

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 1500w RMS, 4500 PEAK Power
- Heavy Duty Aluminium Die-cast Basket with black powder finish
- Kevlar Fibre Enhanced Non-press paper cone
- EROM foam surround
- 3.0" High Temperature 4-layer copper wire voice coil
- 4pcs Black Poly-cotton Spiders
- Double Stacked 190oz Strontium Magnets
- Deep Bumped T-Yoke
- Chrome Push Terminals
- Rubber gasket
- Rubber Magnet boot
- Dual 2ohm or Dual 4ohm option

T-Rex D2 Series Parameters:

In-Parallel Configuration 1Ohm "Dual 2Ohm"

Model	RMS	Peak	Imp	Rdc	Fs	SD	BL	Qms	Qes	Qts	SPLo	Vas	Cms	Mms	Mmd	Xmax
Speaker	Watts	Watts	ohm	ohm	Hz	msqM	Tm				dB	L	mm/N	g	g	±mm
Trex-10D2	1500	4500	1	0.9	34.2	33.0	10.911	4.866	0.338	0.316	84.9	15.653	99.187	212.600	205.704	11.0
Trex-12D2	1500	4500	1	0.9	33.6	51.1	11.815	5.350	0.382	0.356	86.8	28.777	77.699	272.422	259.149	13.0
Trex-15D2	1500	4500	1	0.9	30.6	80.4	11.718	5.293	0.432	0.400	88.7	72.434	78.863	342.893	316.663	13.0

In-Series Configuration 4Ohm "Dual 2Ohm"

Model	RMS	Peak	Imp	Rdc	Fs	SD	BL	Qms	Qes	Qts	SPLo	Vas	Cms	Mms	Mmd	Xmax
Speaker	Watts	Watts	ohm	ohm	Hz	msqM	Tm				dB	L	mm/N	g	g	±mm
Trex-10D2	1500	4500	4	3.8	34.2	33.0	23.605	4.527	0.327	0.305	84.8	15.426	97.131	223.294	216.399	11.0
Trex-12D2	1500	4500	4	3.8	33.0	51.1	25.247	5.281	0.371	0.347	86.6	28.046	75.723	289.263	275.990	13.0
Trex-15D2	1500	4500	4	3.8	30.5	80.4	24.268	4.822	0.430	0.395	88.6	71.855	78.232	348.022	321.793	13.0

T-Rex D4 Series Parameters:

In-Parallel Configuration 4Ohm "Dual 4Ohm"

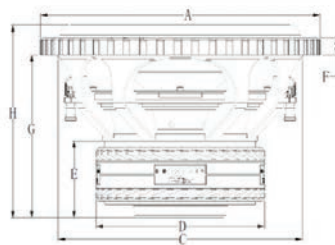
Model	RMS	Peak	Imp	Rdc	Fs	SD	BL	Qms	Qes	Qts	SPLo	Vas	Cms	Mms	Mmd	Xmax
Speaker	Watts	Watts	ohm	ohm	Hz	msqM	Tm				dB	L	mm/N	g	g	±mm
Trex-10D4	1500	4500	2	1.8	35.5	33.0	14.526	4.202	0.323	0.299	85.6	14.427	93.263	192.947	186.051	11.0
Trex-12D4	1500	4500	2	1.6	33.5	51.1	14.179	5.116	0.429	0.396	86.6	26.659	78.180	256.290	243.017	13.0
Trex-15D4	1500	4500	2	1.6	31.8	80.4	15.023	5.162	0.516	0.469	88.2	68.707	78.273	321.532	295.303	13.0

In-Series Configuration 1Ohm "Dual 4Ohm"

Model	RMS	Peak	Imp	Rdc	Fs	SD	BL	Qms	Qes	Qts	SPLo	Vas	Cms	Mms	Mmd	Xmax
Speaker	Watts	Watts	ohm	ohm	Hz	msqM	Tm				dB	L	mm/N	g	g	±mm
Trex-10D4	1500	4500	8	6.4	35.0	33.0	30.854	4.281	0.296	0.277	85.7	14.175	91.630	201.604	194.708	11.0
Trex-12D4	1500	4500	8	6.4	33.7	51.1	33.020	5.106	0.390	0.362	86.8	26.431	75.444	279.237	265.964	13.0
Trex-15D4	1500	4500	8	6.4	31.6	80.4	32.136	5.242	0.470	0.431	88.1	68.025	76.441	331.783	305.554	13.0

Dimensions:

