



Green Products

INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS CONTROL-X2 ELECTRONIC ENGINE BLOCK CONTROLLER

GENERAL

The CONTROL-X2 Electronic Controller is installed at a suitable location to provide electronic controlled operation of engine block heaters.

INSTALLATION

The CONTROL-X2 controller can be installed at the designated location that provides 120 volt 60 Hz power source. This location is outdoors to provide controlled operation of engine block heaters from the attached NEMA 5-15 receptacle.

The CONTROL-X2 controller is not to be installed or used indoors.

Assembly: No assembly is required.

Location: The CONTROL-X2 is furnished with either NEMA 5-15 Plug or custom input cable (AWG 14/3), which requires hard wiring directly into 120 volt 60 Hz power source. Electrical installation must adhere to the following standard connection colors.

- **BLACK** = AC power at line voltage (120v 60Hz).
- **WHITE** = AC neutral conductor at less than line voltage.
- **GREEN** = equipment grounding conductor.

Precautions: Turn off main power switch prior to installation of units which require direct hard wiring into 120 volt 60 Hz power source.

OPERATION

If wired directly to the 120 volt 60 Hz power source or plugged into the power source via the NEMA 5-15 plug, the CONTROL-X2003 controller will operate continuously in a stand-by mode of operation, consuming only parasitic power as long as there is no connection to the engine block heater or when there is no call for heat.

When temperatures dictate controlled operation, (call for heat), only then will electrical power pass through the controller, energizing the engine block heater that is connected through the output cable via the NEMA 5-15 Receptacle.

Control: The CONTROL-X2 electronic controller periodically measures temperature and modulates the block heater, on and off per temperature profiles, saving electrical energy and reducing the combined ON hours of operation for the engine block heater.

MAINTENANCE

Disconnect all power before performing any maintenance or service

Interval: seasonally or whenever it has been reported that the CONTROL-X2003 controller may have been exposed to accidental trauma.

Inspection-cables: Inspection of the input cable, output cable, cord grips, and electrical plug and receptacle. Visually inspect the cable for cuts, abrasions, cracking, and damage. The molded plug and receptacle should be visually inspected for damage or wear and also the general overall condition of the electrical contacts (bent, loose, and broken) Inspect the two cord grips for wear and or damage at the points where the input and output cables exit and where the cord grips are mounted through and into the polycarbonate enclosure.

Inspection-enclosure: Inspect the polycarbonate enclosure and enclosure cover for overall integrity, cracks, and fractures. Visually inspect the gasket seal and seal area mating surfaces for problems by peering through the transparent cover. Removing the cover is **NOT** required. Inspect the four SS enclosure cover screws, make sure they are all present and do not appear loose or damaged. Look for signs of water accumulation or anything that may indicate breach of seal.

Action: In the event of any problems found during the inspection or otherwise. Decommission the CONTROL-X2 controller from all operation by disconnecting it from the power source. Contact ELEproducts.com for repair.

WARRANTY

Warranty period to product only is one year from date of purchase against manufacturing defects.

Service/Repair

Repair and or service to the CONTROL-X2 controller is available by contacting ELEproducts.com