

**TF103-48 Output Transformer (TF-103-48H w/ 2 3/8" mounting centers).**

A single-ended output transformer with a 8000 ohm primary and both 4 and 8 ohm secondary connections.

A bolt-on replacement for Fender Champs, also a general replacement for many small guitar amps and console radios.  
Typically used with tubes such as 6BQ5/EL84, 6BM8/ECL82, 6AQ5/EL90, 6CM6, 6V6-GT.

**NOTE: If you do replace the mounting bracket on this transformer, be careful NOT to damage the insulation on the bobbin or the air-gap between the core sections of the transformer, or separate the metal core laminations. Doing so will negatively affect the electrical performance of the transformer.**

Maximum recommended DC primary current is 40 milliamps. Using somewhat more than 40 ma will not physically damage the transformer, but electrical performance (max wattage output, distortion & bandwidth) will not be as good as it will with lower primary current.

Primary  
Power RED  
Plate BLUE

Secondary  
8 ohms GREEN  
4 ohms YELLOW  
Ground/0 ohms BLACK

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