1 Ohm Stable Amplifier 4Ω DVC Subwoofer Wiring Diagram

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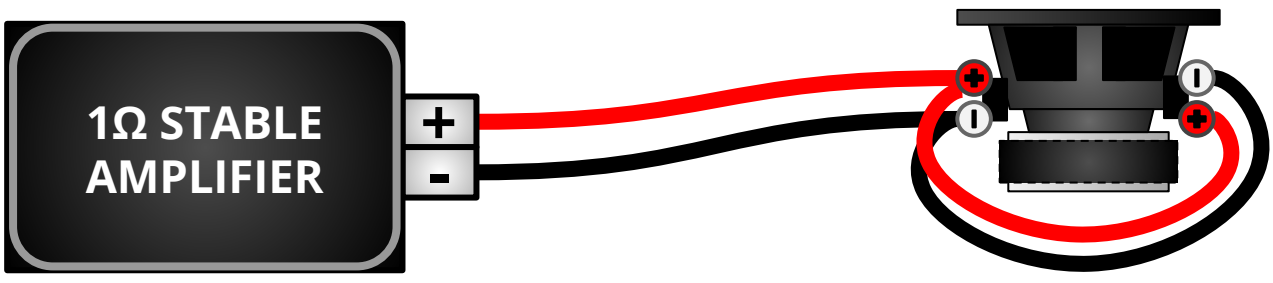
This diagram shows how to wire subwoofers for a 1Ω stable (mono) amplifier for the best compromise between Ohms load and power output. Wiring for 1 to 4 subs at 4Ω per voice coil is shown.

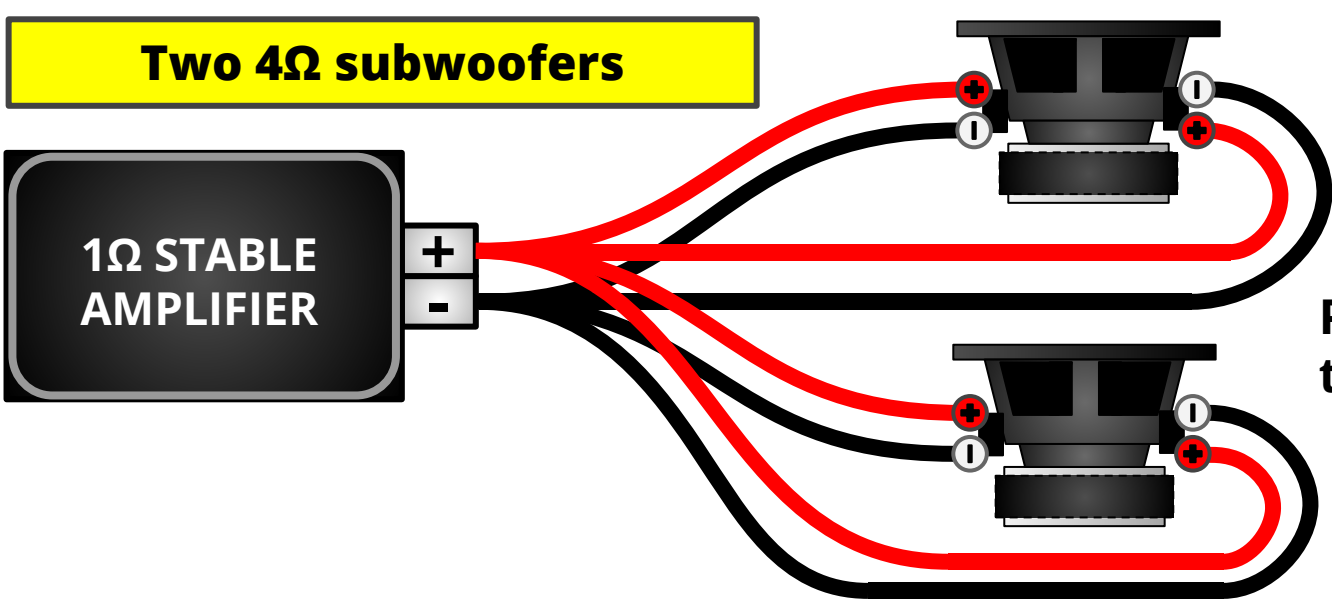
One 4Ω subwoofer



Parallel total: 2Ω

Result: GOOD*- This will deliver the amp's 2Ω rated power. Each voice coil gets ½ of the power output, runs cooler than one coil alone, and the sub is driven to its max. capability.*

