

XS/10/12

SUBWOOFERS

**OWNER'S MANUAL AND
INSTALLATION GUIDE**

SOUNDSTREAM®
T E C H N O L O G I E S

Xstream Woofers

Congratulations on your purchase of one of the finest woofers available for your vehicle today.

The Soundstream engineers have come up with the perfect solution to performance on a budget with the Xstream line of subwoofers. Boasting high power handling along with great looks that leave your eyes and ears screaming for more. We also use our revolutionary Zirconium cone coating for virtually no distortion resulting in tighter and deeper bass.

Please take a few moments to fill out the warranty card and review this manual before installing this woofer for proper connections and box sizes.

Design Features

XS-10

Stainless Steel Stamped Basket
UDV Cooling Technology
Blue Zirconium Cone
Black Progressive Roll Spider
EVA Rubber Gasket
Dual 4-ohm Voice Coil
2" Kapton Voice Coil Former
Vented & Extended Pole Piece
Low Carbon Top & Bottom Plate
Rubber Magnet Cover
40 oz. Magnet
25Hz - 1.5kHz Frequency Response
250 Watts RMS Power Handling

XS-12

Stainless Steel Stamped Basket
UDV Cooling Technology
Blue Zirconium Cone
Black Progressive Roll Spider
EVA Rubber Gasket
Dual 4-ohm Voice Coil
2" Kapton Voice Coil Former
Vented & Extended Pole Piece
Low Carbon Top & Bottom Plate
Rubber Magnet Cover
40 oz. Magnet
24Hz - 1.3kHz Frequency Response
300 Watts RMS Power Handling

Building the Enclosure

- Determine the dimensions of your enclosure.
- Be certain the box dimensions that you have designed will fit in the location you have chosen in your vehicle. Sometimes making a cardboard box with the same outside dimensions is helpful.
- It is recommended to use $\frac{3}{4}$ or 1 inch thick MDF (medium density fiberboard) for your box.
- Use a “T” square to verify precise right angle cuts before you assemble the box.
- Use high quality wood glue and screws to assemble the box to guarantee an airtight box that will not come apart due to excess vibration and pressure.
- It is recommended for high fidelity, sealed enclosures to stuff the interior of the box about 50 - 75% fiberglass insulation or Dacron fiberfill for increased sound damping and woofer performance.
- For ported enclosures, it is recommended to staple 1” thick fiberglass insulation to the interior walls of your box.
- Use slide on connectors for spade style connectors or bare wire for push and screw terminals. Do not solder the wires to the factory connectors as this may cause damage to the voice coil or tinsel lead and may void your warranty./

Parameters

Spec/Model	XS-10	XS-12
Max (watts)	500	
RMS (watts)	250	300
Mag. Wgt. (oz)	40	40
V.C. Size (in.)	2.0	2.0
V.C. Imp	4 Ω x2	4 Ω x2
Fs (Hz)	33.45	35.03
Vas (Cu. Ft.)	1.174	2.303
Qms	9.902	10.775
Qes	0.604	0.726
Qts	0.570	0.680
Xmax (in.)	0.315	0.315
SPL (dB)	86	88
Primary Enclosure Style	Sealed	Sealed

Recommended box sizes

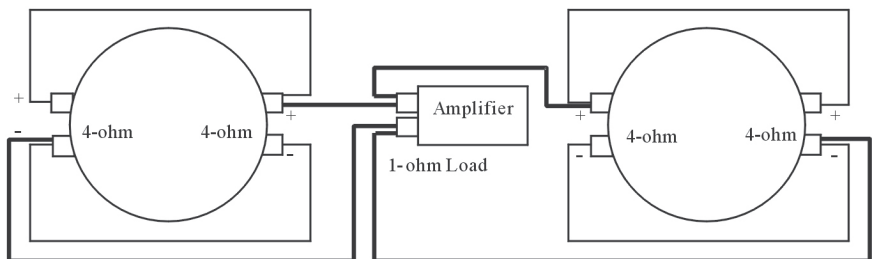
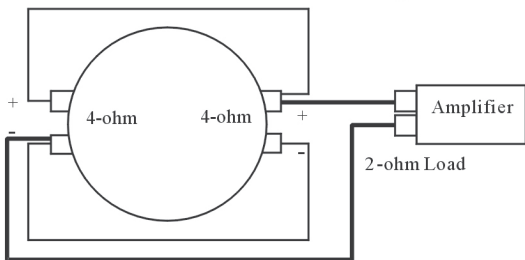
XS-10	High Output	Sound Quality
Enclosure Type	Sealed	Sealed
Enclosure Size Net (w/o driver displacement)	0.5 cubic feet	1.16 cubic feet
Enclosure Size Gross (w/o driver displacement)	0.56 cubic feet	1.22 cubic feet
Enclosure QTC	0.981	0.707
F3 (3dB down point)	50 Hz	46 Hz
Recommended Damping	None	Loose Fill
Driver Displacement	0.056	0.056
Recommended Box Dimensions (using .75" material)	L 12.0" x H 12.0" x W 10.2"	L 25.0" x H 16.0" x W 10.25"

XS-12	High Output	Sound Quality
Optimum Enclosure Type	Sealed	Sealed
Enclosure Size Net (w/o driver displacement)	1.25 cubic feet	2.0 cubic feet
Enclosure Size Gross (w/o driver displacement)	1.34 cubic feet	2.13 cubic feet
Enclosure QTC	1.073	0.833
F3 (3dB down point)	46 Hz	44 Hz
Recommended Damping	None	Loose Fill
Driver Displacement	0.091	0.091
Recommended Box Dimensions (using .75" material)	L 13.5" x H 13.5" x W 17.5"	L 26.25" x H 16.75" x W 11.0"

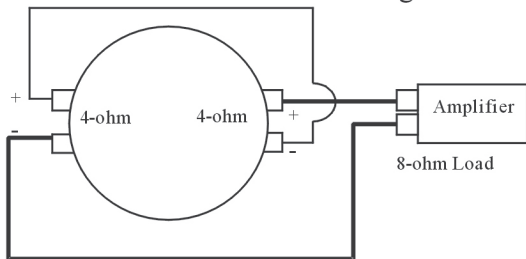
Recommended wiring

The following page will give you a few different options to match the impedance of the woofers to the impedance capability of the amplifier. Please look and follow the diagrams closely to insure maximum woofer performance.

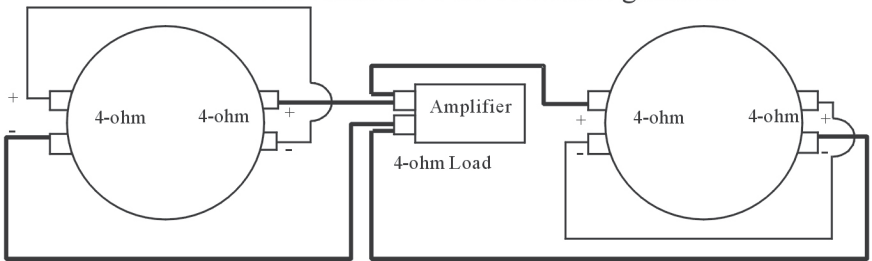
Parallel voice coil configuration



Series voice coil configuration



Series/Parallel voice coil configuration



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