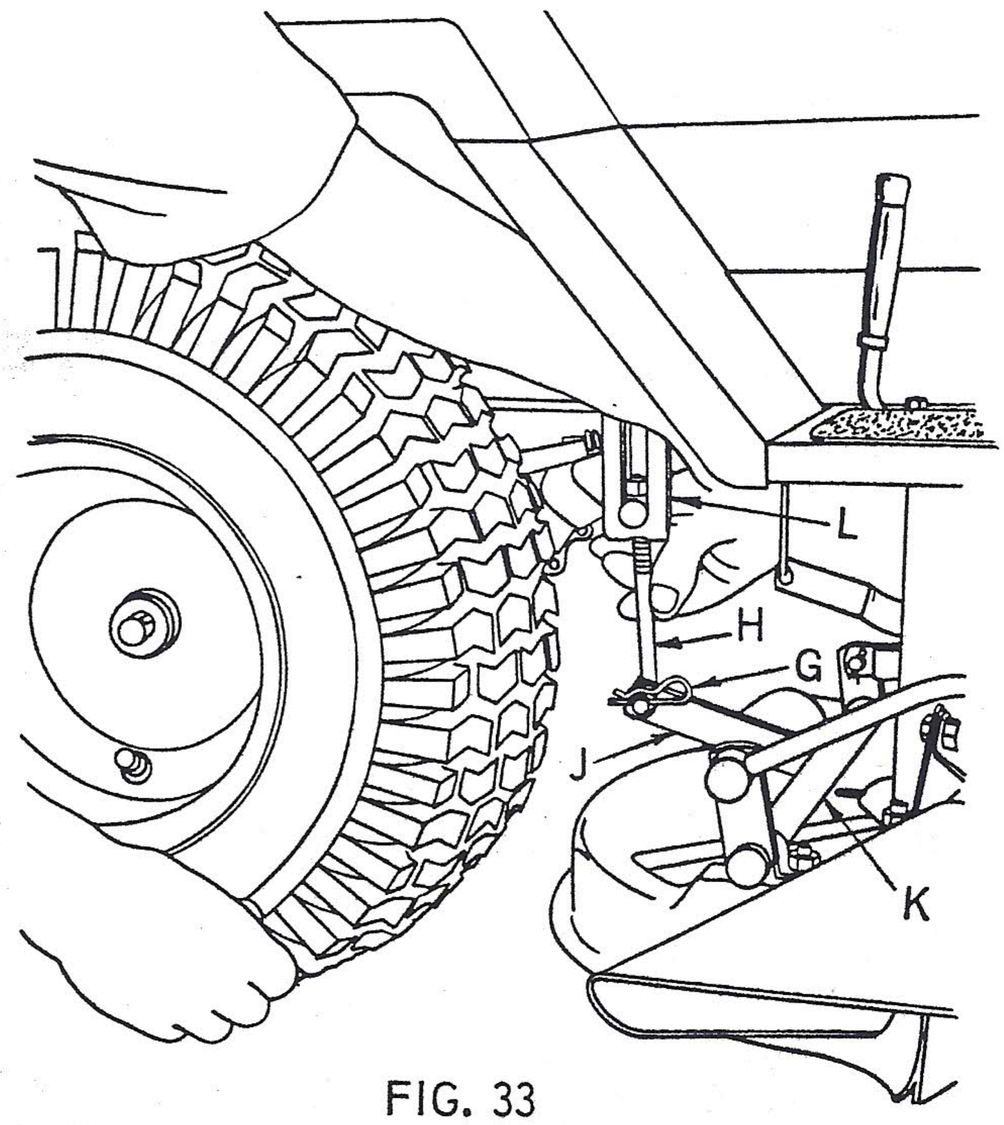


FIG. 33

4. Remove retainer spring and flat washer (G) from rear hanger adjusting screw (H) in arm (J), of lift shaft weldment (K).
5. Remove rear hanger adjusting screw (H) from lift shaft weldment arm (J), and tractor hanger bracket (L).
6. Repeat steps 4 and 5 on opposite side of tractor and mower.
7. Mark each rear hanger adjusting screw (H), to indicate R.H. or L.H. side of the mower from which it was removed. Therefore, when mower is reassembled to tractor you will not have to relevel mower.

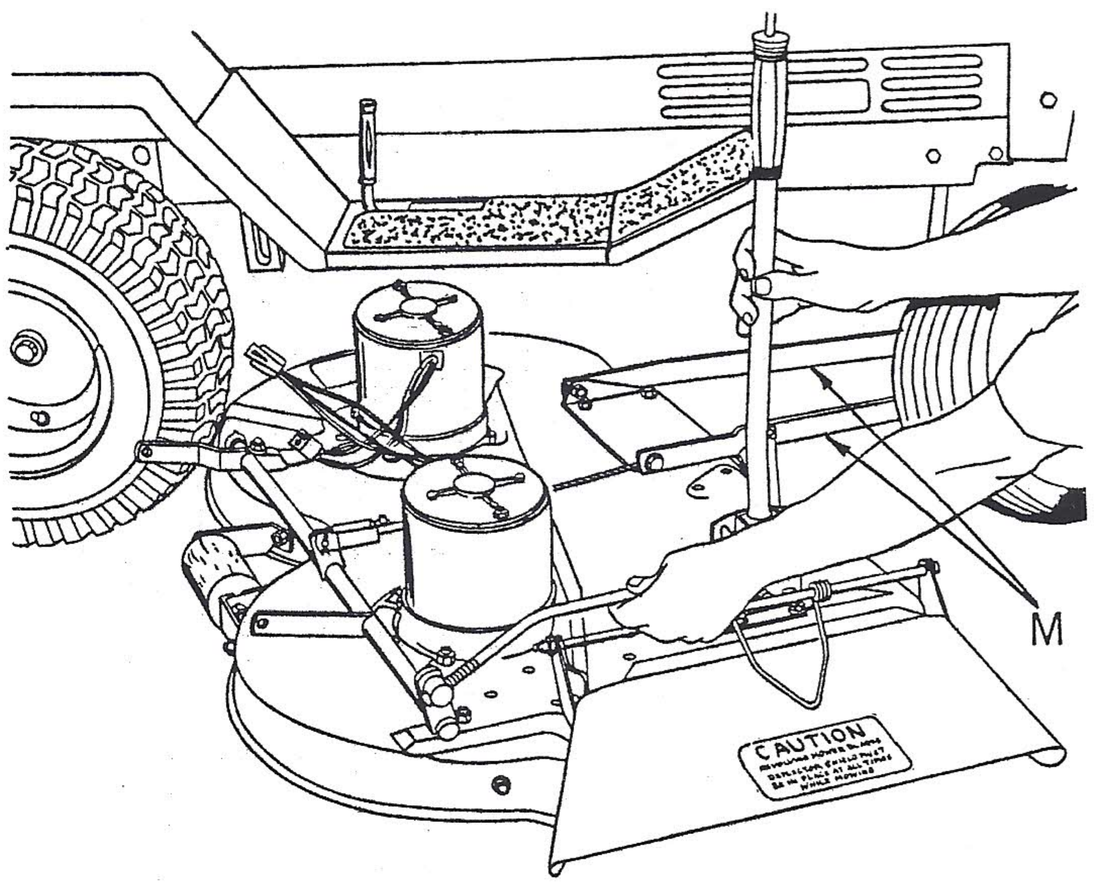


FIG. 34

8. Turn tractor front wheels to the extreme L.H. position.
9. Slide mower out from beneath tractor. NOTE: Slide rear of mower out first. Mower can then be turned to slide out front lift link (M).
10. Mower is now free of tractor and can be tipped on end for a thorough cleaning. Use a putty knife and wire brush.

tires

Keep tires inflated to 12 pounds of air pressure in front; 10 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 from oil and grease as both destroy rubber.

to remove a front or rear wheel

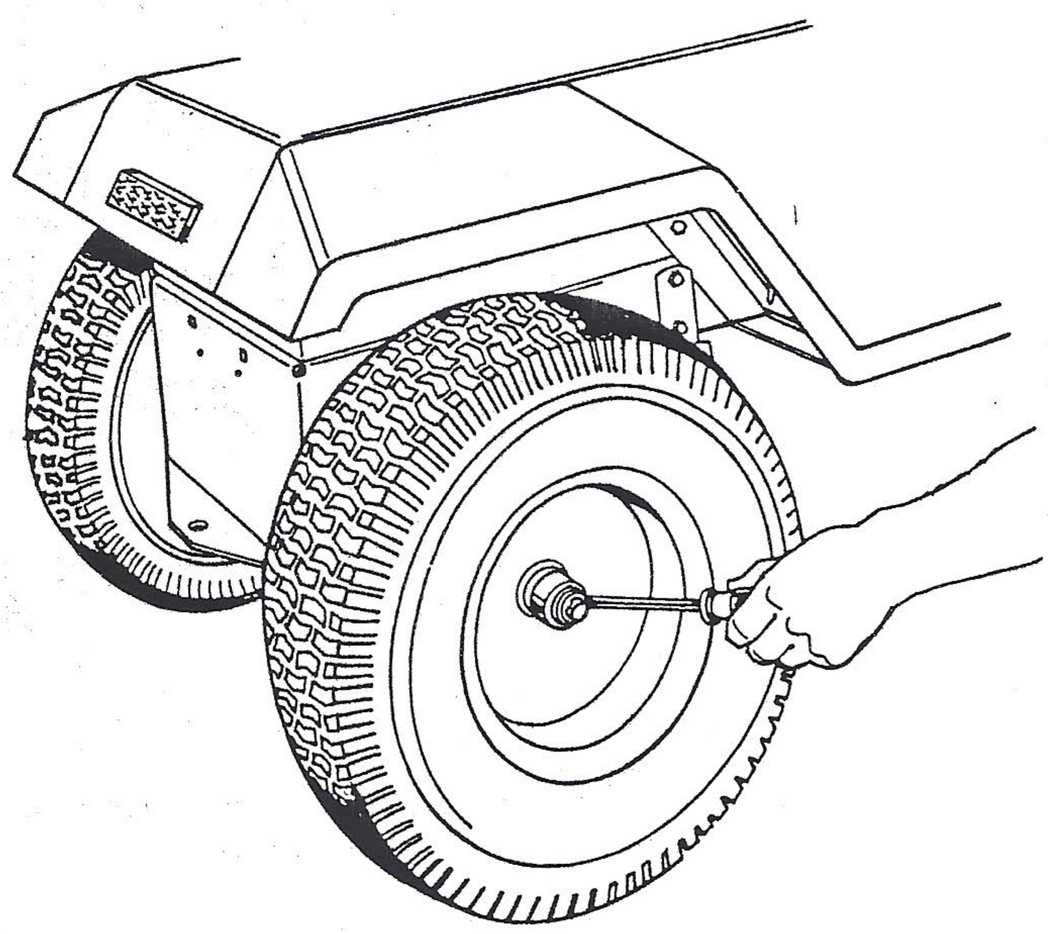


FIG. 35

1. Block up tractor axle securely or use a Sears Tractor Jack.
   a. Remove a front wheel by removing the retainer ring and washer with a screwdriver. Slide wheel and tire from axle.
   b. Remove a rear wheel by removing the retainer ring and washer with a screwdriver. The wheel and tire can now be removed from the axle and key.
2. After tire is repaired, reverse above procedure for reassembly.

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

rear wheels

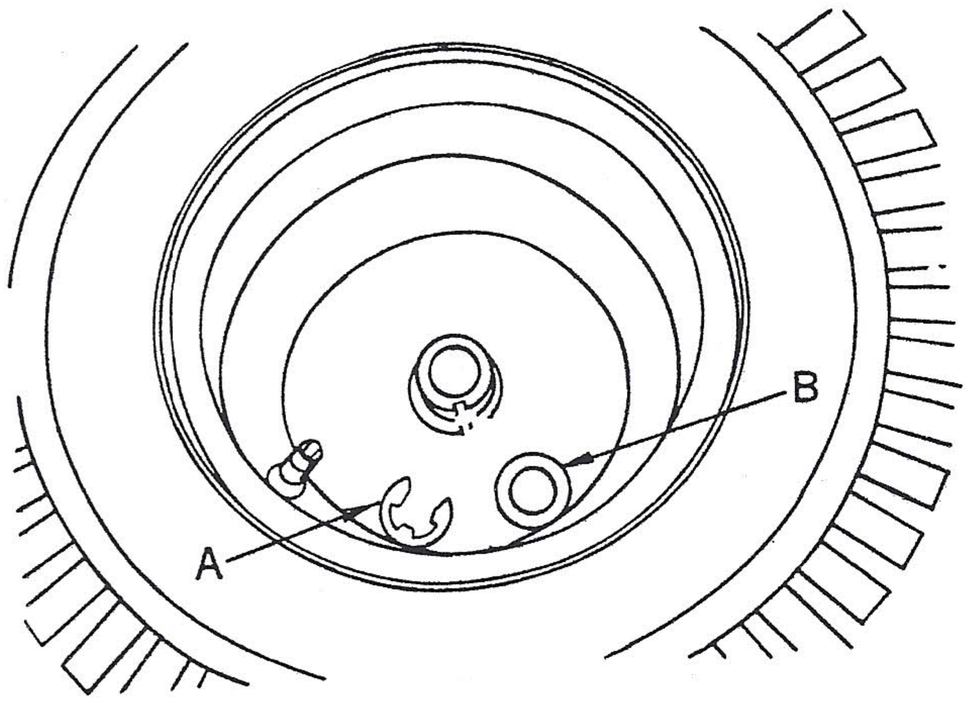


FIG. 36

The rear wheels are removeable by removing the retaining ring (A), and washer (B), with a screwdriver. The square (drive) key should be replaced if damaged.

front wheels

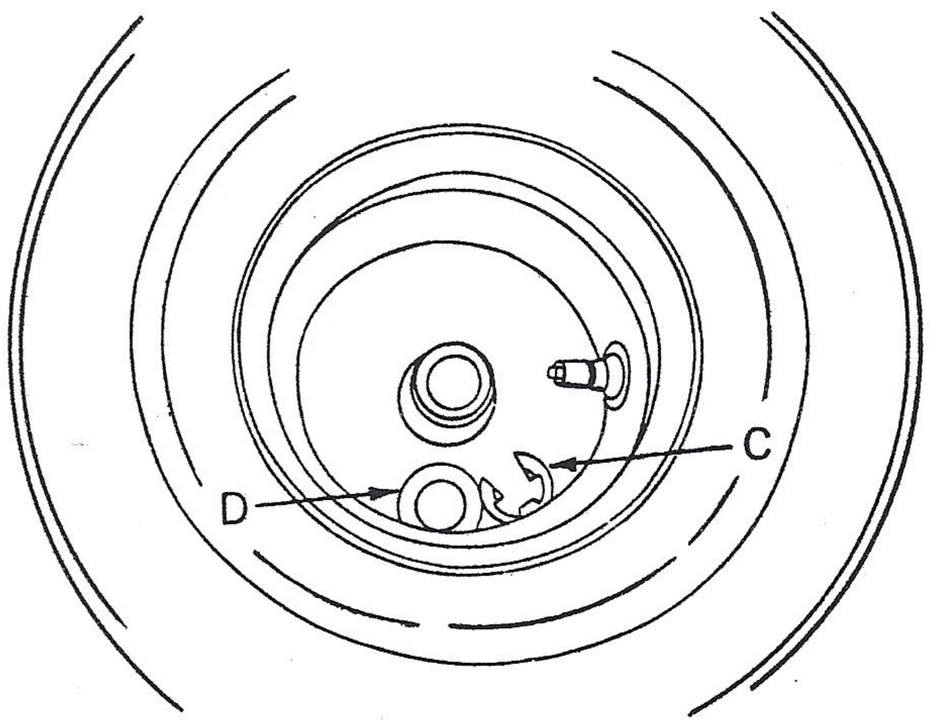


FIG. 37

The front wheels are removeable by removing the retaining ring (C) and washer (D) with a screwdriver.

