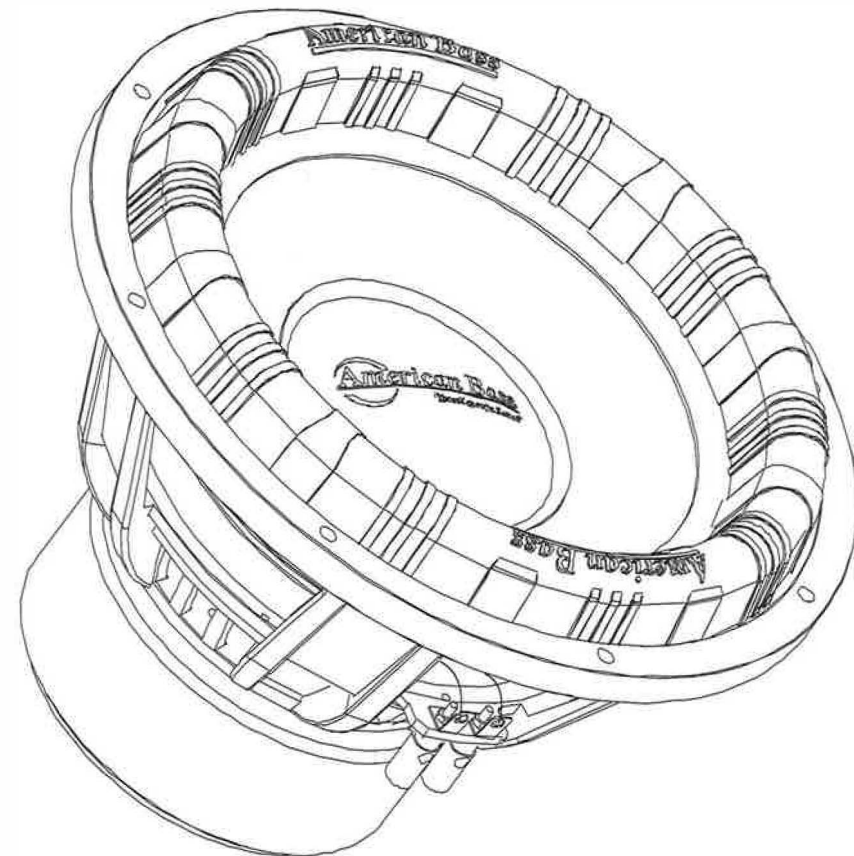




OWNER'S MANUAL

SUBWOOFER



Made in P.R.C



<https://www.americanbassusa.com/>

XFL-1244 4+4 / XFL-1222 2+2 / XFL-1544 4+4 / XFL-1522 2+2

XFL-1044 4+4 / XFL-1022 2+2 / <https://www.americanbassusa.com/>

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(for the European countries with separate waste collection)

ALP

Thank you for purchasing of this Americanbass product! Our company is committed to the creation of extremely loud sound systems with no loss of quality.

To ensure proper use, please carefully read through this manual before using this product. It is especially important that you read and observe caution's in this manual. Please keep the manual in a safe and accessible place for future reference.

2. SAFETY INSTRUCTIONS

1. Fasten the subwoofer properly when installing it in the vehicle. If the component is disconnected during driving, it may cause serious damage to the passengers of the vehicle or another vehicle.
2. Before installing the components, if possible store the product in its original package to avoid accidental damage to the product.
3. Be careful when installing and dismantling the subwoofer! Do not let the subwoofer drop to avoid damage of its moving parts.
4. When working with tools follow safety rules.
5. Before the installation switch off the head unit and all other audio devices to avoid their damage.
6. Make sure that the location of the subwoofer does not hinder the proper operation of mechanical and electrical devices of the vehicle.
7. Do not install components in places exposed to water, excessive humidity, high or low temperature, dust or dirt. ATTENTION!!! The product may be operated at +5 °C (41F) to +40 °C (104F). In case of moisture condensation, let the product to dry.
8. When performing plumbing, drilling or cutting works with the car, make sure that there is no wiring, brake lines, fuel pipe or other structural elements under the place of work. Follow the safety rules! Use protective glasses and gloves.
9. When stretching back the speaker cables make sure that they are not in contact with sharp edges or moving mechanical devices. Make sure that they are firmly fixed and protected over the entire length.
10. The diameter of the speaker cables must be selected in accordance with the length and applied power.
11. Never stretch the cables outside of the car and near the moving parts of the car. This can lead to destruction of the insulating layer, short circuit and fire.
12. To protect the cables use rubber gaskets if the wire passes through a hole in the plate, or other similar materials if it lies close to the parts exposed to heat.

