

X STREAM SUBWOOFERS

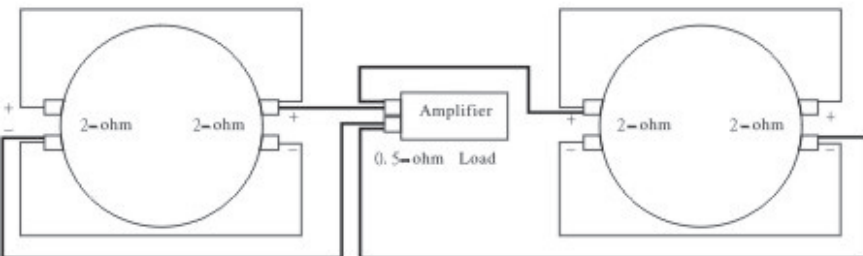
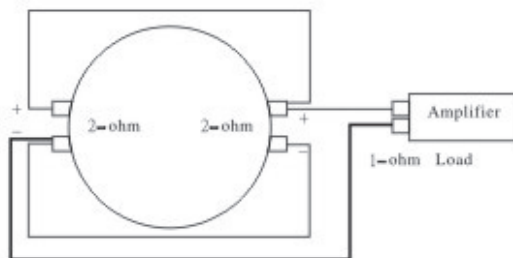
XS-10/2 XS-12/2

OWNER'S MANUAL AND
INSTALLATION GUIDE

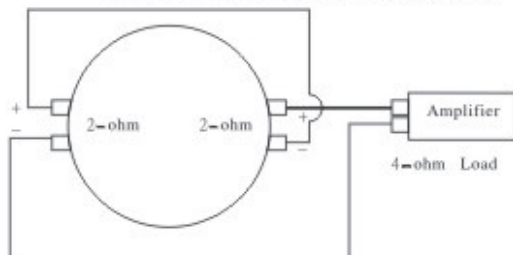
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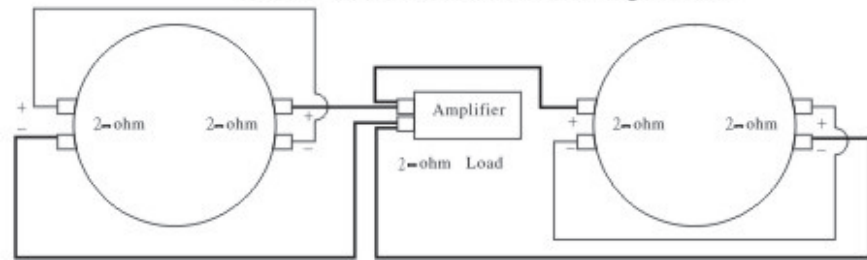
Parallel voice coil configuration



Series voice coil configuration



Series/Parallel voice coil configuration



X Stream Woofers

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

X Stream Woofers are nothing short of engineering genius. Shock Wave technology bridges the gap between sound quality and SPL. Our engineers have increased the cone area while extending the X-max (vertical movement) to achieve maximum shock wave.

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

- Stainless Steel Stamped Basket
- Low Resonance Blue Eirconium Cone
- Progressive Roll Conex Spider
- EVA Foam Gasket
- Half Roll High Excursion Surround
- 2" ASV Hybrid Voice Coil Former
- Vented & Extended Pole Piece
- Low Carbon Top & Bottom Plate
- Rubber Magnet Cover
- 40 oz. Magnet

Building the Enclosure

Determine the dimensions of your enclosure.

Be certain the box dimensions that you have 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 3/4 inch thick MDF (medium density fiberboard) to build your speaker 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 with approximately 50% Dacron or Polyester 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 wire 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-10/2	XS-12/2
Max Power	Watts	500	600
RMS Power	Watts	250	300
V. C Imp	Ohm	2Ω × 2	2Ω × 2
V. C. Size.	Inch	2.0	2.0
Mag.Wgt.oz	oz	40	40
Freq.Resp.	Hz	25~2K	24~1.7K
Fs	Hz	34.5	30.5
Qes		0.749	0.844
Qms		6.5	6.5
Qts		0.672	0.747
Vas	cu ft	1.13	2.45
Driver Disp.	cu ft	10.48	15.44
Xmax	Inch	0.2	0.2
SPL	dB	84.42	85.72
Hole Dia	mm	232	280
Mounting Depth	mm	127	140
Outer Dia	mm	270	318

Recommended box sizes

XS-10	High Output	Sound Quality
Optimum Enclosure Type	Sealed	Sealed
Enclosure Size Net (w/o drive displacement)	0.5 cubic feet	.75 cubic feet
Enclosure Size Gross (w/o drive displacement)	0.56 cubic feet	.8 cubic feet
Enclosure QTC	0.917	0.915
F3 (3dB down point)	48.48 Hz	44.89 Hz
Recommended Damping	None	Loose Fill
Drive Displacement	0.056	0.056
Recommended Box Dimensions (using .75" material)	L 17.5" × H 11.5" × W 7.5"	L 19.5" × H 12.5" × W 8.25"

