

polkaudio®

DB840

8" Subwoofer

DB1040

10" Subwoofer

DB1240

12" Subwoofer

DB840DVC

8" Dual Voice Coil
Subwoofer/
Subwoofer

Bobines Jumelees

DB1040DVC

10" Dual Voice Coil
Subwoofer/
Subwoofer

Bobines Jumelees

DB1240DVC

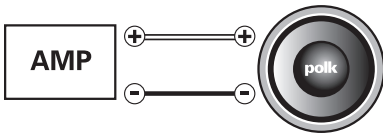
12" Dual Voice Coil
Subwoofer/
Subwoofer

Bobines Jumelees

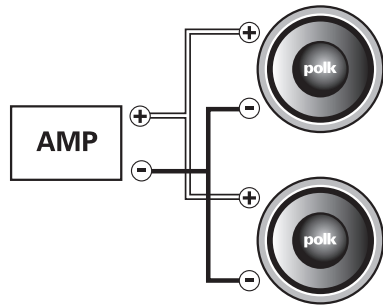


Owner's Manual

WIRING DIAGRAMS FOR db840, db1040, db1240 *(Single Voice Coil Hookup)*
Please make certain that your amplifier is rated to carry the specified load.



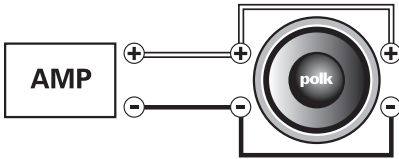
Single 4 Ohm load.



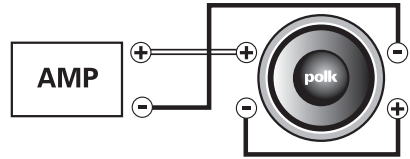
With speakers wired in parallel: Two 4 Ohm speakers will present a 2 Ohm load.

DUAL VOICE COIL WIRING DIAGRAMS FOR db840dvc, db1040dvc, & db1240dvc

Please make certain that your amplifier is rated to carry the specified load.

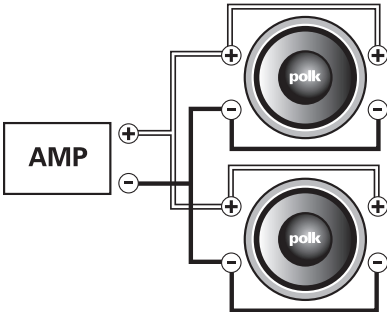


With coils in parallel, a dual 4 Ohm speaker will present a 2 Ohm load.

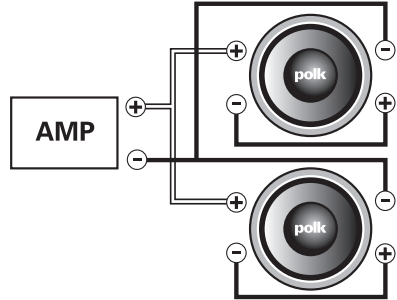


With coils wired in series, a dual 4 Ohm speaker will present an 8 Ohm load.

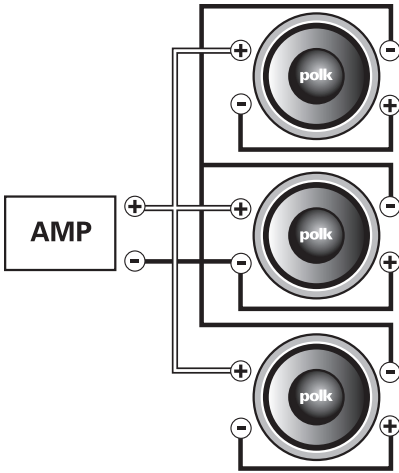
DUAL VOICE COIL WIRING DIAGRAMS FOR db840dvc, db1040dvc, & db1240dvc



With coils and speakers wired in parallel, two dual 4 Ohm speakers will present a 1 Ohm load. (Not recommended unless amplifier is rated for 1 Ohm operation.)



With the coils wired in series and the speakers wired in parallel, 2 dual 4 Ohm speakers will present a 4 Ohm load.



With the coils wired in series and the speakers wired in parallel, 3 dual 4 Ohm speakers will present a 2.7 Ohm load.

ENGLISH

PRECONDITIONING PERIOD

db Subwoofers will achieve even greater performance once they are thoroughly broken in. To break in your new db Subwoofers, play 20 to 30 hours of music at moderate levels.

OPTIMAL CROSSOVER SETTING

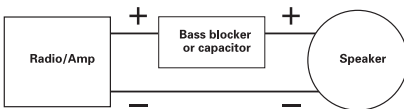
We recommend using an active crossover with a 12 to 18dB per octave low pass filter slope, and setting it to an initial setting of 80 to 90Hz as a good starting point. This is an optimal crossover setting on most vehicles.

