

## PRODUCT NOTES

Although the 400, 408, and 660 amplifiers are not officially in the professional products line, some consultants specified these JBL high fidelity products for sound reinforcement systems. In these few cases, the units were made available to complete the system.

These products have all been discontinued and their replacements have not yet been introduced. Double check with us before bidding any job calling for these JBL numbers. We can then communicate with the consultant to assist him in determining proper substitutions.

## PRICE SHEET

A new price sheet dated May 1972, is enclosed with this issue of Pro-Note. Please review it carefully, as there are many new items listed that were not included in the October 1970 price sheet.

Some of these new units have been announced in previous Pro-Notes, but for clarity, we will again list all new products in this issue.



2. 2212—The 12 inch, 8 ohm low frequency transducer used in the 4310 monitor is now available as a separate component. This unit has been assigned model number 2212 and features 50 Watts program power capability, a frequency response of  $\pm 3$  dB from 40 to 2000 Hz when installed in a 6 cu. ft. box. Sensitivity of the 2212 is 42 dB (1 mw/30 ft.).



1. 2202A—The 2202A is intended for use as a midrange driver in high-power systems or as a low-frequency driver for restricted space applications. The 2202A's performance falls midway between a 2220 and a 2205. It has a curve-linear cone, a four inch copper voice coil, a 2205 magnet assembly, and an accordion pleat cloth surround.

Specifications: Free-air resonance: 40 Hz

Power input: 100W program or 50W sine wave

Impedance: 8 ohms (16 and 32 ohms on special order)

Frequency response:  $\pm 3$  dB, 100 to 4 kHz (400 Hz ref., 6 cu. ft. closed box)

Weight: 13.0 lbs.



3. 2215A, 2215B—The addition of the "A" and "B" to the 2215 indicates different impedances in which the unit is made. The "A" suffix indicates an 8 ohm unit, and the "B" suffix identifies a 16 ohm unit. Price and other specifications are identical to the 2215.

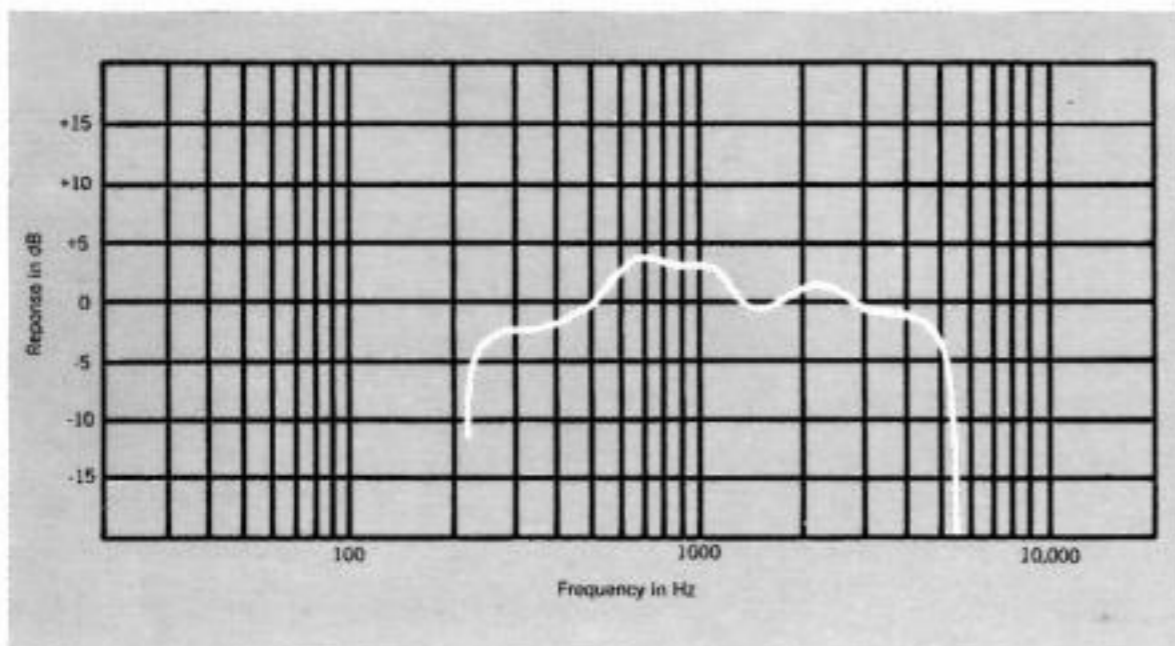
4. 2332, 2333—These model numbers refer to horn adaptors and fittings shown in the plumbing diagrams.

