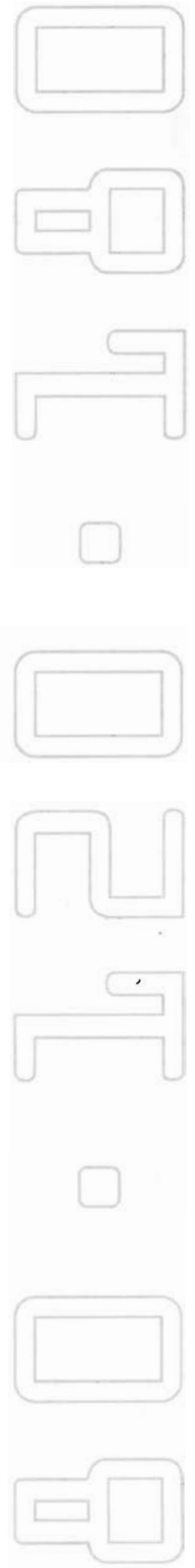


# User Manual

Version 1.0 December 1995



# IMPACT

 **Turbosound**

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## Introduction



## Applications



## Features



## IMPACT80



*You have chosen a professional IMPACT Loudspeaker System from the renowned Turbosound range, designed to give you the best in audio quality over many years of reliable, trouble-free operation. Please read through this manual before you attempt to operate the loudspeaker system. It contains valuable information enabling you to quickly and easily connect the loudspeakers to your amplifiers, important system and set-up checks, together with positioning and mounting instructions.*

The Impact Range of loudspeakers has been designed to be used in a variety of installed sound system applications ranging from discotheques, clubs and wine bars to theatres, themed environments and places of worship. In addition, thanks to its elegant styling and practical durability, Impact is ideal for many mobile sound system applications.

All IMPACT enclosures are manufactured by a unique 'foam-in-place' rotational moulding technique, giving an attractive and extremely durable finish. IMPACT is made from up to 50% recycled materials, thereby minimising unnecessary strain on the world's natural resources.

A range of flying and mounting hardware is optionally available to implement safe and effective installations in a variety of situations (see Mounting and Fixing on pages 11 to 15).



The IMPACT80 is a passive 2-way design using a proprietary 8" low frequency drive unit matched to an HF device with an internal passive crossover. Its design is symmetrical, allowing the speaker to be mounted vertically or horizontally without altering the dispersion pattern.

The IMPACT120 is a passive 2-way design incorporating a high power proprietary 12" low frequency driver and a unique 5" high frequency cone driver. The use of the 5" HF cone driver gives high power capability, controlled dispersion characteristics and very low distortion, and ensures a seamless transition at the crossover point.



IMPACT120



The IMPACT180 is an 18" passive low frequency enclosure for use with either the IMPACT80 or IMPACT120. Its moulded-in pole mount socket allows either mid-high enclosure to be mounted on top.

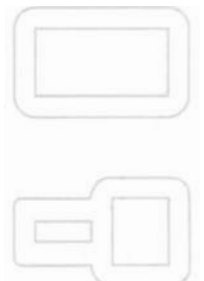


IMPACT180



All Turbosound products are meticulously checked before packing so your IMPACT loudspeakers should reach you in perfect condition. After unpacking the unit(s) please inspect for any physical damage and retain the shipping carton and packing materials for use should the loudspeaker need to be returned for any reason. If the loudspeaker is damaged in any way please notify your Turbosound dealer immediately so that a written claim for damages can be initiated. See also the Warranty at the end of this manual for a description of your Turbosound Warranty.