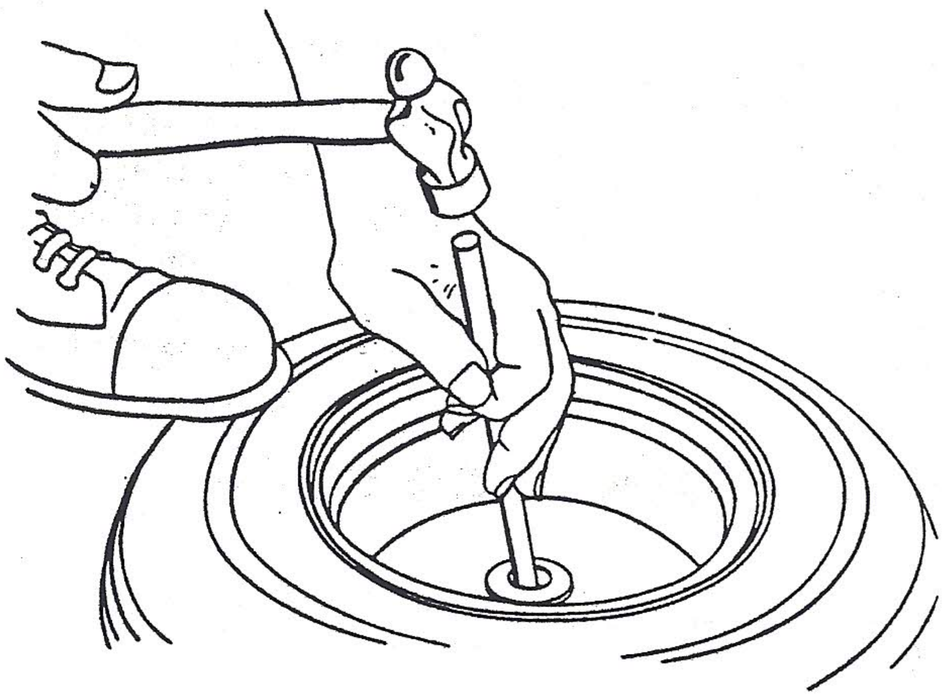


FIG. 38

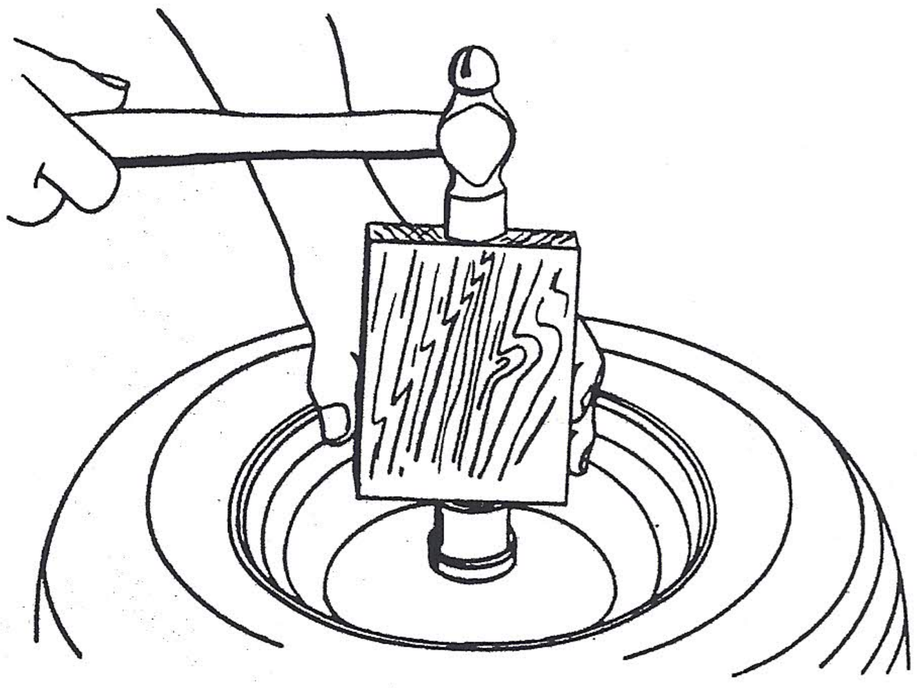


FIG. 39

The front wheels have replaceable bearings. Drive them out with a punch (Fig. 38),---each side--and back in with a block of wood (Fig. 39).

belt replacement

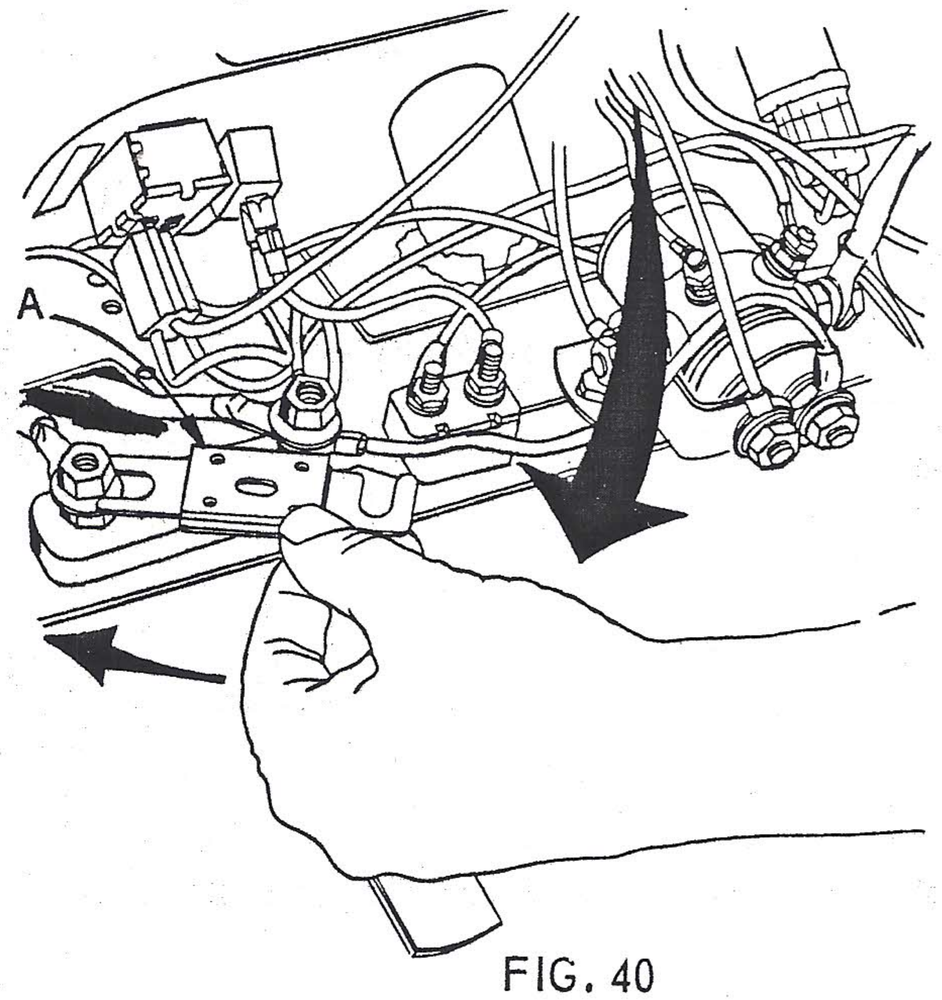


FIG. 40

1. Refer to Fig. 40. Disconnect the 100-amp fuse (A), and one battery terminal.
2. Remove charger cord from clamp. Refer to Fig. 16, page 8. Remove the six nut retainers and lock screws from the shift plate. Remove shift and seat plate assemblies.

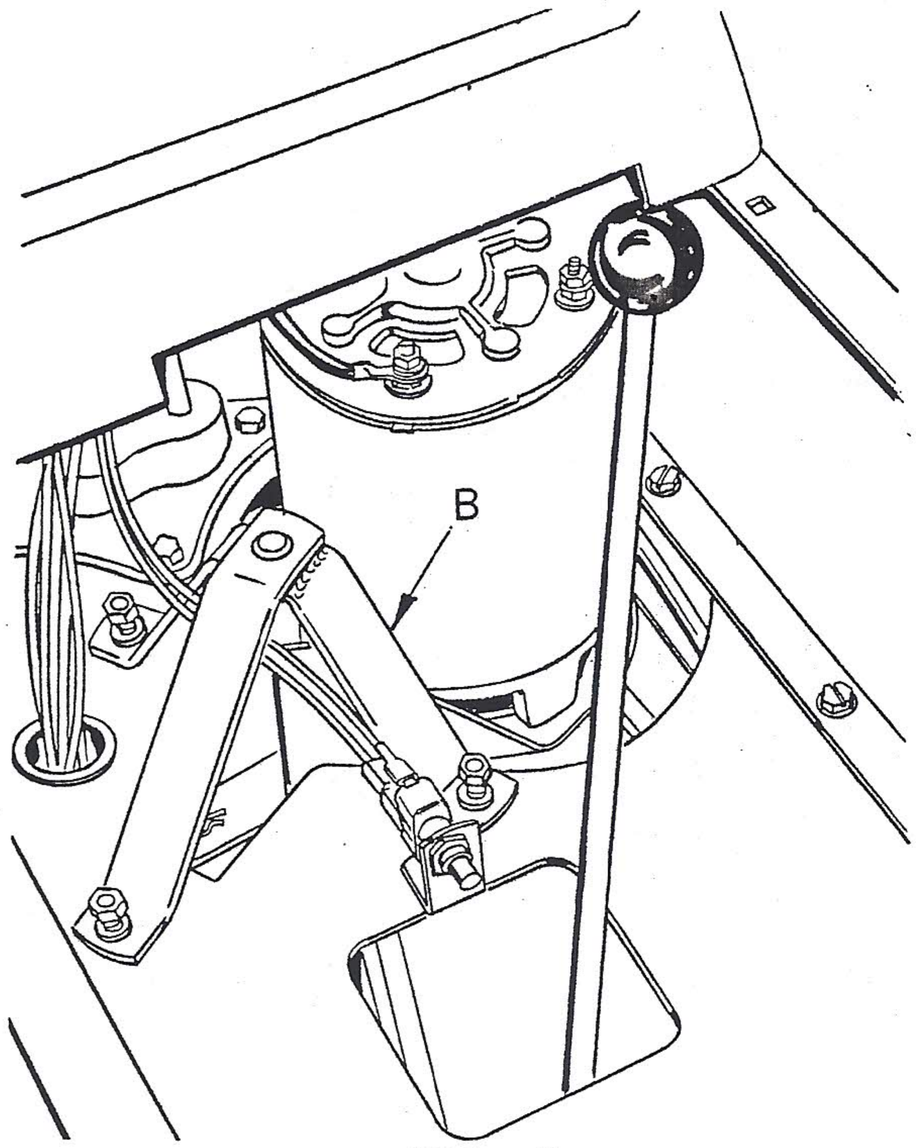


FIG. 41

3. Remove the three nuts and lockwashers in the hinge support assembly (B, Fig. 41). Remove hinge support assembly.
4. From under tractor, remove clutch spring. (Key No. 39, page 23).
5. From under tractor, remove washer and E-ring (Key No's. 63 and 64, page 23), from motor support shaft.

