

ElectroStrainer/ClearLine Troubleshooting Guide

Control Unit Failure

Control Unit Power Source

The Control Unit for both ElectroStrainer® and ClearLine® systems should be connected to an always-on, 12- or 24-VDC power source.

MODEL	POWER SOURCE
ElectroStrainer ES-100	12 or 24 VDC
ElectroStrainer ES-125	12 or 24 VDC
ElectroStrainer ES-150 or ES-150-PS	24 VDC
ElectroStrainer ES-200 or ES-200-PS	24 VDC

MODEL	POWER SOURCE
ClearLine CL-410	12 or 24 VDC
ClearLine CL-430	12 or 24 VDC
ClearLine CL-990	24 VDC
ClearLine CL-1000	24 VDC
ClearLine CL-2000	24 VDC

ElectroStrainer ES-100 and ES-125 Control Units should be connected to either a 12- or 24-VDC power source, and ES-150, ES-150-PS, ES-200, and ES-200-PS Control Units must be connected to a 24-VDC power source.

ClearLine CL-410 and CL-430 Control Units should be connected to either a 12- or 24-VDC power source, and CL-990, CL-1000, and CL-2000 Control Units must be connected to a 24-VDC power source.

Control Unit Display Blank

If the Control Unit is switched ON and connected to DC power, but the display is blank, it's likely that an electrical event affected the DC-power source, causing internal damage to the Control Unit. The Power Indicator Light on the front of the Control Unit may or may not be illuminated. In either case, use the following troubleshooting steps to check for common connection or power issues:

1. Ensure the ON/OFF Switch on the bottom left corner of the Control Unit is in the ON position.

2. Verify the Control Unit is connected to the appropriate DC power source (as described above) and that the breaker is ON. If a fuse is installed, check that the fuse is not blown and that it is fully connected in its holder.
3. Verify the Circuit Breaker on the left side of the Control Unit is fully pressed in.
4. Ensure the Power Cable is not mounted too tightly or being strapped in a way that stresses the plug.
5. Use a multimeter to verify the correct, constant DC voltage is being supplied to the Control Unit Power Cable: Turn the breaker OFF. Unplug the Power Cable from the Control Unit. Insert the positive probe into the red plug end and insert the negative probe into yellow plug end, ensuring both probes are making good contact with the metal plug. Take a voltage reading. Turn the breaker ON and confirm the voltage is correct for the ClearLine/ElectroStrainer Control Unit installed.
6. Inspect the Power Cable plug pins and wires to make sure connections are tight and no damage is observed.

Next Steps

If the display remains blank after completing the above steps, return the Control Unit to ElectroSea for repair. Please contact ElectroSea Service at support@electrosea.com or (561) 257-5739 to obtain an RMA number and shipping instructions. Pricing for repair is shown in the table below:

IMPORTANT: The above information is not applicable to ElectroStrainer Pro or Sport models.