Unpacking



## Using your IMPACT Loudspeaker System

## System Requirements

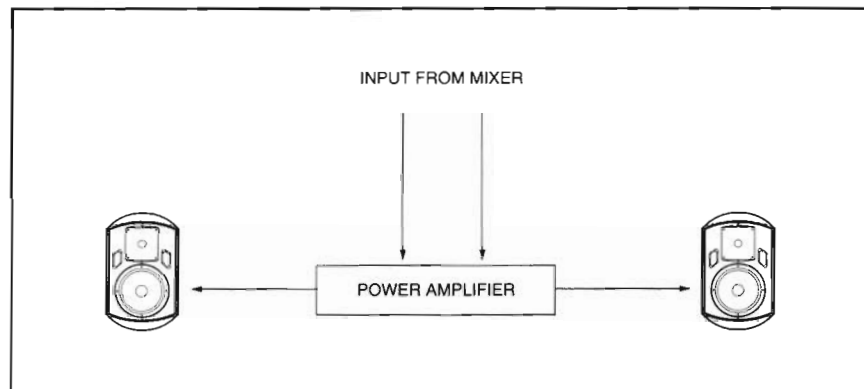
## System Configurat- ions

### IMPACT80 in full range mode

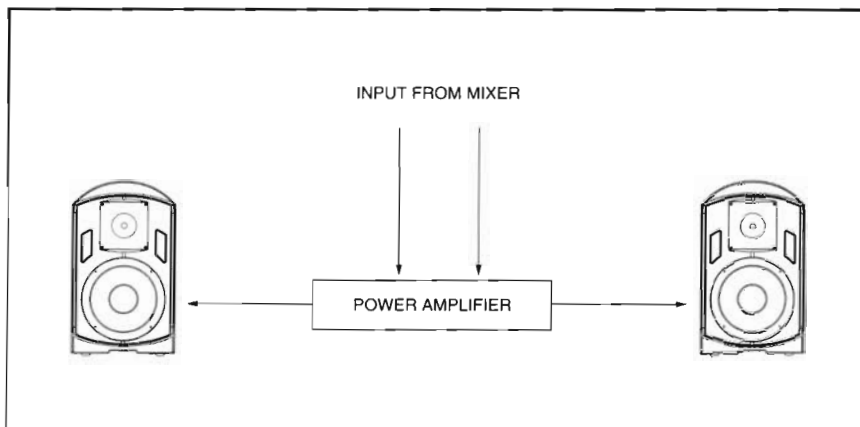
Reading this section will enable you to get the best out of your IMPACT speaker system. Used with care and in accordance with these instructions and recommendations, the product will give many years of reliable performance.

IMPACT enclosures are passive loudspeakers, meaning that each loudspeaker, or group of loudspeakers, may be powered by one channel of a suitable stereo or multi-channel amplifier (please refer to Amplifier Considerations on page 11). No external frequency splitting devices or processors are required to realise full performance from your IMPACT loudspeaker system.

IMPACT80 and IMPACT120 enclosures may be operated as full range systems or together with the IMPACT180 low frequency loudspeaker.

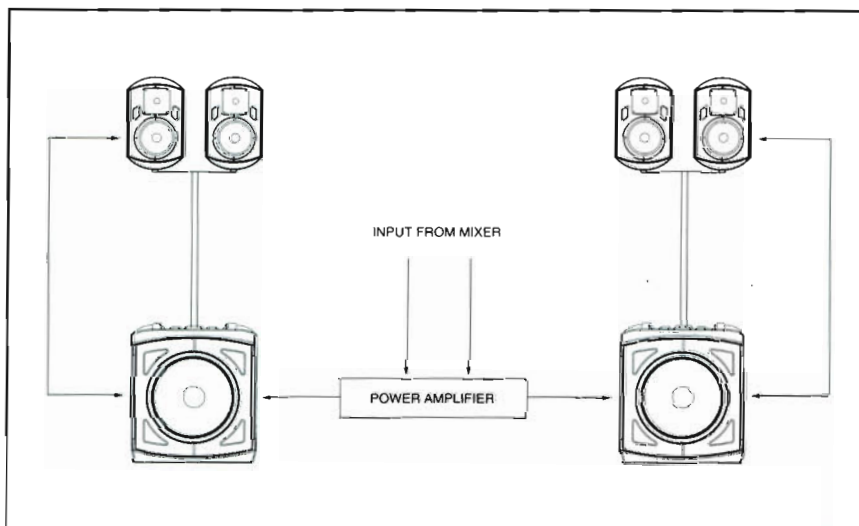


This diagram shows the basic system layout required for operating a pair of IMPACT80 enclosures in full range mode. If room equalisation is required (for example a graphic equaliser), connect the equaliser between the output of the mixing console and the input of the power amplifier.



*IMPACT120  
in full range mode*

This diagram shows the basic system layout required for operating a pair of IMPACT120 enclosures in full range mode. As with the IMPACT80 system described above, connect a graphic equaliser (if required) between the output of the mixing console and the input of the power amplifier.



*IMPACT80 with  
IMPACT180*

This diagram shows the basic system layout required for operating IMPACT80 enclosures with IMPACT180 low frequency enclosures to extend low frequency response. Note that the loudspeaker cable from the amplifier connects first to the IMPACT180 low frequency enclosure; a jumper cable connects to the IMPACT80. Two IMPACT80 enclosures should be used for every IMPACT180.