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TRADEMARK

This manual does not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purpose, the matter should be referred to your authorized ELEC-TRAK dealer.
Introduction

Congratulations! You now own a fine product produced by the General Electric Company, which has been built to assure you high quality and excellent service.

Electricity is the cleanest, most dependable and economical source of power. Every day, all around you and often taken for granted, electrical power is working for you ... heating, cleaning, lighting, and cooling.

The ELEC-TRAK garden tractor is the result of careful design engineering with the operator foremost in mind. Safety, ease of operation, economy, ruggedness, and maintenance-free features are built into the ELEC-TRAK tractor.

This manual has been carefully prepared to instruct you in operating, maintaining, and lubricating your ELEC-TRAK. IT IS VERY IMPORTANT THAT EACH OPERATOR FULLY UNDERSTANDS THE ENTIRE CONTENTS OF THIS MANUAL FOR SAFE, DEPENDABLE OPERATION AND TO PROLONG THE LIFE OF THE EQUIPMENT.

Your ELEC-TRAK dealer is equipped with a complete stock of genuine ELEC-TRAK tractor parts. He has factory-trained service personnel using the latest approved test and repair equipment and will service your tractor to assure safe, efficient, and economical operation. UNAUTHORIZED SERVICE VOIDS WARRANTY. HOWEVER, BEFORE CALLING YOUR DEALER FOR SERVICE, SEE THE TROUBLESHOOTING CHECK LIST ON PAGE 15.

WARRANTY REGISTRATION

Your dealer must complete and submit a Dealer Delivery Report to General Electric before your Warranty Registration can be sent to you. To assure proper warranty coverage be sure that the dealer prepares this form for you with a copy properly dated and sent to the General Electric Company at the address shown below.

Manager – Product Service
Outdoor Power Equipment Operation
General Electric Company
Corporations Park
Schenectady, New York 12305

Your dealer will also record the ELEC-TRAK Warranty Registration and model and serial number of your General Electric tractor.

Remember to specify model and serial number shown under the hood when ordering parts.

Plug-In . . . The key to automatic refueling

The ELEC-TRAK tractor is designed to refuel itself and always be ready for service if it is plugged in and the charger dial turned on. IT SHOULD ALWAYS BE PLUGGED INTO A 3 WIRE (GROUNDED) 110 VOLT OUTLET WHEN NOT IN USE. When turned on, the charger automatically senses the power pack condition and adjusts the charging rate to the proper level to bring the unit to a fully charged condition as fast as possible. The charger timer will continue to move for several hours after full charge is reached but the charge rate is very low and only assures equalization of all the power pack cells.

It is especially valuable to put the tractor on charge during any short breaks in operation (10 minutes or longer), since the high rate of input during the early part of the recharge cycle reactivates the power pack’s plates and adds considerable range to the work period.

THE POWER DISCONNECT MUST ALWAYS BE ENGAGED TO PERMIT RECHARGING.
Safety Practices

As with all power devices, prime responsibility for safe operation of the equipment rests with the operator. It is necessary that both operating instructions and the following safety information be fully understood by each operator before using the tractor and attachments.

- Become familiar with the location and function of all controls.
- Be sure the work area is clear of objects which might be picked up and thrown, such as stones, bottle caps, or large sticks.
- Regulate travel speed according to ground conditions.
- Don’t forget to set the brake and shut off attachment power before you leave the tractor.
- Don’t drive too close to creeks or ditches, in order to avoid chance of tipping.
- Watch out for traffic when near roadways.
- Stay alert for holes and other hidden hazards.
- Watch where you’re driving! Pay attention! The tractor is very powerful, and weighs approximately 1000 pounds.
- Beware on steep slopes! Reduce speed on all side slopes and sharp turns to prevent tipping or losing control.

- Don’t attempt to operate tractor when not in seat.
- Don’t carry passengers without proper provisions.
- Keep children and pets at a safe distance.
- Don’t wear loose-fitting clothing that might get caught in moving parts.
- Never attempt to get off the tractor while it is in motion.
- Don’t stop or start suddenly when going uphill or downhill. A sudden change of speed could upset the balance of tractor or operator.
- Keep tractor in good operating condition. Maintain all safety devices as indicated in this manual.
- Remove key before leaving tractor.
- Plug tractor charger cord into a normal 110 volt, 3-hole receptacle. Do not use a 2-hole adapter unless properly grounded.
- Keep hands and feet clear of all rotating equipment.
- Disconnect power cord from PTO receptacle before handling power attachments.
- All safety devices are for your protection. Do not attempt to defeat them.

NOTE  The ELEC-TRAK tractor should be plugged in and brought to the full charge state as soon as the owner takes delivery. (See Page 8.)

Prior to initial use of the ELEC-TRAK tractor, the user should completely familiarize himself with all tractor controls and the safety interlocks (Page 7).

TO START
1. Set direction switch to forward.
2. Move range selector to desired position. (D2, D1, L, or LL)
3. Turn tractor key to “ON”.
4. Release parking brake.
5. Depress foot pedal speed control pedal slightly. Depress further for higher speed.

NOTE  “Flooring” the foot pedal is not recommended to start, especially if starting under load (such as going uphill). This practice draws high current through the motor, and protective circuits act to limit the current inrush, thus causing the start to feel sluggish. Starting should be done by gradually depressing the foot pedal until the cruise light comes on, and holding there for maximum torque and efficiency, or continuing to depress the pedal for more speed. Down-shifting to a lower gear range may be necessary if the starting load is high.
TO STOP

Remove foot from speed control and/or depress brake pedal.

NOTE
Emergency stops can be made by fully depressing the brake pedal without releasing speed control. Full depression of brake pedal switches drive power off for circuit protection. Before drive power can be restored the foot speed pedal control must be released. Depress of the speed control will then restore operation.

TO REVERSE

1. Stop tractor by removing foot from speed control pedal, and using brake if necessary.
2. Move direction switch to reverse, release brake and depress speed control pedal.