CAUTION!!! High sound pressure can damage your health!
Please use the common sense when controlling volume!

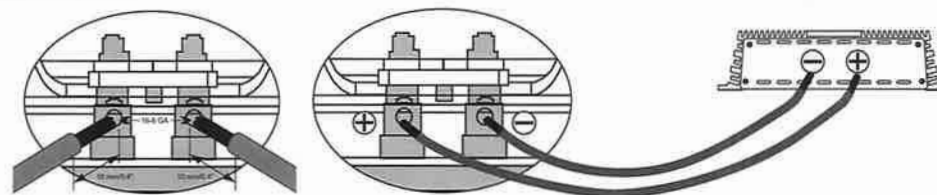
3. WIRING DIAGRAMS

Attention! You need to connect both voice coils of the subwoofer.

Do not expose your amplifier to loads below the value predetermined by the manufacturer.

Various examples of connection types are given at the pages below. Use these examples to determine the required load impedance of your connection.

Connection of terminals



Serial connection

Total impedance = $\Omega_{\text{Sub 1}} + \Omega_{\text{Sub 2}} + \Omega_{\text{Sub 3}} \dots$

Parallel connection

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$$\text{Total impedance} = \frac{1}{\frac{1}{\Omega_{\text{Sub 1}}} + \frac{1}{\Omega_{\text{Sub 2}}} + \frac{1}{\Omega_{\text{Sub 3}}} + \dots}$$

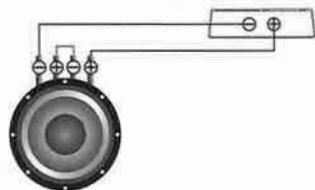
Schemes of enabling the load of the subwoofer

Voice coils 1+1, 2+2 Ohm



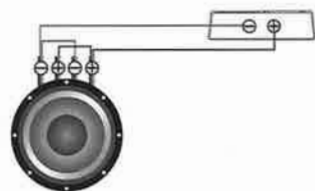
The subwoofer has voice coil D1 or D2.

One subwoofer, coils in series



Voice coils	Total impedance
1+1 Ohm	2 Ohm
2+2 Ohm	4 Ohm

One subwoofer, coils in parallel

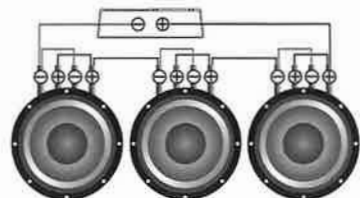


Voice coils	Total impedance
1+1 Ohm	0.5 Ohm
2+2 Ohm	1 Ohm

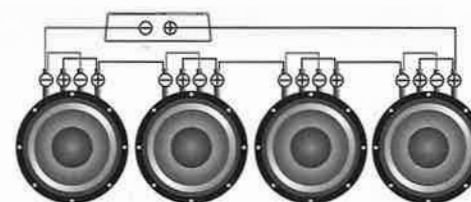
Subwoofers in series, coils in parallel



Voice coils	Total impedance
1+1 Ohm	1 Ohm
2+2 Ohm	2 Ohm



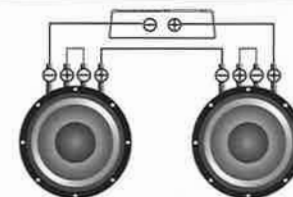
Voice coils	Total impedance
1+1 Ohm	1.5 Ohm
2+2 Ohm	3 Ohm



