

DB AUDIO

USER GUIDE



T-Rex
Subwoofers



Xtinct
Subwoofers



Karnage 12
Subwoofer

Dear Customer,

Thank you for purchasing this DB Audio Product.

DB Audio is proud to introduce a new series of professional subwoofers designed in Britain by a team of dedicated engineers our goal is to provide you, our customer, with the absolute best subwoofer on the market.

T-Rex Subwoofers



T-Rex Series Features:

- High power handling 1000w RMS, 3000w peak power
- Black powder finish die cast basket
- Kevlar woven non-press paper cone with EROM foam surround
- 3" hi-temp 4-layer voice coil
- Double stacked 200 oz magnet
- Mirror- image multi-layer nomex spider
- Chrome finished T-yoke with logo etched
- Dual 2 ohm impedance
- Chrome push terminal
- Rubber gasket
- Rubber magnet boot

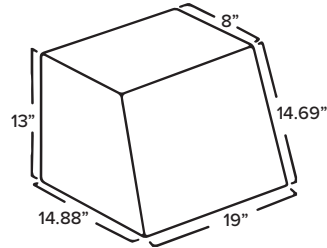
T-Rex Series Specification:

Model	Power RMS in Watts	Power Peak in Watts	Fs Hz	Qts	Vas L	Spl dB	Imp Dual ohm	Size inches
Trex 10	1000	3000	32.5	0.27	18.20	84.3	2	10
Trex 12	1000	3000	32.7	0.30	31.31	86.6	2	12
Trex 15	1000	3000	29.6	0.33	69.27	88.7	2	15

T-Rex Enclosure Design:

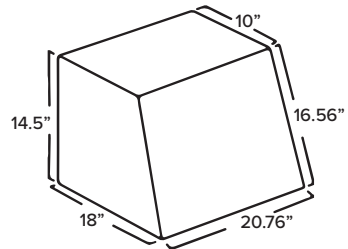
10" Subwoofer

Vb 1.00 Cubic Feet
 Tun 31Hz F3 27Hz
 Port 3"Ø (Diameter) 14.46" Length
 Port Velocity 15.64%
 Tb 1.148 Cubic Feet
 Material 18mm (0.709") MDF



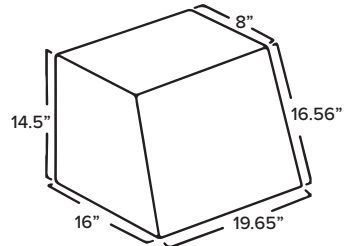
12" Subwoofer - 1

Vb 1.5 Cubic Feet
 Tun 29.7Hz F3 28Hz
 Port 4"Ø (Diameter) 19.39" Length
 Port Velocity 12.71%
 Tb 1.80 Cubic Feet
 Material 18mm (0.709") MDF



12" Subwoofer - 2

Vb 1.1 Cubic Feet
 Tun 32.74Hz F3 32Hz
 Port 4"Ø (Diameter) 22.55" Length
 Port Velocity 13.95%
 Tb 1.418 Cubic Feet
 Material 18mm (0.709") MDF



Xtinct Subwoofers



Xtinct Series Features:

- High power handling 1500 W RMS, 5000 W peak power
- Red finish die-cast basket
- Kevlar woven non-press paper cone with EROM foam surround
- 3" hi-temp 4-layer voice coil
- Triple stacked 300 oz magnet
- Mirror image multi-layer Nomex spider
- 1" ultra-thick top washer
- Dual 2-ohm impedance
- Chrome push terminal
- Rubber gasket
- Rubber magnet boot

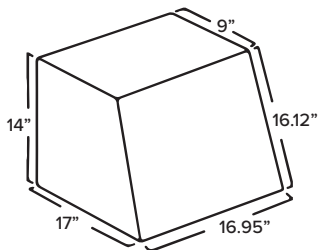
Xtinct Series Specification:

Model	Power RMS in Watts	Power Peak in Watts	Fs Hz	Qts	Vas L	Spl dB	Imp Dual ohm	Size inches
Xtinct 12	1500	5000	32.5	0.26	24.68	87.58	2	12
Xtinct 15	1500	5000	31.3	0.30	52.02	89.02	2	15

Xtinct Enclosure Design:

