# Dual Voice Coil (DVC) Wiring Tutorial

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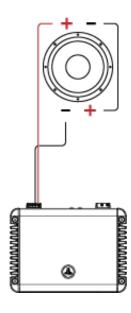
With multi-driver sub systems, which often feature dual voice coils (DVC) on each driver, the level of wiring complexity can be enough to turn-off even the most adventurous of car audio do-it-yourselfers. Fear not, though, for we have compiled wiring diagrams of several configurations for dual voice coil (DVC) drivers.

Please note that when wiring multiple drivers it is recommended that series connections between drivers be avoided at all costs. This does not include series connections made between voice coils on the same driver. For more information, please consult our Dual Voice Coil FAQs.

Additionally, if you have an idea for a wiring configuration and you do not see it here, chances are you should re-think its implementation (in other words, don't do it). You will more than likely find that the results will be less than optimal.

Note: Amplifier depicted is for reference only - check the capability of your amplifier before making any connections

#### One DVC driver with Voice Coils in Series



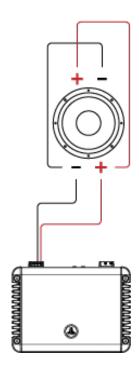
### One Dual Voice Coil Speaker in Series

Connecting the two voice coils of the driver in series (+ to -) will result in the following impedances:

Dual-8 Ohm Subwoofer: 16 Ohms
Dual-6 Ohm Subwoofer: 12 Ohms
Dual-4 Ohm Subwoofer: 8 Ohms
Dual-2 Ohm Subwoofer: 4 Ohms

• Dual-1.5 Ohm Subwoofer: 3 Ohms

### One DVC driver with Voice Coils in Parallel

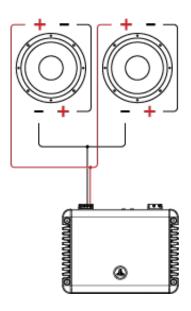


### One Dual Voice Coil Speaker in Parallel

Connecting the two voice coils of the driver in parallel (+ to +, - to -) will result in the following impedances:

Dual-8 Ohm Subwoofer: 4 Ohms
Dual-6 Ohm Subwoofer: 3 Ohms
Dual-4 Ohm Subwoofer: 2 Ohms
Dual-2 Ohm Subwoofer: 1 Ohm
Dual-1.5 Ohm Subwoofer: 0.75 Ohm

### Two DVC drivers with Voice Coils in Series / Parallel

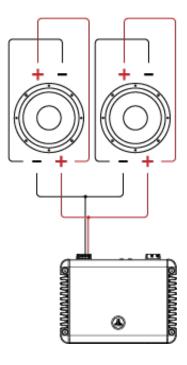


# Two Dual Voice Coil Speakers in Series / Parallel

Connecting the two voice coils of each driver in series (+ to -) and the drivers themselves in parallel (+ to +, etc.) will result in the following impedances:

- Dual-8 Ohm Subwoofers: 8 Ohms
- Dual-6 Ohm Subwoofers: 6 Ohms
- Dual-4 Ohm Subwoofers: 4 Ohms
- Dual-2 Ohm Subwoofers: 2 Ohms
- Dual-1.5 Ohm Subwoofers: 1.5 Ohms

### Two DVC drivers with Voice Coils in Parallel / Parallel

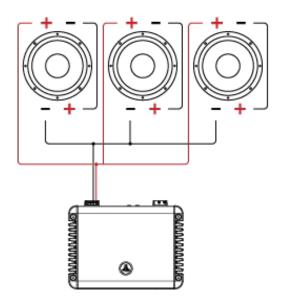


### Two Dual Voice Coil Speakers in Parallel / Parallel

Connecting the voice coils of each driver in parallel (+ to +, - to -) and the drivers themselves in parallel (+ to +, etc.) will result in the following impedances:

- Dual-8 Ohm Subwoofers: 2 Ohms
- Dual-6 Ohm Subwoofers: 1.5 Ohms
- Dual-4 Ohm Subwoofers: 1 Ohm
- Dual-2 Ohm Subwoofers: 0.5 Ohm
- Dual-1.5 Ohm Subwoofer: 0.38 Ohm