NOTE
New power packs have a "break-in" period. It is recommended that deep discharging be avoided for the first 5 operational periods. This will assure longer power pack life. Deep discharging can be identified when the Fuel Level Meter reads in the red to the left of "E".
ATTACHMENTS

Use and care information for ELEC-TRAK attachments is found in the specific manual supplied with each attachment.

The rear pin hitch is provided for light hauling only. Heavy hauling, impact pulling, or operation of ground breaking implements requires the addition of the optional sleeve hitch.

NOTE
Under no circumstances should automotive electrical equipment such as lights, horns, or any grounded frame device be attached to the ELEC-TRAK tractor. The tractor frame is not grounded and such devices could cause damage to the control system if used.

CRUISE CONTROL

For convenience, a cruise control is provided which will allow the tractor to be operated at a set power level without holding the right foot pedal down. This position also provides the most efficiency and highest torque. To operate, depress the right foot pedal until the cruise light glows steadily, then depress the cruise control button, and release the pedal. The tractor will then operate at the cruise position until interrupted.

Another way to engage the cruise control is to depress the right foot pedal to any point past that point which causes the lamp to glow steadily. While holding the cruise control switch down, release the foot pedal fully and the cruise control will be engaged.

To release the cruise control, depress the right foot pedal until the cruise light goes out, then release. The cruise control may also be released by depressing the brake, turning off the key switch, changing the position of the direction switch to the opposite position, disengaging the power disconnect, or leaving the seat.

DIRECTION CONTROL

Forward and reverse directions are determined by the forward-reverse switch. Moving this switch forward establishes forward motion and moving the switch backward establishes reverse motion when the foot throttle pedal is depressed. In reverse, a red light located on the cruise control panel comes on to alert the driver that the direction control is in reverse.

TRACTOR KEY SWITCH

The "OFF" position disconnects all tractor electrical circuits with the exception of the charger, lift, lights, and accessory receptacle. These circuits are active with the key in either the "OFF" or "ON" position. The clockwise "ON" position allows power to be applied to the drive motor and PTO equipment.

RANGE SELECTOR

Range selector lever position determines one of four speed-torque ranges according to the pattern shown in Figure 2. The "LL" position is accessible by shifting through the "L" position.

![Figure 2. Range Selector Diagram](image)

<table>
<thead>
<tr>
<th>Designation</th>
<th>Use</th>
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<tbody>
<tr>
<td>LL – Low-Low</td>
<td>Heavy Snowblowing</td>
</tr>
<tr>
<td>(Up to 1.5 mph)</td>
<td>Tilling</td>
</tr>
<tr>
<td></td>
<td>Ground Engaging Attachments</td>
</tr>
<tr>
<td>L – Low</td>
<td>Light Snowblowing</td>
</tr>
<tr>
<td>(Up to 3.75 mph)</td>
<td>Hauling (Heavy Loads)</td>
</tr>
<tr>
<td></td>
<td>Ground Engaging Attachments</td>
</tr>
<tr>
<td></td>
<td>Gravel or Dirt Dozing</td>
</tr>
<tr>
<td>D₁ – Drive One</td>
<td>Heavy Mowing</td>
</tr>
<tr>
<td>(Up to 6.5 mph)</td>
<td>Hauling (Medium Loads)</td>
</tr>
<tr>
<td></td>
<td>Raking and Seeding</td>
</tr>
<tr>
<td></td>
<td>Snow Plowing (Dozer Blade)</td>
</tr>
<tr>
<td>D₂ – Drive Two</td>
<td>Transporting</td>
</tr>
<tr>
<td>(Up to 9.0 mph)</td>
<td>Snow Plowing</td>
</tr>
<tr>
<td></td>
<td>High Speed Mowing</td>
</tr>
<tr>
<td></td>
<td>Hauling (Light Loads)</td>
</tr>
</tbody>
</table>

Range Selection is made with a quick positive hand motion, but only after drive motor rotation has stopped.

NOTE
When the range selector gears do not move or mesh easily, a momentary application of drive power will reposition gears and allow shifting. Do this by giving the foot pedal a slight push and release. Do not force gear changes if any interference is indicated. Be careful to have tractor clear of objects or people in case it moves during the operation.
CONTROLS AND FEATURES

SPEED CONTROL

Control of speed is achieved with the foot pedal speed control. Initial downward movement starts the motor and further depression increases the speed. When operating at the top speeds, an increased load, such as going uphill, will require high motor power and will tend to cause the tractor to slow down. The E-20 control has an automatic “down-shift” which increases the torque for best response to the load, increasing motor efficiency and maintaining speed of travel. See Figure 3.

PTO (Power Take-off)

The dash-mounted PTO switch controls motorized attachments. Power is delivered through the PTO receptacle located just under the left edge of the hood toward the front of the tractor (See Figure 4).

The PTO switch must be turned on after the key switch is turned to “ON”. This is due to the safety interlock which prevents unintentional attachment start-up. If the driver leaves the seat with an attachment running, a safety interlock interrupts the attachment power. To restore attachment power, sit on seat and turn PTO switch to “OFF” and then to “ON”.

LIFT SWITCH

With an attachment properly mounted, the lift switch lever is held upward to raise the attachment, downward to lower it. Spring loading returns the switch to its center position upon release. Do not continue to power the lift after its raised limit has been reached. Such abuse will trip the circuit breaker in the lift or will blow the protective fuse. To give attachments freedom to follow the ground contour, allow a small amount of slack in lift tape during operation by holding the lift switch down for about 1-2 seconds after the implement stops its downward movement.

LIGHTS

Operation of the tractor lights is independent of the key switch position, so that the lights can be used at night for lighting work areas or servicing front attachment with the power safely turned off. In addition to lighting the dash panel, the dashlight serves as a reminder that the headlights are on. The reverse indicator lights to remind the operator the direction switch is in reverse. This light is turned off by the key switch.

FUEL LEVEL GAUGE

On the fuel level gauge the green zone between the “E” (empty) and “F” (full) represents range of the power pack. Readings in this zone are fractional portions of full range remaining. See Figure 6.