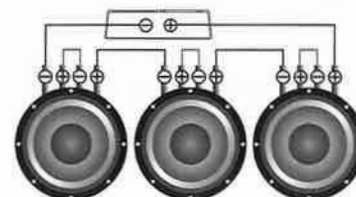
Voice coils	Total impedance
1+1 Ohm	2 Ohm
2+2 Ohm	4 Ohm

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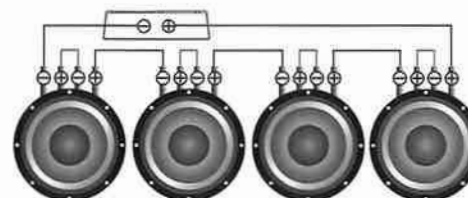
Subwoofers in series, coils in series



Voice coils	Total impedance
1+1 Ohm	4 Ohm
2+2 Ohm	8 Ohm

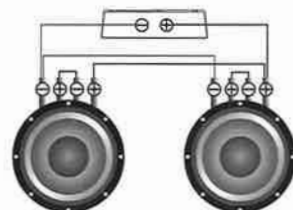


Voice coils	Total impedance
1+1 Ohm	6 Ohm
2+2 Ohm	12 Ohm

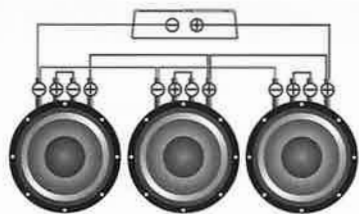


Voice coils	Total impedance
1+1 Ohm	8 Ohm
2+2 Ohm	16 Ohm

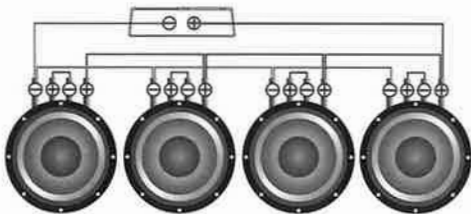
Subwoofers in parallel, coils in series



Voice coils	Total impedance
1+1 Ohm	1 Ohm
2+2 Ohm	2 Ohm

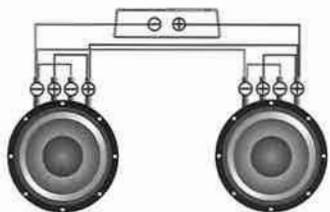


Voice coils	Total impedance	EN
1+1 Ohm	0.66 Ohm	
2+2 Ohm	1.33 Ohm	

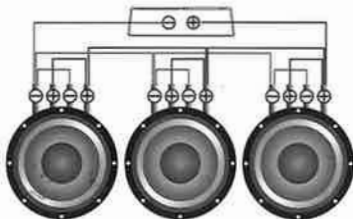


Voice coils	Total impedance
1+1 Ohm	0.5 Ohm
2+2 Ohm	1 Ohm

Subwoofers in parallel, coils in parallel



Voice coils	Total impedance
1+1 Ohm	0.25 Ohm
2+2 Ohm	0.5 Ohm



Voice coils	Total impedance
1+1 Ohm	0.16 Ohm
2+2 Ohm	0.33 Ohm

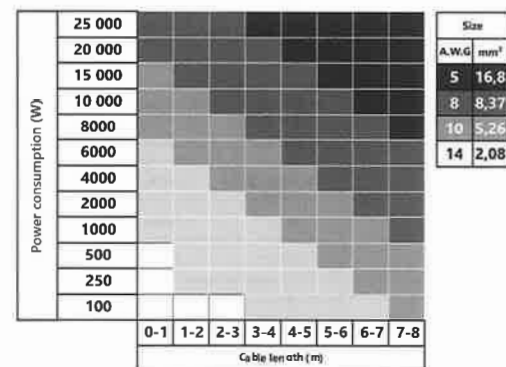


Voice coils	Total impedance
1+1 Ohm	0.125 Ohm
2+2 Ohm	0.25 Ohm

CAUTION!!! High sound pressure can damage your health!
Please use the common sense when controlling volume!