### Three DVC drivers with Voice Coils in Series / Parallel



# Three Dual Voice Coil Speakers in Series / Parallel

Connecting the two voice coils of each driver in series (+ to -) and the drivers themselves in parallel (+ to +, etc.) will result in the following impedances:

• Dual-8 Ohm Subwoofers: 5.33 Ohms

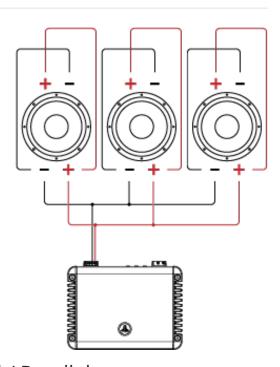
• Dual-6 Ohm Subwoofers: 4 Ohms

• Dual-4 Ohm Subwoofers: 2.67 Ohms

• Dual-2 Ohm Subwoofers: 1.33 Ohms

• Dual-1.5 Ohm Subwoofer: 1 Ohm

### Three DVC drivers with Voice Coils in Parallel / Parallel

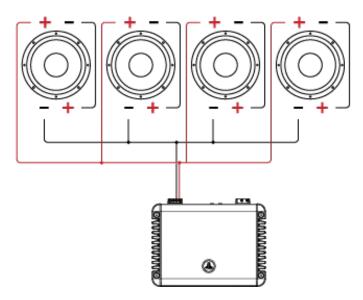


# Three Dual Voice Coil Speakers in Parallel / Parallel

Connecting the two voice coils of each driver in parallel (+ to +, - to -) and the drivers themselves in parallel will result in the following impedances:

- Dual-8 Ohm Subwoofers: 1.33 Ohms
- Dual-6 Ohm Subwoofers: 1 Ohm
- Dual-4 Ohm Subwoofers: 0.67 Ohm
- Dual-2 Ohm Subwoofers: 0.33 Ohm
- Dual-1.5 Ohm Subwoofer: 0.25 Ohm

### Four DVC drivers with Voice Coils in Series / Parallel

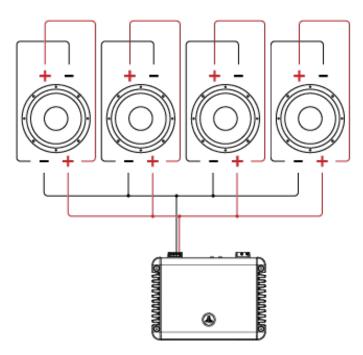


# Four Dual Voice Coil Speakers in Series / Parallel

Connecting the two voice coils of each driver in series (+ to -) and the drivers themselves in parallel (+ to +, etc.) will result in the following impedances:

- Dual-8 Ohm Subwoofers: 4 Ohms
- Dual-6 Ohm Subwoofers: 3 Ohms
- Dual-4 Ohm Subwoofers: 2 Ohms
- Dual-2 Ohm Subwoofers: 1 Ohm
- Dual-1.5 Ohm Subwoofers: 0.75 Ohm

Four DVC drivers with Voice Coils in Parallel / Parallel

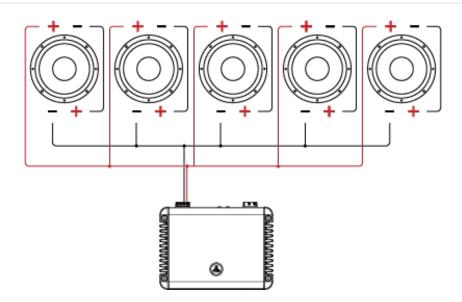


# Four Dual Voice Coil Speakers in Parallel / Parallel

Connecting the two voice coils of each driver in parallel (+ to +, - to -) and the drivers themselves in parallel (+ to +, etc.) will result in the following impedances:

- Dual-8 Ohm Subwoofers: 1 Ohm
- Dual-6 Ohm Subwoofers: 0.75 Ohm
- Dual-4 Ohm Subwoofers: 0.5 Ohm
- Dual-2 Ohm Subwoofers: 0.25 Ohm
- Dual-1.5 Ohm Subwoofer: 0.19 Ohm

