

TBS-2000

v1.5

README.DOC

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Special Version 1.5 Installation Notes

There has been a hardware change to the TBS-2000 for version 1.5 that should make configuring the card much easier. Originally, the TBS-2000 needed 3 IRQ's to function in Windows 95. It was difficult on certain systems to allocate that many IRQ's to one card. A change was made to the EEPROM on the card to allow the card to use only 2 IRQ's, freeing the third for other devices in your system. This was done by disabling the IRQ in the MPU-401 driver. This IRQ is only used for MIDI Input to the TBS-2000. The MIDI Input capability is only needed if you are connecting an external MIDI keyboard or other MIDI controller to the TBS-2000 via a MIDI Adapter. MIDI Output will not be affected by this change (i.e. DOS/Windows 95 games, multimedia apps, etc.) If you *do* need the MIDI Input capability, the procedure for re-enabling the device is shown below.

Enabling MIDI Input on the TBS-2000 (Windows 95)

- Enter Windows 95 and click on the "My Computer" icon with the RIGHT mouse button and select 'Properties.'
- Choose "Device Manager" and double-click on "Sound, Video, and Game Controllers."
- Double-click on the "MPU-401 Compatible" driver and select "Resources."
- Un-check the "Use Automatic Settings" box and change the "Setting based on" field from 'Basic configuration 0000' to 'Basic configuration 0001.'
- An 'Interrupt Request' option will appear in the 'Resource settings' window.
- Verify that the default IRQ for the MPU-401 is not conflicting with any other devices in the system by looking at the 'Conflicting device list.'
- If another device is trying to use the same IRQ as the MPU-401, double click on the 'Interrupt Request' and cycle through the choices until you find an Interrupt that reports 'No devices are conflicting.'
- Press 'OK' to save the changes. You may need to reboot for the changes to take effect.

Customer Support via CompuServe, America Online, or Internet

An excellent alternative to customer support via phone or mail is using CompuServe, America Online, or Internet, three of the leading online systems in the world.

Turtle Beach maintains several active forums on CompuServe. For customer support contact Turtle Beach at 71333,2432 in forums MIDIVEN Section 2 and MULTIVEN Section 16 or GO TURTLE (multimedia vendors' forum) and GO TBMIDI (MIDI vendor's forum).

For Turtle Beach customer support via America Online, send E-mail to SUPPORT@TBEACH.COM or use America Online's Internet gateway to access the addresses below.

For support via Internet, visit our World Wide Web page at, [HTTP://WWW.TBEACH.COM](http://WWW.TBEACH.COM) or our FTP site at, [FTP.TBEACH.COM](ftp://WWW.TBEACH.COM).

Customer Support via BeachComber Bulletin Board

The BeachComber bulletin board is available 24 hours a day. The bulletin board can be reached at **(510) 624-6279**, up to 38,400 baud, eight (8) data bits, No parity bits, one (1) stop bit via modem. The BeachComber bulletin board maintains product demonstrations, sound files, MIDI files, and helpful information for Turtle Beach products.

Customer Support via Faxback

The Turtle Beach Faxback service can eliminate most common user problems and is an excellent alternative for off-hours support. Call the faxback system 24 hours a day at **(510) 624-6296**.

Customer Support via Telephone

If you encounter problems or have questions about installing the TBS-2000, call the Turtle Beach customer support staff at **(510) 624-6265**, 7 days a week from 8:00 a.m. to 5:00 p.m. PST. To fax user problems mark them --Attention: Customer Support--to **(510) 624-6292**.

Windows 3.1, Windows 3.11, and Windows for Workgroups Important Installation Note

If you are performing TBS-2000's DOS installation program, be sure you are starting from a native DOS prompt, and not a MS-DOS box. Installing from the enhanced mode DOS box will lead your Windows to repeatedly crash.

Installing the TBS-2000 in Windows 95

The TBS-2000 is fully Plug and Play compatible. Please follow the instructions outlined in the manual for Windows 95 installation.

TBS-2000 Applications in Windows 95

Most of the applications supplied with the TBS-2000 work in the Windows 95 environment. There are some exceptions as noted:

1. The Sierra audio rack does not work in Stealth mode.
2. Microwave may cause problems when used as an OLE server.
3. The Turtle Beach CD player shows a white rectangle to the right of the main controls. This does not affect the operation of the program.

