

4 Ohm Stable Amplifier 2Ω DVC Subwoofer Wiring Diagram

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This diagram shows how to wire subwoofers for a 4Ω stable amplifier (mono or each channel for multi-channel amps) for the best compromise between Ohms load and power output. Wiring for 1 to 4 subs at 2Ω per voice coil is shown.

One 2Ω subwoofer

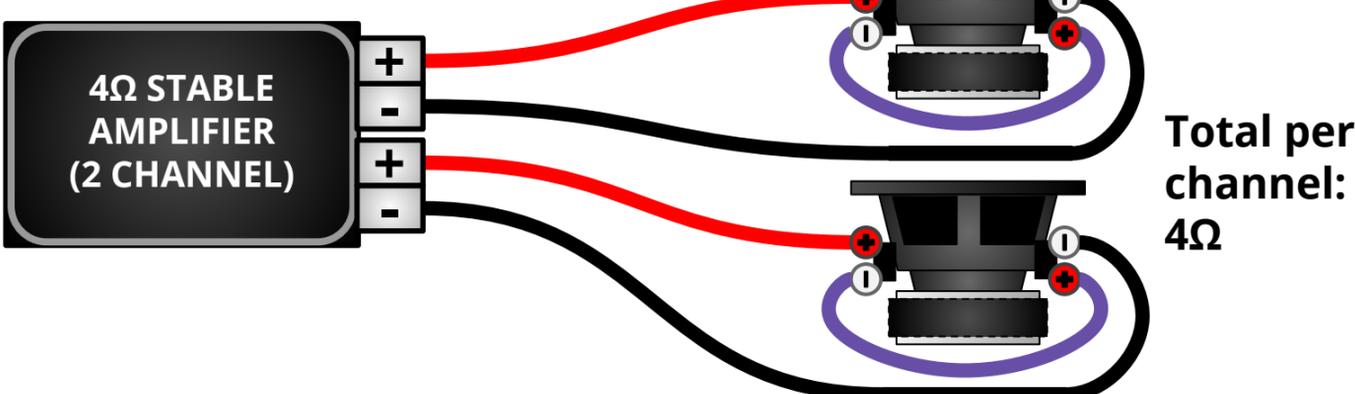


Result: GOOD - The subwoofer will have the full power output available from the amp. Both coils will share the power and run cooler than using one voice coil alone.

Two 2Ω subwoofers

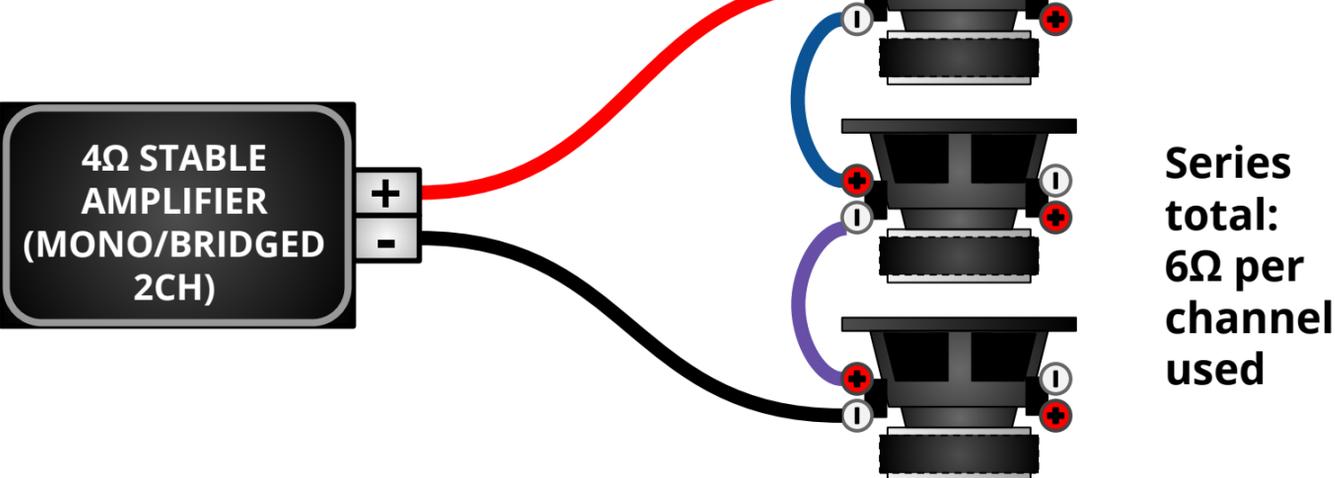


Result: GOOD - Amp power output will be the max. rated power. Each speaker receives ½ of that.



