

ENCORE MICROWAVE XT EXPANSION BOARD INSTALLATION

Contents of this product: Microwave XT DSP Expansion PCB, three 12mm posts, six screws

Note: It's very important you protect your Waldorf MicrowaveXT and this DSP Expansion board from static!! Most people do not have the proper anti-static environment, so we will try to provide some practical hints to keep your hardware safe.

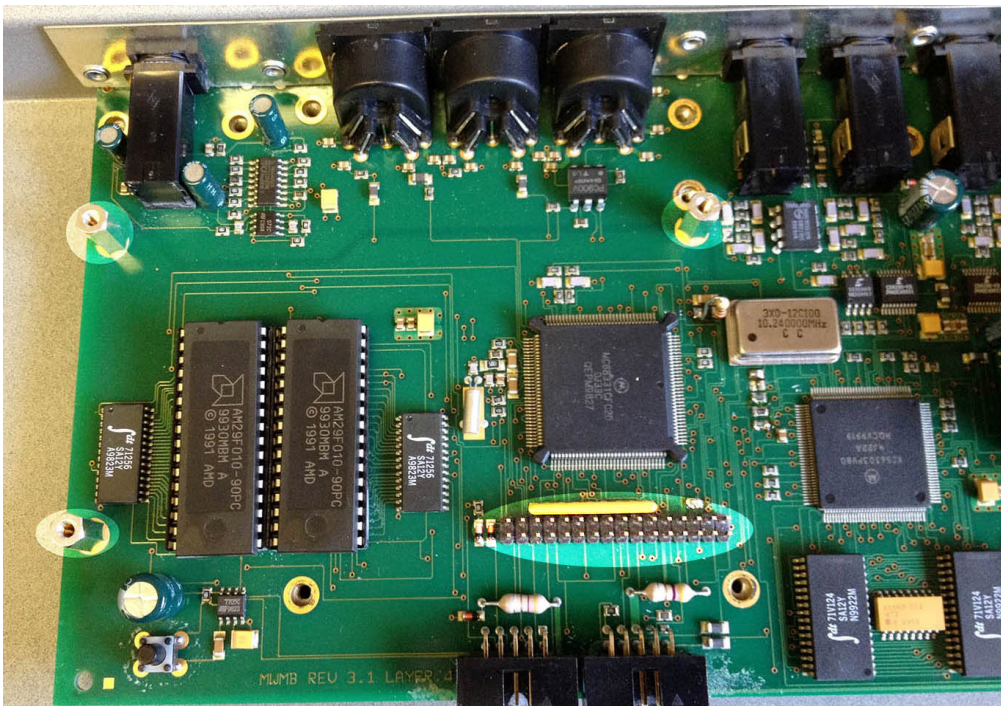
1. After opening your Microwave XT, touch the inside sheet metal with your hand, elbow, or some other body part at all times. This will keep your electrical potential the same as the instrument and will minimize most static issues.
2. Open our anti-static bag WHILE you are touching your instrument. (This can get a bit tricky, but you're smart and can figure out how to do it)
3. During this procedure, any time you have to leave your hardware, remember to touch the inside sheet metal when you return. This will equalize any charge you may have created while walking around your house.

Now that we have that out of the way, let's get started.

Open your Microwave XT. You must remove 12 screws in total: 3 along the back, 3 on each side, and 3 along the bottom front edge. You can then separate the top from the bottom.

The next step is to remove the main PCB from the bottom chassis. This is necessary to install the expansion mounting hardware. There are 11 screws on the inside, and 5 on the back. The three highlighted areas in this image show where the posts will go.

Confirm you see the highlighted connector in the image below. If not, your Microwave cannot accept the expansion board. Now mount the three posts to the PCB using the included screws. (also highlighted in the image below)



Re-install the main PCB into the chassis.

Hold the expansion board by the perimeter to avoid touching any traces or components, and while aligning the holes to the posts, press down to complete the connections. Install the 3 remaining screws into the same locations as shown below. If the screws do not go in, you have installed the board incorrectly (it might be off by one pin.)

Also, there might be a two pin jumper along the right edge of the expansion connector. If it's there, remove it before installing the expansion board.

Do not power it on if you cannot get the screws into the holes. Check your work!!



Once you feel that you have performed the above steps properly, close up the instrument and re-install all the screws. **Remember to connect the front panel cable.**

Turn on the power, and the Microwave XT will automatically detect the expansion board. You will see the voice count climb to "30 Voices" in the lower left hand corner of the display as shown here:



If you do not see the voice count climb to 30, then your Microwave XT needs a modification.

This was factory documented and many units already have it. There is a small surface mount resistor right below the main oscillator. It need to be removed and replaced with a wire or solder blob. An example image is shown here. It is a simple modification, but if you're not comfortable or not equipped to make this modification, please get the assistance from a service center or an electronic hobbyist.