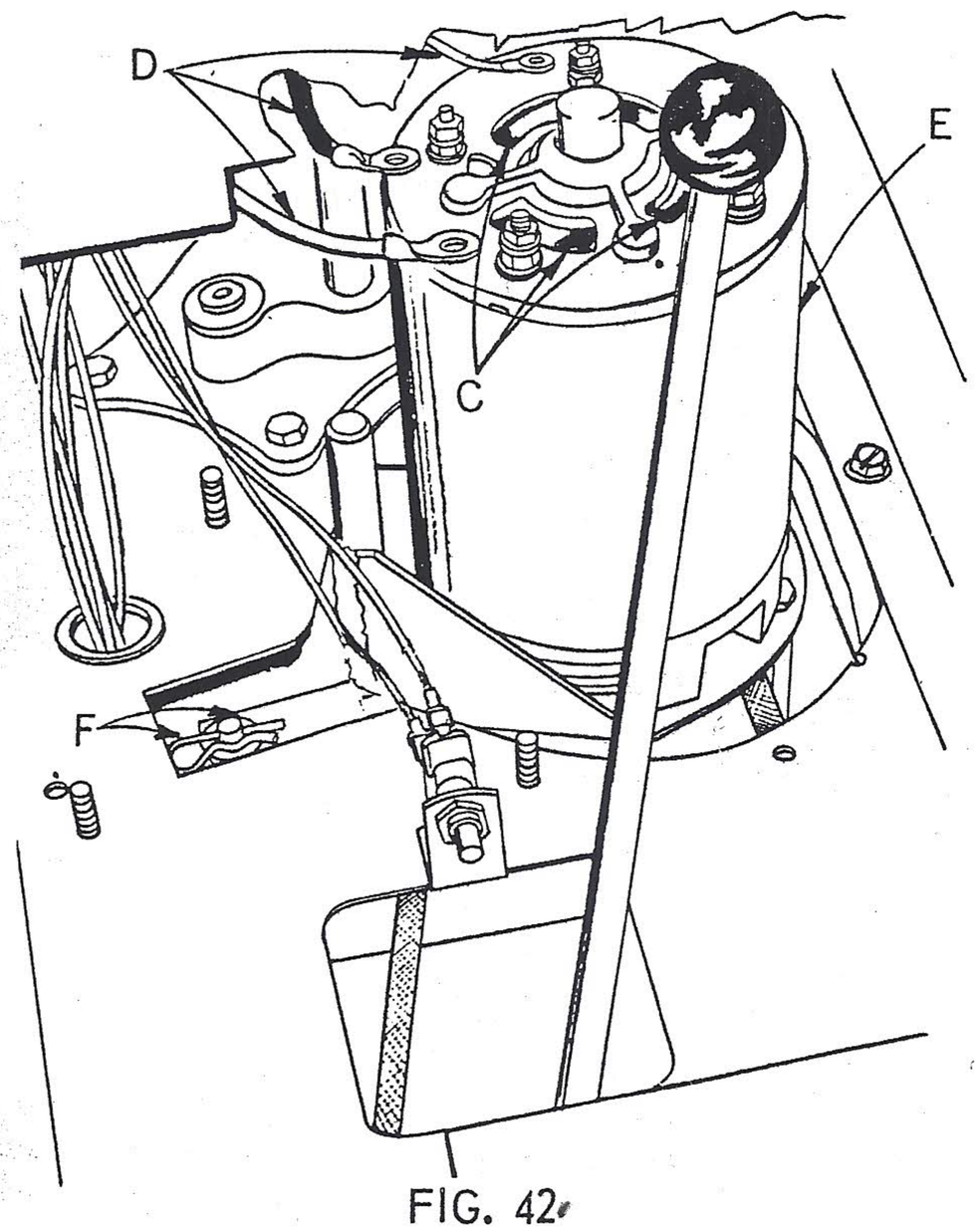


FIG. 42

6. Cover holes (C), with masking tape to prevent the possibility of the terminal nuts falling into the motor.
7. Disconnect three wires (D), from motor (E).
8. Remove retainer spring and washer (F), from clutch rod.

9. Loosen the three carriage bolts (A, page 23) in the pulley guard standoffs for transaxle pulley. Remove belt from transaxle pulley.

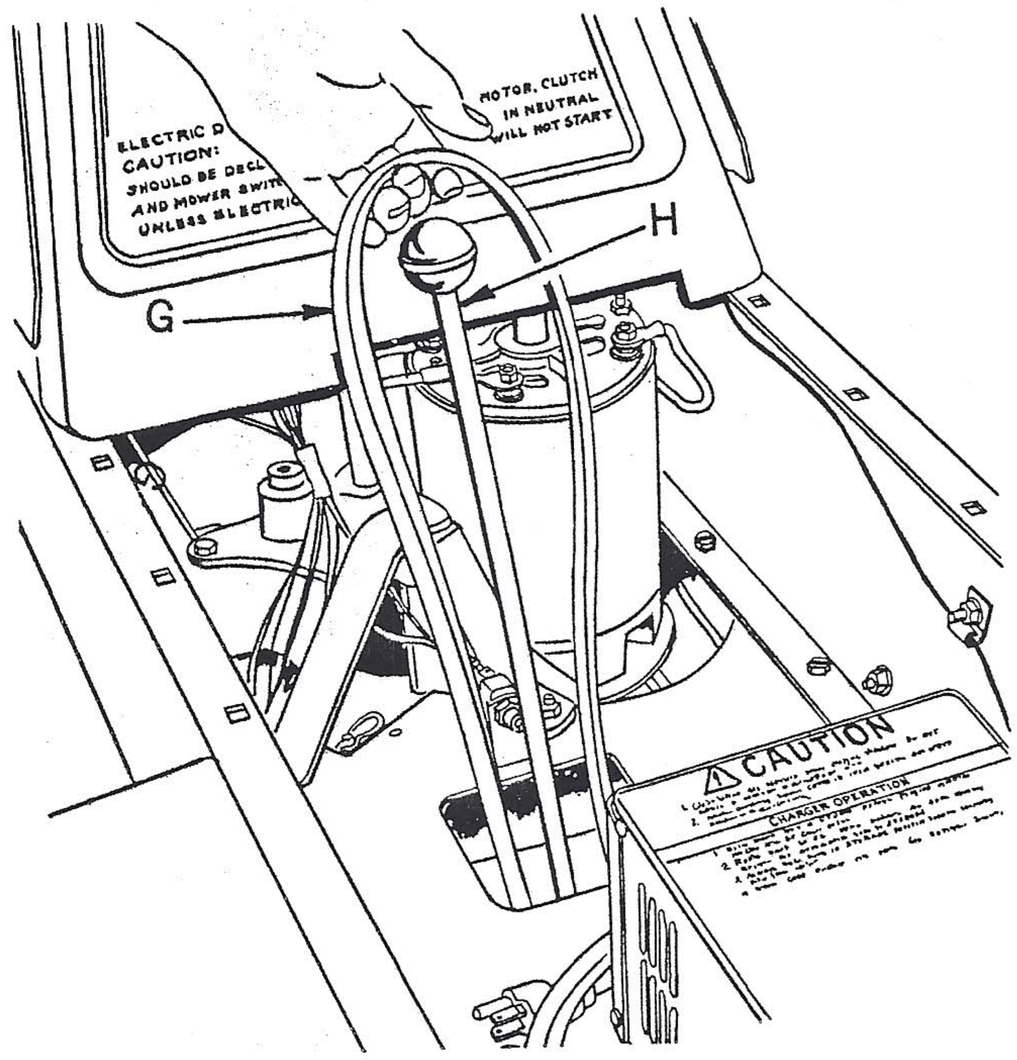


FIG. 43

10. Pull belt (G), from between frame and foot plate and loop over gearshift (H).

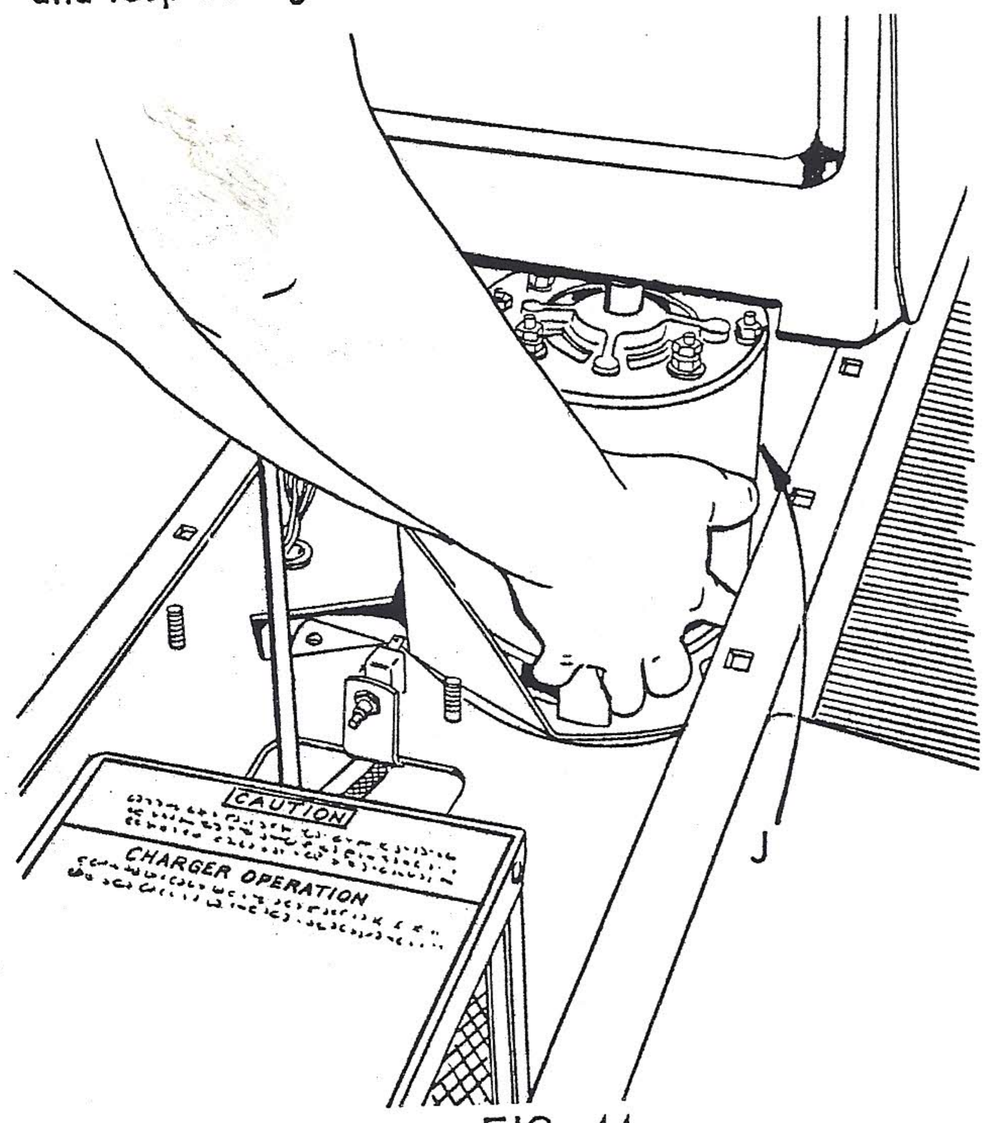


FIG. 44

11. Remove motor (J), with belt attached and place on floor. Loosen two motor output pulley belt guides (Key No. 49, page 23) and remove belt. Position new belt on motor output pulley. Adjust the two motor output pulley belt guides so that there is a maximum of ¼" from O.D. of output pulley to pulley belt guides. Tighten bolts securely.

12. Replace motor with belt attached in traction motor support assembly. Pull belt up through hole provided for gearshift. Loop belt over gearshift and thread between foot plate and frame. Position belt over transaxle pulley. Check that belt is retained in transaxle pulley groove and tighten the three carriage bolts in the pulley guard standoffs.
13. Reverse procedure for balance of reassembly.

