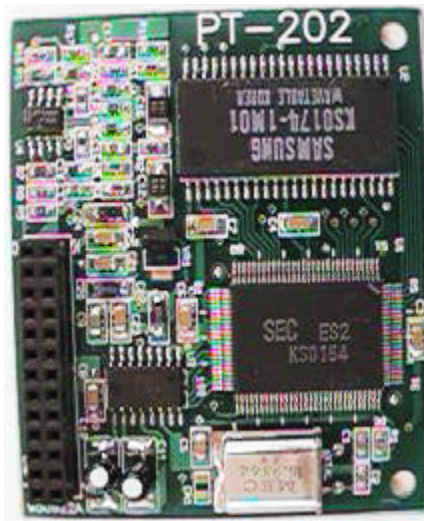




Model 2030



Model 202A

Model # 2030 & Model # 202A WAVETABLE DAUGHTERBOARD UPGRADE MODULES

Upgrade your existing 16-Bit sound card to Wavetable General MIDI synthesis, and listen to a new dimension in sound.

SECTION 1 - FEATURES

The Model # 2030 YAMAHA OPL4-ML & Model # 202A SAMSUNG 0164 Wavetable upgrade daughterboards connect to any standard 16-Bit sound card which supports a standard 26-pin (13 x 2) wavetable upgrade interface connector. This turns your existing FM synthesis sound card in to a card capable of producing an orchestra of sounds, providing samples of real instruments contained in the on-board 1MB of Wave Table ROM. It is **GENERAL MIDI** compatible which means it can play sound tracks of thousands of General MIDI compatible games, or MIDI (.mid) sound track files. Installation is simple, and **no software drivers are required**. This makes the YAMAHA OPL4-ML & SAMSUNG 0164 wavetable daughterboards your ideal choice for installation-easy top quality sound upgrades.

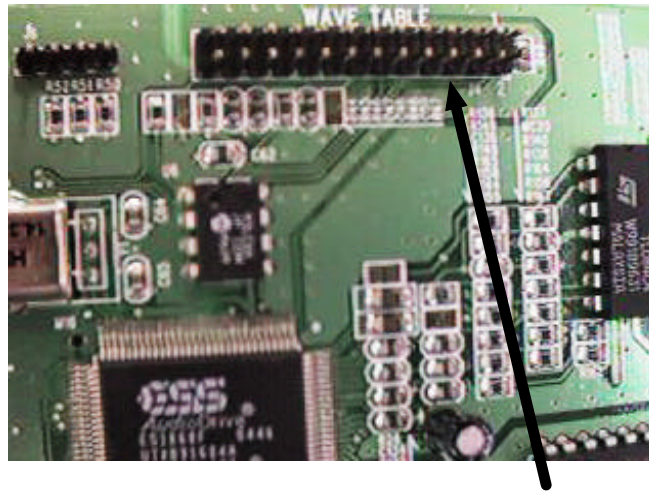
SECTION 2 - SPECIFICATIONS

- YAMAHA OPL4-ML Chipset or SAMSUNG 0164 Chipset
- Complies with GM General MIDI system Level 1
- Able to generate multiple voice simultaneously for multi-timbral instrument layering
- 128 **General MIDI** instrument samples contained in 1MB of Wave Table ROM
- Compatible with most brands of sound cards with 'wavetable upgrade' support through 26-pin (13 x 2 double row) interface connector.

SECTION 3 - INSTALLATION

Installation is simple because this product does not require any software installation drivers. Please follow this simple instructions....

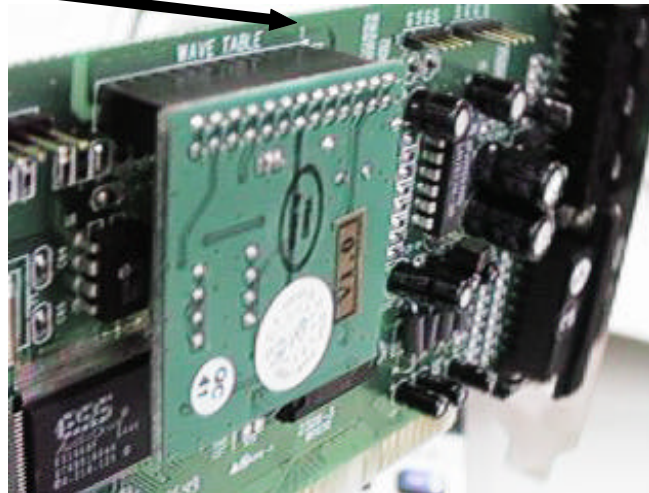
1. Turn off your computer
2. Disconnect the plug from the mains socket
3. Open your system case and locate your existing sound card
4. Consult your existing sound card manual to find the wavetable upgrade interface connector location.



