

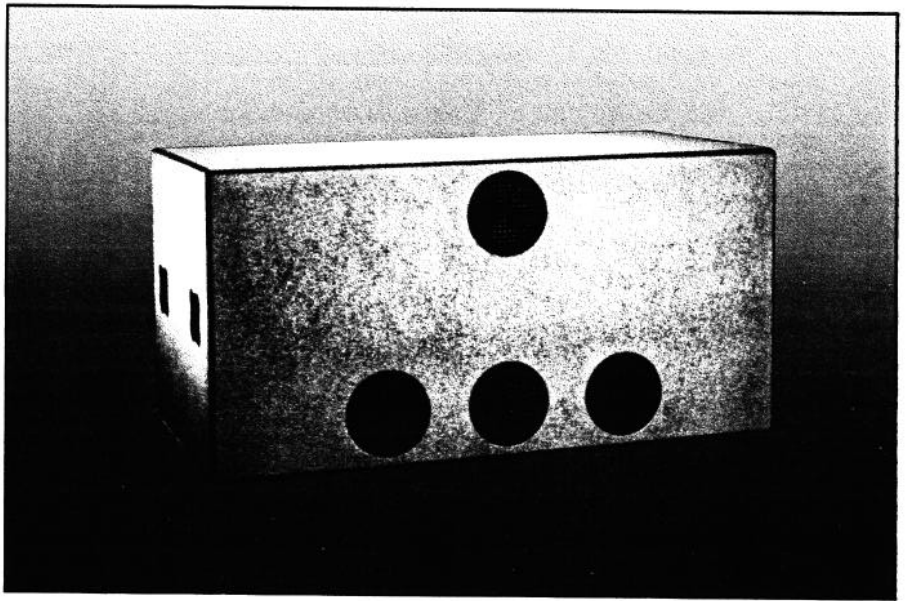


# 4688, 4688-4 TCB™ Subwoofer System

## Professional Series

### Key Features:

- ▶ Frequency Range (−10 dB): 23 Hz - 350 Hz
- ▶ Frequency Response (±3 dB): 28 Hz - 150 Hz
- ▶ Sensitivity: 97 dB SPL 1 W, 1 m
- ▶ Power Capacity: 1200 W continuous program power.
- ▶ Smooth bandpass response for seamless integration into complete system designs.
- ▶ Push-Push dual driver design cancels non-linearities for reduced coloration.
- ▶ Direct inputs to each woofer for multiple wiring options and best amplifier-to-speaker match.
- ▶ Approved by Lucasfilm, Ltd. for THX® system installations.



### Specifications:

<b>COMPONENTS:</b>	
4688:	2 - JBL 2240H low frequency transducers
4688-4:	2 - JBL 2240G low frequency transducers
<b>SYSTEM:</b>	
Rated impedance:	
4688:	8 ohms (at each woofer terminal) 4 ohms (woofer terminals in parallel)
4688-4:	4 ohms (at each woofer terminal) 2 ohms (woofer terminals in parallel)
Frequency Range (−10 dB): 23 Hz - 350 Hz	
Frequency Response (±3 dB): 28 Hz - 150 Hz	
Power capacity <sup>1</sup> : 1200 W continuous program	
Sensitivity <sup>2</sup> : 97 dB, 1 W, 1 m (parallel wired)	
Recommended crossover frequency: 80 to 100 Hz, low-pass	
Input connectors: Color coded push terminals	
Polarity: Positive voltage to black terminal gives forward cone motion	
<b>ENCLOSURE:</b>	
Materials and finish: 19 mm (3/4 in) plywood, matte black finish	
Enclosure tuning: 24 Hz, 68 Hz	
Port grilles: Expanded metal mesh	
<b>GENERAL:</b>	
Net weight: 113 kg (250 lb)	
Shipping weight: 122.7 kg (270 lb)	
Dimensions (HxWxD): 750 x 1502 x 750 mm (29.5 x 59.2 x 29.5 in)	

<sup>1</sup> Continuous program power is defined as 3 dB greater than continuous sine wave power and is a conservative expression of the transducer's ability to handle typical speech and music program material.

<sup>2</sup> Based on a swept 50 Hz to 150 Hz signal for an input of 2.0 V @ 4 ohms or 1.4 V @ 2 ohms.

JBL continually engages in research related to product improvement. New materials, production methods, and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

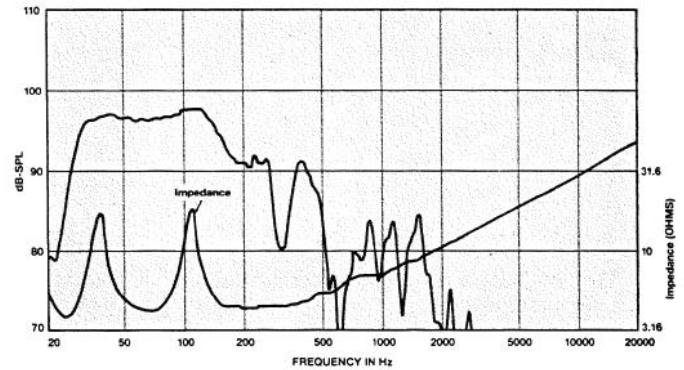
## ▶ 4688, 4688-4 TCB™ Subwoofer System

The JBL 4688/4688-4 subwoofer loudspeaker system employs JBL's exclusive Triple Chamber Bandpass™ (TCB) design to satisfy the most rigorous demands for high power, low frequency performance at exceptionally low distortion levels. The TCB enclosure delivers higher output, greater bass response and significantly lower distortion than a standard ported enclosure of equivalent volume. The large ports prevent compression effects and vent-induced air noise from interfering with the audible output. Mechanical stresses created by the dual opposing drivers actually cancel each other, resulting in reduced enclosure resonance distortion.

Designed to complement the low frequency performance of all JBL systems, the 4688/4688-4 is intended for fixed installations where its dual JBL 2240 460 mm (18 in) low frequency, low distortion cone drivers will consistently reproduce bass frequencies down to 23 Hz. Each woofer in the 4688/4688-4 has direct input via dual terminal posts to allow multiple configurations and proper amplifier/load matching. The 4688 inputs can be paralleled for 4 ohm system impedance, or run independently at 8 ohms per woofer. The 4688-4 utilizes 2240G woofers, allowing 2 ohm parallel operation or 4 ohms per woofer operation.

System efficiency and superior performance are assured by utilizing an external electronic crossover and amplifier at a crossover point of 80 to 100 Hz. Adding a 4688/4688-4 subwoofer loudspeaker to an existing full-range system increases available amplifier/driver headroom in the main system chain by separating VLF signals with their high power demands.

The 4688/4688-4 incorporates steel protective port grilles to make the system impervious to all hazards. Recessed handles allow easy handling and placement during installation.



4688 system space ( $2\pi$ ) Response, 1 W at 1m on-axis; Impedance, woofers parallel wired.



JBL Professional  
8500 Balboa Boulevard, P.O. Box 2200  
Northridge, California 91329 U.S.A.

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