battery replacement

1. Refer to Fig. 2, page 4 and raise tractor hood.
2. Disconnect the 100-amp fuse. Refer to Fig. 40.

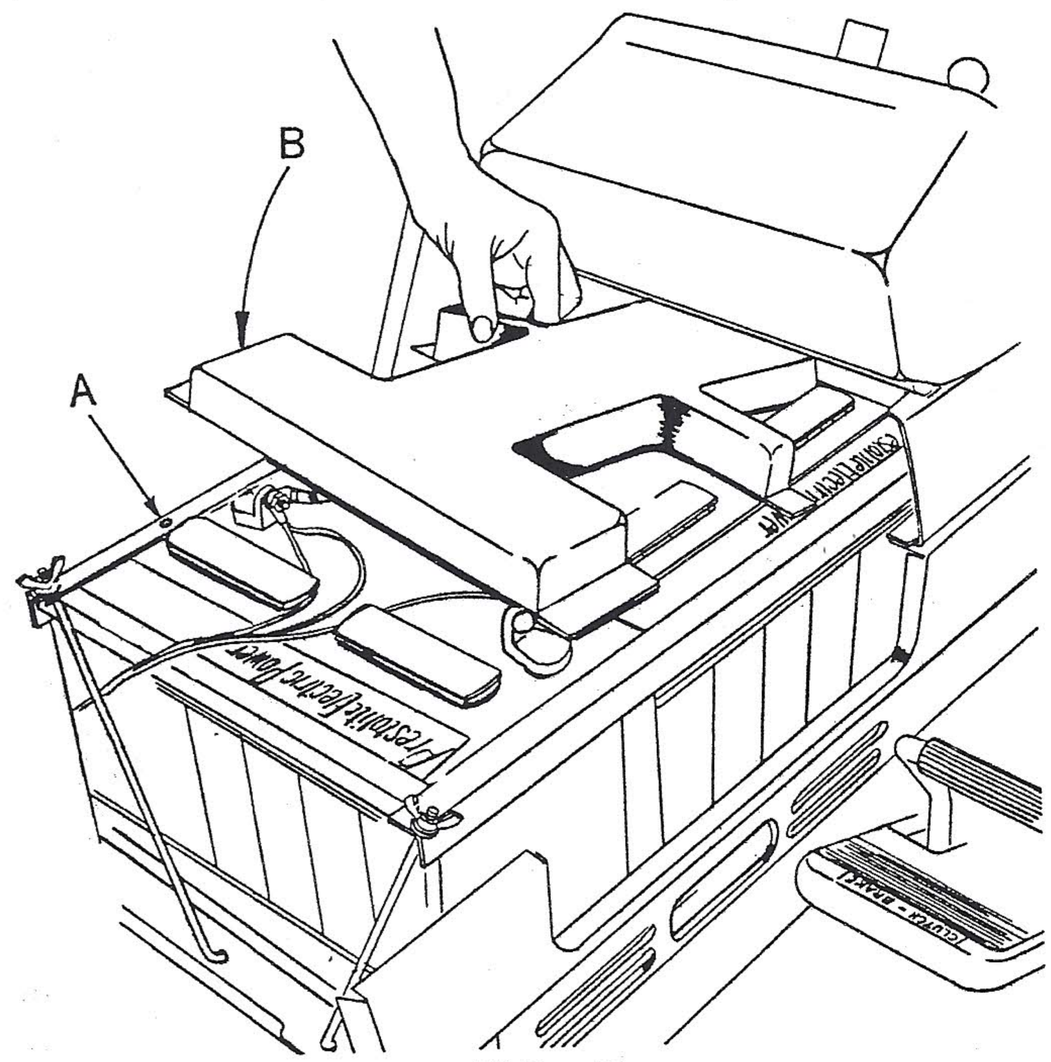


FIG. 45

3. Remove grill cable from battery side strap (A, Fig. 45).

4. Remove battery cover (B). Note position of wires for reassembly.

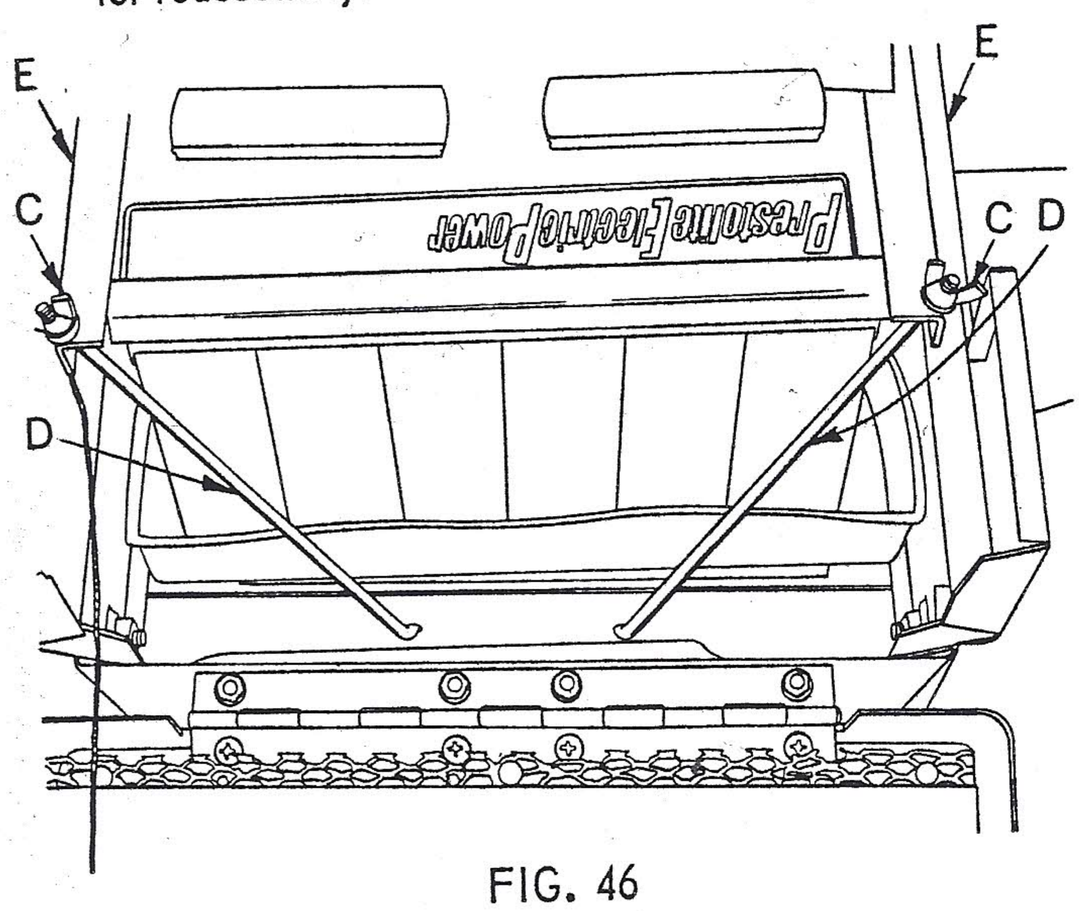


FIG. 46

5. Remove wing nuts and flat washers (C), from front battery bolts (D) and side battery straps (E).

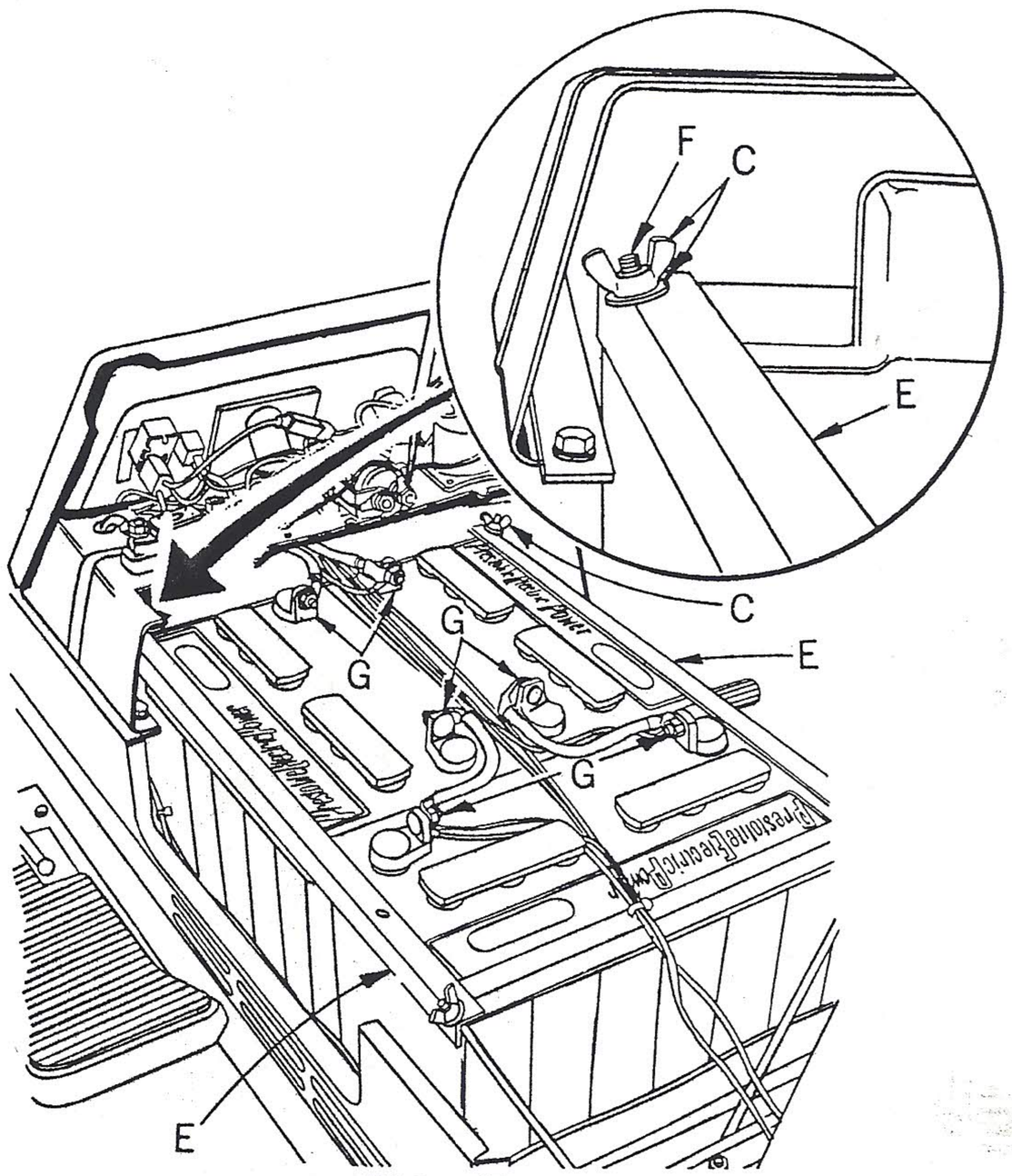


FIG. 47

6. Now remove wing nuts and flat washers (C) from both rear battery bolts (F) and side battery straps (E).
7. The two battery side straps and the front battery strap can now be removed.
8. Disconnect all wires from all six battery terminals (G).
9. Defective batteries can now be removed and replaced with new ones.

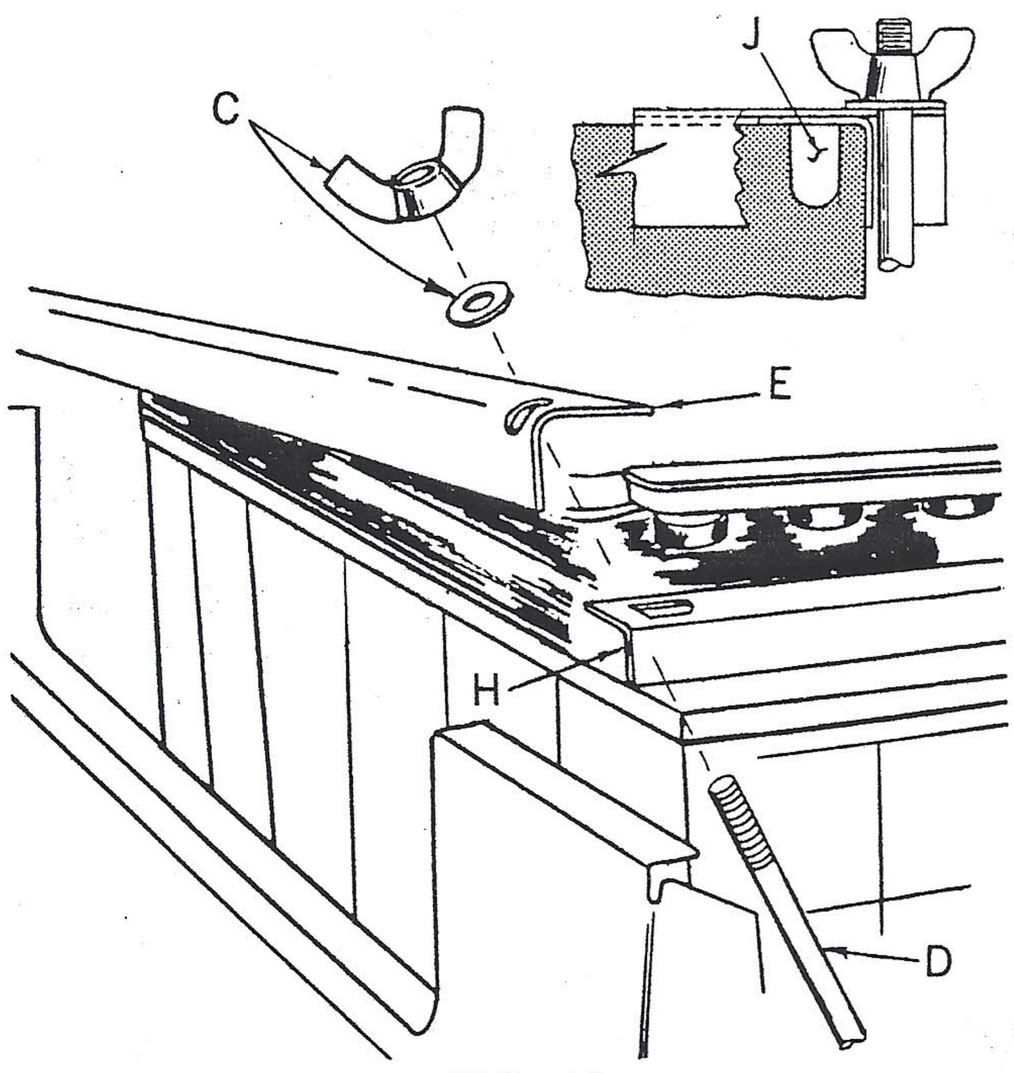


FIG. 48

10. Reverse procedure for reassembly. Fig. 48 illustrates the proper assembly of side straps (E) and front strap (H). Front battery bolts (D) hold front strap (H) in place. Tab (J) on front strap (H) must be positioned toward battery. Tighten wing nut (C), by hand only. Overtightening may crack the batteries.
11. Fill and charge batteries as instructed on pages 4 and 5.
12. Periodically and especially when replacing batteries, check the cables to make sure they are not frayed or have cracks in the insulation. Replace damaged cables to prevent shorting, battery discharge and possible damage to the tractor. Also, make sure connections are tight. Loose connections will cause loss of power and possible damage to the battery terminals.

DO NOT CHARGE BATTERIES WITH ANY OTHER CHARGER. DO NOT USE THE TRACTOR BATTERIES TO START ANY OTHER VEHICLES. BATTERY DAMAGE WILL RESULT.

storage instructions

1. Whenever tractor is not in use, battery charger should be connected to a 110-120 Volt, 60 cycle, properly grounded electrical outlet. This should apply to winter storage as well as overnight storage during the normal operating season. Refer to pages 11 and 12.
2. Check battery water level monthly. Add distilled water only if necessary. Do not overfill. Refer to Fig. 3, page 4.
3. Clean tractor and mower, refer to "Cleaning Instructions". Repaint chipped or rusted spots. Touch-up paint is available at your nearest Sears Service Center.

