

INSTALLATION INSTRUCTIONS FOR THE
ROTARY INVERTER. PART NO. 120641.



985857

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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 Electric 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 120-volt a-c power.

DESCRIPTION

The Electric Rotary Inverter, is a self-contained motor-generator that uses the 36 volt d-c available from the tractor power pack to produce 120 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 kitchen appliances. Frequency sensitive devices such as clocks and timers should not be powered by the inverter.

The Electric Rotary Inverter, may also be used as an emergency power source to operate equipment such as furnaces, refrigerators, and sump pumps. In general, induction motors up to 1/2 hp can be operated. If prolonged overloads exist, the inverter will be protected by the operation of the overload protector.

OPERATION

To operate the inverter the power cord must be plugged into the Electric Tractor accessory receptacle. After insertion into the receptacle, the plug is locked in place by turning it slightly to the right. The inverter will then be energized and this can be noted by a normal motor sound. Power is now available at the outlet plug of the inverter.

OVERLOAD PROTECTION

The power disconnect must be engaged while using the inverter. The inverter circuit breaker may trip during overloads. When this occurs, allow a few minutes for the inverter to cool off and then reset the overload device by pressing the button at the end of the inverter. To reduce starting currents all equipment should be started unloaded.

The voltage of the Electric tractor is a nominal 36 volts when fully charged. When the inverter is used for extended periods, discharging eventually reduces the power pack voltage. With a fully charged power pack, the inverter output voltage will be in a normal range of 105 to 130 volts AC. When the power pack voltage drops to 32 volts, the output voltage of the inverter drops to a range of 95 to 115 volts AC. This low voltage will do no harm to the inverter, but operation should be discontinued.

INSTALLATION

To save energy from the power pack, disconnect the inverter by removing the power cord at all times when equipment is not actually being used.

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.

The inverter is equipped with a carrying handle so that it can be placed in any convenient position on or near the Electric Tractor.

NOTE: After use of inverter, unplug its power cord from the tractor to conserve power pack energy.

CARE AND MAINTENANCE

The inverter should be maintained in good mechanical condition to avoid unnecessary hazards in service. The enclosure should be kept clean and free from dirt and grease and the power cord should be periodically inspected for wear and damage, and should be replaced if necessary. 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.

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

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

Any service that may be required for the inverter should be performed by your dealer. Unauthorized service may void the warranty and could cause a malfunction or hazardous condition for both the tractor and the operator.

SPECIFICATIONS

Input:

Voltage (nominal) 36 v dc

Current (no load) 3 amps

Output:

Voltage (nominal) 120 v ac

Current (maximum cont.) 10 amps

Power (maximum cont.) 1000 watts

Frequency (nominal). 60 Hertz