
Technical Information Bulletin

SLM Electronics, Inc. Saint Louis, Missouri, USA

Dec. 03, 2002

#TIB0005

Purpose:

The purpose of this bulletin is to provide a means to reduce the incidence of repeated tripping of the main fuses in some “W” (230 VAC) variants of Crate and Ampeg amplifiers. This anomaly occurs most often when these units are operated in locations where the nominal line voltage is greater than 230 VAC.

Description:

The repeated tripping of the main fuses subjected to nominal line voltages greater than 230 VAC will be significantly reduced by converting the affected “W” (230 VAC) variants of Crate and Ampeg amplifiers to “U” (240 VAC) variants.

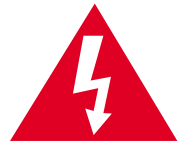
The conversion guidelines described herein refer to affected models produced after 1997. There are two (2) types of power supply transformers used in these units. Each has multiple taps that allow the transformer to be configured for proper operation under various line voltage standards. These transformers are differentiated by the color of the wire insulation used for the different taps.

Please consult Customer Service for models built prior to 1997 or models that may have had components replaced during prior service.

WARNING!



Do not continue with this conversion if the transformer wire colors or connections cannot be specifically identified. Immediately contact Customer Service for instruction should there be any variation between these instructions, the schematic or wiring diagram, or transformer wire colors in the model to be converted. Major damage can be inflicted if this conversion is performed incorrectly.



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Conversion Procedure:

This conversion consists of swapping the connections of two transformer tap connections located on the printed wiring board adjacent to the transformer. The connections should be verified on the appropriate schematic or wiring diagram (available from Customer Service) before performing the conversion.

Disconnect the line cord and any other input or output cables before beginning the conversion. Remove the chassis and covers as necessary in order to gain access to the power supply transformer wires and their associated connection points on the printed wiring board.

Verify that the power supply transformer wires include one of the following color combinations:

- Blue with white stripe wire (230 VAC primary connection) and brown wire (240 VAC primary connection)
- Gray with white stripe wire (230 VAC primary connection) and brown wire (240 VAC primary connection)

If one of the above described color combinations is not available, do not continue with the conversion. Contact Customer Service for further instructions.

If one of the above described color combinations is available:

- (1) Disconnect either the blue with white stripe wire or gray with white stripe wire from the printed wiring board.
- (2) Disconnect the brown wire from the printed wiring board.
- (3) Reconnect the brown wire to the point previously connected to either the blue with white stripe wire or gray with white stripe wire.
- (4) Connect either the blue with white stripe wire or gray with white stripe wire to the point previously connected to the brown wire.

Reassemble the chassis and/or covers and verify the operation of the unit.