

R3B

The **R3B** is yet another major advance by Shermann® in the development of compact, high power low frequency drive systems.

This entirely new design by Ken Hughes introduces TriA2™ loading techniques within **R Series** LF products.

This efficient loading technique offers major sonic advances through the combination of critical excursion control and port positioning optimised for the desired LF response.

The European built 15" LF driver operates within a compact, ported enclosure to provide smooth, high energy, extended low frequency drive below 35Hz.



Touring the R3B

Versatility is the keyword associated with all Shermann products and the R3B has been designed to maximise use within a wide variety of system combinations.

Used in pairs or multiples the R3B provides an advantageous LF drive solution for PA and AV rental companies.

Using Shermann R3B LF units with R Series mid/hi cabs the FOH system will use far less cargo space and weight allowance than the supporting compliment of amp, desk, mic' stand, FOH rack and cable flight cases.

This lightweight, compact low frequency workhorse is supplied with four strategically placed handles to assist loading or stacking; the cabinet may be used in vertical or horizontal format.

Four x 80mm rear mounted swivel castors are supplied as standard whilst a fully recessed, heavy duty 35mm pole mount is also fitted on the top of the R3B for use with our telescopic extension pole.

Due to the lower weight and compact nature of the R3B it is our recommendation that any cabinet placed on the extension poles should not exceed 20kg.

Installing the R3B

The numerous advantages of fully equipped Shermann touring boxes are also available to the installer.

From a totally basic model without handles or castors the R3B may also be specified in a variety of painted finishes and even supplied with flying equipment if space restrictions dictate that LF drive cabinets cannot be floor mounted.

Our expertise in the installation market allows us to offer superb sounding systems which are highly efficient, cost-effective and fully compatible with our customer's requirements.

Exterior fittings

Handles (Four in total)
1 per side / 1 top / 1 bottom.

Handles (type)
All sealed insert style

Castors (rear mounted x 4)
80mm heavy duty swivel type.
Quick removal castor plate option*.

Finish

Textured Protective Coating / black as standard / colour options

Grille

Heavy duty punched mesh c/w acoustically transparent foam and engraved logo.

Skids

Bottom and rear mounted easily replaced 18mm plywood skids

Construction

Cabinet shell
15mm multi-laminate Scandinavian birch plywood.

Baffle assembly
25mm multi-laminate Scandinavian birch plywood.

Connections

Speakon NL4
pin 1+ **hot** / pin 1- **cold**

Speakon NL8 (option) *
pin 1+ **hot** / pin 1- **cold**

Wiring (NL4 & NL8 connectors)
Brown + / Blue -

Connector / back plate options *

- 1) Dual NL8 - standard fitting
- 2) Deep recessed 2 x NL4
- 3) 1 x NL8 plus 2 x NL4

All sockets are parallel linked on all available pins eg. 1+ 1- / 2+ to 2+ (see diagrams)

