

NEW PRODUCT INFORMATION SHEET

JR SUPER WOOFER

Full-range sound from compact hi-fi

True bass from stereo and quadraphonic systems



Designed as an add-on bass unit for high quality stereo and quadraphonic sound systems, the JR Super Woofer can be incorporated quickly and conveniently without the need for additional amplifiers, crossovers or connecting devices. This unique hi-fi reproducer, handling the two lowest octaves from 30Hz to 120Hz approximately, is versatile in application but especially

valuable in augmenting the bass output from compact systems employing relatively small speaker enclosures. The low-frequency power capability of the JR Super Woofer is realised in an accurate extension of bass response while the main system, relieved of the stress of extreme bass reproduction, gains in terms of distortion and power handling.

In the bass region, loudspeaker output tends to lack directionality and there is negligible directional information in stereo programmes. This means that a bass radiator can be positioned for best results, and not with special regard for critical stereo layout. At the same time the bass output will appear to emanate from the stereo system. Similarly it is possible to augment the bass from a surround-sound or quadraphonic system. The JR Super Woofer utilises this principle and offers a space-saving solution to the problem of full-range sound coverage. Designed as an attractive piece of furniture that can also be used as an occasional table, it measures only 20in. diameter by 18½in. high and is easily moved on its nylon castors.

A combination of JR Super Woofer and JR 149 speakers, which presents a visual match, will easily outperform the majority of conventional speakers. The JR Super Woofer is however readily connected into systems of different make and is equipped with an attenuator to facilitate matching to various small loudspeakers of low efficiency. Simple connections take the form of two sockets for the stereo system speakers and two for the amplifier. Generous power handling capacity and a high degree of accuracy in reproduction yield effortless radiation of the lowest organ pedal notes, bass drums and other low frequency sounds found on the best discs, tapes and live radio transmissions. Although its capacity is only 1.8 cubic feet (50 litres) it reproduces frequencies down to 30Hz at realistic levels and with low distortion.

Compact and Rigid Enclosure

Like the JR 149, the Super Woofer is in the form of a cylinder, a shape which produces by far the strongest enclosure. Made from dense fibreboard, the cylinder is capped at each end by thick discs of high-density particle board. Four steel bolts are arranged to tension the discs for maximum rigidity and to damp out any chassis resonance. The drive unit, mounted at the base of the enclosure and very rigidly supported, is a specialised 9½in. unit designed solely for bass. Features are a long-throw four-layer coil with aluminium former, a thick moulded cellulose fibre cone with polyurethane roll surround and a heavy steel chassis incorporating a 2¼lb ferrite magnet.

A very low free-air resonance of 24Hz and carefully controlled Q-factor enable maximum performance to be achieved in the relatively small enclosure. The use of an acoustic filter and the detailed attention to enclosure lagging and construction result in a well damped system resonance at the usually low frequency of 42Hz. Absence of standing waves and cone break-up rule out colouration problems, and all-round bass

radiation at floor level gives the best possible drive unit loading, with consequent maximum efficiency.

Low-loss Crossover

The crossover filter, expertly devised to minimise losses and distortion, employs grain orientated steel cored inductors, low loss close-tolerance capacitors and precision resistors. It is fitted with a constant impedance attenuator, enabling other speakers whose sensitivity falls within the range of the JR Super Woofer to benefit from its superior performance. The Super Woofer is intended for use with loudspeakers of nominal 8 to 10 ohms impedance at 100-150Hz and the crossover is designed on that basis.

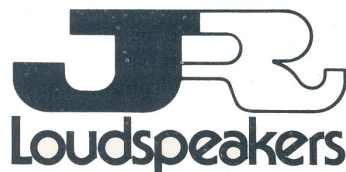
Specification (*Provisional*)

Frequency range:	extending down to 30Hz approx.
Power rating:	60 watts sine wave. 100 watts programme
Impedance:	8 ohms at 120Hz
System resonance:	42Hz.
Crossover:	12dB per octave at 120Hz.
Sensitivity range:	adjustable attenuator gives range of 8dB.
Dimensions:	20in. diameter (50cm) 18½. high (47cm).
Weight:	48lb (21.8kg).

Finishes

High quality natural wood veneers chosen for the JR Super Woofer are polished with a hard scratch-resistant semi-matt finish. Declon foam with vertical sculpturing encircles the enclosure, forming an attractive design that will harmonise with all types of decor. Finishes are Teak, Walnut, Rosewood, Yew and Leather inlay in Rosewood.

NOTE: Whilst the information given in this leaflet is accurate at the time of printing, production changes are subject to alteration without notice in the course J.R. Loudspeakers policy of continued research and development which may not necessarily be indicated in the specification. We point this out to avoid any misunderstanding and would ask you to check with your J.R. Loudspeaker dealer if clarification on any point is required.



The logo for JR Loudspeakers features a stylized, bold 'JR' monogram in a dark color. Below the monogram, the word 'Loudspeakers' is written in a clean, sans-serif font.

Sole U.K. Distributors to Hi-Fi Dealers:

Tape Music Loudspeakers Limited

114 Ashley Road, St. Albans, Herts AL1 5JR, England
Telephone St. Albans 64337 Telex 28474



U.K. Recommended Retail Prices
Excluding V.A.T.

issued by TAPE MUSIC LOUDSPEAKERS LTD.,

114 Ashley Road, St. Albans, Herts.
AL1 5JR, England.

Tel: St. Albans 64337 Telex: 28474

		Each	Per Pair
JR 149 Loudspeaker	Teak, Walnut, Rosewood, Yew, aluminium. Red, Green or Brown leather inlaid into Rosewood.	£67.50	£135.00
JR 149 Loudspeaker	Black or White	£72.50	£145.00
JR Super-Woofer	Teak, Walnut, Rosewood, Yew. Red, Green or Brown leather inlaid into Rosewood.	£150.00	not applicable
Wall Brackets for JR 149	Black	not applicable	£10.00

Prices subject to revision without notice.

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