XS-12	High Output	Sound Quality
Optimum Enclosure Type	Sealed	Sealed
Enclosure Size Net (w/o drive displacement)	1.25 cubic feet	3.0 cubic feet
Enclosure Size Gross (w/o drive displacement)	1.34 cubic feet	3.13 cubic feet
Enclosure QTC	0.961	0.798
F3 (3dB down point)	41.15 Hz	36.46 Hz
Recommended Damping	None	Loose Fill
Drive Displacement	0.09	0.09
Recommended Box Dimensions (using .75" material)	L 17" × H 13.75" × W 13.75"	L 29.75" × H 19.0" × W 12.25"

Recommended Wiring

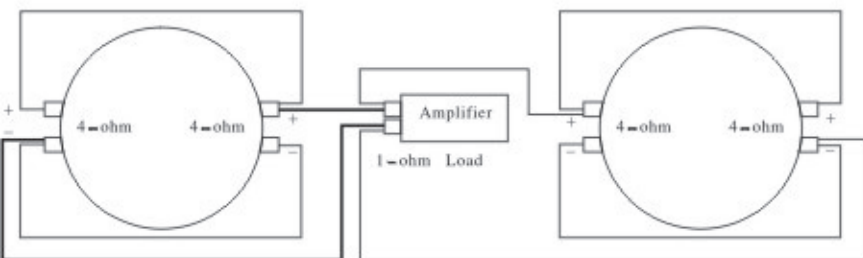
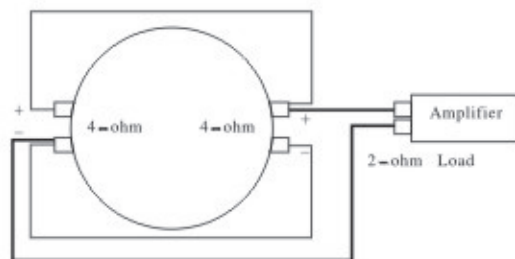
The following page will give you a few different options to match the impedance of the woofers to the impedance capability of the amplifier. Please read and follow the diagrams closely to insure maximum woofer performance.

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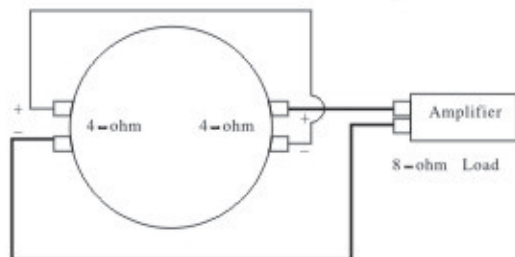
XS-10 XS-12

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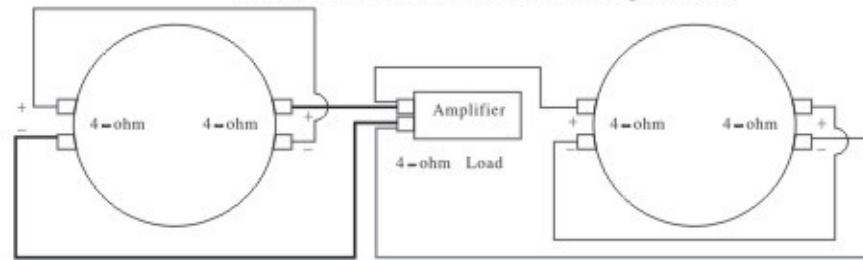
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Series/Parallel voice coil configuration



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- EVA Rubber Gasket
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Parameters

Spec/Model		XS-10	XS-12
Max Power	Watts	500	600
RMS Power	Watts	250	300
V. C Imp	Ohm	4Ω × 2	4Ω × 2
V. C. Size.	Inch	2.0	2.0
Mag.Wgt.oz	oz	40	40
Freq.Resp.	Hz	25~2K	24~1.7K
Fs	Hz	35	31
Qes		0.649	0.733
Qms		6.5	6.5
Qts		0.59	0.659
Vas	cu ft	1.13	2.45
Driver Disp.	cu ft	10.48	15.44
Xmax	Inch	0.2	0.2
SPL	dB	86.08	87.34
Hole Dia	mm	232	280
Mounting Depth	mm	127	140
Outer Dia	mm	270	318

Recommended box sizes

XS-10	High Output	Sound Quality
Optimum Enclosure Type	Sealed	Sealed
Enclosure Size Net (w/o drive displacement)	0.5 cubic feet	.75 cubic feet
Enclosure Size Gross (w/o drive displacement)	0.56 cubic feet	.8 cubic feet
Enclosure QTC	0.917	0.748
F3 (3dB down point)	51.93 Hz	51.44 Hz
Recommended Damping	None	Loose Fill
Drive Displacement	0.056	0.056
Recommended Box Dimensions (using .75" material)	L 17.5" × H 11.5" × W 7.5"	L 19.5" × H 12.5" × W 8.25"

XS-12	High Output	Sound Quality
Optimum Enclosure Type	Sealed	Sealed
Enclosure Size Net (w/o drive displacement)	1.25 cubic feet	3.0 cubic feet
Enclosure Size Gross (w/o drive displacement)	1.34 cubic feet	3.13 cubic feet
Enclosure QTC	0.967	0.721
F3 (3dB down point)	42.66 Hz	40.39 Hz
Recommended Damping	None	Loose Fill
Drive Displacement	0.09	0.09
Recommended Box Dimensions (using .75" material)	L 17" × H 13.75" × W 13.75"	L 29.75" × H 19.0" × W 12.25"

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 read and follow the diagrams closely to insure maximum woofer performance.