VX SERIES

Professional **loudspeakers**

TANNOY

Quick Start Guide

Introduction

Designed, engineered and built in the United Kingdom, the VX Series from Tannoy comprises a range of passive loudspeakers for demanding professional and commercial sound applications. Within the VX Series, system designers can choose from a variety of sizes, power levels and coverage patterns to suit particular requirements.

This Quick Start Guide presents only the essential information required to properly unpack, connect and (when applicable) configure for bi-amp operations. Please consult the full VX Series User Manual for additional information on cable types, equalization, power handling, rigging and safety procedures, and warranty coverage. The VX Series User Manual is available at www.tannoypro.com.

Important Safety Instructions

The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage " within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

1. Read these instructions.
2. Keep these instructions
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers that produce heat.
9. Only use attachments/accessories specified by the manufacturer.
10. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
11. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

SAFETY WARNING
Do not remove any covers, loosen any fixings or allow items to enter any aperture.

SAFETY WARNING
Objects filled with liquids should not be placed on this apparatus.

AVERTISSEMENT DE SECURITE
Ne retirez pas les couvercles, ne desserrez pas les fixations et ne laissez aucune pièce s'introduire dans les ouvertures.

AVERTISSEMENT DE SECURITE
Ne placez pas d'objets contenant du liquide à proximité de l'appareil.

Unpacking

Each Tannoy VX Series loudspeaker is carefully tested and inspected prior to shipment. After unpacking, please check for any exterior physical damage, and save the carton and any relevant packaging materials in case the loudspeaker again requires packing and shipping. In the event that damage has been sustained in transit notify your dealer and the shipping carrier immediately.

Connectors / Cabling

On VX Series loudspeakers, connector types available vary by model, as detailed below:

VX 5.2, VX 6, VX 8
Inputs on 1 x speakON 4-pole, 1x binding post pair. Binding posts are connected in parallel to speakON 1+ and 1-. Not bi-amp capable.

VX 8M
Inputs on 2 paralleled speakON 4 pole connectors. Not bi-amp capable.

VX 8.2, VX 12
Inputs on 2 x speakON 4-pole and 2 x barrier strip terminals. Both barrier strip terminal pairs are connected in parallel to speakON poles 1+ and 1-. Not bi-amp capable.

VX 12HP, VX 12Q, VX 12.2Q, VX 15HP, VX 15Q
Inputs on 2 x speakON 4-pole and 2x barrier strip terminal pair. Both barrier strip terminal pairs are connected in parallel to speakON poles 1+ and 1- when configured for full-range operation. Bi-amp configuration may be implemented using speakON connectors only. (See additional information following.)

Binding post terminals are capable of accepting cables with a conductor of up to 6 mm sq CSA (AWG 10). Red is positive and black is negative. Barrier strips accept wire up to 4 mm sq CSA (AWG 12). Barrier strip polarity is as indicated.

The speakON connectors will accept wire up to 4 mm sq CSA (AWG 12) with an outside diameter of up to 15 mm and a current rating of 30 A. When so equipped, the pins of the two speakON sockets identified input/output on the rear of the input panel are paralleled within the enclosure. Tannoy have adopted the conventional wiring standard for the VX Series product: pin 1+ is positive pin 1- is negative. For a worldwide list of Neutrik distributors see www.neutrik.com.

Crossovers

VX Series loudspeakers are supplied as standard for passive operation via the internal crossover network. If higher peak outputs and additional low frequency output is required, then the VX Series can be used in conjunction with the Tannoy SC1 digital controller. Each input on the network enabled VNET SC1 has gain control and 4 bands of parametric EQ with bands 1 and 4 offering settings for LF and HF shelving response. The unique routing engine will allow any input to be sent to any output. Various filter types are available on all outputs which can be configured as 2-, 3- or 4-way crossovers. All output channels feature an independent speaker alignment delay (200 ms per channel) and a 4-band parametric EQ for speaker management. Four high performance limiters are also available.

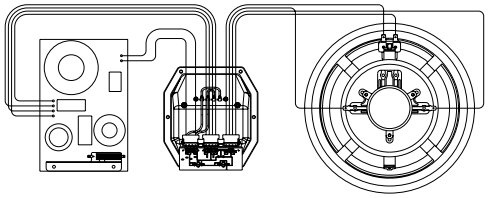
Bi-Amp Operation

The VX 12HP, VX 12Q, VX 12.2Q, VX 15HP, VX 15Q only may be internally reconfigured for bi-amp operation to supply greater system headroom. Reconfiguration is as follows:

First, remove the rear termination panel. It is secured with 2.5 mm hex drive screws.

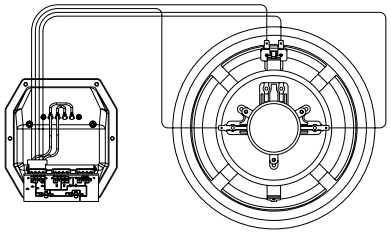
In passive (default) mode, the internal wiring is as shown in Fig. 1, with the full-range signal routed through the internal crossover and divided into separate LF and HF signals using a 4-pole connector.

Fig. 1.



For bi-amp operation, reconfigure the internal wiring as shown in Fig 2. The two-wire connector leading to the crossover is disconnected. The four-wire connector from the speakers now bypasses the crossover and instead connects directly to the speakON inputs, replacing the connector that previously led to the crossover.

Fig. 2.



For bi-amp operation, the speakON connectors coming from the amplifier(s) must be wired as follows:

speakON	**Amplifier**
1 +	LF +
1 -	LF –
2 +	HF +
2 -	HF –

Note that the barrier strip terminals are wired for passive full-range operation only.

Rigging and Safety Procedures

Tannoy Professional loudspeakers should be installed only by fully qualified installers using dedicated Tannoy hardware, in accordance with all the required safety codes and standards that are applied at the place of installation.

WARNING: As the legal requirements for flying/suspending/hanging/rigging loudspeakers change from country to country, please consult your local safety standards office before installing any product. We also recommend that you thoroughly check any laws and bylaws prior to installation. For more detailed information on rigging hardware and safety procedures, please consult the full VX Series and VXP Series Hardware Manual available at www.tannoypro.com.

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