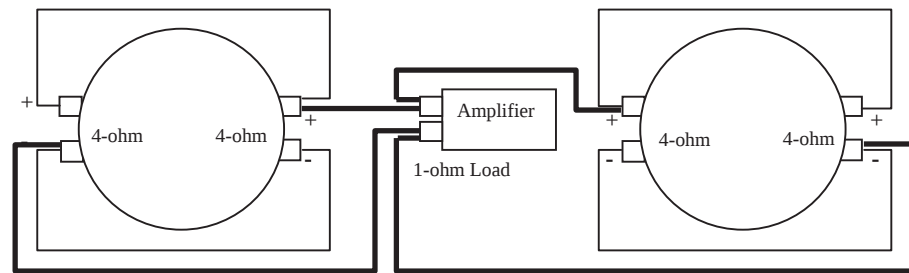
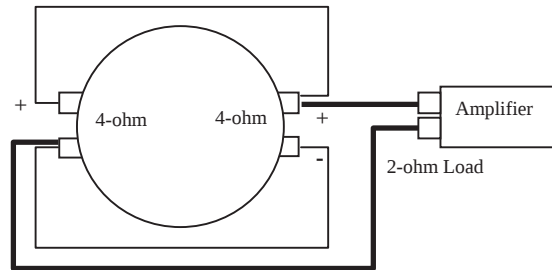
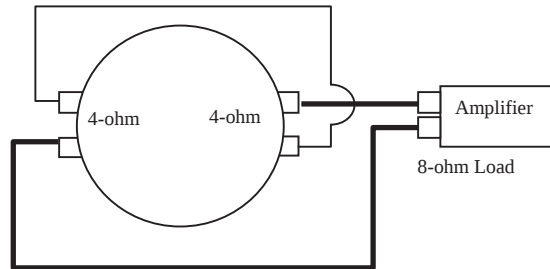


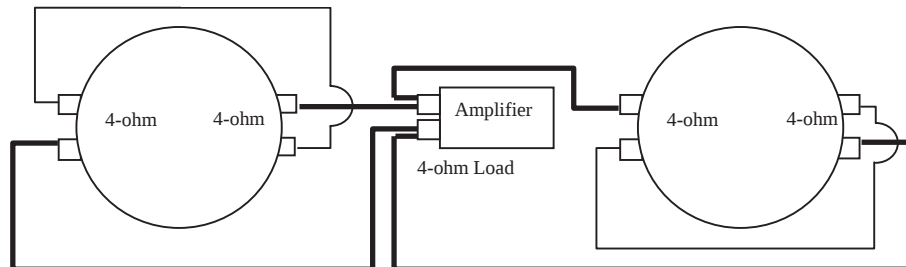
Parallel voice coil configuration



Series voice coil configuration



Series/Parallel voice coil configuration



STW-10
STW-12

Owner's manual

Power Acoustik STW Series Woofers

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

If you are an enthusiast that plays your system loud and hard, the STW woofers will take you to the limit. Our small sealed enclosure, high excursion design will move enough air to part your hair. Let your woofers do all the talking to let everyone know you are "Serious about your sound".

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.

Common Features:

Wide Foam Surround
One Piece Cone/Dust Cap Assembly
Large Diameter Poly-Cotton Spider
Integrated Tinsel Leads
Dual 4 ohm BASV Voice Coils
Reinforced Aluminum Voice Coil Former
Die Cast Aluminum Basket
1-Piece Rubber Gasket
Black Chrome Finish
Chrome Push Terminals
Vented Pole Piece

Specifications:

STW-10

800 watts power handling
400 watts RMS
100 oz. magnet
2" BASV voice coil
SPL 88 dB
Fs:35 Hz
Vas:.8 cu.ft.
Qms: 8.133 Qes: .4778 Qts:.4513
Xmax:.3"

STW-12

1000 watts power handling
500 watts RMS
120 oz. magnet
2.5" BASV voice coil
SPL 89 dB
Fs:32.8 Hz
Vas:1.7 cu.ft.
Qms: 4.49 Qes: .737 Qts:.683
Xmax:.3"

Recommended box sizes

Model	Sealed Box Size	Ported Box Size	Tune Freq.	#of Ports	Port (dia x length)
STW-10	.7 cu. ft.	1 cu. ft.	38 Hz	1	3" x 10"
STW-12	1 cu. ft.	1.5 cu. ft.	35 Hz	1	3" x 7.75"

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 .75* inch thick MDF (medium density fiberboard) to build you 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 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 Dacron or Polyester 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.

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.