

---

Subject: heads n cabs

Posted by [Ben](#) on Wed, 15 Feb 2006 11:31:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

can anyone tell me wat would happen if i was to use a 100w head with a 50w (single speaker) cabinet. I read somewhere that you can half the heads power by takin some of the tubes out is this true?

---

Subject: Re: heads n cabs

Posted by [Wayne Parham](#) on Wed, 15 Feb 2006 15:38:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Don't remove any tubes. Just don't crank it as much or you'll let the smoke out of the speakers.

---

Subject: Re: heads n cabs

Posted by [Damir](#) on Wed, 15 Feb 2006 21:11:43 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

100W amp probably has 4 output tubes (most often EL34 or 6L6GC) in push-pull parallel. Simplified, first and second power tubes are "push" half, wired in parallel. Other two tubes (3rd and 4th) are "pull" half, and also wired in parallel. You can remove, say first and fourth (or 2nd and 3rd), and have a PP amp with only two output tubes. Power would be halved, and most of "half-power" switches on some amps work that way - to disconnect (cathodes) two of four power tubes. Then you have the "proper load" part - theoretically, you must now connect your (say 8 Ohms) cabinet to the 4 Ohms tap, to have the "proper" load for the power tubes. Some authors find it unnecessary (see "London Power" FAQ), but better be carefull with "Marshalls". I'd simply buy 100W+ guitar speaker and replaced 50W model in the box...

---

Subject: Re: heads n cabs

Posted by [Ben](#) on Thu, 16 Feb 2006 11:21:46 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

thanks for your help!! its startin to make sense now, but i missed the opportunity anyway. there was a 60's laney cabinet on E to the Bay (; it went for 26 pound in the end..... couldnt believe it. but i probably dont really need that much power yet anyway so i can live with it! cheers for the info