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

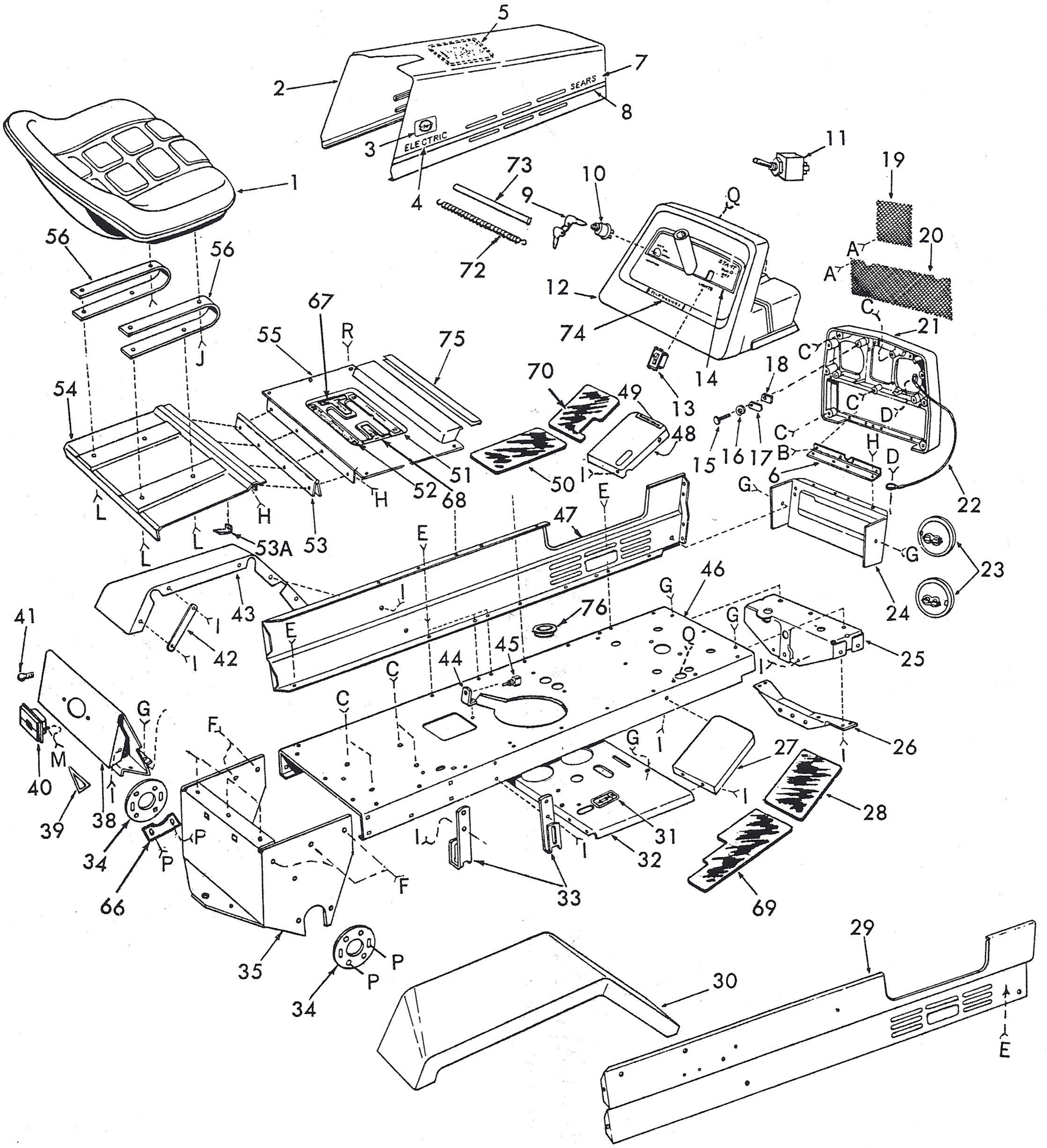
general

1. Just as your automobile needs professional mechanical maintenance from time to time, so does your tractor and mower. Professional service is as close as your nearest Sears Store.
2. A yearly check-up by Sears is a good idea to avoid breakdown or delays.

repair parts

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

MAIN FRAME, DASHBOARD AND GRILL



repair parts

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

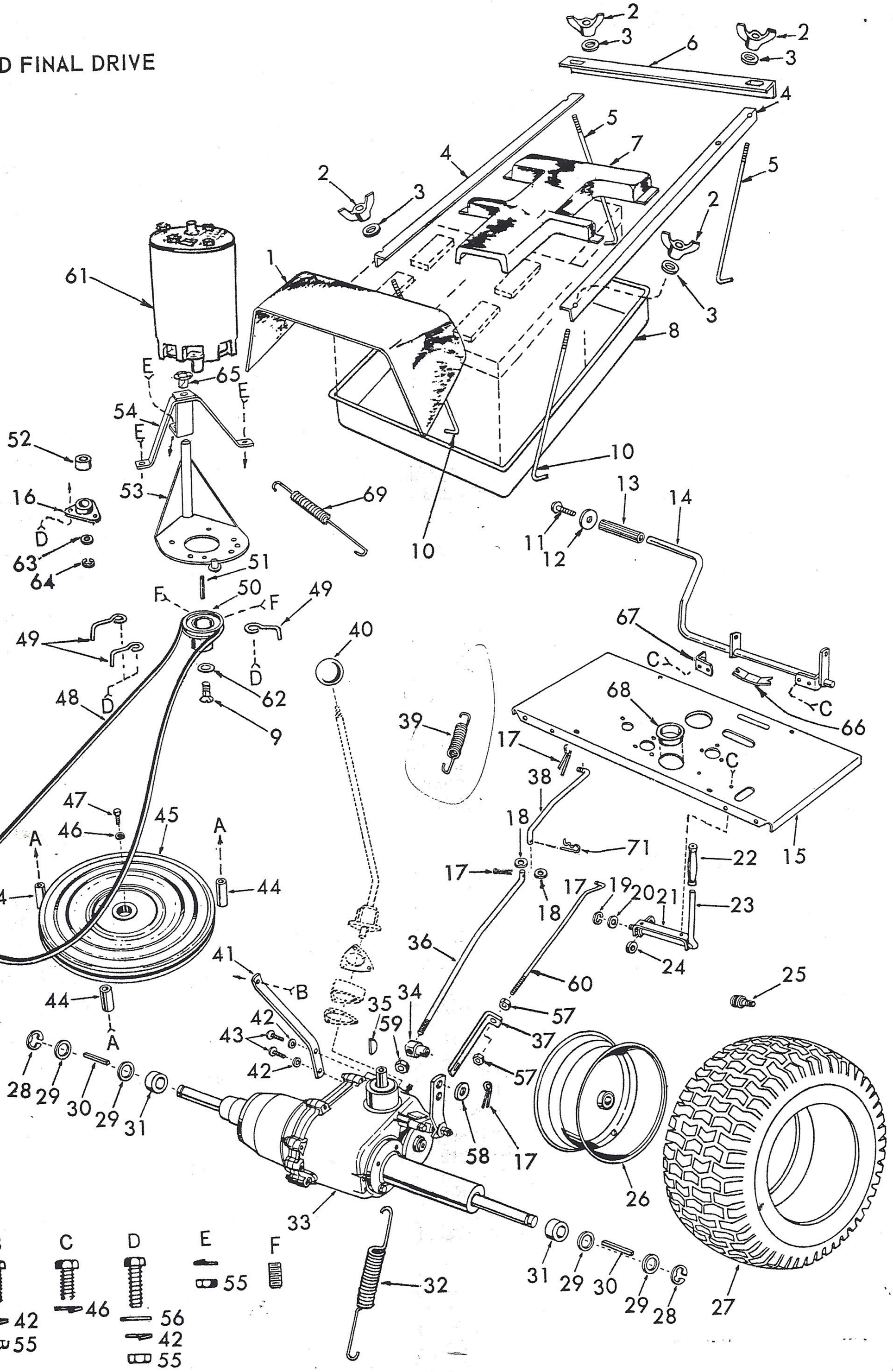
MAIN FRAME, DASHBOARD AND GRILL

KEY NO.	PART NO.	DESCRIPTION
1	3563R	Seat
2	3339R	Hood (Less Key No's. 3, 4, 5, 6, 7 and 8)
3	5215R	Electric Symbol Decal
4	4806R	Electric Decal
5	4809R	Under Hood Decal
6	2755R	Grill Hinge
7	3300R	Sears Decal
8	4804R	Hood Strip Decal
9	7552H	Key
10	4762R	Main Key Switch (Inc. Key No. 9)
11	4761R	Implement Toggle Switch
12	663A87	Dashboard Weldment'
13	3356R	Light Switch
14	4805R	Dashboard Decal
15	5501P	★ Phillips Pan Hd. Thd. Cutting Screw No. 10-14 UNC x 3/8 Type T
16	1006P	★ Lockwasher No. 10
17	8768H	Mounting Clip
18	8784H1	Rubber Spacer
19	2875R	Upper Grill Screen
20	2794R	Lower Grill Screen
21	2896R	Grill
22	3577R	Grill Cable
23	6651H	Head Lamp
24	2879R	Lower Front Plate
25	5262R	Front Axle Support
26	2880R	Front Axle Support Brace
27	2882R	Front Foot Rest-R.H.
28	5780R	Foot Rest Pad-R.H., Front
29	663A83	Side Panel Weldment-R.H.
30	663A39	Fender Assembly-R.H.
31	1362R	Parking Brake Decal
32	4787R	Foot Plate
33	3230R	Tractor Hanger Bracket
34	4848R	Axle Collar
35	4849R	Rear Support and Plate
38	3416R	Rear Panel
39	3239R	Safety Std. Sticker
40	1992R	Tail Lamp
41	3793R	Tail Light Bulb
42	3569R	Fender Brace
43	663A40	Fender Assembly-L.H.
44	3337R	Neutral Safety Support
45	5577R	Push Button Switch
46	663A105	Frame and Weld Bolts
47	663A84	Side Panel Weldment-L.H.
48	2881R	Front Foot Rest-L.H.
49	1064R	Clutch, Brake Decal
50	5781R	Foot Rest Pad-L.H., Rear
51	4808R	2nd and 3rd Gear Decal
52	4807R	1st and Reverse Gear Decal
53	3417R	Seat Plate Hinge
53A	5889R	Cord Bracket
54	3415R	Seat Plate
55	663A99	Shift Plate Weldment
56	3575R	Seat Spring
57	1002P	★ Lockwasher ¼
58	1003P	★ Lockwasher 5/16
59	1004P	★ Lockwasher 3/8
60	1506P	★ Washer 9/32 x 5/8 x 16 Ga.
61	543P	★ Hex Machine Nut No. 10-24 UNF
62	503P	★ Hex Nut ¼-20 UNC
63	504P	★ Hex Nut 5/16-18 UNC
64	501P	★ Hex Nut 3/8-16 UNC
65	186F	Nut Retainer
66	5895R	Axle Collar Spacer
67	5955R	Shift Decal-L.H.
68	5956R	Shift Decal-R.H.
69	5782R	Foot Rest Pad-R.H., Rear
70	5779R	Foot Rest Pad-L.H., Front
71	186F	Nut Retainer
72	4250R	Hood Spring
73	6274R	Spring Sleeve
74	6198R	Decal
75	6315R	Rubber Bumper
76	5657R	Snap Bushing
A	5501P	★ Phillips Pan Hd. Thrd. Cutting Screw No. 10-24 UNC x 3/8 Type T
B	5563P	★ Phillips Pan Hd. Thrd. Cutting Screw ¼-20 UNC x ½ Type T
C	5563P	★ Phillips Pan Hd. Thrd. Cutting Screw ¼-20 UNC x ½ Type T
D	5557P	Hex Washer Hd. Cutting Screw ¼-20 UNC x ½ Type T
E	5562P	★ Hex Washer Hd. Thrd. Cutting Screw 5/16-18 UNC x ½ Type T
F	16P	★ Rd. Hd. Sq. Neck Carriage Bolt 5/16-18 UNC x ¾
G	3010P	★ Hex Bolt 5/16-18 UNC x ¾
H	3114P	★ Hex Bolt ¼-20 UNC x ½
I	3009P	★ Hex Bolt 5/16-18 UNC x 5/8
J	3009P	★ Hex Bolt 5/16-18 UNC x 5/8
K	3010P	★ Hex Bolt 5/16-18 UNC x ¾
L	3021P	★ Hex Bolt 3/8-16 UNC x ¾
M	1006P	Lockwasher No. 10
P	3273P	★ Hex Bolt 5/16-18 x 1" H.T.
Q	3807R	Universal Bushing
---	4838R	Owners Manual
R	4291R	Flange Lock Screw