INVERTING PHASE

Depending on the placement of your subwoofer enclosure and associated components, it may be necessary to invert the phase of one or another of your system's connections in order to gain better subwoofer/mid-range blending. Inverting the phase simply means switching the positive connections with the negative connections at the amplifier. If you choose to do this, invert the phase of only one set of speakers (either your mains, or your subs, never both).

LOW FREQUENCY CUT-OFF FOR MID-RANGE SPEAKERS IN SYSTEMS WITH SUBWOOFERS

Now that you have a subwoofer in your system, you may want to decrease the amount of bass going to your midrange speakers. This will get you better mid-range sound and increase the power handling. There are two ways to roll off the bass before it gets to your mid-range speakers. One way is to use a "bass blocker," a capacitor placed in series with the speaker input. Bass blockers are installed in series, one end connected with the positive lead from your amplifier and the other end connected to the positive lead of each of your speakers. Bass blocker capacitors (200 microfarad @ 100V, non-polarized) are available at any Radio Shack or electronic parts supply house. The other route is to use an electronic crossover device that allows filtering below 100Hz or so. Find these devices at your authorized Polk Audio dealer.



**ENGLISH
SUBWOOFER SPECIFICATIONS**

	db840	db1040	db1240
Thiele/Small Parameters			
Type	subwoofer	subwoofer	subwoofer
Driver Size	8" (203.2mm)	10" (254mm)	12" (304.8mm)
Nominal Impedance	4 Ohm	4 Ohm	4 Ohm
Frequency Response	30-200Hz	28-200Hz	27-200Hz
Fs (Hz)	42Hz	35Hz	30Hz
Re	3.5 Ohm	3.5 Ohm	3.5 Ohm
Le	2.3mH	3.0mH	3.0mH
Qms	13.4	9.1	10.4
Qes	0.58	0.59	0.46
Qts	0.56	0.55	0.44
Vas	0.54ft ³ (15.4L)	0.99ft ³ (28.3L)	2.54ft ³ (71.85L)
Sd	35.65in ² (230cm ²)	54.25in ² (350cm ²)	80.6in ² (520cm ²)
Power Handling (Watts continuous)	180 Watts	270 Watts	360 Watts
Power Handling (Watts peak)	360 Watts	540 Watts	720 Watts
Sensitivity (SPL at 1 Watt / 1 meter)	85dB	86dB	88dB
Xmax (Linear)	0.24" (6.1mm)	0.3" (7.5mm)	0.3" (7.5mm)
Voicecoil Diameter	1 1/2" (38.1mm)	2" (50.8mm)	2" (50.8mm)
Mounting Depth Top Mount	4" (100mm)	5 1/2" (138.9mm)	6" (152.4mm)
Mounting Depth Bottom Mount	4 9/16" (115.8mm)	6 1/4" (158.2mm)	6 3/4" (171.4mm)
Mounting Diameter	7 1/16" (179.4mm)	9 1/16" (230.2mm)	11" (279.4mm)

SUBWOOFER SPECIFICATIONS

	db840bvc	db1040bvc	db1240bvc
Thiele/Small Parameters			
Type	subwoofer	subwoofer	subwoofer
Driver Size	8" (203.2mm)	10" (254mm)	12" (304.8mm)
Nominal Impedance	dual 4 Ohm	dual 4 Ohm	dual 4 Ohm
Frequency Response	30-200Hz	28-200Hz	27-200Hz
Fs (Hz)	43Hz	35Hz	30Hz
Re	3.4 Ohm/coil 3.4 Ohm/bob.	3.4 Ohm/coil 3.4 Ohm/bob.	3.4 Ohm/coil 3.4 Ohm/bob.
Le	2.47mH	5.1mH	5.1mH
Qms	14.1	10.4	10.4
Qes	0.62	0.66	0.49
Qts	0.59	0.62	0.50
Vas	0.55ft ³ 15.8L	1.07ft ³ 30.29L	2.40ft ³ 67.9L
Sd	35.65in ² (230cm ²)	54.25in ² (350cm ²)	80.6in ² (520cm ²)
Power Handling (watts continuous)	180 Watts	270 Watts	360 Watts
Power Handling (watts peak)	360 Watts	540 Watts	720 Watts
Sensitivity (SPL at 1 watt / 1 meter)	85dB/series	86dB/series	88dB/series
Xmax (Linear)	0.24" (6.1mm)	0.35" (9.0mm)	0.35" (9.0mm)
Voicecoil Diameter	1 1/2" (38.1mm)	2" (50.8mm)	2" (50.8mm)
Mounting Depth Top Mount	4" (100mm)	5 1/2" (138.9mm)	6" (152.4mm)
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