When the charger is in operation and nearing completion of its cycle, the “CHG” zone indicates the power pack is being fully charged. This assures you of proper charger operation. After the charging cycle is completed, the indication should be “F” or higher, to be interpreted as “full”. Use of heavy work attachments or high loads on the tractor will cause the needle to drop below (F) as the heavy drain period begins. The fuel level gauge will always read lower during heavy power usage. When the gauge
CONTROLS AND FEATURES

consistently reads below empty, the load should be reduced until the needle returns to the green area or the tractor recharges enough to permit further operation.

While the right red zone represents “overcharge”, the left one represents “overdischarge”. If either of these zones are indicated after charging, check the trouble-shooting tips on page 15. If proper operation is not restored by the suggestions there, disengage the power disconnect and consult your dealer.

POWER USE GAUGE

Proper use of the power use gauge can extend the ELEC-TRAK tractor range considerably. Continued operation with an indication in the red or “HIGH” section of the gauge should be avoided. Prolonged operation with this indication will result in more rapid discharge of the power pack and is usually due to improper choice of speed-torque range or a jammed attachment. Whenever possible the speed control should be maintained in the recommended “CRUISE” position (light on) for most efficient operation.

During normal tractor operation, the power use gauge indicator should remain in the green or lower yellow zone when proper gear selection has been made with the range selector. Heavy work such as snow removal and heavy tilling may require operation in the red zone.

NOTE
The drive motor and its circuitry are protected by a circuit breaker. This automatic switch may open and shut off power under extremely heavy loading. A few minutes wait is usually sufficient for the circuit breaker to automatically reset. If the circuit breaker continues to trip, reduce the load by shifting to a lower range.

ACCESSORY RECEPTACLE

The accessory receptacle on the ELEC-TRAK tractor lets you take your power source to your work. A variety of 36 volt electric power tools, made just for the ELEC-TRAK tractor to make your home, yard, and garden chores easy and enjoyable, are available from your GE dealer.

The accessory receptacle is located on the left side of the tractor under the edge of the hood to the rear of the PTO outlet as shown in Figure 5.

When using a hand power tool, apply the parking brake and insert the accessory plug into the special receptacle rotating it slightly to the right to lock it in place. Voltage to this receptacle is always on regardless of key switch position. In the event that the power accessory is inoperative, be sure that the power disconnect is engaged and the manual reset circuit breaker button is pushed in. (See Figure 9).

NOTE
The 36-volt accessory receptacle is designed to prevent the use of standard 110 volt AC power tools. Use only approved 36-volt tools in the accessory receptacle.

BRAKE PEDAL AND PARKING BRAKE

The ELEC-TRAK tractor is equipped with a disc-type brake fixed on the transaxle. This brake is used for normal stopping as well as a parking brake. To apply the parking brake, it is necessary to fully depress the brake pedal and pick up on the rear of the parking brake lever until it engages the forward edge of the foot rest. When foot pressure is released the brake pedal should remain in its depressed position. The parking brake is released by
reapplying pressure on the brake pedal and moving the rear end of the parking brake lever downward to its stop (See Figure 7).

The brake pedal also has a motor cutout switch which shuts off the drive circuit when the pedal is fully depressed. The tractor control is inoperative with the parking brake set. To reactivate the control, (and drive power) fully release the brake pedal and then start by again pressing down on the pedal.

Always release the brake pedal fully before drive power is applied.

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**Figure 7. Brake Pedal**

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**SAFETY INTERLOCKS**

**Seat Switch**

The seat must be occupied in order to close a switch which permits power to be applied. If the seat is vacated for any reason, all power circuits are shut off.

**Brake Switch**

When the brake is applied fully, a switch removes power from the drive motor only. The PTO receptacle remains energized.

**Return-to-off**

If power is interrupted to the PTO by the seat switch or turning off the key switch or power disconnect, it cannot be restored unless the PTO switch is turned off and then on again.

If power is interrupted to the drive motor, the foot speed control must be released and reapplied in order to start.

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**NOTE**

These interlocks are used to ensure maximum safety for the operator of the ELEC-TRAK tractor. They should never be removed from the circuits, and should be kept in good working order.

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**ELECTRICAL PROTECTION**

**Power Disconnect**

The power disconnect is an emergency device, which disconnects all electric power to the vehicle. It disengages power when you push the end of the lever downward (See Figure 8). Should any electrical malfunction occur, disengage this unit immediately and check the troubleshooting check list on page 15 before consulting your dealer.

ALL SERVICING OF THE TRACTOR SHOULD BE DONE WITH THE "POWER DISCONNECT" DIS-ENGAGED.

The power disconnect is engaged by pushing the lever in before it is rotated upward. It is locked in this position by rotating counter-clockwise one-quarter turn.

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**Figure 8. Power Disconnect**

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**Circuit Breakers**

Circuit breakers are used to protect the drive, lift and mower motors from damaging overloads. These devices operate on both high current and high temperature to sense potentially severe conditions that could damage the motors, and they remove power to the motors under such conditions. After a short interval of time, these breakers automatically reclose and power can be restored by following the normal starting procedure. (The mower motors will restart if power (PTO) is left on.) Continued tripping is a signal to reduce the load, or to search for a fault such as jamming or maybe an electrical problem that requires dealer service. These circuit breakers are located at the motors. (Manual reset circuit breakers are used on some of the attachments. See the specific attachment manual for additional information.)

Another circuit breaker is located on the control panel next to the fuse block, and is used to protect the charging
POWER PACK CARE AND CHARGING

circuit, as well as the accessory receptacle. This manual reset breaker operates on over-current conditions in a similar manner to the motor breakers, but, when tripped, must be reset by pushing the red reset button (Figure 9).

NOTE
Battery charging cannot occur if this circuit breaker is open.

Fig. 9. Fuses and Manual Circuit Breaker

FUSES

The lift circuit is also protected by a 3AG30ASB fuse located in the fuse block under the hood (Figure 9). If the lift motor fails to operate, check this fuse and replace it if necessary with one of identical specifications. The center fuse in the same block protects the tractor and PTO circuitry. If this fuse fails, the drive motor and PTO operated attachments will not function. It should be replaced only with a 3AG20A fuse. The third fuse in the block protects the light circuitry. This fuse should also be replaced with a 3AG20A fuse.