Dimension	Unit	Trex-10D2 Trex-10D4	Trex-12D2 Trex-12D4	Trex-15D2 Trex-15D4	XTINCT 12V2	Karnage 12
Diameter A	mm	278	326	398	326	325
Diameter B	mm	255	303	376	303	303
Diameter C	mm	235	283	351	283	288
Diameter D	mm	196	196	198	226	260
Depth E	mm	89	89	89	104	127
Depth F	mm	21	22	21	22	16
Depth G	mm	182	190	201	227	249
Depth H	mm	219	223	239	263	287
Vd	L	4.38	5.86	7.25	7.74	10.257



Xtinct Subwoofers



Xtinct 12v2 Series Features:

- High Power Handling 2000w RMS, 6000 PEAK Power
- Heavy Duty Aluminium Die-cast Basket with black powder finish
- Kevlar Fibre Enhanced Non-press paper cone
- EROM foam surround
- Fiberglass woven dust cap
- 3.0" High Temperature 4-layer copper wire voice coil
- 4pcs Black Poly-cotton Spiders
- Triple Stacked 300oz Strontium Magnets
- Tech Flat T-Yoke
- Heat-Sink Motor
- 10G Power Cable for direct connection
- Rubber gasket
- Rubber Magnet boot

Xtinct 12v2 Series Parameters:

In-Parallel Configuration 1Ohm "Dual 2Ohm"

Model	RMS	Peak	Imp	Rdc	Fs	SD	BL	Qms	Qes	Qts	SPLo	Vas	Cms	Mms	Mmd	Xmax
Speaker	Watts	Watts	ohm	ohm	Hz	msqM	Tm				dB	L	mm/N	g	g	±mm
Xtinct-12v2	2000	6000	1	0.9	31.2	46.0	17.124	4.629	0.261	0.247	85.8	19.272	69.226	364.416	358.833	16.0

In-Series Configuration 4Ohm "Dual 2Ohm"

Xtinct-12v2	2000	6000	4	3.8	31.4	46.0	28.841	5.768	0.329	0.311	85.9	20.808	70.456	354.577	348.994	16.0
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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.

Karnage 12 Series Features:

- High Power Handling 5000w RMS, 15000 PEAK Power
- Heavy Duty Aluminium Die-cast Basket with black powder finish
- Kevlar Fibre Enhanced Non-press paper cone
- EROM foam surround
- Fiberglass woven dust cap
- 4.0" High Temperature 4-layer Flat Aluminium wire voice coil
- 4pcs Black Poly-cotton Spiders
- Triple Stacked 504oz Strontium Magnets
- Direct Forced Air VC Cooling Motor Design
- 10G Power Cable for direct connection
- Rubber gasket
- Rubber Magnet boot
- Dual 10hm Impedance

Xtinct 12v2 Series Parameters:

In-Parallel Configuration 0.5Ohm"

Model	RMS	Peak	Imp	Rdc	Fs	SD	BL	Qms	Qes	Qts	SPLo	Vas	Cms	Mms	Mmd	Xmax
Speaker	Watts	Watts	ohm	ohm	Hz	msqM	Tm				dB	L	mm/N	g	g	±mm
Karnage 12	5000	15000	0.5	0.35	36.4	47.14	6.071	6.004	0.524	0.482	85.8	21.428	67.895	281.886	270.114	20

In-Series Configuration 2Ohm "Dual 10hm"

Karnage 12	5000	15000	2	1.4	36.0	47.14	13.347	5.091	0.517	0.469	85.8	21.218	67.231	291.042	279.270	20
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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.

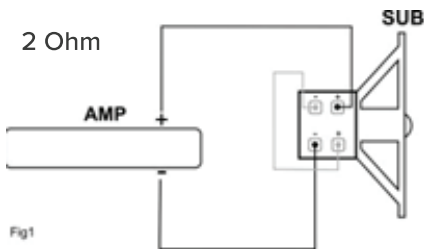
Series 20hm Impedance- recommended

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

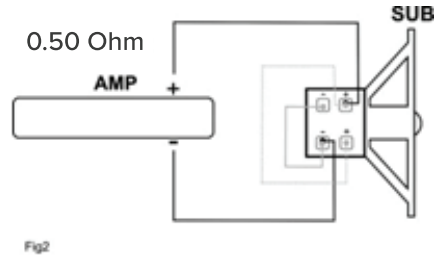


Series:

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. Connect the Positive To the Negative to the same Terminal.