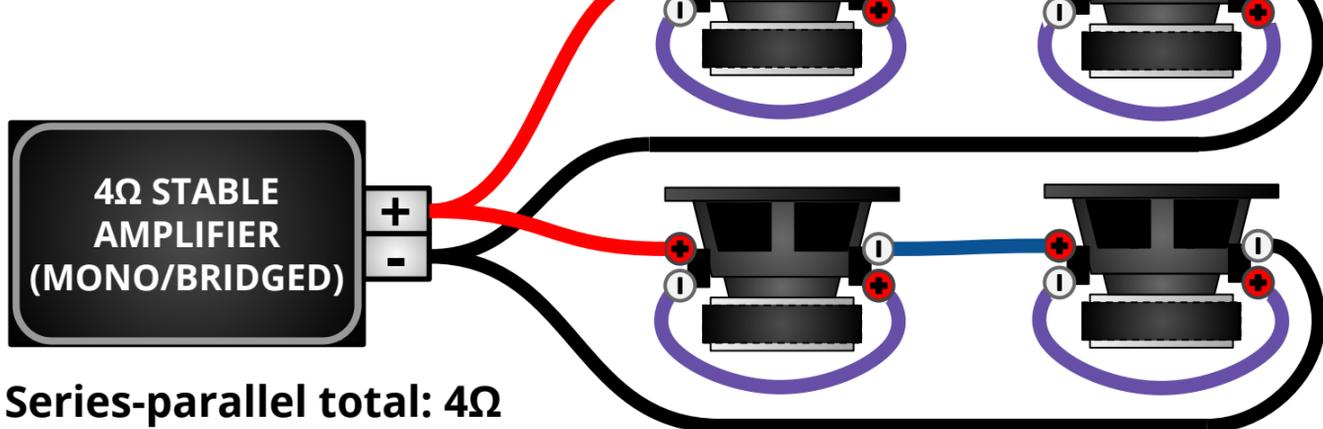
Result: GOOD - Amp power output will be the max. rated power for each channel.

Three 2Ω subwoofers

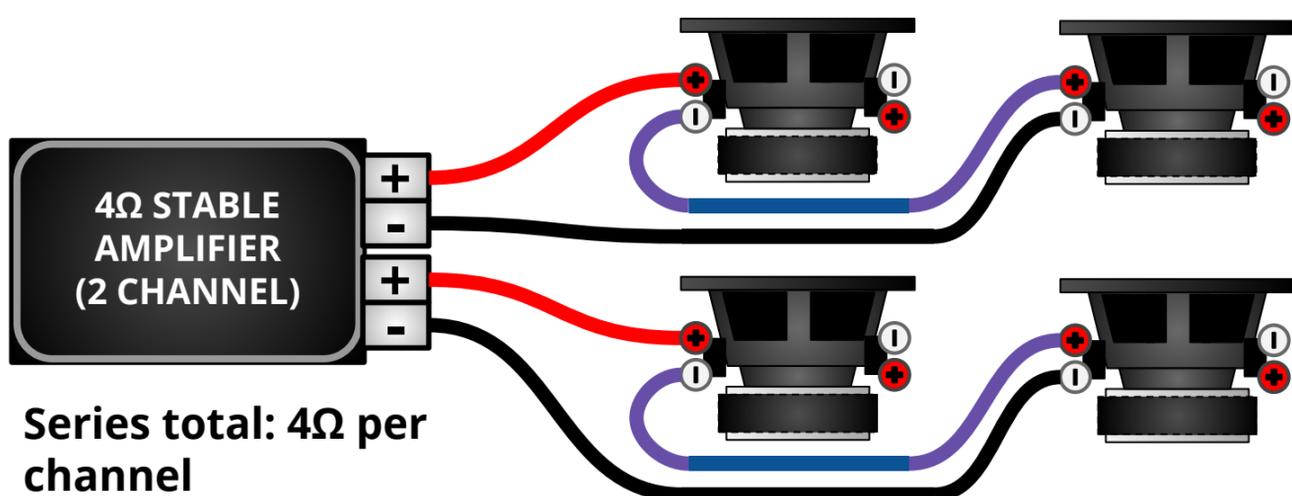


Result: Ok - The amp will deliver less total power than its 4Ω rating (not ideal). However, this is the most power-efficient way to use 3x 2Ω DVC speakers safely for mono or bridged stereo amplifier channels.

Four 2Ω subwoofers



Result: NOT RECOMMENDED - This gives the max. rated power from the amp, each with ¼ of that power (not ideal). As each half of this wiring setup is 8Ω the total speaker power is lower than a 4Ω setup. This works when 4 speakers are required but not ideal for power.



Result: OK - The amp will output the max. rated power for each channel. Each speaker receives ½ of this. Both voice coils cannot be used for a 4Ω stereo amp but this still provides adequate power.