INVERTER

Model AP60
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## SAFETY FIRST

1. Each operator should fully understand the entire contents of this manual before use.

2. The inverter must only be plugged into the Elec-Trak tractor accessory receptacle (36-volts d-c). Use with any other power source may cause the unit to malfunction and could cause a hazardous condition.

3. Never use the inverter if it is wet or in wet areas, to prevent any possibility of electric shock.

4. Never attempt to operate the inverter while the charger is plugged in, to avoid possible shock hazard and damage to equipment.

5. To prevent accidental tractor movement while using the inverter, turn the key switch off and set the parking brake.

6. The inverter should be used with the same caution as any other source of 117-volt a-c power.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.
DESCRIPTION

The Elec-Trak Inverter, Model AP60, is a self-contained accessory that uses the 36-volts d-c available from the tractor power pack to produce 117-volt a-c. The inverter is designed to continuously supply power to a-c equipment whose requirements do not exceed the output specifications.

APPLICATION

Some of the a-c equipment that can be operated from the inverter includes garden tools, heaters or lighting, handcraft tools such as drills and sabre saws, barbecue heaters, rotisseries, radios and small kitchen appliances.

Other equipment, although rated below the maximum inverter output specifications, may not be operable from the inverter because of the excessive starting currents required. If equipment which subjects the inverter to overloads is used, no damage will result, since internal circuitry automatically senses the overload and shuts the inverter off. A-c devices that may produce this starting overload condition are induction or capacitor start motors, split-phase motor compressors, and large fans. This means that refrigerators, freezers, drill presses, and so forth cannot be powered from the inverter.

OPERATION

To operate the inverter, the power cord must be plugged into the Elec-Trak tractor accessory receptacle. After insertion into the receptacle, the plug is locked in place by turning it slightly to the right. The a-c equipment power cord can then be plugged into the inverter output receptacle and the inverter switch turned to "On". Power is now available to the a-c equipment.

NOTE: The power disconnect must be engaged while using the inverter.

The inverter protective circuitry may trip during overloads due to starting current demands or excessive power requirements of the a-c equipment. When this occurs, the inverter can be restarted by turning the inverter switch off and then back on. To reduce starting currents, all equipment should be started unloaded.

Additional protection is provided to guard against long-term loading of approximately 10-amperes, which may cause overheating. This protection is provided by a 3AG30 fuse in the input wiring of the inverter and is physically accessible by unscrewing the fuse cap on the back surface of the inverter. This is a standard fuse which is available from most automotive supply shops or your Elec-Trak tractor dealer.

The voltage of the Elec-Trak power pack is a nominal 36-volts when fully charged. When the inverter is used for extended periods, discharging eventually reduces the power pack voltage. When the input voltage becomes less than 32-volts, the inverter automatically shuts off to prevent damage to the power pack. When this occurs, the power pack must be recharged before the inverter can be turned on again. To restart the inverter, turn its switch to "Off" and then to "On".

WARNING: Never attempt to operate the inverter while the charger is plugged in, to avoid possible shock hazard and damage to equipment. Treat the inverter as cautiously as any other source of 117-volts a-c, such as your outside residential electrical outlets.

INSTALLATION

The inverter can be permanently mounted in the area under the tractor hood by replacing the thumb screw securing the front battery hold-down clamp with the threaded stud provided with the inverter. Thread this rod into the clamp approximately 3/8-inch and place the inverter over the stud so its output receptacle faces forward and is at the top of the inverter. Secure the inverter with the nut and lockwasher supplied. Be sure the charger plug is removed from the wall receptacle and plug the inverter into the tractor accessory receptacle with a slight twist to the
right to lock it in the receptacle. The inverter is now ready for use by simply plugging the a-c equipment into the inverter outlet.

**NOTE:** After use of the inverter, unplug its power cord from the tractor to prevent power pack discharge.

**CARE AND MAINTENANCE**

The inverter should be maintained in good mechanical condition to avoid unnecessary hazards and service. The enclosure should be kept clean and free from dirt and grease; and the power cord should be frequently inspected for wear and damage, and should be replaced if damaged insulation or exposed bare conductors are observed. The cord should be kept dry and free from grease and oil.

If used outdoors, the inverter should be protected from moisture, but any protective covering must not obstruct its ventilation.

While using the inverter during windy periods, the tractor hood should be closed to prevent the wind from blowing the hood down on the power cord.

When not in use, unplug the inverter power cord and store the equipment in a clean, dry place.

If the inverter wire becomes wet, it should be thoroughly dried before using it again.

Any service that may be required for the inverter other than fuse replacement must be performed by your Elec-Trak tractor dealer. Unauthorized service voids your warranty and could cause a malfunction or hazardous condition for both the tractor and the operator.

**SPECIFICATIONS**

**Input:**

- Voltage (nominal) . . . . . . . 36-volts d-c
- Current (no load) . . . . . . . 2-Amperes

**Output:**

- Voltage (nominal) . . . . . . . 117-Volts a-c
- Current (maximum) . . . . . . 10-Amperes
- Power (maximum) . . . . . . . 1000-Watts

**INVERTER WARRANTY**

General Electric Company warrants that it will repair or replace without charge, f.o.b. factory, any part of the ELEC-TRAK inverter 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 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 OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY. IN NO EVENT WILL THE COMPANY BE LIABLE FOR INDIRECT OR CONSEQUENTIAL DAMAGES.