QSC MX700 Bias

[**Re: MX 700 current overload values**](http://184.72.55.192/forum/viewtopic.php?f=5&t=2050/viewtopic.php#p7863)

[Post](http://184.72.55.192/forum/viewtopic.php?p=7863&sid=c558815e44a3dfec7ef46c130cba5099#p7863)by [**Bob Lee**](http://184.72.55.192/forum/memberlist.php?mode=viewprofile&u=4&sid=c558815e44a3dfec7ef46c130cba5099) on Wed Oct 13, 2004 2:59 pm

What you would need is a 1 kHz sine wave signal source, a 350-watt (or higher) 2-ohm load, a DMM, and an oscilloscope.  
  
First, set the bias with the amp **cool, at room temperature.** Measure the DC voltage across either R15 or R16, and adjust TR3 to get about 80 mV. Repeat for the other channel. If the amp warms up, you'll have to wait for it to cool down.  
  
Connect the 2-ohm load, the scope, and the DMM to one channel output of the amp. Put a 1-volt 1 kHz sine wave into the input and turn up the gain. The amp should not clip until it reaches 37.5 volts peak, or 26.5 volts rms. If it clips before then on either the positive or negative sides, adjust TR1 (negative) and/or TR2 (positive) so that it doesn't. Instead, adjust them so that you see clipping just start to occur **symmetrically** when you boost the output voltage above 37.5 volts peak / 26.5 volts rms.  
  
The amp doesn't have to be cool for the current limiting adjustment, but you have to work fairly quickly because the amp can heat up to the point of shutting down after a couple minutes of driving full power into a 2-ohm load.