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# SAFETY NOTIFICATION

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## Lamp Power Supply (LPS), CP2230 Projectors ,& Extractor Unit Power Connection Issues

### Applies to the Following:

CP2230 Lamp Power Supply (P/N: 127-101103-01)

On some Lamp Power Supplies (LPS) the live and neutral lines on the Extractor Unit and Projector power connectors may have inadvertently been reversed during manufacturing. Risk of injury exists only in installations where the LPS (P/N: 127-101103-01) is powered by 3-phase 380-400V AC. This does not affect LPS's powered by 3-phase 200-240VAC because the power connectors are always wired line to line from the 3-phase input and there is no neutral line.

### Risk to Service Technicians

This could pose a safety concern to any technician servicing the Projector or Extractor Unit while it is powered through the LPS connectors. In this case any blue AC wiring expected to be neutral could be live and the brown AC wiring expected to be live could be neutral. An individual who touches neutral circuitry during the course of servicing may receive an electric shock. A simple check with a voltmeter can verify whether the connections have been reversed. For details, refer to **Check Power Connectors**, below. This will not affect the operation of the projector or the extractor and does not pose a safety concern to the operator.

### Safety Precautions



**ELECTRICAL SHOCK HAZARD!** Always turn off, disconnect, and disengage all power sources to the projector before servicing. Failure to comply results in death or serious injury.



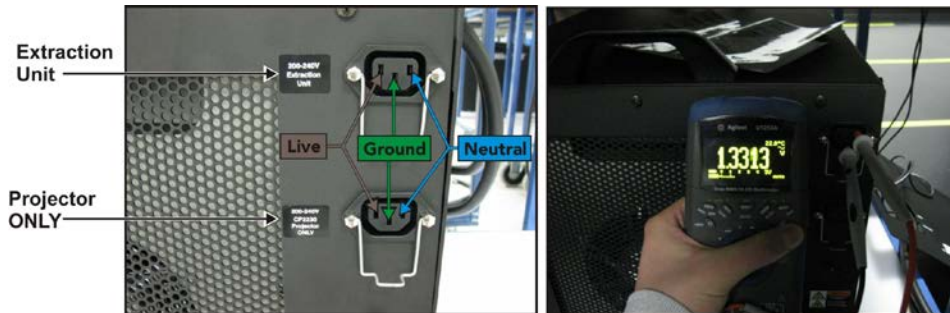
Only Christie accredited service technicians are permitted to open any enclosure on the projector and only if the AC power has been fully disconnected. Failure to comply could result in minor or moderate injury.

### Check Power Connectors

**⚠ WARNING** Ground (earth) connection is necessary for safety. Never compromise safety by returning the current through the ground. Connect ground first to reduce shock hazard from high leakage.

1. Power the LPS with 3-phase 380-400V AC.
2. Measure the AC voltage between the neutral and ground terminals on the projector power connector and Extractor Unit power connector (**Figure 1**).
  - If the power connectors are connected properly the voltmeter should display close to 0 volts (1.33V AC shown). In this case no corrective action is required.

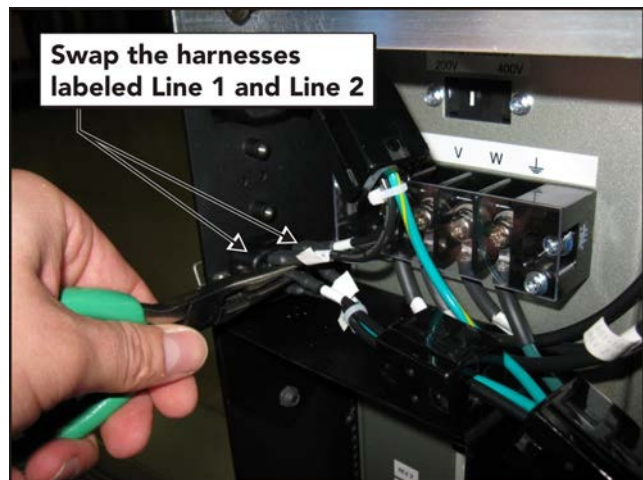
- If the voltmeter reads 200-240V AC from neutral to ground then the internal wires are reversed and should be swapped.



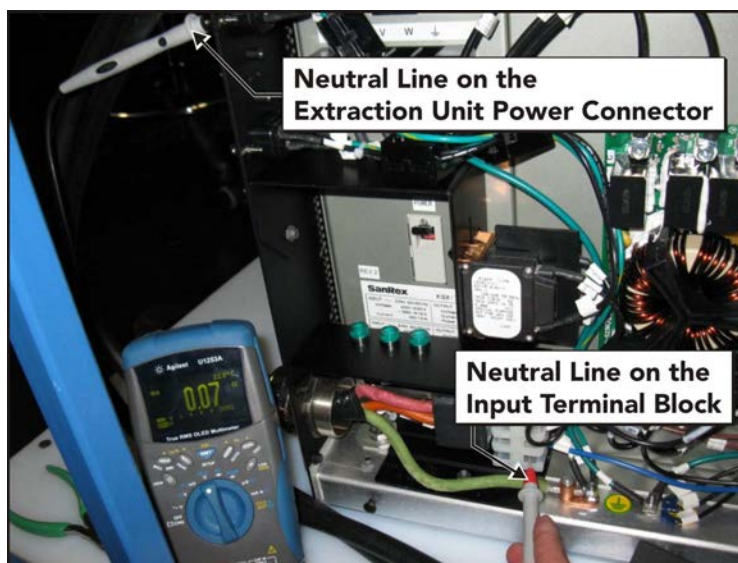
**Figure 1 Measure AC Voltage**

## Corrective Action

1. To correct the orientation of the internal wires remove all power from the LPS, then remove the side access panel (loosen 6 Phillips® screws) and swap the line 1 and line 2 harnesses on the connectors using needle nose pliers (**Figure 2**).
2. After swapping the harnesses switch the multimeter to measure resistance.
3. Measure between the neutral line on the projector power connector, the Extraction Unit power connector and the neutral line on the input terminal block. The multimeter should read close to 0 ohms (0.07 ohms shown below). If the multimeter is set to measure continuity the meter should beep. This test should be done for each of the projector and Extraction Unit power connectors (**Figure 3**).



**Figure 2 Swapping Harnesses**



**Figure 3 Measure Resistance**

4. After this test is performed replace the side access panel and power up the LPS. Measure the AC voltage between neutral and ground again. It should now be a near 0 reading.

**NOTE:** *The projector 200-240VAC power connector should be used for powering the projector **ONLY**. The Extraction Unit power connector should be used for powering an optional Extraction Unit **ONLY**. These power connectors are not intended for use with any other devices.*

## Contact Information

If you have any questions, please contact Christie Technical Support at 1-800-221-8025 (North America only) or via email at [tech-support@christiedigital.com](mailto:tech-support@christiedigital.com).