Selection of the diameter of speaker cables

Use the table below to select the desired diameter based on the length and the power consumption.



4. HOW TO USE

The correct choice of the amplifier, its settings and enclosure design prolongs the lifetime of your subwoofer. You should select an amplifier with a nominal power below the nominal power of the subwoofer. Proper coordination of the head unit (HU) with the amplifier will provide clean, undistorted signal fed to the subwoofer, which prevents overheating and voice coil damage. Like any other speaker the subwoofer has moving and stationary parts. We strongly recommend that the moving parts of the subwoofer should be warmed up at the beginning of operation. Be extra careful when warming up the parts. Warm up the subwoofer using musical material for 40 hours at medium power. If you feel strange smell during operation at maximum volume, you should lower the volume of the subwoofer and let the device to cool down at a low volume.

Recommended settings of the amplifier and HU: Volume of HU should not exceed 80%. The amplifier sensitivity should be set to 50%, subsonic filter frequency (Subsonic) should be set to 5 Hz below the port settings. For example, if you configure the port at 30 Hz, Subsonic should be set to 25 Hz. The low pass filter LPF (the filter that cuts all frequencies above those set for the filter) should be set to 63–80 Hz, bassboost should be set to 0

5. SPECIFICATIONS

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Model	XFL-1022	XFL-1044	XFL-1222	XFL-1244	XFL-1522	XFL-1544
Size (Inch)	10	10	12	12	15	15
Surround material	Foam	Foam	Foam	Foam	Foam	Foam
Cone material	Pressed paper	Pressed paper	Pressed paper	Pressed paper	Pressed paper	Pressed paper
Frame material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Magnet type	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	Ferrite
Power RMS (W)	1500	1500	1500	1500	1500	1500
Power MAX (W)	3000	3000	3000	3000	3000	3000
Voice coil size (Inch)	3	3	3	3	3	3
Voice coil wire	CCAW	CCAW	CCAW	CCAW	CCAW	CCAW

