

**JBL**

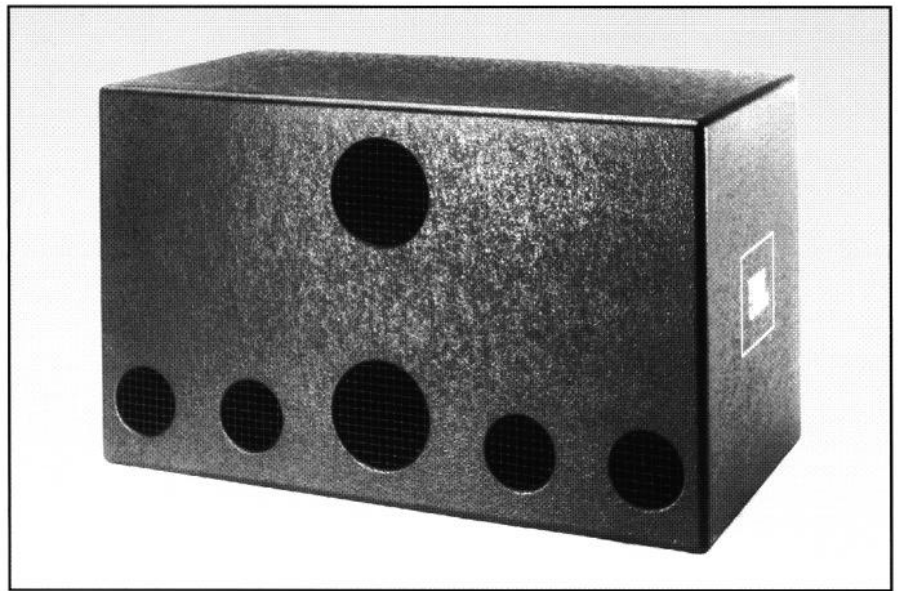
# 4682 TCB Subwoofer System

## Professional Series

### Key Features:

- ▶ Frequency Range ( - 10 dB): 30 Hz-270 Hz
- ▶ Frequency Response ( ± 3 dB): 37 Hz-180 Hz
- ▶ Sensitivity: 97 dB SPL, 1 W, 1 m
- ▶ Power Capacity: 600 W continuous program power
- ▶ Smooth bandpass response for seamless integration into complete systems 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-loudspeaker match.

The JBL 4682 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, more extended 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.



### Specifications:

COMPONENTS:	2 - JBL 2206H low frequency transducers
SYSTEM:	
Rated impedance:	8 ohms (at each woofer terminal pair) 4 ohms (woofer terminals in parallel)
Frequency range ( - 10 dB):	30 Hz to 270 Hz
Frequency response ( ± 3 dB):	37 Hz to 180 Hz
Power capacity <sup>1</sup> :	600 W continuous program
Sensitivity <sup>2</sup> :	97 dB, 1 W, 1 m (wired in parallel)
Recommended crossover frequency:	100-200 Hz, low pass
Input connectors:	Color coded push terminals
Polarity:	Positive voltage to black terminal gives forward cone motion
ENCLOSURE:	
Materials and finish:	19 mm (3/4 in) plywood, matte black finish
Enclosure tuning:	40 Hz, 90 Hz
Port grilles:	Expanded metal mesh
GENERAL:	
Net weight:	52.3 kg (115 lb)
Shipping weight:	61.4 kg (135 lb)
Dimensions:	597 x 997 x 527 mm H x W x D (23½ x 39¼ x 20¾ in)

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

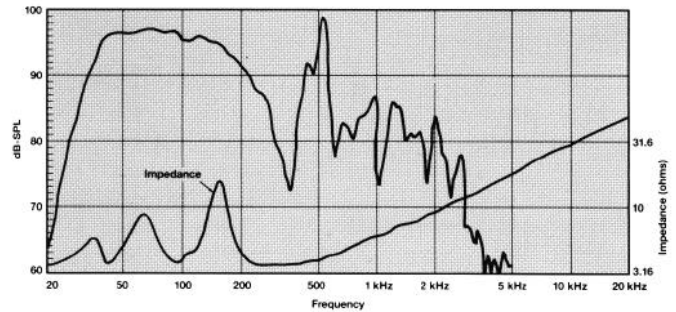
<sup>2</sup> Based on a swept 50 Hz to 150 Hz signal for an input of 2.83 V @ 8 ohms.

## ► 4682 TCB Subwoofer System

Designed to complement the low frequency performance of moderate size JBL systems, the 4682 is intended for fixed installations where its dual 2206H 300 mm (12 in) low frequency, low distortion cone transducers will consistently reproduce bass frequencies down to 30 Hz. Each woofer in the 4682 has direct input via dual terminal posts to allow multiple configurations and proper amplifier/load matching. The 4682 inputs can be paralleled for 4 ohm system impedance, or run independently at 8 ohms per transducer.

System efficiency and superior performance are assured by utilizing an external electronic dividing network and amplifier at a crossover frequency of 100 to 200 Hz. Adding a 4682 subwoofer to an existing full-range system increases the available amplifier/transducer headroom in the main system chain by separating VLF signals with their high power demands.

The 4682 incorporates steel protective port grilles to make the system impervious to all hazards.



4682 system response in  $2\pi$  space, 1 watt, 1 meter on-axis; Impedance, woofers parallel wired.

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.



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

**H** A Harman International Company

8/91 10M  
P1082