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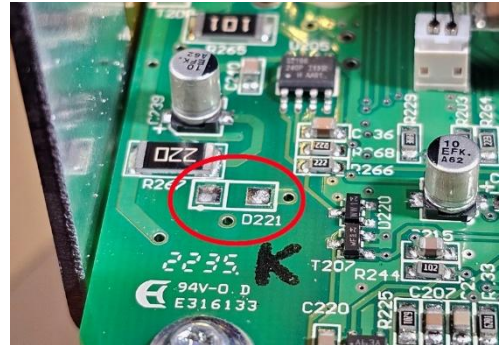
## Technical Note – ELC Pro HD – Error-3

The purpose of this technical note is to inform Elinchrom's repair centers of a manufacturing defect on the Power Board SMPS n°EL-270540ADJ in the ELC Pro HD 500 / 1000 units.

### *Issue detected:*

The D221 diode type US1M 1A/1000V n°EL-105013 is missing from a series of Power Board SMPS no. EL-270540ADJ

D221 is a clamping diode on a measure signal of the PFC (Power Factor Correction) of the supply. If the D221 is not mounted, the units work fine, but with potential instability with the charge regulation of the flash capacitors.



### *Consequence:*

This can randomly affect the ELC Pro HD 500 / 1000 with **error-3** detections, mainly when turning on the unit or during a burn-in test in the Service Menu.

This error-3 may appear more easily if the two flash capacitors 1500uF were stored for many years (spare parts); in this case, we recommend to rebooting the ELC Pro HD units until error-3 disappears and then immediately starting a burn-in test in the service menu.

### *Relevant units:*

Check any faulty ELC Pro HD 500 / 1000 that comes into your service department.

You also need to update your spare parts stocks of Power Board SMPS n° EL-270540ADJ

### *Solution:*

Weld the diode D221 n°EL-105013 as image



### *Where to get D221:*

The D221 diode is a common SMD diode of type US1M 1A/1000V, it can be found at an electronic component supplier or directly in a 20-pieces package from Aifo by sending an email to SAV@elinchrom.ch with the serial numbers of the units concerned.