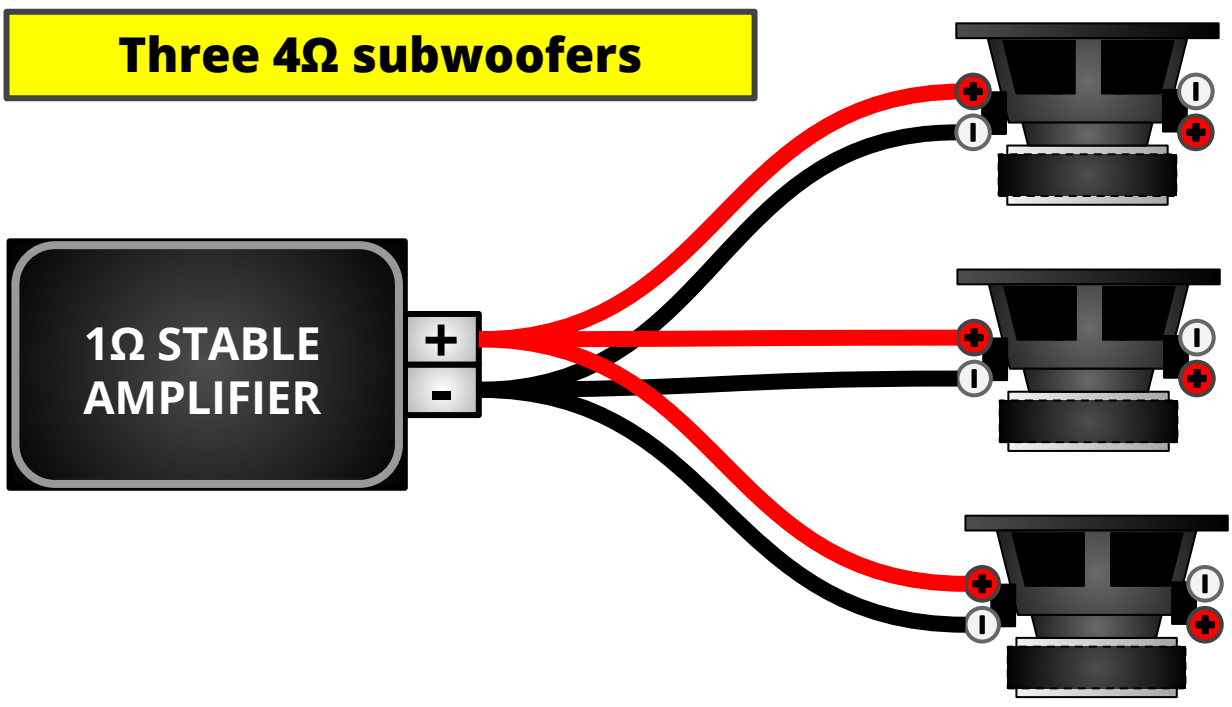
Two 4Ω subwoofers



Parallel total: 1Ω

Result: GOOD! *- Amplifier power output will be maximum (1Ω rated power) and all coils will be driven. Each subwoofer will have ½ the max. amp output power. In this case the coils run cooler also since they share power.*