★ Standard Hardware-Purchase Locally

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

MOTOR AND FINAL DRIVE



repair parts

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

MOTOR AND FINAL DRIVE

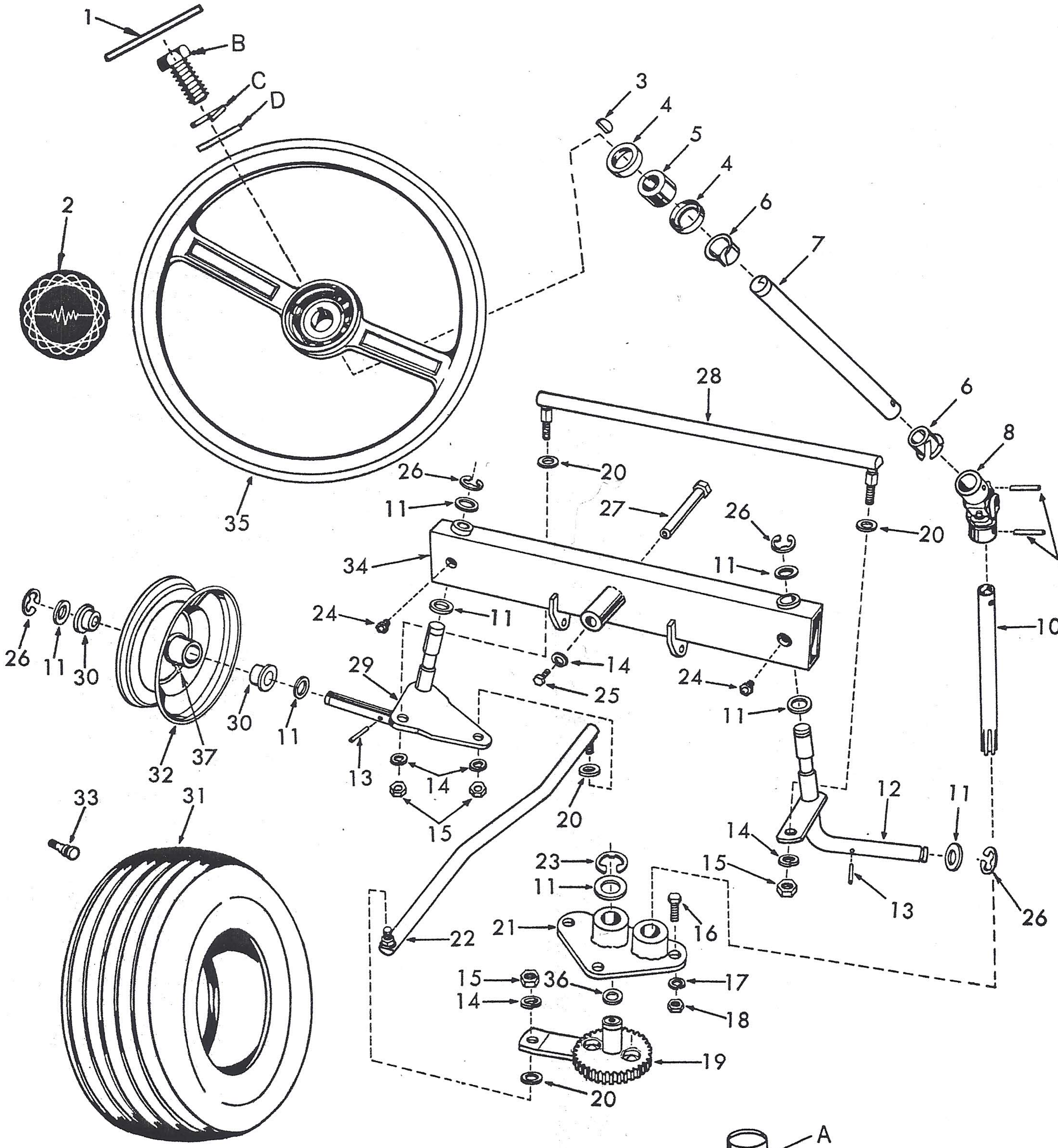
KEY NO.	PART NO.	DESCRIPTION
1	4766R	Terminal Shroud
2	3748M	Wing Nut
3	1509P	*Washer 5/16 x ¾ x 16 Ga:
4	5300R	Battery Strap-Side
5	4767R	Battery Bolt-Front
6	5302R	Battery Strap-Front
7	4765R	Battery Cover
8	4764R	Battery Tray
9	3292P	*Slotted Flat Hd. Mach. Screw 5/16-18 UNC x ¾
10	4768R	Battery Bolt-Rear
11	5514P	*Hex Slotted Washer Hd. Thrd. Cutting Screw 5/16-18 UNC x ½ Type T
12	5060R	Clutch, Brake Stop
13	5065R	Foot Pedal Sleeve
14	663A88	Foot Pedal Shaft Weldment
15	4787R	Foot Plate
16	3363R	Idle Bearing
17	2505P	*Cotter Pin 1/8 x ¾
18	1513P	*Washer 13/32 x 13/16 x 16 Ga.
19	5015P	E-Ring
20	1544P	*Washer 15/32 x 15/16 x 16 Ga.
21	3334R	Parking Brake Support
22	4379H	Handle Grip
23	663A29	Parking Brake Lever Weldment
24	3323R	Parking Brake Spacer
25	795R	Tire Valve
26	3589R	Rear Wheel
27	3588R	Rear Tire-Tubeless
28	5000P	E-Ring
29	1552P	*Washer 49/64 x 1¼ x 16 Ga.
30	3570R	Square Key 3/16 x 3/16 x 2-7/16
31	5056R	Rear Wheel Spacer
32	5809R	Spring
33	794127	Peerless Transaxle
34	5513R	Brake Pin
35	9858M1	Woodruff Key
36	4773R	Brake Rod
37	5405R	Parking Brake Rod
38	4772R	Clutch Rod
39	4830R	Clutch Spring
40	6364H	Control Knob
41	4858R	Transaxle Front Support
42	1003P	*Lockwasher 5/16
43	3010P	*Hex Bolt 5/16-18 UNC x ¾
44	5014R	Pulley Guard Standoff
45	4769R	Transaxle Pulley
46	1002P	*Lockwasher ¼
47	3003P	*Hex Bolt ¼-20 UNC x ¾
48	5437R	Ground Drive Belt
49	5053R	Belt Guide
50	4770R	Motor Output Pulley
51	2649M	Square Key
52	4782R	Traction Motor Spacer
53	663A90	Traction Motor Support Assembly
54	663A89	Hinge Support Assembly
55	504P	*Hex Nut 5/16-18 UNC
56	1537P	*Washer 11/32 x 11/16 x 16 Ga.
57	503P	*Hex Nut ¼-20 UNC
58	1577P	*Washer 17/32 x 1-1/16 x 13 Ga.
59	347H	*Locknut 3/8
60	4863R	Parking Brake Arm
61	663A97	Traction Drive Motor
62	5753R	Motor Washer
63	1549P	Washer 41/64 x 1 x 10 Ga.
64	5001P	E-Ring
65	6273R	Motor Pivot Bearing
66	3860R	Foot Pedal Shaft Spring
67	2870R	Clutch Pedal Support
68	5657R	Snap Bushing
69	3243R	Snubber Spring
71	4939M	Retainer Spring
A	54P	*Rd. Hd. Short Sq. Neck Carriage Bolt 5/16-18 UNC x 2¾
B	3010P	*Hex Nut 5/16-18 UNC x ¾
C	3114P	*Hex Bolt ¼-20 UNC x ½
D	3010P	*Hex Bolt 5/16-18 UNC x ¾
E	1003P	*Lockwasher 5/16
F	4502P	Hex Socket Headless Set Screw 5/16-18 UNC x 5/8 C. P. Nylok

*Standard Hardware-Purchase Locally

repair parts

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

FRONT AXLE



ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

FRONT AXLE

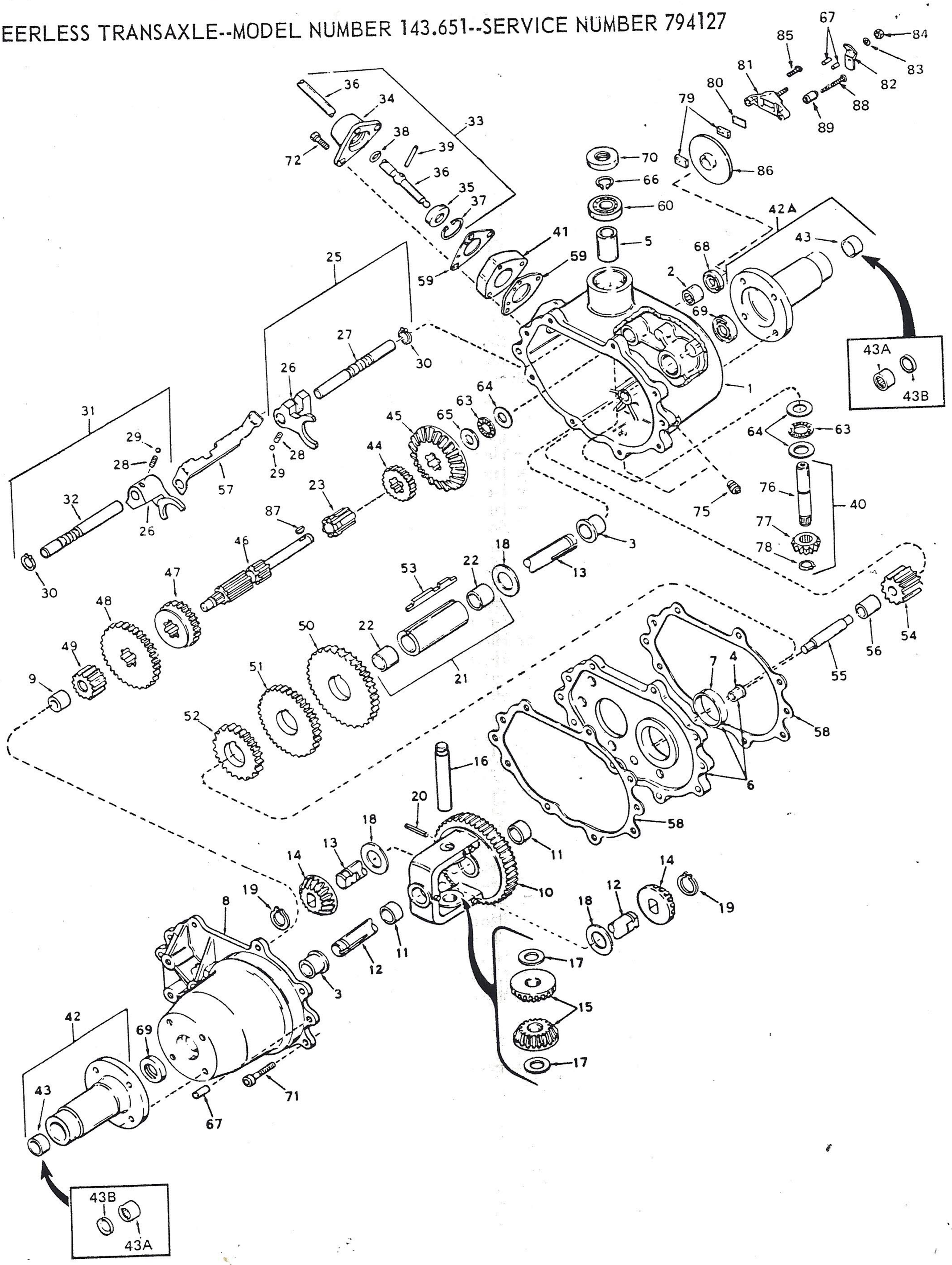
KEY NO.	PART NO.	DESCRIPTION
1	5009R	Steering Wheel Cap
2	5214R	Decal-Steering Wheel
3	9858M1	Woodruff Key
4	9007H	Cap
5	5949H	Rubber Bushing
6	3366R	Bearing-Steering Column
7	5004R	Steering Shaft
8	3369R	Universal Joint
9	707H	Spring Pin
10	3322R	Steering Pinion Shaft
11	1552P	★ Washer 49/64 x 1¼ x 16 Ga.
12	663A30	King Pin Assembly-R.H.
13	5142H	Roll Pin
14	1004P	★ Lockwasher 3/8
15	515P	★ Hex Nut 3/8-24 UNF
16	3010P	★ Hex Bolt 5/16-18 UNC x ¾
17	1003P	★ Lockwasher 5/16
18	504P	★ Hex Nut 5/16
19	663A28	Steering Sector Assembly
20	4496R	Washer Harden
21	3364R	Bearing-Steering Sector
22	5603R	Drag Link
23	5000P	E-Ring
24	6855M	Grease Fitting
25	3270P	★ Hex Bolt 3/8-16 UNC x ¾ Heat Treated
26	5000P	E-Ring
27	3351R	Pivot Bolt
28	3347R	Tie Rod
29	663A31	King Pin Assembly-L.H.
30	3736R	Flanged Bearing
31	4843R	Front Tire-Tubless
32	3591R	Front Wheel
33	795R	Tire Valve
34	663A128	Front Axle Weldment
35	2700R	Steering Wheel
36	3327R	Sector Spacer
37	6856M	Grease Fitting
A	2557R	Amdex No. 1 E.P. Grease (Not furnished with your Tractor)
B	3010P	★ Hex Bolt 5/16-18 UNC x ¾
C	1003P	★ Lockwasher 5/16 (Std. 551131)
D	1511P	★ Washer 3/8 x 7/8 x 14 Ga.

