

ACU Troubleshooting Guide

This document is for ACUs with the first two digits of the serial number starting with 12***** or higher. Contact MEPS for assistance with units that have a serial number 11***** or lower

Problem: MEPS system not producing power

Does the cooling fan inside the ACU turn on?

- YES, then the system is producing AC voltage and the problem is in the wiring or loads.
- NO – check which Remote Panel lights are on.
 - **No lights are on**
 - Check that there is 12 volts dc on the Black and Blue pins of the 6 pin IGN plug going into the ACU.
 - No 12 volts
 - Check that vehicle battery is producing 12 volts
 - Check the in-line fuses in the Red and Black wires going to the IGN plug and replace as needed. (3-amp Standard fuse)
 - Fuses good or fails after being replaced
 - **Call MEPS Service Dept. 972-864-1015**
 - Only **STANDBY** on
 - Be sure that the POWER ON switch on the Remote is in the ON position.
 - If OFF – Turn ON and check if the POWER ON light comes on.
 - Check that the cooling fan inside the ACU starts.
 - Fan turns – system is producing AC power
 - Fan does not turn
 - **Call MEPS Service Dept. 972-864-1015**
 - Only **Low Battery** on
 - Check that there is at least 12 volts dc on the Black and Blue pins of the 6 pin IGN plug going into the ACU.
 - Less than 12 volts dc on IGN plug indicates a problem with the vehicle battery or wiring.
 - 12 volts or higher on Black / Blue pins
 - **Call MEPS Service Dept. 972-864-1015**
 - **OVERLOAD** light on
 - With Output Plug disconnected. The Output is the “large” Black, Green, White Plug. (Turn off engine before disconnecting)
 - Start the engine and turn on MEPS system.
 - **OVERLOAD** light is not on and fan in ACU turns
 - There is short in the loads or the wiring going to the loads
 - **OVERLOAD** light is still on
 - Problem is in the ACU
 - **Call MEPS Service Dept. 972-864-1015**

- **HI TEMP CONVERTER** light is on.
 - ACU is overheating. Note: The system may turn back on when ACU cools down, then off after it heats up again.
 - The ACU should not be enclosed without proper air flow into and out of the enclosure.
 - Be sure that the ACU internal fan is turning and there is nothing blocking the flow of air.
 - Air flows into the ACU on the end with the fan guard, then out the opposite end.
 - If air flow is not blocked and fan is turning.
 - **Call MEPS Service Dept. 972-864-1015**
- **PERCENT POWER** full – **LOW SPEED** on, then **POWER FAULT** on and system turns off for 5 seconds. Cycle repeats 5 times then system turns off and all red lights flash.
 - Generator rpm too slow for load.
 - Increase engine rpm or decrease load.
 - Throttle Control (if equipped) not causing the engine rpm to increase.
 - Perform **GENERATOR TEST** (ohms test)
 - Contact MEPS Service Dept. for a copy of the **GENERATOR TEST**. 972-864-1015.
- **PERCENT POWER** and **POWER ON** lights are flashing then **LOW SPEED & POWER FAULT** flash together
 - Indicates that the ACU does not detect a turning generator or one or both fuses (F1, F2) are bad. Fuses are located on the ACU chassis end that has the fan guard and plugs / connectors
 - Inspect the generator
 - Belt is on
 - Generator turns freely with no unusual noise
 - Clutch pulley (if equipped) is working
 - Perform **GENERATOR TEST** (ohms test)
 - Contact MEPS Service Dept. for a copy of the **GENERATOR TEST**. 972-864-1015.

This document does not address all possible issues. If the problem you are having is not listed, call **MEPS Service Dept. 972-864-1015**