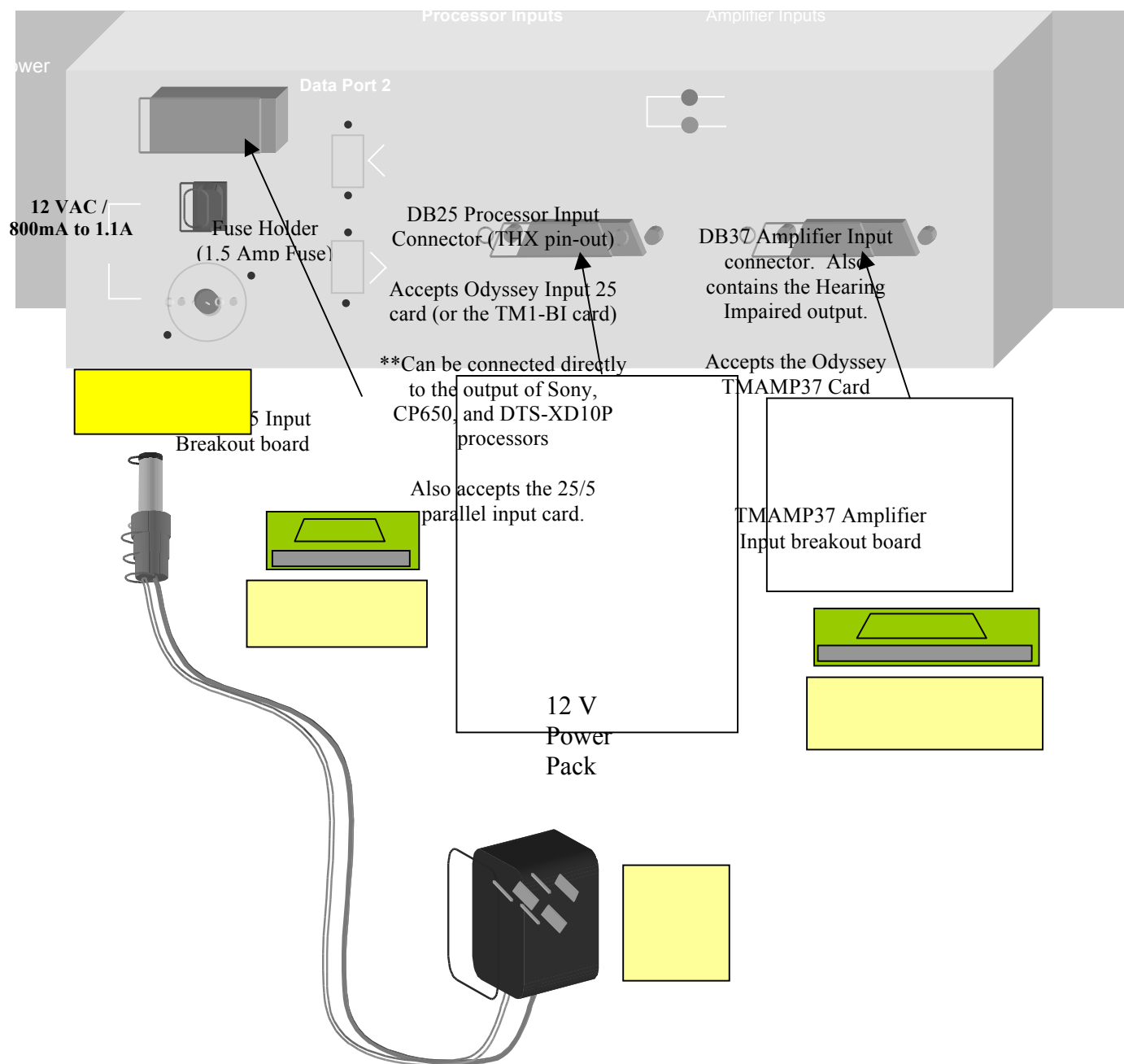


# **Installation & User Manual for the Model TM-1 Sound Monitor**



**FUSE**

# TM-1 Monitor Back View



## **TM-1 Sound Monitor**

This product is intended for commercial use and for installation in an equipment cabinet designed for commercial use. This installation manual is for use by qualified personnel only. Do not open the unit or perform any servicing unless you are qualified to do so.



Connect the power connector to the monitor before plugging into the power receptacle. For protection against electric shock, a three-pin, correctly wired and earthed power outlet must be used. Do not use a ground-lifting adapter and never cut the ground pin on the three-prong plug.

Check that the correct fuse has been installed. To reduce the risk of fire, replace with fuse only with the same type and rating.

## Input DB25 Board Configuration (Compatible with THX and Sony Pin-outs)

| <i>Channel</i>        | <i>Terminals On Card</i> | <i>DB25 Pin</i> |
|-----------------------|--------------------------|-----------------|
| Left Shield           | SH                       | 1               |
| Left Plus             | L+                       | 2               |
| Left Minus            | L-                       | 14              |
| Center Shield         | SH                       | 4               |
| Center Plus           | C+                       | 5               |
| Center Minus          | C-                       | 17              |
| Right Shield          | SH                       | 7               |
| Right Plus            | R+                       | 8               |
| Right Minus           | R-                       | 20              |
| Left Surround Shield  | SH                       | 9               |
| Left Surround Plus    | LS+                      | 23              |
| Left Surround Minus   | LS-                      | 10              |
| Right Surround Shield | SH                       | 22              |
| Right Surround Plus   | RS+                      | 24              |
| Right Surround Minus  | RS-                      | 11              |
| Subwoofer Shield      | SH                       | 13              |
| Subwoofer Plus        | SW+                      | 25              |
| Subwoofer Minus       | SW-                      | 12              |
| Left Extra Shield     | SH                       | 15              |
| Left Extra Plus       | LE+                      | 16              |
| Left Extra Minus      | LE-                      | 3               |
| Right Extra Shield    | SH                       | 18              |
| Right Extra Plus      | RE+                      | 19              |
| Right Extra Minus     | RE-                      | 6               |