Active crossover frequencies

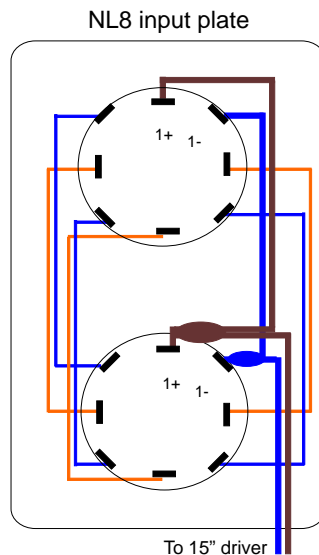
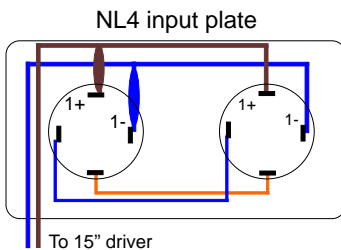
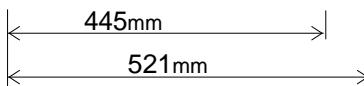
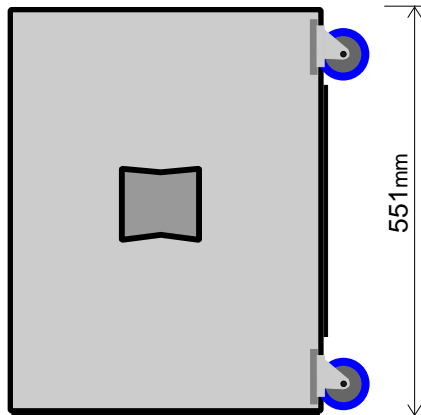
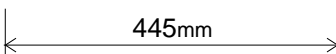
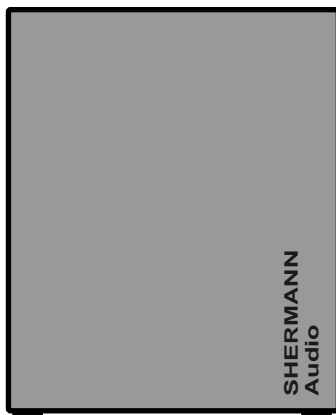
High pass
30Hz 4th/8th order Linkwitz-Riley or Butterworth filtering

Low pass
120Hz 4th order Linkwitz-Riley

Note: The R3B is not available with internal passive filtering

* Options must be requested at time of ordering.

R3B



Speaker Cables

We recommend the use of 4mm² or 6mm² OFC cabling with all Shermann LF drive cabinets.

Wherever possible, cable lengths should not exceed 5 metres for 4 ohm loading (2 x 8ohm R3B in parallel); cabinet link cables should not exceed 1 metre.

Please call for details on Shermann cables - contact info shown below.

Please note

We would like to draw your attention to the likelihood of hearing damage from prolonged exposure to high sound pressure levels.

Care should be taken when using cabinets in close proximity to the audience, musicians or artists. For further information on the safe operation of any Shermann product please fax, call or email us - contact details are shown below.

Textured Protective Coating.

The coating currently applied to Shermann loudspeakers is an extremely hard wearing textured finish designed to protect the loudspeaker cabinet during normal use.

Damage may be caused through contact with sharp objects or if stacked against flight cases or any other item with metal fittings during transportation.

Whilst this style of coating is generally accepted as more durable than a paint finish it should be accepted that TPC is not armour plating and as such, may indeed be scratched or damaged.

The information within this data sheet is accurate and correct at the time of publication.

It is recommended that all technical information is verified with the company before inclusion in quotations or tender documents as The Company will not be held responsible for losses or difficulties arising from errors, changes or omissions.

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Fax: +44 (0)1686 623 233 / Web: www.shermann.com

Technical Specifications

System

Format	TriA2 loading
Nominal impedance	8 ohm
Optional impedance	n/a *
Rec' amp' power @ 8ohm	400-1000 watts rms
Programme power	2000 watts

Performance

Sensitivity @ 1w/1m	97 dB
Output (peak)	129(132)dB @ 1m
Frequency response (-3dB)	35 Hz - 130 Hz

Components

Drive unit size	388 mm / 15"
Voice coil diameter	102 mm / 4"
Chassis	cast aluminium
Suspension	dual spider
Magnet	Ferrite
Mounting	6mm caphead bolts x 8

Dimensions

Height - incl' skids	551 mm / 21.75"
Depth - over castors	534 mm / 21.00"
Depth - excl' castors	445 mm / 17.50"
Width	445 mm / 17.50"
External volume	109 lts / 3.8 ft ³
Weight	27.8Kgs / 61 lbs

* Options must be requested at time of ordering.

For optimum performance and system protection we recommend the use of a digital loudspeaker management unit within systems incorporating the R3B. Klark-Teknik, BSS, Ashly and XTA manufacture suitable models which may be loaded with preset configurations to operate with any Shermann system.

The front foam used on this cabinet is not fire retardant.



Shermann

R Series