★ Standard Hardware-Purchase Locally

repair parts

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

PEERLESS TRANSAXLE--MODEL NUMBER 143.651--SERVICE NUMBER 794127



repair parts

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

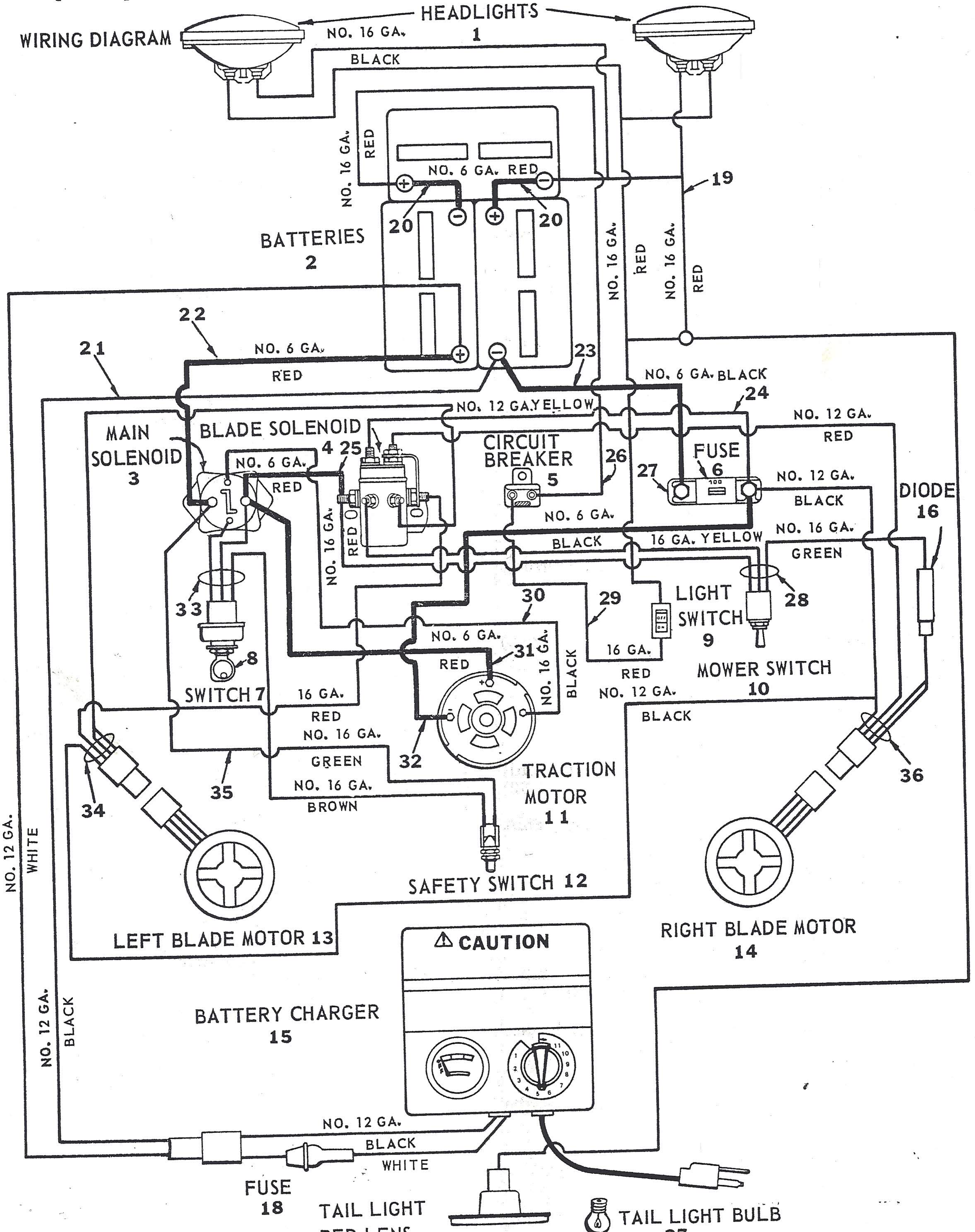
PEERLESS TRANSAXLE--MODEL NUMBER 143.651--SERVICE NUMBER 794127

Ref. No.	Part No.	Part Name
	794127	Complete Transaxle
1	770063	Case Assy., Transaxle (Incl. Nos. 2, 3 & 5)
2	780086	Bearing, Needle
3	780059	Bearing, Bronze
4	780060	Bearing, Bronze
5	780061	Bearing, Bronze
6	786033	Plate Assy., Center (Incl. Nos. 4 & 7)
7	780062	Bearing, Bronze
8	772042	Cover Assy., Transaxle (Incl. Nos. 3 & 9)
9	780063	Bearing, Needle
10	778053	Gear Assy., Differential (Incl. No. 11)
11	780064	Bearing, Bronze
12	774298	Axle, Left hand
13	774299	Axle, Right hand
14	778067	Gear, Bevel
15	778068	Pinion, Bevel
16	786034	Pin, Drive
17	780065	Washer, Thrust
18	780001	Washer, Thrust
19	788038	Ring, Snap
20	792040	Pin, Roll
21	786035	Sleeve Assy., Countershaft (Incl. No. 22)
22	780066	Bearing, Bronze
23	776090	Shaft, Idler
25	784079	Rod Assy., Shift (1st & Rev.) (Incl. Nos. 26 thru 30)
26	784004	Fork, Shift
27	784083	Rod, Shift
28	792003	Spring
29	792004	Ball, Steel
30	792017	Ring, Snap
31	784084	Rod Assy., Shift (2nd & 3rd) (Incl. Nos. 26, 28, 29, 30 & 32)
32	784085	Rod, Shift
33	784246	Lever & Housing Assy., Shift (Incl. Nos. 34 thru 39)
34	784088	Housing, Shift lever
35	784094	Keeper, Shift lever
36	784247	Lever, Shift
37	792016	Ring, Snap
38	792001	Ring, Quad
39	792049	Pin, Drive
40	776102	Shaft & Gear Assy., Input (Incl. Nos. 76, 77 & 78)
41	786057	Block, Riser
42	782036A	Housing Assy., Axle (Incl. No. 43)
42A	782043	Housing Assy., Axle (Incl. No. 43)
43	780091	Bearing & Seal Assy., Needle (See Note 1)
43A	530105	Bearing, Needle
43B	788042	Seal, Oil
44	778024	Gear (16 teeth)
45	778057	Gear, Bevel (33 teeth)
46	776138	Shaft, Shifter & Brake
47	778058	Gear, Shifting (2nd & 3rd)
48	778059	Gear, Shifting (1st & Rev.)
49	778060	Gear, Spur (12 teeth)
50	778061	Gear, Countershaft drive (39 teeth)
51	778062	Gear, Countershaft (34 teeth)
52	778063	Gear, Countershaft (25 teeth)
53	792034A	Key, Countershaft
54	778064	Idler, Reverse
55	776057	Shaft, Reverse idler
56	786036	Spacer, Reverse idler
57	784087	Stop, Shifter
58	788033	Gasket, Case & Cover
59	788003	Gasket, Shift lever housing
60	780093	Bearing, Ball
63	780071	Bearing, Thrust
64	780072	Washer, Thrust
65	780073	Washer, Thrust
66	792035	Ring, Snap
67	786026	Pin, Dowel
68	788043	Seal, Oil
69	788009	Seal, Oil
70	788035	Seal, Oil
71	792036	Screw, Socket hd. cap, 1/4-20 x 1-1/4
72	792051	Screw, Socket hd. cap, 1/4-20 x 1-3/4
75	792039	Plug, Pipe, 1/8"
76	776103	Shaft, Input
77	778077	Pinion, Input
78	788040	Ring, Retaining
79	790006	Pad, Brake
80	790007	Plate, Brake pad
81	790005	Holder, Brake pad
82	790016	Lever, Brake
83	792076	Washer, Flat
84	792075	Nut, Lock
85	792073	Screw, Hex hd. cap, 1/4-20 x 1-1/4 thr'd forming
86	790009	Disk, Brake
87	792045	Key, Woodruff No. 61
88	792085	Screw, Hex hd. cap, 1/4-20 x 2-1/4 thr'd forming
89	786067	Spacer

Note 1: The No. 780091 bearing & seal assy., can be used interchangeably with the separate No. 530105 bearing and the separate No. 788042 seal.

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

WIRING DIAGRAM



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ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

WIRING DIAGRAM

KEY NO.	PART NO.	DESCRIPTION
1	6651H	Headlights
2	2790X	Batteries (3 Reqd.)
3	4754R	Main Solenoid
4	4755R	Blade Solenoid
5	5054R	Circuit Breaker
6	4759R	Limiter Fuse
7	4762R	Main Key Switch
8	7552H	Key For Switch
9	3356R	Light Switch
10	4761R	Mower Switch
11	663A97	Traction Motor
12	5577R	Safety Switch
13	663A70	Left Blade Motor
14	663A70	Right Blade Motor
15	4756R	Battery Charger
16	4758R	Diode
17	1992R	Tail Light Lamp
18	5509R	Fuse
19	4802R	Electrical Wire Harness
20	4788R	Battery Cable
21	4794R	Electrical Wire (White)
22	4790R	Battery Cable (Red)
23	4789R	Battery Cable (Black)
24	4797R	Electrical Wire (Yellow)
25	4791R	Solenoid Cable (Red)
26	4803R	Electrical Wire (Red)
27	4760R	Fuse Block
28	4798R	Mower Switch Terminal and Wiring
29	5440R	Electrical Wire (Red)
30	4799R	Electrical Wire (Black)
31	4792R	Motor Cable (Red)
32	4793R	Motor Cable (Black)
33	4800R	Main Switch Connector
34	4795R	Left Blade Terminal and Wiring
35	4801R	Electrical Wire (Green)
36	4796R	Right Blade Terminal and Wiring
37	3793R	Tail Light Bulb

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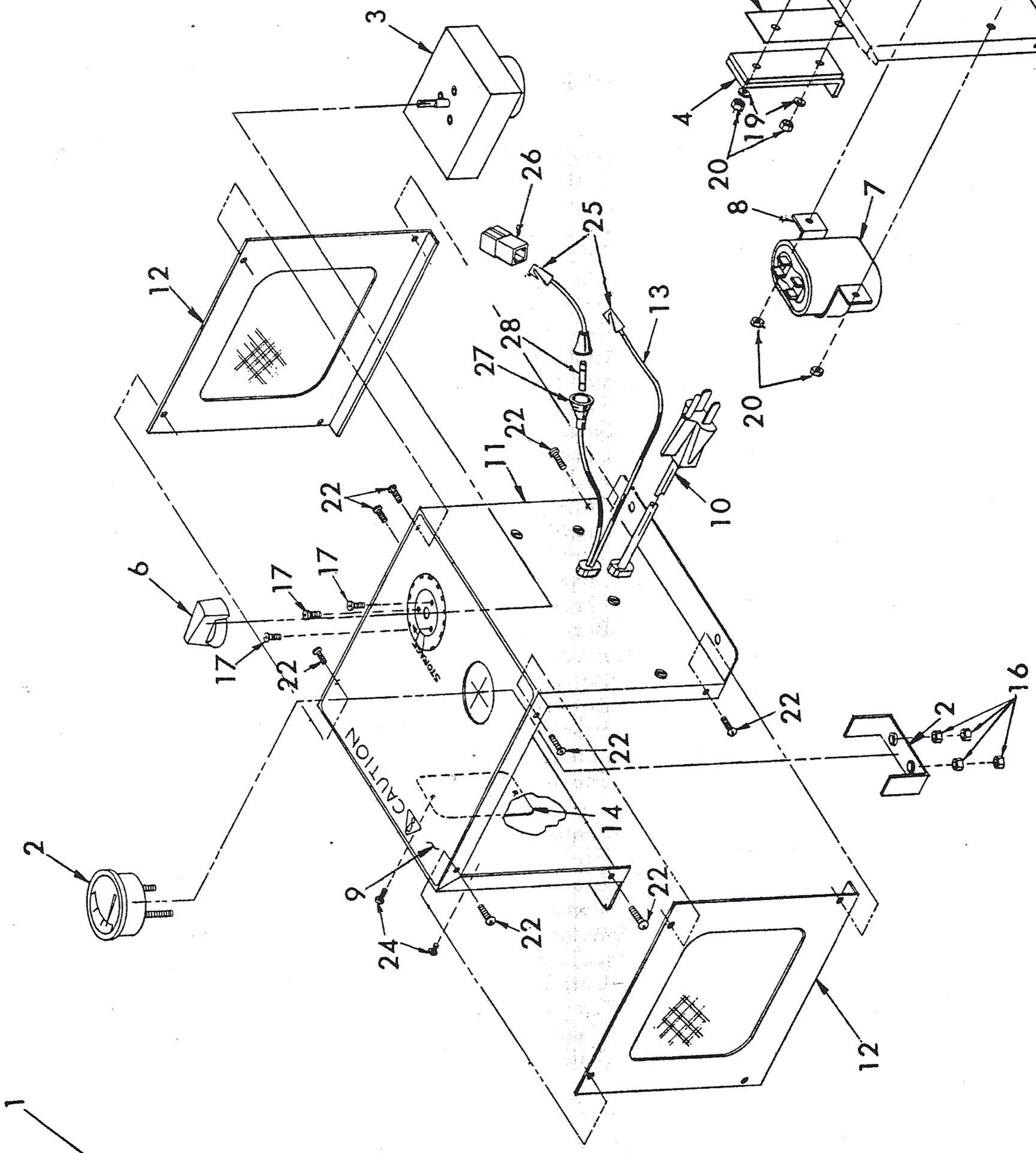
CHARGER



KEY NO.	PART NO.	DESCRIPTION
1	5491R	Transformer
2	5492R	Ammeter
3	5493R	Timer
4	5494R	Heat Sink Assembly
5	5680R	Insulator
6	5496R	Knob
7	5497R	Condenser
8	5498R	Strap
9	5499R	Label
10	5500R	A.C. Cord
11	5501R	Case
12	5502R	Case Body Plate
13	5676R	D.C. Lead
14	5504R	Specification Plate
15	5538P	★ Self tap Screw No. 10-32 x 3/8
16	554P	★ Hex Nut No. 10-32
17	5577P	★ Sems Screw No. 8-32 x ¼
18	5578P	★ Nylon Screw No. 10-32 x ½
19	1404P	★ Lockwasher, External Tooth No. 10
20	543P	Hex Nut No. 10-32
21	5579P	★ Sems Screw No. 10-32 x ½
22	5580P	★ Sheet Metal Screw No. 10-12 x 7/16
23	5679R	Strain Relief Grommet
24	5581P	★ Sheet Metal Screw No. 4 x ¼
25	5677R	Male Blade Terminal
26	5678R	Connector Body
27	5681R	D.C. Lead with Fuse Holder
28	5509R	D.C. Fuse (20 amp)
29	5510R	A.C. Fuse (10 amp)

