

Solid State Logic

O X F O R D • E N G L A N D

E Series EQ Module
for 500 Series Racks

User Guide

Safety and Installation Considerations

This page contains definitions, warnings, and practical information to ensure a safe working environment. Please take time to read this page before installing or using this apparatus.

General Safety

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Do not expose this apparatus to rain or moisture.
- Clean only with dry cloth.
- Do not block any ventilation openings.
- Install in accordance with the rack manufacturer's instructions.
- There are no user-adjustments, or user-servicable items, on this apparatus.
- Adjustments or alterations to this apparatus may affect the performance such that safety and/or international compliance standards may no longer be met.
- This apparatus is not to be used in safety critical applications

Caution

- This apparatus should not be used outside of the scope of API 500 series compatible racks.
- Do not operate this apparatus with any covers removed.
- To reduce the risk of electric shock, do not perform any servicing other than that contained in these Installation Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

Installation

- Ensure power is removed from the rack before fitting or removing this apparatus to or from the rack.
- Use the panel fixing screws supplied with the rack to secure this apparatus into the rack.

Standards Compliance

This apparatus is designed to be installed and used in API 500 series compatible racks which are CE marked. The CE mark on a rack is indicative that the manufacturer confirms that it meets both EMC and the Low Voltage Directive (2006/95/EC).



Instructions for Disposal of WEEE by Users in the European Union



The symbol shown here is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

Limited Warranty

Please refer any warranty claim to the supplier of this equipment in the first instance. Full warranty information for equipment supplied directly by Solid State Logic can be found on our website:

www.solidstatellogic.com

Introduction


Congratulations on your purchase of this API 500 series compatible SSL E Series EQ module.


This module has been specifically designed to operate in an API 500 series rack such as the API lunchbox® or equivalent. In common with many such modules, the nominal input/output level is +4dBu.

Your new E Series EQ module is a re-implementation of two of the classic SSL EQ circuits, dating back to the original E Series consoles. The module defaults to the original 'Brown Knob' circuit that was standard on all early production E Series consoles but can be switched to emulate the later 'Black Knob' circuit.

Operation

Please refer to the illustration on page opposite.

The IN button  switches the entire module in and out of circuit.

The BLK button  switches the module from the default 'Brown Knob' EQ to 'Black Knob' EQ.



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'Brown Knob' EQ

With the BLK button out, the two parametric mid-band sections feature SSL's classic logarithmically symmetric design ensuring that the $\pm 3\text{dB}$ up/down points retain the same musical interval from the centre frequency regardless of frequency and amplitude settings. The two shelving sections are traditional 6dB/octave designs with an option for a fixed Q parametric response (by way of the BELL button).

The '02' EQ, to give it its correct name, was used on countless recordings and mixes in the early eighties.

'Black Knob' EQ

In the mid-eighties a new '242' EQ circuit was developed in conjunction with the legendary George Martin for the first SSL console to be installed in AIR studios. The 'Black Knob' EQ, as it became known, featured enhanced cut and boost ranges ($\pm 18\text{dB}$ instead of $\pm 15\text{dB}$) together with a different control law for tighter control of low frequencies.

It is this design which is retained today as the 'E Series' EQ option of the Origin, AWS 924, AWS 948 and Duality consoles.

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As research and development is a continual process, Solid State Logic reserves the right to change the features and specifications described herein without notice or obligation.

Solid State Logic cannot be held responsible for any loss or damage arising directly or indirectly from any error or omission in this manual.

PLEASE READ ALL INSTRUCTIONS, PAY SPECIAL HEED TO SAFETY WARNINGS.

E&OE

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Revision History

Revision V2.0, June 2020 - Revised Layout Release for Module Update