Locate the wavetable upgrade connector

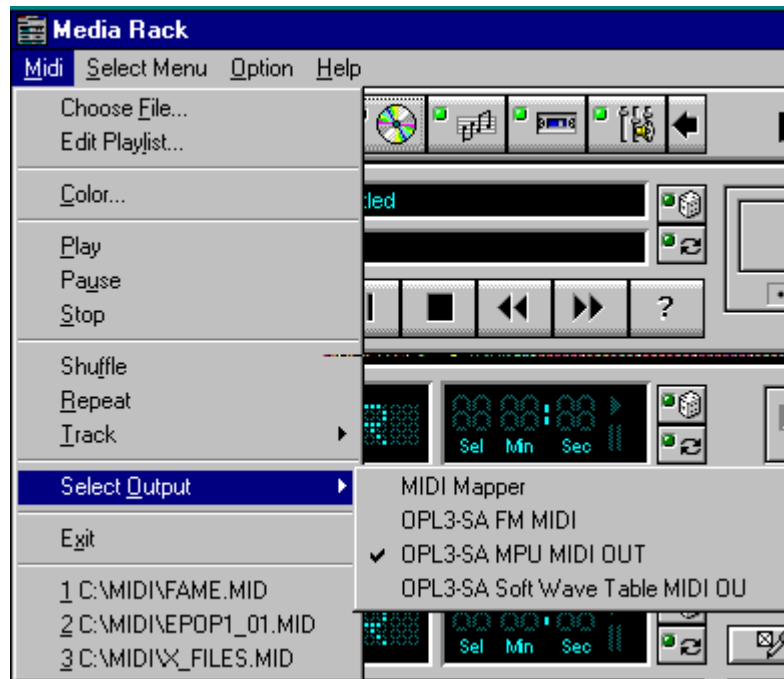
5. Hold the YAMAHA OPL4-ML or SAMSUNG 0164 wavetable by the sides of the PCB (Printed Circuit Board) being careful not to touch any surface components, and insert it on to the sound cards 26-Pin interface connector, being careful to ensure the insertion is in the correct way (point #6 below)

Pin # 1

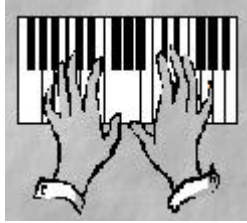


6. **(Insertion Position)** : Your existing sound card should have a marking on it's PCB next to the 26-pin interface connector, showing the location of 'Pin 1' of this connector. Align this with 'Pin 1' of YAMAHA OPL4-ML or SAMSUNG 0164 wavetable daughterboard.
7. Push firmly to fully insert, being careful not to damage any components on the sound card or wavetable. **(Note :** if your systems is unplugged and access to your existing sound card permits, you do not have to physically take our the sound card to add the wavetable - however we would recommend that you do take out the sound card to make the addition of the wavetable daughterboard easier).
8. (If necessary) replace your sound card and then close your system case cover
9. Connect your cable and turn on your system
10. Installation is now complete

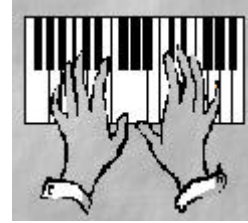
To listen to the sounds of the wavetable you must first ensure that whatever software you are using is directed to the GENERAL MIDI wavetable. This can be achieved in Windows 3.1x by choosing MIDI MAPPER or in Windows '95 by choosing MUTLIMEDIA in their respective CONTROL PANEL's. Other 3rd party software packages usually give you options for directing the sound information to either your existing FM synthesis sound or GENERAL MIDI / WAVETABLE SOUND within the software setup or options programs (as per the following example from the **Willowpond MediaRack** software included in this MMCD...)



Here's a sample of the same song using FM synthesis & this wavetable synthesis. Click on each icon to listen to the difference...



Funky FM



Funky OPL4-ML Wavetable

And, to learn more about MIDI / GENERAL MIDI / FM SYNTHESIS & WAVETABLE SYNTHESIS please refer to the MMCD Library and choose the **MIDI information section..**

Thank you...