POWER PACK CARE AND CHARGING

Batteries are one of man's oldest and most reliable sources of power. By following a few basic rules you can expect excellent service and long life from the advanced ELEC-TRAK power pack.

The power pack is like a tank of energy. When using the tractor, this energy is drained. The charger replaces the used energy by properly converting and metering your household electricity into the power pack. The charger is designed to restore full charge to the power pack after one cycle of operation. Under normal conditions a full charge is nearly reached after 5 hours; however, the charger runs up to 19 hours to equalize cell voltages (when started on the "Yrs. 1-2" position. Older batteries require less charging time.)

NOTE
The Power Disconnect must be engaged before the power pack can be charged.

The charger runs independently of the key switch. It is suggested that the key be removed to prevent unauthorized use of the tractor.

Charging

A deeply discharged power pack requires the charger to draw approximately 14 amperes from the 110 volt line receptacle. To prevent 15 ampere household fuses or circuit breakers from "opening" and interrupting power, it may be necessary to disconnect other appliances, tools, or lights from that circuit.

To start the charging operation grasp both louvers at the rear of the hood and lift upward. Plug the charger cord into any 3-wire grounded 110 volt receptacle and turn the charger knob to the "Start" position determined by the age of the power pack (Figure 11). (New power packs go through a seasoning period and must be charged longer.)

When the power pack is fully charged, the charger shuts off automatically. It is not necessary to remove the plug from the house receptacle after completion of the charging cycle. However, the tractor charger may be unplugged at any time during or after the charging cycle if the tractor is needed.

Fig. 10. Charger Starting Switch

The charger line cord is equipped with a standard 3-prong plug which grounds the charger through the home electrical system. When a 2-hole receptacle is available, an adapter must be used between the plug and receptacle with the ground lead permanently fastened to the ground screw on the outlet or other tested ground on your electrical system.
POWER PACK CARE AND CHARGING

Figure 11. Charger Starting Positions

In older homes equipped with original electrical wiring, the receptacle cover plate screw may not provide a ground connection when used with an adapter plug. If there is any doubt concerning the ground of your receptacle, consult your dealer or a qualified electrician.

NOTE
The power pack should not be charged in an area where the temperature is above 110°F to prevent overcharging.

POWER PACK WATERING

During the late stages of the charging cycle, there is a bubbling action or gassing process which allows some water in the electrolyte solution to evaporate. Remember that during this charging procedure only water is lost; so it is only necessary to add water to bring up the electrolyte level to the proper point. Distilled water or tap water that is low to average in mineral content is satisfactory for use in the ELEC-TRAK power pack.

Water should be added only after the power pack is charged. The only exception to this rule is if the water level should fall below the top of the plates. Sufficient water should be added to bring the electrolyte level just above the plates. The system should then be charged, and if necessary additional water added after charging. (This is because the electrolyte expands during charging.)

WARNING
Power pack electrolyte can cause irritation of the skin and may damage clothing. Any contacted electrolyte should be immediately neutralized with a solution of baking soda and water, or washed thoroughly with soap and water.

Any electrolyte running out of the top of the cells is an obvious sign of overfilling. It is important that the electrolyte level be maintained above the plates but never above the indicator ring. Overfilling can result in dilution of electrolyte, which reduces capacity and life of the power pack. Overfilling can also cause corrosion where spillage of electrolyte occurs. (Your ELEC-TRAK tractor dealer has an automatic cell filler jug available at a low cost.)

Under normal conditions it only will be necessary to check the electrolyte approximately once per month. Use of the tractor in higher temperature locations or under very heavy use may require more frequent checks of the level. Also, after several years of use, it may be necessary to add water more often.

NOTE
The charging process evolves small amounts of hydrogen gas; therefore, normal precautions like those for gasoline refueling should be used whenever the ELEC-TRAK tractor is being charged. (No sparks or open flames near the tractor.) This gas concentration will not occur if there is free air circulation in the area where the tractor is stored or if the area is large so the concentration is reduced (i.e., a garage).

COLD WEATHER BATTERY CARE

The efficiency of a battery is somewhat less at lower temperatures. In order to obtain optimum performance of your ELEC-TRAK tractor during the winter months, and to properly care for the batteries when not in use, the following recommendations should be followed:

Tractor in Storage
1. Fully charge batteries by setting charger knob to indicator mark appropriate for age of batteries and letting charger operate until it shuts off. (NOTE: Always be sure that the disconnect is in (engaged) when charging.)
2. Add water to each cell of the battery to the specified level as described in the previous section. It is important for best battery care to be sure (a) that the perforated plates which may be seen through the filling holes are covered by the water level to a depth of 1/4 (3/4") before charging, and (b) that the water level is brought to the bottom level of the indicator ring after charging. In this way, overfilling is prevented but sufficient water is assured.
3. The tractor may be stored in the cold provided the batteries are charged. Discharged batteries can freeze in cold temperatures unless recharged at once. The following table illustrates the relationship between amount of charge and freezing temperature of the electrolyte.
LUBRICATION - SERVICE AND MAINTENANCE

<table>
<thead>
<tr>
<th>Amount of Charge</th>
<th>Freezing Temperature of Electrolyte</th>
</tr>
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<tbody>
<tr>
<td>100%</td>
<td>-80°F</td>
</tr>
<tr>
<td>75%</td>
<td>-42°F</td>
</tr>
<tr>
<td>50%</td>
<td>-16°F</td>
</tr>
<tr>
<td>25%</td>
<td>-2°F</td>
</tr>
<tr>
<td>10%</td>
<td>+7°F</td>
</tr>
</tbody>
</table>

Self-discharge of batteries is practically non-existent below +40 degrees Fahrenheit, and they can be stored for several months without attention when not used and in any temperature less than +40°F.

