

Introduction

The Classic450 is equipped with an intelligent protection system, ensuring that the amp does not suffer or malfunction if operated wrongly or in extreme environments.

General Protection Mode

The compression meter has five LEDs. If the two left LEDs and the two right LEDs start blinking alternately, the amplifier is in *Protection mode*.

Protection mode is invoked when, for some reason, a short-circuit situation occurs. In Protection mode, the speaker outputs are shut off so that the speakers cannot be damaged by a shortcut. However, even in General Protection mode, the balanced output and the effect loops out (SEND TUNER OUT) are still passing audio.

To solve the problem, try turning off the Classic450 for a minute and then turn it on again. If protection mode is still indicated, you will have to send the Classic450 to a qualified service-center for inspection.

Heat Protection Mode

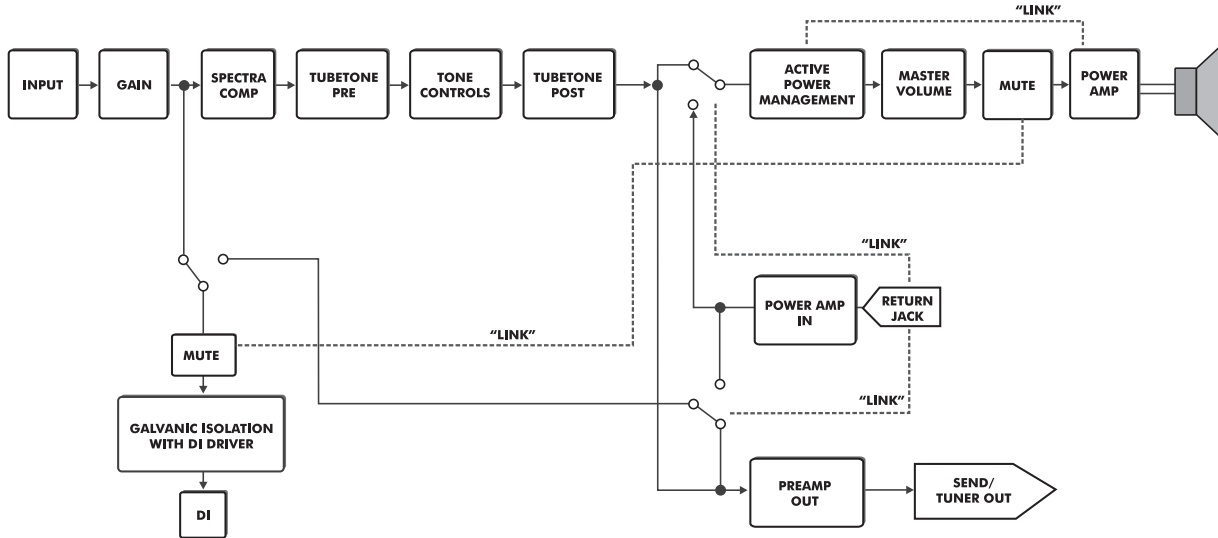
If the Peak LED lights up while the amp is in General Protection mode, the amp is too hot. This is rarely seen, but a few extreme situations can invoke this mode:

- a) If the amplifier is used in an environment that is too hot, or if proper ventilation is not ensured.
- b) Cabinets or combinations of cabinets must load the amplifier with a minimum of 4 Ohm. You can use a maximum of three RS cabinets or two 8 Ohm cabinets of any other brand. If e.g. the speaker output is loaded with only 2 Ohm or less and you drive the Classic450 at very high volumes over a long period of time, the amplifier enters Heat Protection mode.

In both situations, proceed as follows:

- Turn off the amplifier.
- Solve the issues.
- Allow the amplifier to cool off for a few minutes.
- Turn the amplifier on again.

APPENDIX – SIGNAL FLOW



APPENDIX – TECHNICAL SPECIFICATIONS

Input Section

Input connector	¼" jack
Input impedance	1 MOhm / 100 pF
Gain range	-96 to 32 dB

Tone controls

Bass	Freq: 200 Hz (Gain: +15/-24 dB) - Shelving type 3 dB slope
Low Mid	Center Freq: 400 Hz (Gain: +15/-24 dB)
High Mid	Center Freq: 800 Hz (Gain: +15/-24 dB)
Treble	Default Freq: 1600 Hz (Gain: +12/-24 dB) - Shelving type 3 dB slope

Tube Tone

0 to 10, Tube amp Recreation

Spectra Comp

3 band Spectral Compression

Mains supply

Universal 100 to 240V 50/60 Hz
(80 w @ 1/8 Power)

Speaker out

Combined Speakon / ¼" jack

Power rating

450 W (800 W Peak) @ 4 Ohm

Balanced output

Max. Output	Transformer Balanced XLR, Pre/Post Pre-amp +0 dBu
Minimum Load	4 Ohm

Master Level

0 to 10, Speaker Output Level

Tuner out

(Preamp out)

¼" Jack, Balanced Output,
Max. Output Level = +8 dBu

Power amp in

¼" Jack, balanced input, impedance =
10 kOhm, Max Input Level = +8 dBu

Dimensions

275 x 290 x 66 mm / 10,8" x 11,4" x 2,6"

Weight

4 kg / 8.8 pounds

Finish

Sandblasted die-cast aluminum

Due to continuous development, these specifications are subject to change without notice.

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