



**"845 BLACK SHADOW"
OWNERS MANUAL
THE WORLDS FINEST
SINGLE ENDED AMPLIFIER**

INTRODUCTION

Congratulations on purchasing the highly appraised "Black Shadow" amplifier from "AUDION". Before we discuss circuit topology and design we would like to introduce you to our company.

Audion was originally conceived by D.G.Chessell following his love of music, and a long time hobbyist always delving into the depths of various components and amplifiers. The concept in those early days was to allow people to get an insight into audiophile high end without sacrificing their home or bank balance. This overall picture still holds good for most of the current production, with just a few bespoke built and designed products entering the upper echelons.

In 1986, David was given the position of Technical Director for "Audio Innovations" at a time when the company had an enviable reputation for sound quality. During this period and the next few preceding years a friendship flourished between David, and the initiator of "Audio innovations", Mr. Erik Andersson, one of Europe's top audio designers. Erik had recently returned to live in his homeland of Sweden and was in the process of launching the "EDISON Original" as a market leader in Scandinavia.

Audion was established in 1987 and caught the imagination of reviewers for their top-flight performance and high build quality.

Following on from this, subsequent years saw Audion's pre-amplifiers continue to improve evolving into a two box state of the art design, with multiple on board regulation quality hand built to military specifications. Our Quattro preamp was also launched and set a standard becoming the ultimate in high-end audio pre-amplification.

Erik in these years flooded the Scandinavian market with affordable Edison Kit's, and a range of top-flight yet affordable triode amplifiers under the banner of "Andersson".

In 1992 after a few depressed trading years in Europe and the saturation of the Scandinavian market, two friends joined together with a base in the UK and were able to design and distribute a superior amplifier around the world. Their first joint product saw the "Black Shadow 845" mono-blocks, with a front-page debut at the beginning of 1993 in the British press.

The Black Shadow's provided, and still provide, affordable high-end true triode amplifiers with no-feedback to be available to a large number of fortunate audiophiles wanting outstanding sonic virtues.

"AUDION AMPLIFIERS" "AFFORDABLE ESOTERIC HIGH END"

⁽¹⁾ Pure triode denotes the use of a pure triode not a pseudo triode coupled pentode.

845 SE SPECIFICATION

SINGLE-ENDED SERIES

POWER OUTPUT RMS:	25 WATTS into 8-OHMS Class-A at 240V AC
LINE SENSITIVITY (FULL OUTPUT):	<200 mV RMS
DISTORTION:	<0.5% @ 1KHz AT 3/4 Max power
FREQUENCY RESPONSE:	15 Hz - 35 KHz (+/- 3dB)
LINE POWER NOMINAL:	240W @ 240V AC

OPTIONAL VARIABLE INPUT SENSITIVITY

SUITABLE FOR LOADS 40hm's to 16-Ohm's inclusive

The Audion 845 Black Shadow single-ended amplifiers employ pure Class-A circuitry with automatic biasing from the input to the output.

Throughout the amplifier, no overall feedback is incorporated which would reduce dynamic headroom. All driver and output stages are running in optimized Class-A

The 845 valves utilized in the amplifiers are operating within manufacturers guidelines, and as such should provide a minimum of 2000 hours tube life, approximately 2 years in general private use.

Please note After the amplifier is switched on there will be an initial delay of approximately 45 seconds to allow the valves to pre-heat, after which time a click will be heard and the amplifier will come into operation.

Warning The 845 valve in normal operation has a working temperature of over 100° Centigrade – in no circumstances should the valve be touched during operation or for at least 15 minutes after the amplifier has been turned off.

IMPORTANT

VALVE PLACEMENT

1. Please note the input valve is of the type 6922, and should always be placed in the socket to the **LEFT** when viewed from the front of the amplifier. The driver tube is a high specification 5687 and placed in the socket to the **RIGHT**.
2. Warning: Please note that the valves in the amplifier(s) in operation produce heat equivalent to a 100w light bulb, and should not be touched at any cost.
3. An initial burning in period of 2 weeks is necessary for optimum performance, and in general use a warm up period of 10 to 15 minutes improves the overall sound.

SERVICING REQUIREMENTS

(QUALIFIED SERVICE ENGINEERS ONLY)

- 1 All tubes should be selected for low microphony and low noise.
- 2 No other voltage adjustments will be necessary but the valves should be replaced as matched pairs.
- 3 In the unlikely event of system fuse failure the fuse should be replaced with a 20mm type not exceeding 2A for 240V mains, or 3.15A for 110 to 120V mains.
- 4 Any modification to the circuit will invalidate the warranty.

THE PRODUCT IS WARRANTED FOR 2 YEARS PARTS AND LABOUR (WORLDWIDE LESS DELIVERY CHARGES) AND THE TUBES ARE GUARANTEED FOR 6 MONTHS . (THIS DOES NOT AFFECT YOUR STATUTORY RIGHTS) .