4. If stored in a warm area above 40°F, the tractor should be recharged and the water level in the batteries checked and adjusted about once a month.

5. After storage of more than a few weeks, it is advisable to give batteries an overnight charge before using.

Tractor in Use

1. Start the winter in good condition by following steps 1 and 2 as previously outlined under Tractor in Storage.

2. Whenever possible, give batteries another charge before using if cold weather operation can be predicted. (The night of the snow storm if you plan to remove snow in the morning.)

3. Do not let the batteries stay discharged in cold weather. As soon as the work is completed, recharge the batteries. If idle time occurs between start and finish, plug charger into outlet and let batteries be on charge while you are not using the equipment, even if for only a few minutes. (This is helpful in any weather to give maximum range and performance.)

4. There is little danger overcharging batteries when they are cold, so extra charging in the winter is advisable when use is expected within the next 24 to 36 hours.

MAKE IT A HABIT!
REMOVE KEY — PLUG IN — START CHARGER

SERVICE AND MAINTENANCE

The ELEC-TRAK E-20 tractor reduces your lubrication requirements tremendously since the electric motors are permanently lubricated and there are no clutches, idler pulleys or mower bearings to be greased.

Several high-friction points do require periodic lubrication to prolong life and give maximum operating satisfaction.

AFTER EACH 100 OPERATING HOURS — OR EVERY 6 MONTHS

After 100 operating hours, the transaxle filler plug should be removed and the fluid level checked (See Figure 13). The oil level should be to the bottom edge of the filler hole. If necessary, replenish with approved axle fluid only, i.e., SAE EP90.

Twice a year or every 100 operating hours the front spindles, the front wheel bearings and the front axle main pivot pin should be greased with a hand grease gun using a No. 2 multipurpose lithium grease (See Figure 12). Pump gun until dirt and old grease are flushed out and wipe all surfaces clean.

Figure 12. Front End Grease Fittings

Figure 13. Brake, Transaxle, and Motor Mounting

All linkages and bearings should be oiled with a heavy duty (No. 30) machine oil. Major points to be considered include:

1. Brake pedal shaft and linkage connections.
SERVICE AND MAINTENANCE

2. Hood and seat hinges.
3. Attachment mounting pins.

Prevent dirt and dust accumulation, by wiping away all excess oil.

These lubrication intervals are meant to be a guide only. If the tractor is subjected to abnormal environmental conditions or greater-than-average use, the frequency of lubrication as well as other preventive maintenance measures should be adjusted accordingly.

VISUAL INSPECTION

Periodic inspection of the tractor is an important preventive maintenance measure. Make it a habit to visually check for loose fastening devices or any evidence of abnormal operation. Regular cleaning and polishing of exterior surfaces will give greater satisfaction in owning and operating the ELEC-TRAK tractor and will enhance resale or trade-in value.

Adjustments, inspections, and maintenance procedures on both the tractor and attachments should be performed at regular intervals to assure trouble-free, economical operation.

POWER PACK

In addition to power pack charging and watering as outlined, other services may be performed to give more desirable service.

Check the electrolyte level in the power pack monthly. Add water only if necessary. To protect your warranty, no addition of electrolyte should be done, except by your dealer.

City tap water or water of a low to average mineral content is acceptable for refilling. To prevent contamination of water, use the recommended ELEC-TRAK water-filling jug or clean glass or plastic containers with a funnel.

It pays to keep the power pack covers clean. Removal of accumulations of dirt, grass clippings, and so forth will assure optimum electrical system performance. An occasional wiping with wet paper toweling is usually sufficient or the power packs can be blown off with an air hose or flushed off with water which will drain out at bottom of tractor.

CAUTION
For personal and equipment protection, always unplug charger and keep dry when cleaning and flushing power pack surfaces.

DRIVE ASSEMBLY

Power is transmitted from the drive motor to the transaxle through heavy duty, direct coupled belts. The belts should be kept free of grease, oil, electrolyte, and dressings and checked occasionally for tightness to assure best performance.

If the belts become contaminated they should be wiped with a clean cloth. Any belt slippage is due to wet belts or loose adjustment. If belts become wet and slip, temporarily select a lower speed range (higher torque) until belts dry, and then resume normal operation. (An optional belt system cover is available if special needs dictate.)

BELT ADJUSTMENT

With the belts properly adjusted, a 10-pound force will deflect a belt approximately 1/4 inch.

If increased tension is required, proceed as follows:
1. Loosen four carriage bolts holding motor plate. Insert a 1/4" wedge under the forward part of the motor plate, and retighten bolts finger tight (See Figure 13).
2. With belts in place, force motor and mounting plate forward as far as possible. Tighten rear two carriage bolts.
3. Remove the 1/4" wedge, and tighten the front two bolts.
4. Recheck belt tension as outlined.

If it becomes necessary to replace one belt, it is recommended that both belts be replaced so drive power is shared equally.

Belt replacement follows the same procedure as outlined above except that after the carriage screws are loosened, the mounting plate is moved to its rear limit to ease removal of belts. With new belts in place proceed as outlined in steps 1 through 4.

ELECTRONIC CIRCUITRY

The bulk of the ELEC-TRAK tractor electronic circuitry is used for power control and switching and is located on circuit cards contained in the control panel. Service on these cards is to be made by your dealer only.

NOTE
Loose connections account for many of the problems encountered with an electric vehicle. To eliminate these problems all electrical connections should be checked for tightness on a regular basis.

TIRES AND WHEELS

Proper tire inflation pressure is an important factor in determining tire life. Pressures should be checked and corrected, if necessary, on a monthly basis according to the following table.
SERVICE AND MAINTENANCE

2. Hood and seat hinges.
3. Attachment mounting pins.

Prevent dirt and dust accumulation, by wiping away all excess oil.

These lubrication intervals are meant to be a guide only. If the tractor is subjected to abnormal environmental conditions or greater-than-average use, the frequency of lubrication as well as other preventive maintenance measures should be adjusted accordingly.

