

# Twister

U.S.A.

## HIGH PERFORMANCE SUBWOOFERS

### Mechanical Specifications

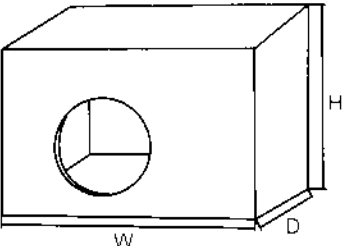
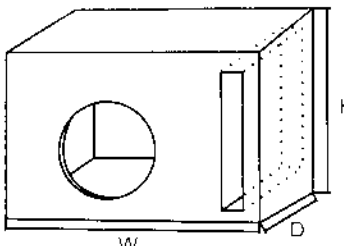
<b>Model</b>	<b>TW-12DVC</b>
Power Handling RMS/ Max (Watts)	500/1000
Magnet Weight	(40 X 2)OZ
Mounting template diameter (mm)	310
Mounting Depth (mm)	150
Voice Coil Diameter	2"

### Technical Parameters

<b>Model</b>	<b>TW-12DVC</b>
Nominal Impedance (Ohms)	4+4Ohm
FS (Hz)	27.22
Qms	2.77
Qes	0.69
Qts	0.55
Vas(liters)	61.652
Cms (micro Newtons)	165.486
Xmax (mm)	14
Sensitivity (dB)	85
Mms (grams)	206.6
Voice Coil Diameter	2"
Voice Coil Length	2.5"
Voice Coil Layers	4

### Recommended Enclosures (includes speaker and port displacement)

<b>Model</b>	<b>TW-12DVC</b>
Sealed Enclosure - SPL (Liter)	17.56
Sealed Enclosure - Nominal (Liter)	29.74
Sealed Enclosure - SQ (Liter)	67.12
Ported Enclosure ( Liter)	56.64
Port size	2" W X 14" H X 16" D
Port Tuned @	36

SEALED ENCLOSURE	PORTED ENCLOSURE
 <p><b>Sealed Enclosure Notes:</b></p> <ol style="list-style-type: none"> <li>1. Allow a 1 - 2 week break in period on all TW series subwoofers. After 1 - 2 weeks, the TW series subwoofers will reach their best performance characteristics.</li> <li>2. All sealed enclosures should be 40-50% filled with loose polyfill.</li> </ol>	 <p><b>Ported Enclosure Notes:</b></p> <ol style="list-style-type: none"> <li>1. When building a slotted port, be sure to have smooth or bevel the inner edges to eliminate port noise.</li> </ol>

# TW-12DVC

## SUBWOOFER WIRING CONFIGURATIONS

### SERIES WIRED SUBWOOFER

Voice coil 1 in series with voice coil 2.  $4\text{ ohm} + 4\text{ ohm} = 8\text{ ohms}$ . If you had two of these series wired subwoofers, you can put two in parallel with each other to get a 4 ohm mono load. (See figure B.)

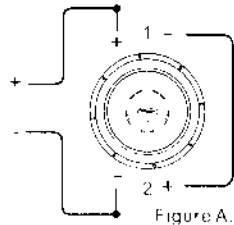


Figure A.

### PARALLEL WIRED SUBWOOFER

Voice coil 1 in parallel with voice coil 2. Two 4 ohm loads in parallel results in a 2 ohm load.

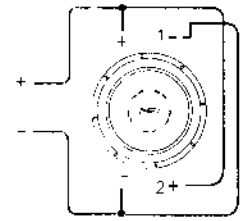


Figure D.

### SERIES / PARALLEL COMBO

Each subwoofer is the same as Figure A, as shown above. When wiring two 8 ohm subwoofers in parallel, you receive a 4 ohm mono load. This method works on 2 or 4 channel A series amplifiers.

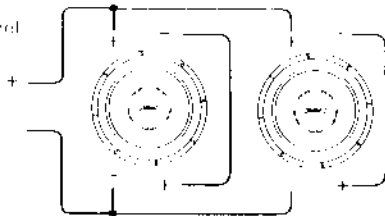


Figure B.

*If you are powering two subwoofers with a 4 channel amplifier, create two sets of 4 ohm mono loads. Parallel set up is needed (Figure B).*

### PARALLEL / PARALLEL COMBO

Each subwoofer's voice coils are in parallel. Each subwoofer is now 2 ohms. After putting the two 2 ohm subwoofers in parallel, you get a 1 ohm mono load.

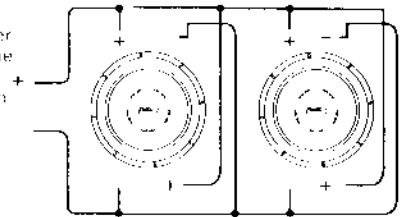


Figure C.

### SERIES / PARALLEL 6 SUBWOOFER COMBO

Each subwoofer's voice coils are put in series (each subwoofer is now 8 ohms), exactly like Figure A. After wiring three subwoofers in parallel you get a 2.6667 ohm load. Now you have two sets of 2.6667 ohm loads, one set for the left channel and one set for the right channel. This particular set up is not for just any amplifier. This set up is only recommended for the digital amplifiers. (See below.)

### SERIES / PARALLEL 3 SUBWOOFER COMBO

Each subwoofer's voice coils are in series (each subwoofer is now 8 ohms). After wiring all three subwoofers in parallel, you get a 2.6667 ohm load. This particular set up can be used with any high current amplifier that is 2 ohm mono stable.

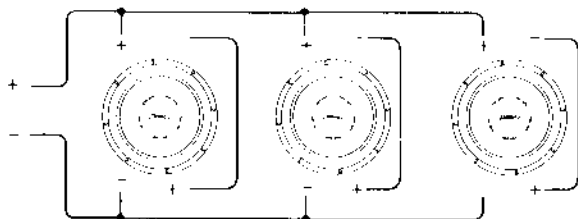


Figure E.

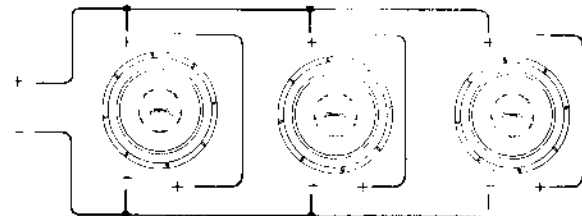
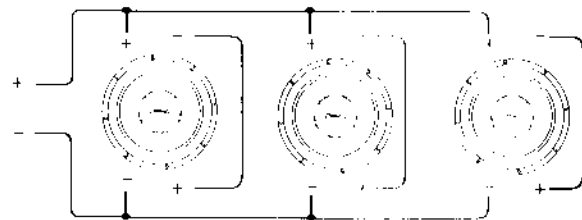


Figure F.

*If you are using the Class-D monoblock, wire one set of three subwoofers to channel A and the other set three subwoofers to channel B. You will get a 1.3 Ohm load.*

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**Warning: warranty does not cover burnt voice coils, and physically torn or damaged.**