The 2332 adaptor will allow the use of two 1-inch drivers on a 2-inch round throat horn-typified by a 2395 with two 2420 drivers.

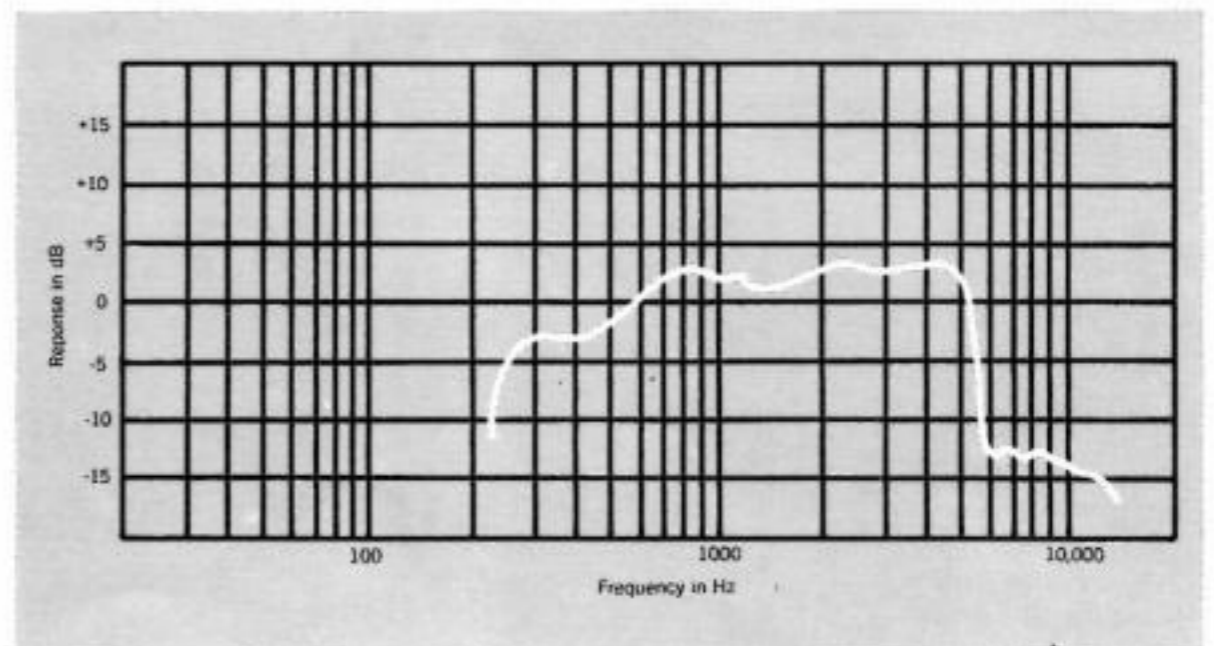
The 2333 1-inch round throat adaptor provides forty-five degree driver mounting for weather protection or physical spacing.



5. 2482 - This new number identifies a product improvement. The 2480 driver has been equipped with a new diaphragm assembly to flatten out the frequency response curve and is now called the 2482. No other changes have been made. The magnetic structure, physical size, power handling capacity, etc., are identical in the 2480 and 2482. As a result, all 2480 specifications will be met or exceeded.



Frequency response contour of Model 2480 coupled to a 2350 horn. Measured response of a typical production unit, including all peaks and dips, does not deviate more than 2 dB from the above curve.



Frequency response contour of Model 2482 coupled to a 2350 horn. Measured response of a typical production unit, including all peaks and dips, does not deviate more than 2 dB from the above curve.

The new diaphragm number is 482-20 and may be ordered from the JBL Repair Department at a user net price of \$60.00.