VISUAL INSPECTION

Periodic inspection of the tractor is an important preventive maintenance measure. Make it a habit to visually check for loose fastening devices or any evidence of abnormal operation. Regular cleaning and polishing of exterior surfaces will give greater satisfaction in owning and operating the ELEC-TRAK tractor and will enhance resale or trade-in value.

Adjustments, inspections, and maintenance procedures on both the tractor and attachments should be performed at regular intervals to assure trouble-free, economical operation.

POWER PACK

In addition to power pack charging and watering as outlined, other services may be performed to give more desirable service.

Check the electrolyte level in the power pack monthly. Add water only if necessary. To protect your warranty, no addition of electrolyte should be done, except by your dealer.

City tap water or water of a low to average mineral content is acceptable for refilling. To prevent contamination of water, use the recommended ELEC-TRAK water-filling jug or clean glass or plastic containers with a funnel.

It pays to keep the power pack covers clean. Removal of accumulations of dirt, grass clippings, and so forth will assure optimum electrical system performance. An occasional wiping with wet paper toweling is usually sufficient or the power packs can be blown off with an air hose or flushed off with water which will drain out at bottom of tractor.

CAUTION

For personal and equipment protection, always unplug charger and keep dry when cleaning and flushing power pack surfaces.

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Power is transmitted from the drive motor to the transaxle through heavy duty, direct coupled belts. The belts should be kept free of grease, oil, electrolyte, and dressings and checked occasionally for tightness to assure best performance.

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ELECTRONIC CIRCUITRY

The bulk of the ELEC-TRAK tractor electronic circuitry is used for power control and switching and is located on circuit cards contained in the control panel. Service on these cards is to be made by your dealer only.

NOTE

Loose connections account for many of the problems encountered with an electric vehicle. To eliminate these problems all electrical connections should be checked for tightness on a regular basis.

TIRES AND WHEELS

Proper tire inflation pressure is an important factor in determining tire life. Pressures should be checked and corrected, if necessary, on a monthly basis according to the following table.
SERVICE AND MAINTENANCE

Tire Inflation  Soil  Hard Surface
Front ................. 10-15 psi\(^1\)  15-28 psi\(^2\)  Rear ................. 8-10 psi  10-24 psi

\(^1\) Lower pressure will soften the ride and improve traction.
\(^2\) The higher tire pressure will decrease rolling resistance and extend use range on paved or other hard surfaces (This does not apply to use with chains on hard surfaces.)

Pressure measurement should be made with a low pressure gauge which can be purchased from your dealer.

Stumps, holes, and sharp objects should be avoided, and any cuts occurring in the tires should be repaired immediately or tire life will be reduced.

The rear wheels are factory-assembled in their narrow tread configuration. (See Figure 14.) For greater safety when operating on hillsides, tread width may be increased by reversing the wheels on the hubs. (Remove and reinstall like changing an auto tire.) Use with chains requires the lowest pressures for smoothest ride and maximum traction.

Figure 14. Rear Tread Configurations

**BRAKE AND PARKING BRAKE**

A fully depressed brake pedal or an engaged parking brake should be sufficient to prevent the tractor from rolling on average hillsides. If the brakes do not perform satisfactorily, the following adjustment may be made which will correct brake simultaneously: (See Figure 15).

1. Block front wheels and move range selector to neutral.
2. Remove rear wheel on brake side of transaxle.

Figure 15. Brake Switch Adjustment

3. Disconnect brake pedal return spring where it is attached to the rear end of the brake rod.
4. Remove cotter pin and finger tighten castle nut until the brake friction pads prevent turning the brake disk by hand.
5. Slowly loosen castle nut until brake pedal touches foot rest.
6. Tighten castle nut two full turns.
7. Replace cotter pin and return spring.
8. Test brake.

**BRAKE SWITCH**

Proper brake switch adjustment causes the drive motor to shut off when the brake is depressed to 1/4 inch from its bottom stop. See Figure 15.

If adjustment is necessary, locate the brake switch mounted on the underside of the frame immediately to the right of the brake pedal. Notice that the switch is actuated when its lever arm is deflected as the brake pedal is depressed. During this actuation, the lever arm rides on a shoulder bolt mounted on a slotted pawl. It is this bolt that must be repositioned in the pawl to adjust the drive motor/brake cut off point. After adjustment is made, check the cut off point and readjust if necessary.

**STEERING ASSEMBLY**

The front axle and steering system of the ELEC-TRAK tractor are extremely rugged. Toe-in, and steering gear and linkage are carefully adjusted at the factory and should require no additional adjustments in normal service, barring improper operation. If any service becomes necessary, contact your dealer.

**USE OF CHAINS**

Chains on the rear tires will be found helpful on loose or soft surfaces, and particularly when using the snowthrower which, when lifted, counterbalances some of the weight off the rear wheels. When chains are used, locate the rear wheels on the hubs so that they are at the widest spacing.
SERVICE AND MAINTENANCE

(The wheel rims can be bolted to the hubs with most of the width of the tire to the inside, under the fender; or can be flipped over with more of the width to the outside, leaving approximately 4 inches space between the tire and the tractor frame.) This wide track also improves stability for snow removal service. If wheels are removed to obtain wide setting, assemble chains while wheel is off. If wheels are already set wide, chains may be assembled in normal manner with wheels left in place. Do not allow excess chain to rub or contact tractor body or frame.

OUTSIDE STORAGE

Your tractor should be covered or under a roof in outside storage in snowy or rainy weather to give better protection and maintain performance and life of the equipment. Storage covers are available from your dealer which are custom tailored for your ELEC-TRAK tractor and rotary mower. See Figure 16.

Seasonal storage requires a minimum of preparation. The steps to be performed are as follows:

1. Wherever possible, store tractor in a cool, dry weather protected area or cover with the ELEC-TRAK storage cover.

2. Clean power pack covers if necessary as outlined on page 11.
3. Plug charger into approved receptacle and start charger operation. Insure proper water level after first day (24 hours) (See page 9).
4. Lubricate tractor and wipe oil on any parts that may be affected by rust.
5. Leave charger plugged in for the duration of storage period and recycle its operation monthly.