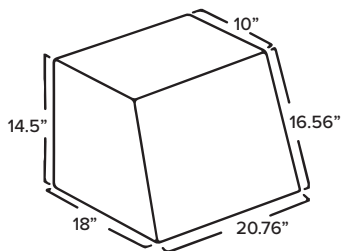
12" Subwoofer - 1

Vb 0.9 Cubic Feet
 Tun 36Hz F3 34Hz
 Port (2x) 3"Ø (Diameter) 26.29" Length
 Port Velocity 21.27%
 Tb 1.27 Cubic Feet
 Material 18mm (0.709") MDF
 (Recommended 25mm (1.0") MDF)



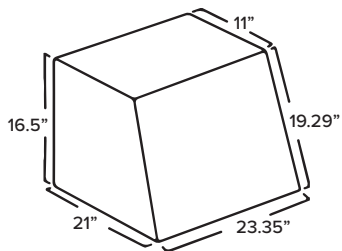
12" Subwoofer - 2

Vb 1.5 Cubic Feet
 Tun 33Hz F3 27Hz
 Port 4"Ø (Diameter) 14.63" Length
 Port Velocity 21.79%
 Tb 1.76 Cubic Feet
 Material 18mm (0.709") MDF
 (Recommended 25mm (1.0") MDF)



15" Subwoofer

Vb 1.1 Cubic Feet
 Tun 30.4Hz F3 30Hz
 Port (2x) 4"Ø (Diameter) 29.05" Length
 Port Velocity 16.21%
 Tb 2.725 Cubic Feet
 Material 18mm (0.709") MDF
 (Recommended 25mm (1.0") MDF)



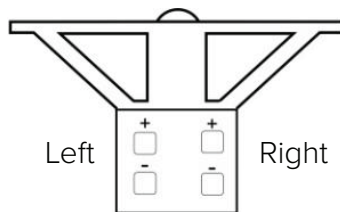
(Note: If using the recommended 25mm (1") MDF, please add this amount to the enclosure dimensions)

These diagrams are for illustration purposes only. All dimensions are approximations. Please refer to speaker size when constructing enclosure.

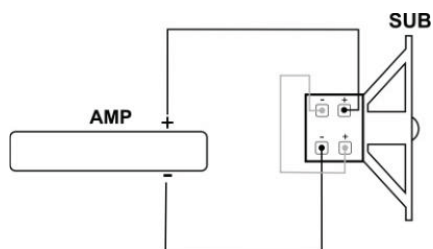
How to connect your subwoofer

This section offers instructions on connecting your subwoofer in a mono and stereo configuration. Each side of the voice coil is 2 ohm each. Most amplifiers are 4 ohm stable in mono. Please connect using diagrams and descriptions below.

(Note: Please consult your amplifier user guide when connecting)



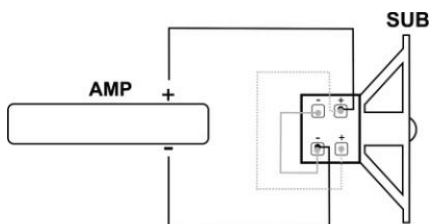
Connection in Series



Speaker Terminal Left -
Positive to Negative to Negative on Amp

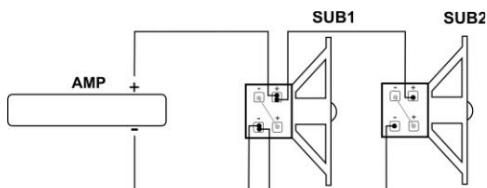
Speaker Terminal Right-
Negative to Positive - to Positive on Amp

Connection in parallel



Connect Left and Right Positives -
Then connect to Positive on Amp
Connect Left and Right Negatives -
Then connect to the Negative on Amp

Connection in parallel using two subs in stereo



Connect all speaker Positives to
Positive on Amp

Connect all speaker Negatives to
Negative on Amp

KARNAGE 12

Subwoofers



KARNAGE 12 has been developed for extreme use. This is an extremely powerful subwoofer and not for the faint hearted. If you need a less powerful subwoofer, we recommend you look at our T-Rex or Xtinct series.

Dimension	Unit	
Diameter A	mm	325
Diameter B	mm	303
Diameter C	mm	288
Diameter D	mm	260
Depth E	mm	127
Depth F	mm	16
Depth G	mm	249
Depth H	mm	287
Displacement	L	10.257

The woofer is Dual 10hm, you can wire the subwoofer in many different configurations:

Wiring:

Parallel – 0.50 Ohm Impedance

Connect both Positives together to create one Positive Terminal

Connect both Negatives together to create one Negative Terminal

This will give you 0.5 Ohm impedance, only use this configuration if you are using 4 or more KARNAGE Subwoofers. Or is your amplifier is capable of running less than 0.25Ohm in mono.