Low Priority on the TB Mixer

In general, you will not need to use the "Low Priority Input" button on the TB Mixer. There are a few applications (such as "Voice Pilot," included with the Windows Sound System software) that make use of the input levels shown after clicking on the Low Priority Input button, but most applications do not. If you wish to set input levels for applications such as Sound Recorder, Quick Recorder, Wave SE, or MicroWave, click on the Wave Input button and adjust the levels shown.

MicroWave and OLE

MicroWave is functionally compatible with OLE 1.0, and with the identical functions in OLE 2.0. However, MicroWave will not function with OLE 2.0 specific calls.

Problems Recording or Playing Back .WAV Audio

If you are experiencing problems recording or playing back .WAV audio, enter the Windows Control Panel and open the Drivers section (Win 3.1x) or open the System icon in the Control Panel (Win95). TBS-2000 driver and choose Half Duplex. Restart your machine and try recording or playing back .WAV audio. **NOTE:** In this configuration, simultaneous .WAV record and playback is not available.

Recording Through Multiple Inputs

Although TBS-2000 has multiple inputs, you can only record through one audio input at a time.

Using the Line In Jack on TBS-2000

If you are using headphone out jack on your CD-ROM drive through the Line In jack on the back of TBS-2000, you may notice that the volume is quite loud. To remedy this, adjust the output level on the input mixer or turn down the volume knob on your CD-ROM drive.

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TBS-2000 Questions & Answers

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The following are common questions and answers pertaining to the installation and use of the TBS-2000.

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I. Installation Issues

1. During the Installation in Windows 95, I was asked to insert my original Windows 95 CD or diskette. After I inserted the CD (disk), my computer was unable to find the driver(s).

In order to properly install the Gameport and MPU-401 portions of the card in Windows 95, the TBS-2000 relies on Microsoft drivers. These are available on your original Windows 95 CD or diskette. They are located in the WIN95 directory or the Microsoft Windows 95 CD-Rom.

2. Once my installation was completed, I was unable to boot into Windows 3.1x.

Chances are, you have a hardware conflict with another card in your system. Boot into DOS and enter C:\TBEACH\DOSAPPS. Once in the TBEACH\DOSAPPS directory, type TBSDIAG. This will run the DOS diagnostics. Run the diagnostics and write down the settings that fail (Marked in red in TBSDIAG). Insert your TBS-2000 drivers disk in your floppy drive and type 'Install.' Select 'Configure' from the Main menu and change the settings that were failing diagnostics. After the configuration procedure, reboot the system and try TBSDIAG again. Repeat this procedure until you find working settings.

II. DOS Application Issues

1. The audio levels for my DOS game's sound effects and MIDI music are not matched?

Use the TBSMIX.EXE utility to set the relative sound levels to more appropriate levels. Type TBSMIX /? at the command line prompt to see the available options. Once in the TBSMIXER, the WAVE slider controls sound effects and the SYNTH slider controls MIDI music (both FM and Wavetable).

2. The music in my DOS games sounds "tinny" and unrealistic.

The TBS-2000 has two synthesizers built on to the board: An OPL3, FM Synthesizer and the ICS WaveFront, Wavetable Synthesizer. For more realistic, sampled sounds, you should use the wavetable synthesizer. Most games have a separate choice for "Music Device" or "Music Board." You should choose General Midi, Roland MPU-401, or Waveblaster. The port setting you select should correspond to the MPU-401 I/O setting in the TBSDIAG program (in the TBEACH\DOSAPPS directory). The default value is 330.

3. How do I change the DOS configuration settings for the board? (Win 3.1x installtion Only: Windows 95 users see Appendix B)

Insert your TBS-2000 drivers diskette and type 'install.' Choose 'Configure' from the menu and follow the directions to change your settings. You can choose to reconfigure DOS, Windows, or both using this utility.

4. How do I change the DOS default startup volumes for the TBS-2000?

Once your computer has booted to DOS, enter the TBEACH\DOSAPPS directory and type the command TBSMIX. All of the default levels will be displayed. Adjust the levels with the mouse our the keyboard and the tab key. Click on 'Save' to keep the settings.