The charge retention (without using additional electricity for recharging) of the power pack can be extended considerably if stored in a very cool place. Lower temperature slows the self-discharge. At temperatures below 40°F, virtually no self discharge occurs.

NOTE

At temperatures below 32°F the full charge state must be maintained to prevent cell electrolyte from freezing which may result in permanent damage to power pack.

Figure 16. Storage Covers
PERIODIC SERVICE CHART

<table>
<thead>
<tr>
<th>Service</th>
<th>Monthly</th>
<th>Every 100 Operating Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check power pack water level</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Check tire pressures</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Check drive belt tension</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Check transaxle oil level</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Clean power pack top surfaces if necessary</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Check fasteners and connectors for tightness</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Grease wheels, spindles and steering assembly</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Oil exposed moving parts – brake pedal, hinges, etc.</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

SPECIFICATION CHART

General

- Width ........................................ 39 inches
- Length (Overall) ............................ 69 inches
- Height (Overall) ............................. 42 inches
- Weight ...................................... 896 lbs.
- Turning Radius (inside) .................... 47 inches
- Frame ........................................ Unitized
- Accessory Outlet (36 volt) ................ Standard
- Brake ......................................... Disc
- Front Tires .................................. 6.50 X 8
- Rear Tires .................................... 10.50 X 12
- Seat ........................................... Adjustable Back

Drive System

- Heavy Duty 36 volt .......................... Standard
- Transaxle .................................... 4 Speed
- Transaxle Oil Capacity ..................... 4 US Pints
- Cruise Control ............................... Standard
- Speed Control ................................ Foot Operated
<table>
<thead>
<tr>
<th>Indication</th>
<th>Possible Causes</th>
</tr>
</thead>
</table>
| Drive motor does not rotate and Fuel Level Gauge does not indicate. | • Control fuse open.  
• Power Disconnect disengaged.  
• Circuit Breaker opened. |
| Drive motor does not rotate and Fuel Level Gage indicator is upscale. | • Key switch not “On”.  
• Parking brake engaged.  
• Momentarily return speed control to neutral, then restart.  
• Check connections on either brake or seat safety switches. |
| Cruise control does not engage.                                  | • Proper forward speed (cruise light on) not attained or passed before cruise switch is pressed.                                             |
| Reverse lamp does not light.                                     | • Cruise switch released before foot speed control.  
• Bulb burned out.                                                   |
| Reduced tractor range.                                           | • Charger not turned to proper “start” setting.  
• Brake dragging. Check adjustment.  
• Check water level in power pack.  
• Check drive belts for slipping.  
• Underinflated tires.                                               |
| Power Pack not charging.                                         | • Power disconnect disengaged.  
• Circuit breaker opened. Reset manually.  
• 110 volt line receptacle inoperative due to open household fuse or circuit breaker.  
• Failure to turn charger knob to start position.                   |
| Lights inoperative.                                              | • Light fuse open.  
• Bulbs burned out.                                                   |
| Lift inoperative.                                                | • Lift fuse open.  
• Lift motor connections loose.  
• Circuit breaker opened, wait briefly for automatic reset.         |
| PTO equipment inoperative but other circuits operative.          | • Sit on tractor seat, turn key switch to “On”, turn PTO switch to “Off”, then “On”.  
• Check attachment plug-in.                                          |
| Accessory tools inoperative.                                     | • Power disconnect disengaged.  
• Circuit breaker open. Reset manually (see Pg. 8).  
• Check tool plug-in for loose connection.                           |
# ELEC-TRAK ATTACHMENTS & ACCESSORIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Attachments</strong></td>
<td></td>
</tr>
<tr>
<td>AA42</td>
<td>42&quot; Rotary Mower (2)</td>
</tr>
<tr>
<td>AR57</td>
<td>3 Gang Reel Mower</td>
</tr>
<tr>
<td>AB48</td>
<td>48&quot; Snow/Dozer Blade (3)</td>
</tr>
<tr>
<td>BV48</td>
<td>45&quot; V-Plow Blade with Gauge Shoes (3)</td>
</tr>
<tr>
<td>AD42</td>
<td>42&quot; Snow Thrower (3, 4)</td>
</tr>
<tr>
<td>SG1</td>
<td>Rotobiller (5)</td>
</tr>
<tr>
<td>AF12</td>
<td>12 Cu. Ft. Dump Cart (1/2 ton cap.)</td>
</tr>
<tr>
<td>AS31</td>
<td>31&quot; Trailing Lawn Sweeper (6, 1)</td>
</tr>
<tr>
<td>AG55</td>
<td>Enclosed Cab</td>
</tr>
<tr>
<td>BD22</td>
<td>Double Seat</td>
</tr>
<tr>
<td>BC11</td>
<td>Canopy Top</td>
</tr>
<tr>
<td>BG33</td>
<td>Golf Bag Holder</td>
</tr>
<tr>
<td>BL30</td>
<td>Homeowner's Front Platform Lift</td>
</tr>
<tr>
<td><strong>Kits</strong></td>
<td></td>
</tr>
<tr>
<td>KR42</td>
<td>Rear Mower Discharge Kit</td>
</tr>
<tr>
<td>KS42</td>
<td>Side Mower Discharge Kit</td>
</tr>
<tr>
<td>KS31</td>
<td>Electric Lawn Sweeper Conversion Kit (less motor)</td>
</tr>
<tr>
<td>211A534356G1</td>
<td>Motor for KS31 Conversion Kit</td>
</tr>
<tr>
<td><strong>Hand Tools</strong></td>
<td></td>
</tr>
<tr>
<td>TM3</td>
<td>36 Volt D.C. Power Handle (7)</td>
</tr>
<tr>
<td>TH20</td>
<td>1/4&quot; Drill Head (for TM3)</td>
</tr>
<tr>
<td>TH30</td>
<td>3/8&quot; Drill Head (for TM3)</td>
</tr>
<tr>
<td>TH70</td>
<td>16&quot; Hedge Trimmer Head (for TM3)</td>
</tr>
<tr>
<td>TH80</td>
<td>Grass Trimmer Head (for TM3)</td>
</tr>
<tr>
<td>HS13</td>
<td>Chain Saw (13&quot; bar) (7)</td>
</tr>
<tr>
<td>**Model</td>
<td>Description</td>
</tr>
<tr>
<td>HC05</td>
<td>Weeder/Cultivator (8)</td>
</tr>
<tr>
<td>HE06</td>
<td>Lawn Edger/Trimmer (8)</td>
</tr>
<tr>
<td>HT25</td>
<td>25 Ft. D.C. Extension Cord</td>
</tr>
<tr>
<td>AP10</td>
<td>Hydrometer (Hydro-Mite)</td>
</tr>
<tr>
<td>AP11</td>
<td>Hydrometer (Specific Gravity)</td>
</tr>
<tr>
<td>AP12</td>
<td>Measured Battery Filler (1)</td>
</tr>
<tr>
<td>AP14</td>
<td>Tire Gauge (0-20 lb.)</td>
</tr>
<tr>
<td>AP20</td>
<td>Blade Sharpener (for TH20)</td>
</tr>
<tr>
<td>AP25</td>
<td>Mower Blade</td>
</tr>
<tr>
<td>AP29</td>
<td>Yellow Spray Paint</td>
</tr>
<tr>
<td>AP30</td>
<td>Yellow Touch-up Paint (Pint can)</td>
</tr>
<tr>
<td>AP31</td>
<td>Battery Terminal Protector (Grease)</td>
</tr>
<tr>
<td>AP35</td>
<td>Grease Gun</td>
</tr>
<tr>
<td>AP36</td>
<td>Grease Cartridge (for AP35)</td>
</tr>
<tr>
<td>AP50</td>
<td>Sleeve Hitch</td>
</tr>
<tr>
<td>AP51</td>
<td>Safety Hitch Pin (1/2&quot;)</td>
</tr>
<tr>
<td>AP63</td>
<td>Tiller Mounting Bracket</td>
</tr>
<tr>
<td>AP63</td>
<td>Convenience Pin Hitch</td>
</tr>
<tr>
<td>AP65</td>
<td>Front Implement Mounting Bracket</td>
</tr>
<tr>
<td>AP58</td>
<td>Manual Rear Lift (for Sleeve Hitch)</td>
</tr>
<tr>
<td>AP59</td>
<td>Electric Lift (rear)</td>
</tr>
<tr>
<td>AP68</td>
<td>10.50 x 12 - 2 Link Tire Chains</td>
</tr>
<tr>
<td>AP69</td>
<td>Electric Horn Kit</td>
</tr>
<tr>
<td>AP70</td>
<td>Rear Tail Light Kit</td>
</tr>
<tr>
<td>AP80</td>
<td>Tractor Cover</td>
</tr>
<tr>
<td>AP81</td>
<td>Mower Cover</td>
</tr>
<tr>
<td>AP65</td>
<td>Rear Weight Box</td>
</tr>
<tr>
<td>AP90</td>
<td>D.C. Arc Welder - 3 Heat</td>
</tr>
<tr>
<td>AP92</td>
<td>Welder Kit (Helmet, gloves, &amp; welding rods)</td>
</tr>
</tbody>
</table>