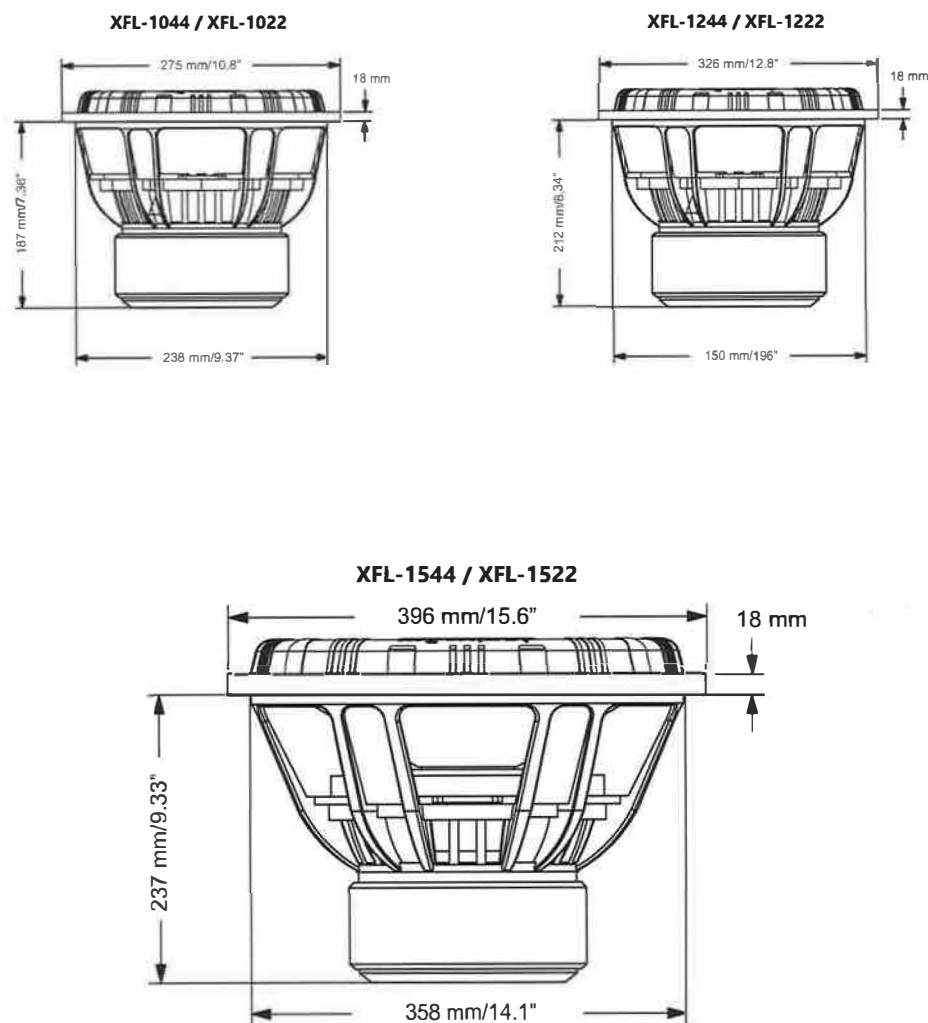
THIELE-SMALL PARAMETERS

Impedance (Ohm)	2+2	4+4	2+2	4+4	2+2	4+4
Re (Ohm)	4+4	6+6	4+4	6+6	4+4	6+6
SPL (dB)	83.5	82.7	86.2	86.5	88.5	88.2
Xmax (mm)	17	17	17	17	17	17
Fs (Hz)	38.6	38.5	35.3	38.5	30.9	33
Vas (L)	10.8	9.74	30.2	23.4	75.7	59.1
Qts	0.3	0.42	0.44	0.45	0.43	0.48
BL	22.3	27.8	21.3	28.3	23.5	29.5

This specified sensitivity is not directly connected with the sound pressure in the vehicle and therefore should not be used as the sole indicator for comparison with other subwoofers.

6. DIMENSIONS

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7. BOX CONTENTS

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1. Subwoofer - 1 pc.
2. Owner's Manual - 1 pc.
3. Window Sticker - 1 pc.

8. WARRANTY PERIOD, AFTER-SALES SERVICE AND SERVICE LIFE INFORMATION

Each Americanbass product is warranted to be free from defects in materials and workmanship under normal use and service.

The warranty period for the product is 12 (twelve) months from the date on which the product is transferred to the consumer (this date shall be deemed to be the date on which the consumer starts using the product).

During the warranty period, defective parts will be repaired or replaced at the discretion of the manufacturer provided that there are grounds for doing so under the laws of the consumer's country. The defective product must be returned to the dealer from whom it was purchased together with the duly filled out warranty certificate, complete, with original packaging.

Our company shall not be liable for any damage caused by transportation. Our company shall not be liable for any expenses or lost profits arising out of or in connection with the use or inability to use the product or any other incidental or indirect costs, expenses, or damages incurred by the customer. The warranty is valid in accordance with the laws currently in force. For more information, please visit our company website and refer to the warranty card.

The manufacturer reserves the right to change the design and specification of the product without prior notice.

The service life of the product is 12 (twelve) months from the date on which the product is transferred to the consumer (this date shall be deemed to be the date on which the consumer starts using the product).

The product or any part (component) of the product must not be used in any way (including, but not limited to use for intended or any other purpose, transportation, storage, modification/alteration/improvement/upgrade) after the expiry of the service life.

At the end of its service life, the product must be disposed of.

9. INFORMATION ON DISPOSAL OF THE ELECTRICAL AND ELECTRONIC EQUIPMENT (FOR THE EUROPEAN COUNTRIES WITH SEPARATE WASTE COLLECTION)

Items marked "crisscrossed wheeled bin" are not allowed to be disposed of together with usual household waste. These electrical and electronic products should be disposed of in special reception centers, equipped for recycling such products and components. For information about the location of the nearest disposal / recycling spot and the rules of delivery of waste please contact your local municipal office. Recycling and proper disposal helps to protect the environment and prevent harmful effects on health.