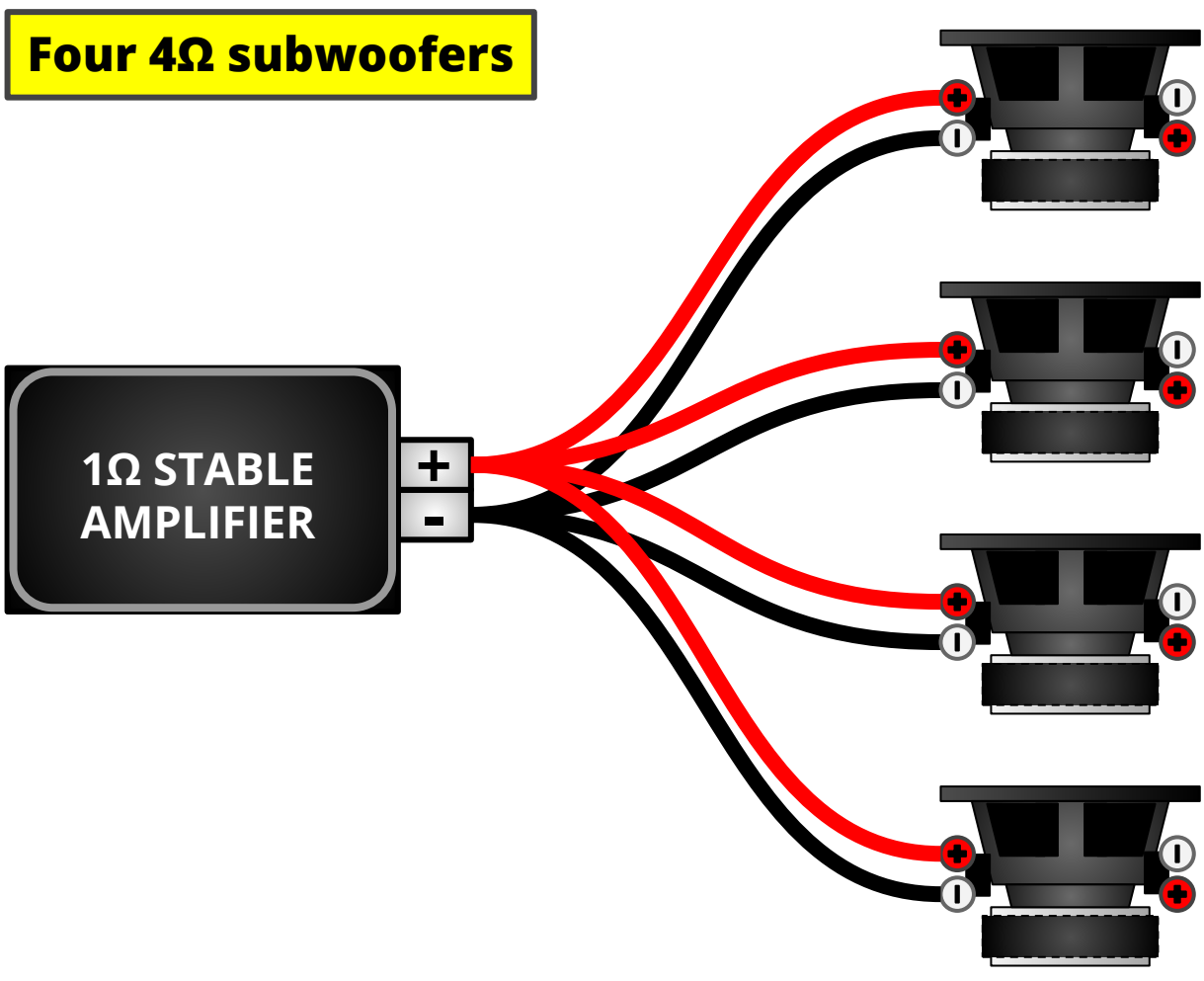
Three 4Ω subwoofers



Parallel total: 1.33Ω

Result: OK - The amp will deliver close to its maximum rated power. *Each subwoofer will receiver ⅓ the total power output. However, the single voice coil will have to handle more power & heat alone than when using both voice coils.* ***This is the most power-efficient way to use three 4Ω DVC subs.***

Four 4Ω subwoofers



Parallel total: 1Ω

Result: OK *- This will deliver the maximum rated power from the amp with each sub receiving ¼ the total power. As only one voice coil is used, the single voice coil will not run as cool as using both.* ***This is the most power-efficient way to use four 4Ω DVC subs.***