### Five DVC drivers with Voice Coils in Series / Parallel

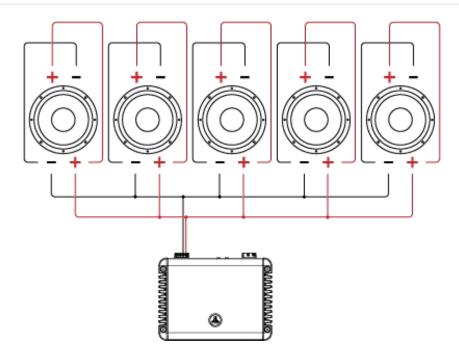


# Five Dual Voice Coil Speakers in Series / Parallel

Connecting the two voice coils of each driver in series (+ to -) and the drivers themselves in parallel (+ to +, etc.) will result in the following impedances:

- Dual-8 Ohm Subwoofers: 3.2 Ohms
- Dual-6 Ohm Subwoofers: 2.4 Ohms
- Dual–4 Ohm Subwoofers: 1.6 Ohms
- Dual-2 Ohm Subwoofers: 0.8 Ohm
- Dual-1.5 Ohm Subwoofer: 0.6 Ohm

### Five DVC drivers with Voice Coils in Parallel / Parallel

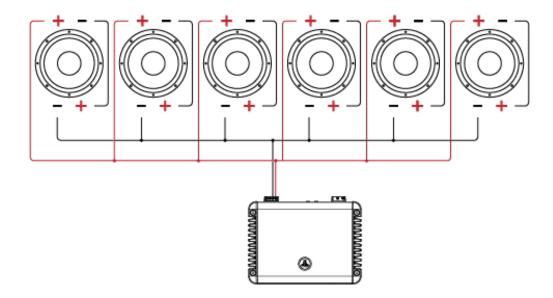


# Five Dual Voice Coil Speakers in Parallel / Parallel

Connecting the two voice coils of each driver in parallel (+ to +, - to -) and the drivers themselves in parallel will result in the following impedances:

- Dual-8 Ohm Subwoofers: 0.8 Ohm
- Dual-6 Ohm Subwoofers: 0.6 Ohm
- Dual-4 Ohm Subwoofers: 0.4 Ohm
- Dual-2 Ohm Subwoofers: 0.2 Ohm
- Dual-1.5 Ohm Subwoofer: 0.15 Ohm

### Six DVC drivers with Voice Coils in Series / Parallel

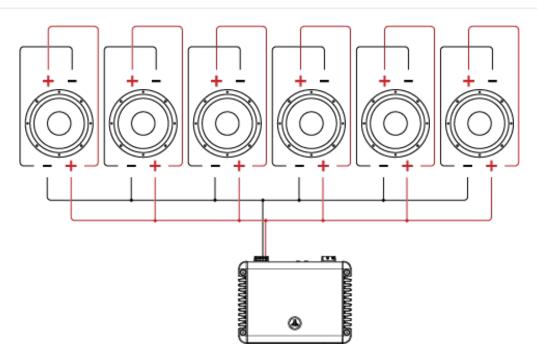


# Six Dual Voice Coil Speakers in Series / Parallel

Connecting the two voice coils of each driver in series (+ to -) and the drivers themselves in parallel (+ to +, etc.) will result in the following impedances:

- Dual-8 Ohm Subwoofers: 2.67 Ohms
- Dual-6 Ohm Subwoofers: 2 Ohms
- Dual-4 Ohm Subwoofers: 1.3 Ohms
- Dual-2 Ohm Subwoofers: 0.7 Ohm
- Dual-1.5 Ohm Subwoofer: 0.5 Ohm

### Six DVC drivers with Voice Coils in Parallel / Parallel



Six Dual Voice Coil Speakers in Parallel / Parallel

Connecting the two voice coils of each driver in parallel (+ to +, - to -) and the drivers themselves in parallel will result in the following impedances:

- Dual-8 Ohm Subwoofers: 0.67 Ohm
- Dual-6 Ohm Subwoofers: 0.5 Ohm
- Dual-4 Ohm Subwoofers: 0.33 Ohm
- Dual-2 Ohm Subwoofers: 0.167 Ohm
- Dual-1.5 Ohm Subwoofer: 0.125 Ohm