## NOTES

1. Available April, 1971
2. Requires KR42 or KS42 Discharge Kit
3. Requires AP56 Front Implement Mounting Bracket
4. Requires AP6 Weight Box
5. Available from Brinly-Hardy, 340 E. Main St., Louisville, Ky. 40242. Requires Brinly mounting bracket and AP69 Electric Lift.
6. Can be electrified with KS31 Kit and Mower Motor
7. Includes 20 ft. of cord
9. Available from Brinly-Hardy
WARRANTY
ELEC-TRAK GARDEN TRACTOR

General Electric Company warrants that it will repair or replace without charge, including cost of parts and labor for replacement, any part of the ELEC-TRAK garden tractor, mower, snow thrower, and dozer blade attachments with which this warranty is furnished which proves to be defective in material or workmanship within 12 months in ordinary home use (3 months if in commercial or institutional use) following the date of sale to the original purchaser for use. This warranty does not apply to the power pack, which is separately warranted and offers additional replacement coverage. These warranties do not apply to any repair or replacement made necessary by improper use or maintenance, or by abuse or accidental damage.

The foregoing warranty states the entire obligation of General Electric Company with respect to said products and is in lieu of any and all other warranties, express or implied. NO WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT WILL THE COMPANY BE LIABLE FOR INDIRECT OR CONSEQUENTIAL DAMAGES.

WARRANTY
ELEC-TRAK GARDEN TRACTOR POWER PACK

General Electric Company warrants that it will replace without charge, f.o.b. factory, any individual ELEC-TRAK garden tractor power pack unit with which this warranty is furnished if it fails because of defects in material or workmanship within 24 months in ordinary home use (six months in commercial or institutional use) following the date of sale to the original purchaser for use. After 24 months in home use, but within 60 months following the date of such sale a power pack will be replaced at a pro rata service charge equal to 1/60th of the list price for replacement units multiplied by the number of months which have elapsed from the date of original purchase to the date of failure. Labor and service call charges during the first 12 months in ordinary home use (3 months if in commercial or institutional use), will be covered as stated in the tractor warranty. Service calls and labor after the first 12 months are the responsibility of the owner. This warranty does not apply to any replacement made necessary by improper use or maintenance, or by abuse or accidental damage. A replacement unit will carry the above 24 month warranty and thereafter will be considered to be installed on the same date as the other units in the power pack for pro rata adjustment.

The foregoing warranty states the entire obligation of General Electric Company with respect to said products and is in lieu of any and all other warranties, express or implied. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT WILL THE COMPANY BE LIABLE FOR INDIRECT OR CONSEQUENTIAL DAMAGES.

OUTDOOR POWER EQUIPMENT OPERATION
CORPORATIONS PARK
SCHENECTADY, NEW YORK 12305

GENERAL ELECTRIC