

JBL SOUND POWER SERIES

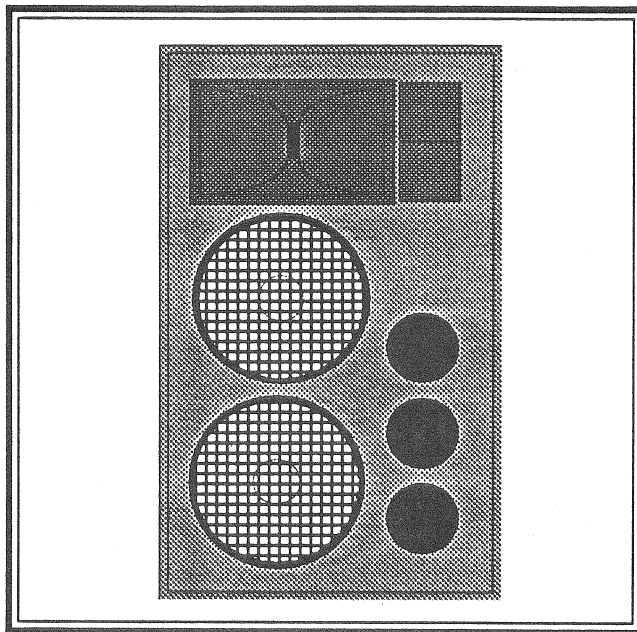
4770A

HIGH POWER TWO-WAY FULL-RANGE SYSTEM

PRELIMINARY SPECIFICATION SHEET

FEATURES:

- ▶ Smooth, accurate response from 35 Hz to 20 kHz
- ▶ High efficiency and power handling
- ▶ Tightly controlled 90° x 40° dispersion
- ▶ Wedge-shaped enclosure
- ▶ Rugged and attractive finish



The JBL 4770A is a two-way (optional three-way) high power full-range loudspeaker system, intended for sound reinforcement and music reproduction in larger auditoriums. The 4770A is supplied with two JBL 2226H 380 mm (15 in) high power, low distortion cone drivers mounted in a ported enclosure and one JBL 2445J 100 mm (4 in) titanium diaphragm compression driver mounted on a 50 mm (2 in) throat, 90° x 40° JBL 2380A Flat-Front Bi-Radial[®] horn. The 4770A may be used in conjunction with the JBL 4788A sub-bass system, and will accurately reproduce all types of demanding program material.

The 4770A can be used alone or in conjunction with other units to create compact arrays capable of delivering top-notch performance in a compact system size. The cabinet design employs vertical sides angled inward by 15°, so that clusters with uniform wide angle coverage of 40° vertical, increasing in multiples of 30° horizontal, can easily be constructed.

The Sound Power 4770A is designed for bi-amplified use with a JBL 5235 or other active electronic crossover, and comes pre-drilled and wired for optional three-way active operation with one or two JBL 2404H ultra-high frequency drivers. Bypass protection capacitors are fitted

internally. The ultra-high frequency section can be driven with an optional passive network where three-way active operation is impractical.

21 mm (7/8 in) Finnish birch plywood construction, internal bracing for maximum strength, large ports to prevent compression effects and vent-induced air noise, and recessed cutout handles are all testimony to the care taken with the 4770A design. With its dark grey acid-hardened paint finish and individual steel protective grilles for both bass drivers in addition to the removable black nylon front grille, the Sound Power 4770A is built to stand up to touring abuse and still perform reliably.

For ease of connection, all input wiring is via a single 8-pin Neutrik Speakon[™] socket. A second Speakon carries a loop-through signal for use with another 4770A or Sound Power Series sub-bass speakers. Rounding out the system, JBL offers an optional wheeled dolly unit for transit protection. The heavy-duty rear connector panel features a threaded insert to accept an M12 safety eyebolt. Additionally, JBL's special 8-conductor cabling is available as an option, featuring four different wire gauges for the four frequency bands.

PRELIMINARY SPECIFICATIONS

Model 4770A

Components	2 – JBL 2226H low frequency transducers 1 – JBL 2380A Flat-Front Bi-Radial horn 1 – JBL 2445J compression driver
Frequency range (–10 dB)	32 Hz—20 kHz
Frequency response (± 3 dB)	42 Hz—17 kHz
w/optional 2404H Bi-Radial Ring Radiators	42 Hz—20 kHz
Enclosure tuning	47 Hz
Sensitivity	103 dB (2.83 V, 1 m)* 112 dB (2.83 V, 1 m)*
Low frequency	
High frequency	
Power capacity	1200 W (AES standard, 50—500 Hz) 150 W (continuous program)**
Low frequency	
High frequency	
Maximum SPL (1 m, continuous program)	TBA
Recommended crossover frequencies	800 Hz, 7 kHz, 40 Hz low cut
Coverage angles (–6 dB nominal)	90° horizontal 40° vertical
Nominal impedance	4 ohms 16 ohms
Low frequency	
High frequency	
Connectors	2 – Neutrik Speakon NL8MPR
Dimensions	1250 mm H x 750 mm W x 533 mm D (49 3/16" H x 29 1/2" W x 21" D)
Finish	Dark grey acid-hardened paint with black steel protective grille
Net weight	110 kg (242 lb)

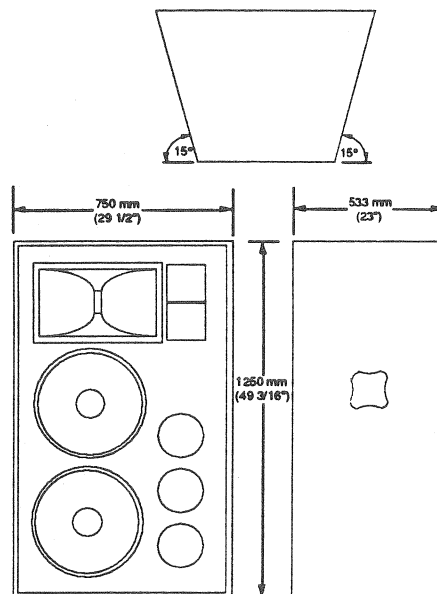
Accessories:

N4751AP	Passive UHF Network (may be used with optional 2404H's)
4770ADL	Cover/Dolly
NL8FC	Neutrik Speakon Cable Connector, 8-Pin
NL8MM	Neutrik Speakon Coupler, 8-Pin
3700-8	8-Wire Speaker Cable
3705-8	8-Wire Speaker Cable, 5 m, with NL8FC Connectors
3720-8	8-Wire Speaker Cable, 20 m, with NL8FC Connectors
4700APNT	Touch-Up Paint

* 2.83 V is 1 W across an 8 ohm load.

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

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.



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