★ Standard Hardware-Purchase Locally

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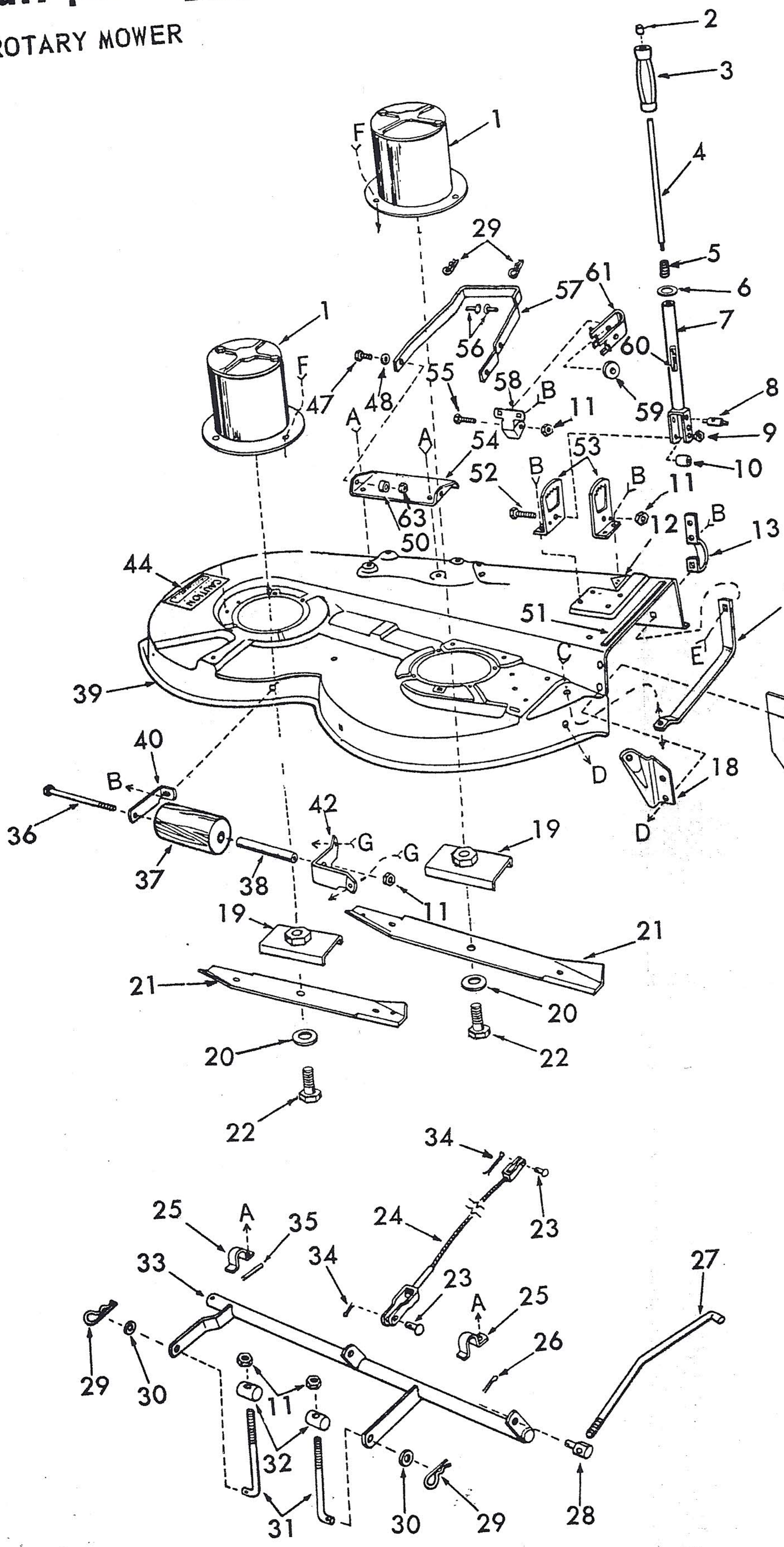
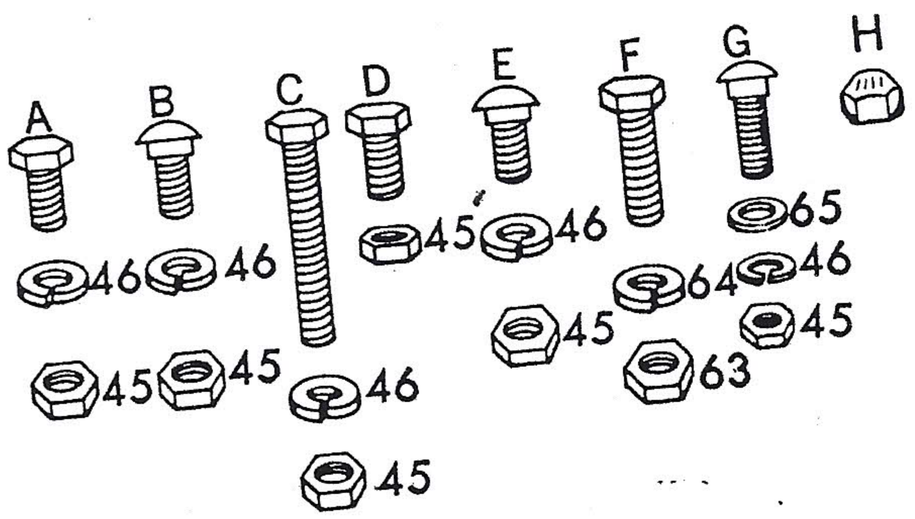
6'' ROTARY MOWER





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ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

36'' ROTARY MOWER

KEY NO.	PART NO.	DESCRIPTION
1	663A70	Blade Motor
2	3252R	Plunger Cover
3	3251R	Handle Grip
4	3178R	Handle Plunger
5	3244R	Compression Spring
6	4500R	Washer
7	663A12	Lift Handle Weldment
8	3188R	Quadrant Pin
9	1605H	Center Lock Nut ¼-20 UNC
10	3204R	Lift Handle Bushing
11	5394H	Center Lock Nut 3/8-16 UNC
12	3239R	Safety Std. Sticker
13	3194R	Runner
14	4727R	Lower Runner
15	4728R	Outlet Baffler
16	3538R	Safety Shield Caution Decal
17	3218R	Safety Shield
18	3231R	Safety Shield Bracket
19	663A69	Blade Saddle Weldment
20	4459R	Spring Washer
21	4452R	Mower Blade
22	3204P	★ Hex Bolt 7/16-14 UNC x ¾ H.T.
23	2292R	Rivet Pin
24	663A76	Lift Cable Complete
25	3221R	Lift Shaft Bracket
26	2506P	★ Cotter Pin 1/8 x 1
27	3186R	Lift Rod
28	3192R	Lift Rod Trunion
29	4939M	Retainer Spring
30	1556P	★ Washer 13/32 x 7/8 x 14 Ga.
31	3181R	Adjusting Screw-Rear Hanger
32	3190R	Rear Hanger Adjusting Nut
33	663A123	Lift Shaft Weldment
34	1503P	★ Cotter Pin 3/32 x ¾
35	7877M	Roll Pin
36	3269P	★ Hex Bolt 3/8-16 UNC x 6
37	3247R	Gage Roller
38	3207R	Gage Roller Bushing
39	4456R	Mower Housing
40	3222R	Gage Roller Support-L.H.
42	3223R	Gage Roller Support-R.H.
44	5403R	Instruction Caution Decal
45	504P	★ Hex Nut 5/16-18 UNC
46	1003P	★ Lockwasher 5/16
47	3021P	★ Hex Bolt 3/8-16 UNC x ¾
48	1513P	Washer 13/32 x 13/16 x 16 Ga.
50	3203R	Front Lift Bushing
51	3542R	Foam Rubber Strip
52	3029P	★ Hex Bolt 3/8-16 UNC x 2
53	3228R	Lift Quadrant
54	3225R	Front Mower Hanger-Upper
55	3028P	★ Hex Bolt 3/8-16 UNC x 1¾
56	4654R	Rd. Hd. Rivet
57	4700R	Front Lift Link
58	3224R	Front Mower Hanger-Lower
59	3246R	Nylon Pulley
60	4306R	Decal
61	3210R	Lift Pulley Guide
62	1685H	Center Lock Nut 5/16-18 UNC
63	501P	★ Hex Nut 3/8-16 UNC
64	1004P	★ Lockwasher 3/8
65	1537P	★ Washer 11/32 x 11/16 x 16 Ga.
66	5847R	Safety Shield Rod
67	5848R	Torsion Spring
A	3010P	★ Hex Bolt 5/16-18 UNC x ¾
B	16P	★ Carriage Bolt 5/16-18 UNC x ¾
C	3271P	★ Hex Bolt 5/16-18 UNC x 2¾
D	3010P	★ Hex Bolt 5/16-18 UNC x ¾
E	49P	★ Carriage Bolt 5/16-18 UNC x 7/8
F	3012P	★ Hex Bolt 3/8-16 UNC x ¾
G	17P	★ Carriage Bolt 5/16-18 UNC x 1
H	5846R	Push Nut

★ Standard Hardware-Purchase Locally

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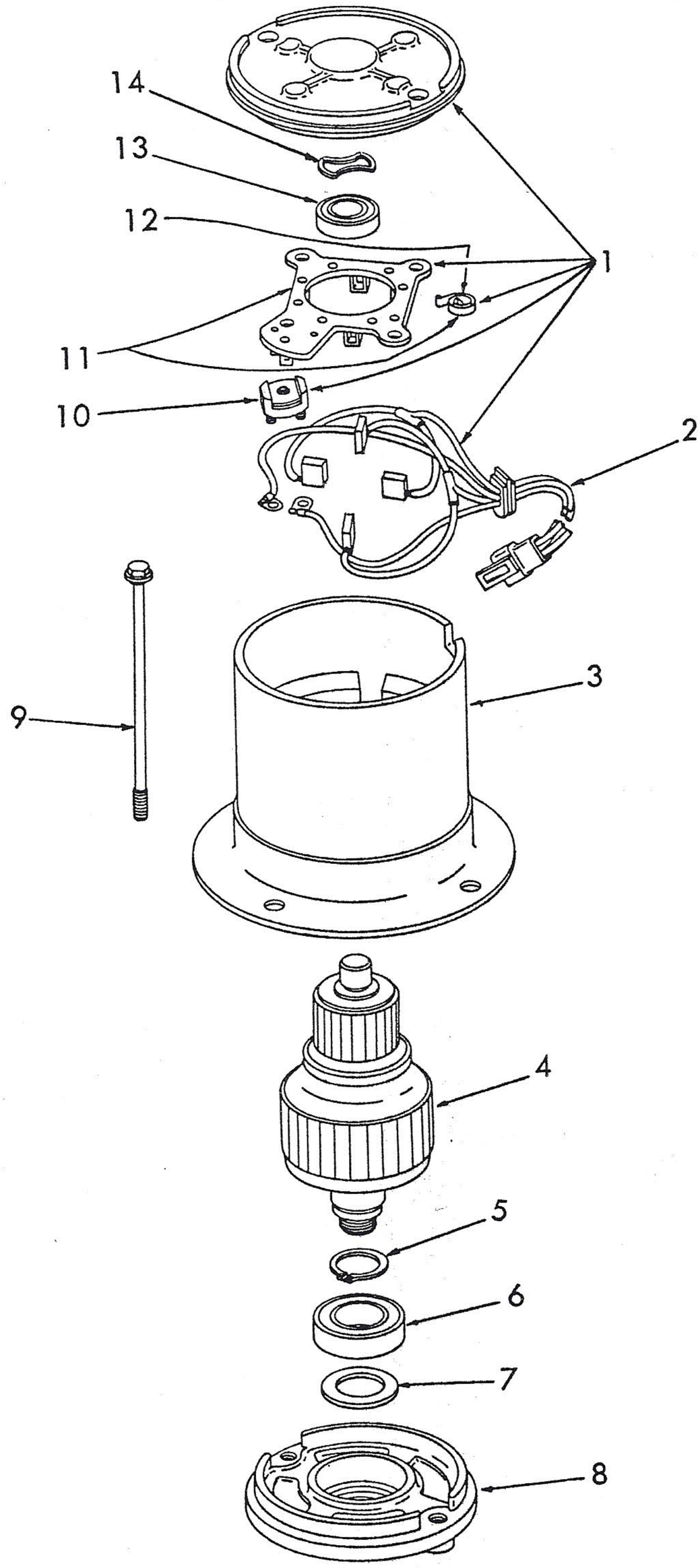
ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

BLADE MOTOR



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ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790

BLADE MOTOR

KEY NO.	PART NO.	DESCRIPTION
1	5043R	Head Assembly, C.E.
2	5044R	Brush Set and Lead Assembly
3	5042R	Frame and Pole Assembly
4	5039R	Armature Assembly
5	5049R	Bearing Retainer Ring
6	5041R	Sealed Ball Bearing, D.E.
7	5051R	Seal Washer, D.E.
8	5048R	Head Assembly, D.E.
9	5050R	Thru Bolt Pkg.
10	5045R	Circuit Breaker
11	5046R	Brush Plate Assembly
12	5047R	Brush Spring Set
13	5040R	Sealed Ball Bearing, C.E.
14	5052R	Spring Washer, C.E.

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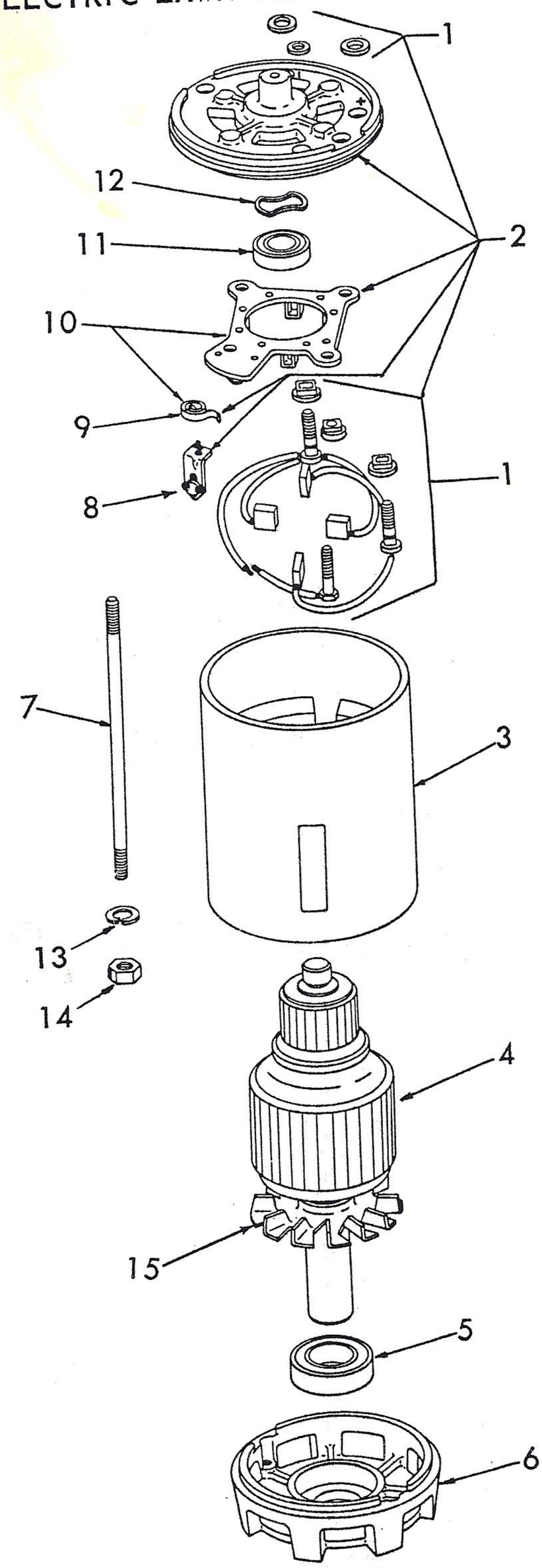
TRACTION DRIVE MOTOR

ELECTRIC LAWN TRACTOR--MODEL NO. 917.25790



KEY NO.	PART NO.	DESCRIPTION
1	5026R	Brush Set and Terminal Stud Pkge.
2	5025R	Head Assembly, C.E.
3	5024R	Frame and Pole Assembly
4	5020R	Armature and Fan Assembly
5	5023R	Ball Bearing-Sealed, D.E.
6	5036R	Head Assembly, D.E.
7	5037R	Thru Bolt Pkge.
8	5441R	Thermal Protector
9	5035R	Brush Spring Set
10	5034R	Brush Plate Assembly
11	5022R	Ball Bearing-Sealed, C.E.
12	5038R	Sprina Washer, C.E.
★	1003P	Lockwasher 5/16
★	506P	Hex Nut 5/16-18 UNC
15	5021R	Fan Blade

★ Standard Hardware-Purchase Locally