PARALLEL CONNECTION

Not recommended



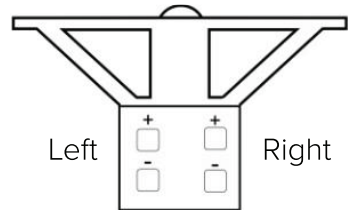
Parallel:

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

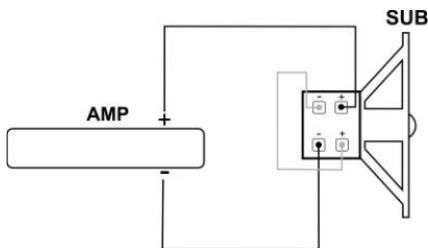
How to connect Trex Series using Parallel or Series wiring configuration.

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)



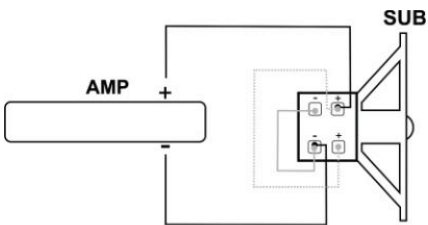
Connection in Series



Speaker Terminal Left -
Positive to Negative to Negative on Amp

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

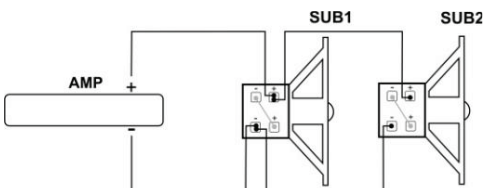
Connection in parallel



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



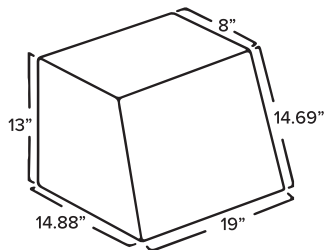
Connect all speaker Positives to
Positive on Amp

Connect all speaker Negatives to
Negative on Amp

T-Rex Enclosure Design:

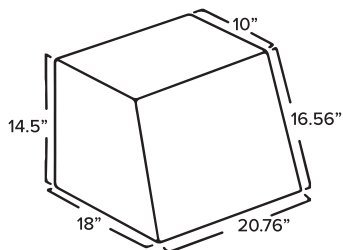
10" Subwoofer

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



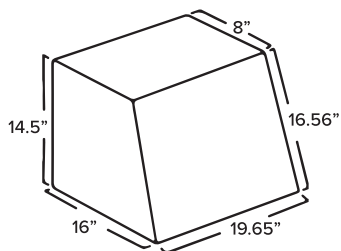
12" Subwoofer - 1

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

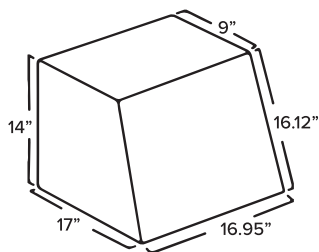
Vb 1.1 Cubic Feet
 Tun 32.74Hz F3 32Hz
 Port 4"Ø (Diameter) 22.55" Length
 Port Velocity 13.95%
 Tb 1.418 Cubic Feet
 Material 18mm (0.709") MDF



Xtinct Enclosure Design:

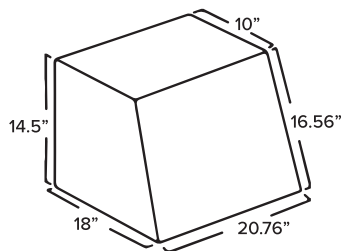
12" Subwoofer - 1

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)



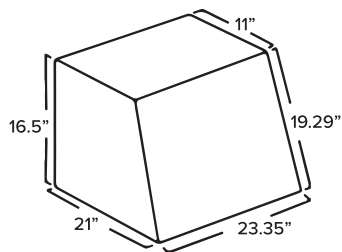
12" Subwoofer - 2

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.

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)

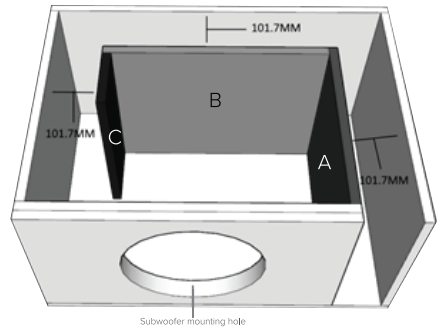
Port3 130 x 345mm (1) (C)

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"