

# saxon

## Saxon P700 Power Amplifier User Manual

### SPECIFICATION

Maximum Output Power 8 Ohms/20-20kHz  
Output Impedance  
Frequency Response  
Signal - to - Noise Awtd  
Mains Voltage  
Dimensions H.W.D in mm excluding connections  
Weight packed  
un-packed

### P700

100W  
<0.03 Ohms  
10-100kHz +/- 3db  
-86dB  
ALL 230V /115V/100V AC ± 10%  
87x440x300  
8.5kg  
7.1kg

Saxon Audio's policy of continued research and development means that the above specification may change without notice. The power amplifier has been manufactured to conform with the protection requirements of the EC Council directive 89/336/EEC relating to EMC by application of the following standards:

EN50081-1 1992 Emissions Standard  
EN50082-1 1992 Immunity Standard

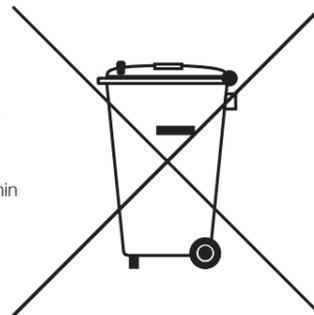
and also the requirements of the EC low voltage directive relating to electrical safety by application of the following standard  
BSEN60065: 1994 Safety standard

For the purposes of testing, the power amplifier was used with the mains cables and high quality interconnects supplied by Merlin Cables. Compliance with the above standards can only be made if the unit is installed as per this manual and using the correct cables.

Guarantee: 3 Years return to dealer.

To help us provide you with the most efficient service please return your guarantee card promptly. Your power amplifier is guaranteed against manufacturing and component defects for a period of 3 years. The guarantee does not cover and damage caused by accident, misuse, neglect or through incorrect installation, adjustment or repair by unauthorised personnel or the cost of collecting the power amplifier from you and returning it to the dealer. The above does not effect your statutory rights as a consumer. E & OE

Due to recent EU regulation known as the Waste Electrical and Electronic Equipment directive (WEEE) all units MUST be returned to ourselves at the end of their life for proper disposal or recycling. Items within the UK will be collected free of charge by contacting us via email: [wEEE@saxonaudio.com](mailto:wEEE@saxonaudio.com)



# saxon

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### INTRODUCTION

Thank you for choosing a power amplifier. We are confident that it will provide you with many years of musical enjoyment and reliable service. However, please take the time to read this guide thoroughly before using the amplifier. It explains how to install and connect it, and suggests how to ensure that you always enjoy its optimum performance.

### UNPACKING LIST

Power amplifier  
Instruction manual  
AC power cord  
Guarantee card

NOTE: We recommend that the supplied AC power cord is replaced with a high quality Merlin Cables power cord for best results.

Please be aware that this unit is not supplied with interconnects and we recommend the use of the Merlin series of interconnect cables.

### INSTALLATION INSTRUCTIONS

How to site and connect your Saxon power amplifier for best performance and safe operation

Please unpack your amplifier carefully and position it on a stable, level surface close to a mains socket. Before attempting to connect it into your system please read this manual carefully.

The Saxon power amplifier will perform well when placed on a coffee table or bookshelf but if you wish to achieve the best performance we suggest you place it on a specialist hi-fi support. There are many suitable designs available, which your dealer will be happy to advise you about.

Position the amplifier so that it will not be subjected to high ambient temperatures: avoid sites where it will be in direct sunlight or close to a central heating radiator. For your own safety

- and your amplifier's well-being - do not allow it to come into contact with water. Keep it away from potted plants to avoid those all-too-common watering accidents! To clean the amplifier's case disconnect it from the wall socket and wipe it with a barely damp, lint-free cloth or chamois leather. If you suspect that water has entered the casework, return the amplifier to your dealer so that he can examine it.

Once you have installed the amplifier please do not throw away its packaging. If you move home or need to return the unit to your dealer or ourselves, for example for upgrade or at the end of its life - see section on WEEE on the rear of this manual, the original packaging will protect it and ensure it arrives undamaged.

### ELECTRICAL CONNECTIONS

Using your mains lead of choice, connect the amplifier directly to a wall socket. We strongly recommend that you do not use extension blocks as they degrade sound quality. For the same reason we also advise against "line filters" and "mains conditioners". If your mains supply is noisy or you have household appliances that generate clicks and pops that can be heard through your hi-fi system, have an electrician correct the problem at its source. We do however recommend the use of 'Merlin Cables' power chords which do not interfere with the current flow and offer a significant performance improvement.

Should you need to replace the fuse in your (UK) mains plug, please fit only the correct replacement type. This is a standard 5A.

If, for any reason, you wish to replace the plug or cable, please note that the lead must be connected as follows. NOTE: These instructions apply in the United Kingdom only - consult your dealer about wiring conventions in other countries.

Green and yellow wire connects to EARTH (E or symbol )  
Blue wire connects to NEUTRAL (N)  
Brown wire connects to LIVE (L)

This unit must be earthed.

## SIGNAL CONNECTIONS

The Saxon Series was developed using high quality interconnects and speaker cables of our own brand as well as those by Merlin Cables, these will allow the amplifiers to operate as intended and deliver their optimum performance. We strongly recommend that you use these cables for all connections. You can obtain these from your dealer or distributor.