Series 2Ohm Impedance- recommended

Connect one side of the speaker terminal Positive to the Negative and use this NEGATIVE connection to the Amplifier.

Connect one side of the speaker terminal Negative to the Positive and use this POSITIVE connection to the Amplifier.

This configuration will give you 2Ohms. This is what we recommend if using one or two woofers.

SERIES CONNECTION

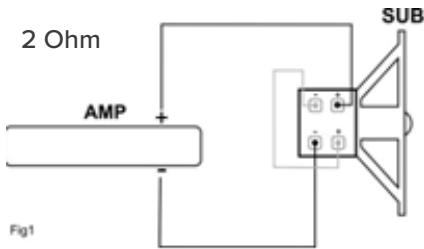


Fig1

PARALLEL CONNECTION

Not recommended

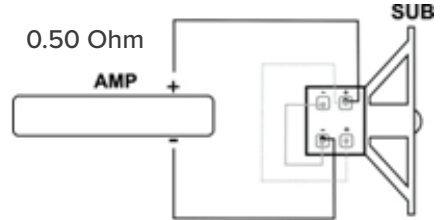


Fig2

Series:

Take the Positive from one Terminal To the Amplifier. Connect the Negative to the same Terminal Positive.
 Take the Negative from one Terminal and connect it to the Negative on the Amplifier.
 To the Amplifier. Connect the Positive To the Negative to the same Terminal.

Parallel:

Take both Positives from each Terminal and connect to the Positive on the Amplifier.
 Take both Negatives from each Terminal

Karnage Enclosure Design:

Design 1

Internal Volume 62L Tuned to 36hz Use 18mm MDF or 25mm.

Design is using 18mm MDF, if using 25mm please adjust dimensions to take account of the difference

Front Baffle is 2 x 18mm MDF Panels or use 1 x 25mm MDF

Slot Port: W 101.7mm x H 345mm x L 950.20mm

Port1 366.4 x 345mm (1) (A)

Port2 453.8 x 345mm (1) (B)

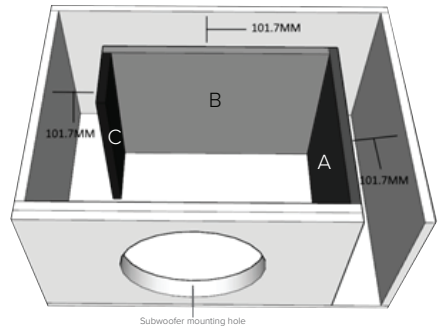
Port3 130 x 345mm (1) (C)

Enclosure EXTERNAL Dimensions:

H 381mm or 15"

W 711.20 or 28"

D 522.1" or 20.55"



Design 2

Internal Volume 82L Tuned to 28.5hz Use 18mm MDF or 25mm.

Design is using 18mm MDF, if using 25mm please adjust dimensions to take account of the difference

Front Baffle is 2 x 18mm MDF Panels or use 1 x 25mm MDF

Slot Port: W 101.7mm x H 345mm x L 1162.80mm

Port1 402.3 x 345mm (1)

Port2 580.8 x 345mm (1)

Port3 180 x 345mm (1)

Enclosure EXTERNAL Dimensions:

H 381mm or 15"

W 838.2 or 33"

D 558" or 21.96"

	Imp	Fs	SD	BL	Qms	Qes	Qts	SPLo	Vas	Cms	Mms	Mmd	Xmax
VC config.	ohm	Hz	msqM	Tm				dB	L	µm/N	g	g	±mm
VC parallel	0.5	36.4	4714	6.071	6.004	0.524	0.482	85.8	21.428	67.895	281.886	270.114	20
VC in series	2	36.0	4714	13.347	5.091	0.517	0.469	85.8	21.218	67.231	291.042	279.270	20
VC in Parallel	1	37.2	4714	8.783	5.339	0.565	0.511	85.5	21.702	69.258	289.207	277.435	20
VC in series	4	37.1	4714	17.265	4.895	0.585	0.522	85.7	21.771	68.979	297.304	285.533	20

Recommended Amplifiers

T-Rex Subwoofers	IPA 3001D Mono @ 1 Ohm
Xtinct Subwoofers	IPA 5001D mono @ 1 Ohm
KARNAGE 12 Subwoofers	IPA 7001D mono @ 2 Ohm

For further details on recommended amplifiers please visit www.inphaseaudio.co.uk