You can also insert default volume levels in your AUTOEXEC.BAT file with the TBSMIX utility. Type TBSMIX /? in the TBEACH/DOSAPPS directory for the parameters.

5. In some of my DOS games, the DOS Hot Key Mixer does not function?

Some DOS games do not allow the DOS Hot Key Mixer to effect the volume levels. Many of these games have their own level adjustments.

III. Windows 3.1x Application Issues

1. How do I reconfigure my Windows hardware settings?

You can reconfigure your Windows settings using the 'Configuration'

utility on your original install disk. Exit Windows and return to a DOS prompt. Insert your TBS-2000 drivers diskette and type 'install.' Choose 'Configure' from the menu and follow the directions to change your settings. You can choose to reconfigure DOS, Windows, or both using this utility.

2. When I am preparing to record and I want to check the levels in the mixer, I notice a slight phase shift (fading in and out of sound) in the audio from my speakers. What is causing this phase shift?

The Turtle Beach mixer is designed for maximum user control. One capability allows you to switch between Master Out and Wave Input and hear the audio signal as output and input simultaneously. This means you can mute the sound in Master Out and switch to Wave Input to adjust the signal to an appropriate level for recording. This capability may lead to a slight phase shift in your output, but it will not be detectable in any .WAV file recording.

IV. Windows 95 Configuration

1. Does my TBS-2000 work with Windows 95?

Yes, the TBS-2000 works with Windows 95 and is fully Plug and Play compatible.

2. My computer locks when I try to enter Windows 95.

The first step in solving this problem is to see when the lock-up happens. To do this, reboot your system and hit the F8 key when the "Starting Windows 95" message appears. You will see a menu of choices; choose "Step by Step Confirmation." Answer Y to the individual lines and try to isolate the line that is locking the system. If the TBS2000.EXE line is causing the system to lock, either move it to the top of the Config.sys or make sure that EMM386.EXE is not being loaded. You can edit the Config.sys by choosing F8 and entering Win95 in Safe Mode. If the computer locks on another line, use the troubleshooting procedure in the manual for assistance.

3. I chose not to install the TBS-2000 gameport, but now there is a yellow symbol next to "TBS-2000" in the Device Manager section of my System icon.

Since the TBS-2000 is a Plug and Play card, all four of the devices on the hardware are detected by Windows 95 (TBS-2000 PnP hardware, TBS-2000 WaveFront Synthesizer, Microsoft compatible Gameport and Microsoft MPU-401). By using the yellow symbol in the Device Manager, Windows 95 is simply telling you that you have chosen not to install a possible Plug and Play device.

4. When I play MIDI files in Windows 95 they sound "tinny" and unrealistic.

The TBS-2000 has two synthesizers built on to the board: An OPL3, FM Synthesizer and the ICS WaveFront, Wavetable Synthesizer. For more realistic, sampled sounds, you should switch to the wavetable synthesizer. This can be done by choosing 'MIDI' in the 'Multimedia' icon from the Windows 95 Control Panel. Select TBS-2000 WaveFront Synth and press O.K. to confirm your selection.

5. I've tried installing the TBS-2000 several times without success. How do I uninstall the card in Windows 95 so I can start from scratch.

We have provided a "Cleanup" INF file on your TBS-2000 installation disk that will remove the TBS-2000 files from Windows 95. The file is called CLEANTBS.INF and is located in the \CLEANTBS directory on the TBS-2000 installation disk. This file clears out all "media-related" devices from Windows 95, so caution should be used before you run this INF. If you already have another Sound Card in the system, do not use this file unless you are willing to re-install the other Sound Card after removing the media devices.

Using the CLEANTBS.INF

1. Insert your TBS-2000 installation disk in your Floppy drive.
2. Click on 'My Computer' and double-click on your Floppy drive.
3. Double-click on the /CLEANTBS directory
4. Click on the CLEANTBS.INF file with your *RIGHT* mouse button.
5. Choose 'Install' from the list of options.
6. Once you shut down the computer after running the CLEANTBS.INF file, the TBS-2000 drivers will be removed from the system. If you turn the computer back on with the card still in the computer, your system will recognize the TBS-2000 as a new install. If you do not wish to re-install the TBS-2000, be sure to remove the card from the computer after running the .INF and shutting down.

8/23/96

There is no further information available at this time..