Please note that we particularly advise you not to use any type of high capacitance speaker cables. We further suggest that you use short cable runs. Try to keep interconnects to 2 metres/6 feet or less and speaker cable runs below 10 metres/30 feet. Even though a Saxon amplifier will drive longer speaker cables you will find its performance improves with shorter cables. The use of "litz" or "goertz" type cables may cause your amplifier to overheat under certain circumstances. These are best avoided.

## REAR PANEL

See diagram 1 below.

## MAINS CONNECTIONS

The mains switch is fitted on the right of the rear panel (when viewed from the rear). Use this to switch off the amplifier completely. Next to it is an IEC socket into which the supplied mains lead fits. If an internal fuse should blow i.e. the blue LED will not illuminate when the amplifier is not hot but plugged in and switched on, then the amplifier should be returned to your dealer for examination. Any replacement should only be of an identical type which is written on the main PCB for clarity.

The amplifier, whilst powered ON, will be warm to the touch even at idle, due to the class A quiescent current flowing in the output stage. This is perfectly normal.

## INPUT CONNECTIONS

The input sockets for the amplifier are either RCA phono or XLR balanced. Connect your pre-amplifier's main audio outputs to these. Use the rear mounted switch to select the input type that you have connected to. The switch points towards the input type selected. Left and right are clearly marked, see rear panel diagram.

## SPEAKER CONNECTIONS

Gold plated 5-way binding posts are provided for your speakers. The red terminal is the positive connection and the black terminal is negative. If you use bare cables or spade terminals that require clamping in the binding posts, be sure to arrange the leads so that they do not short-circuit the amplifier. Clamp the connections tightly but do not over-tighten them: do not, for instance, tighten the binding posts with pliers. Check this sort of connection periodically to make sure that the wire is still tightly gripped. Better still, use high quality cables factory fitted with appropriate plugs! The uppermost pair is for the left channel, whilst the lower pair is for the right channel.

Saxon amplifiers are suitable for use with most current loudspeaker systems with an impedance rating between 4 and 16 Ohms. Contact your dealer if you have a particularly unusual loudspeaker system and are uncertain about how your amplifier might react to it. Under all normal circumstances the amplifier is well protected against encounters with demanding speakers: it has thermal protection, voltage and current limiting and DC offset protection.

## BI-WIRING

Although there are not two sets of speaker terminals provided, if you intend to bi-wire - or tri-wire - your loudspeakers, we recommend that you use cables correctly fitted with a single pair of plugs at the amplifier end for four reasons.

- 1) To bi/tri wire properly you should have a common ground point.
- 2) Trying to squeeze two or three individual cables into a binding post will give a poor connection that will degrade sound quality.
- 3) It increases the likelihood of wiring one or more of the speaker drive units out of phase by reversing its connections.
- 4) It invites accidents through wires breaking free and shorting the amplifier's output.

## MUTE LINK INPUT

This is to allow simultaneous mute control over the power amplifier when used with a Saxon pre-amplifier, just connect using the 3.5mm jack lead provided with your Saxon pre-amplifier.

## FRONT PANEL

Although there are no front panel controls Connecting the mute link cable between your Saxon pre-amplifier (if you have one) will operate internal relays that connect the audio signal to the loudspeakers when the mute button on the pre-amp's front panel is pressed once. To un-mute press it a second time. It does not connect the mains supply to the amplifier: the actual mains power switch is on the rear panel.

If you do not have a saxon pre-amplifier then the amplifier will un-mute itself automatically a few seconds after being powered on.

Leaving the mains supply permanently connected and silencing the amplifier with the pre-amp's mute switch means your power amplifier will deliver optimum performance immediately it is brought out of its "stand-by" state.

## PROTECTION MODE

### INTERNAL FUSES

If for any reason these are found to have blown then the protection circuits have identified a possible fault condition. The amplifier should immediately be switched off and returned to your dealer or distributor for examination. There are no user serviceable parts in your power amplifier. Units contain lethal voltages, so only qualified personnel should service your amplifier.

## HINTS AND TIPS

Although you can stack a power amplifier with a pre-amplifier and other components, your system will not perform at its best if you do. The power supply in the amplifier can induce hum into sensitive components.

When using a pre/power combination we recommend that you place the units side by side or arrange them on separate shelves of a system rack, separated by about 15cm. Keep your turntable, if you are using one, as far away as possible from the power amplifier.

Don't be tempted to take a little look inside the amplifier: there's nothing very exciting to see and there are some dangerous voltages floating about inside its case. Similarly, do not try to modify or "improve" the design with the latest audiophile fad components. We know what we are doing and we chose the most appropriate components for this design. We certainly will not repair the amplifier under guarantee if you've been fiddling with it!

Diagram 1. Rear panel

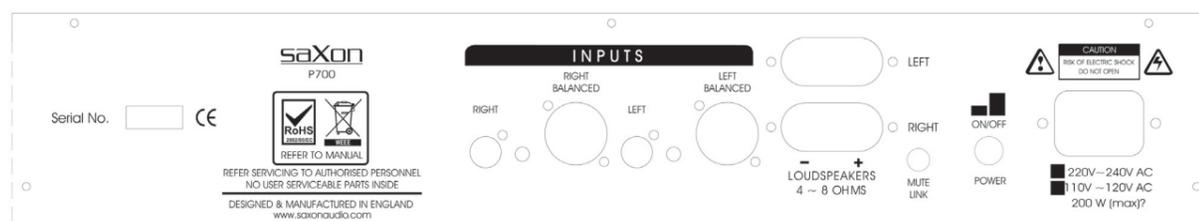


Diagram 2. Front panel