6. 3152 and 3182—The 3152 and 3182 units have been added to the line in response to field requests for increased controllability in the 3150 and 3180 crossover networks. The high frequency attenuation of these new models in two dB steps (0-2-4-6-8) instead of the one dB steps provided on the 3150 and 3180.

All other features are identical. Therefore we plan to phase out the 3150 and 3180. When stocks are depleted, the new model will automatically be shipped when the 3150 or 3180 is ordered. The prices remain unchanged.

7. 3600—A complete set of one-third octave and shelving filters is now available. The individual filters, as well as broadband shelving filters and mounting chassis, are also available.

Two changes have been made to the proposed line reviewed in the September **Pro-Note**: 1) The mounting configuration will be a panel with chassis supports—not a drawer as previously announced, and 2) the panel supports will accept four socket strips rather than three as originally planned.

8. 4325/3122—The 4325 is similar to the 4320 in that both utilize identical enclosures and the same 2420/2391 driver, horn, lens combination. Differences are the new 3122 network (1200 Hz crossover) in place of the 3110 network (800 Hz crossover). In addition, the 2216 low frequency driver has been substituted for the 2215 used in the 4320.

9. 4500 Series—Studio gray 4500 series low frequency horns are now listed in the price sheet. The standard utility black will have the suffix "BK" and the new finished studio gray will be designated by "SF".



Professional Equipment Division / James B. Lansing Sound, Inc.,  
3249 Casitas Ave., Los Angeles, California 90039



5306



5308



The 5308 Expander, 5192 Magnetic Phono Preamp and 5196 Matching/Bridging Transformer are available as optional accessories.

10. 5306, 5308, 5192, 5196—Production of the eight channel 5306 mixer is now in progress. The first units were delivered in March. Field reports are excellent. The 5308 expander is also in production and will be shipped in May. Both units are now listed in the price sheet: the 5306 at \$675.00 professional net (including transformers on the six microphone channels) and the 5308 at \$495.00 professional net (including transformers on all eight microphone channels). Also included on the new price sheet are the 5196 bridging input and the 5192 magnetic phono preamp accessories for the 5306.

11. 9308, 9375—Two new speaker matching transformers—the eight Watt 9308 and the 100 Watt 9375 autoformer—are now available. These are the first two transformers in a planned family of line-matching transformers. Please offer your suggestions for other sizes.

## SYSTEM EQUALIZATION

Although a complete line of 1/3-octave equalization filters is available, many dealers do not have the time, inclination or equipment required to equalize systems, even when it should be done.

There are a number of consultants currently active in the field of job site equalization. Some of the prominent firms providing equalization service are: C. P. Boner and Associates, 1508 Hardouin Ave., Austin Texas 78703; R. C. Coffeen and Associates, 5909 Martway, Mission, Kansas 66205; Perception, Inc., Post Office Box 39536, Los Angeles, California 90039; Edward S. Seeley, 387 Race Track Road, Hohokus, New Jersey 07423; Robin M. Towne and Associates, Inc., 105 N.E. 56th Street, Seattle, Washington 98105; Melvin C. Sprinkle, 3404 Saul Road, Kensington, Maryland 20795.

Of course, we cannot quote fee schedules for these consultants and would recommend that you contact them directly. Other consultants may contact us after this notification, and we will add their names in the next issue.

Several have announced services to JBL contractors in other areas:

- 1) Checking your layouts for technical accuracy against drawings of the auditorium, stadium, etc.
- 2) System check-out and equalizing.
- 3) Checking your submission as an "or equal" against specifications written around other equipment.

Basically, a consultant is similar to any other professional. If the customer hires him, he represents the customer. If you hire him, he will represent you. His fees are quoted to meet the situation, and there are times when he will not feel it to be to his best interests to become involved on a specific program. In any case, it will be to your advantage to find out more about what a consultant can do for you.

### JBL PROFESSIONAL SEMINAR

Ramada Inn, St. Louis, Missouri, March 17-18



*Guest panelists Bob Coffeen and Charles Boner conducting a discussion on the subject of (What the Consultant Can Do for the Contractor.)*