## Pin-outs of the TMAMP37 Card

When used on the back of the Model TM-1 Monitor

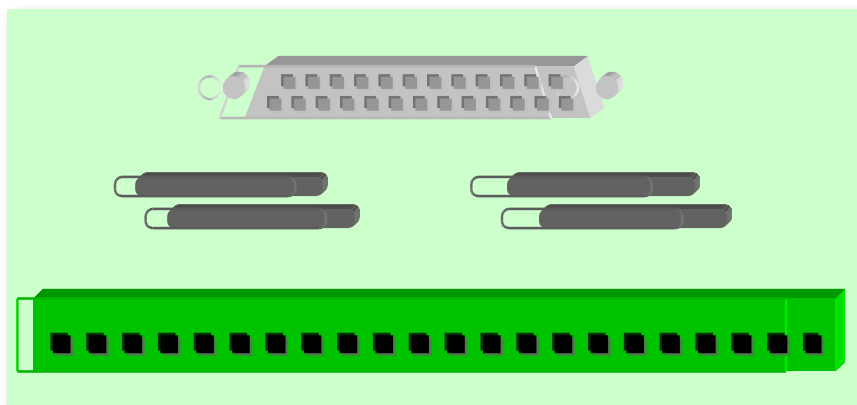
| <i>Screw Terminals</i> (on card) |                                | <i>DB37 Pin</i> |
|----------------------------------|--------------------------------|-----------------|
| 1                                | Left Low                       | 1               |
| 2                                | Left Mid                       | 20              |
| 3                                | Left High                      | 2               |
| 4                                | Left Minus (-)                 | 21, 3           |
| 6                                | Center Low                     | 22              |
| 7                                | Center Mid                     | 4               |
| 8                                | Center High                    | 23              |
| 9                                | Center Minus (-)               | 5, 24           |
| 11                               | Right Low                      | 6               |
| 12                               | Right Mid                      | 25              |
| 13                               | Right High                     | 7               |
| 14                               | Right Minus (-)                | 26, 8           |
| 16                               | Left Surround +                | 27              |
| 17                               | Left Surround -                | 9               |
| 18                               | Right Surround +               | 28              |
| 19                               | Right Surround -               | 10              |
| 20                               | Subwoofer                      | 29              |
| 21                               | Subwoofer-                     | 11              |
| 22                               | Earth                          | 30              |
| 23                               | Earth                          | 12              |
| 24                               | Left Extra Low                 | 31              |
| 25                               | Left Extra Mid                 | 13              |
| 26                               | Left Extra High                | 32              |
| 27                               | Left Extra Minus (-)           | 14, 33          |
| 29                               | Right Extra Low                | 15              |
| 30                               | Right Extra Mid                | 34              |
| 31                               | Right Extra High               | 16              |
| 32                               | Right Extra Minus(-)           | 35, 17          |
| 36                               | Hearing Impaired Sum +         | 37              |
| 37                               | Hearing Impaired Sun – (earth) | 19              |

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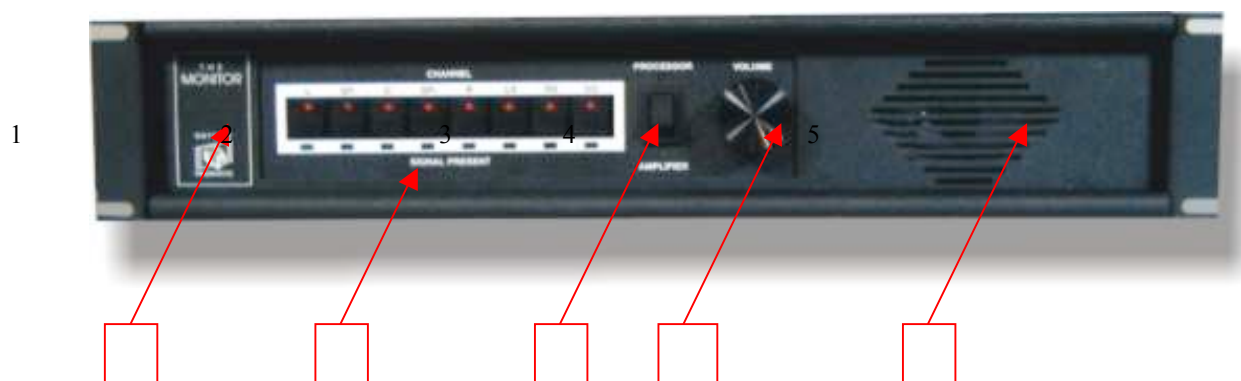
## (Optional) Odyssey Products TM1-BI Bi-Amp Processor Input Adapter Card for the Odyssey TM-1 Monitor



1. Plug the TM1-BI card into the DB25 Processor Input connector on the back of the Odyssey TM-1 Monitor.
2. Connect the bi-amped outputs from the processor to the screw-type connector on the TM1-BI card.
3. Connection is made to the 3.5-mm spacing connector on the TM1-BI board as follows.

|                                                |                                            |
|------------------------------------------------|--------------------------------------------|
| <b>L.H</b> -Left Channel High Frequency        | <b>L.L</b> - Left Channel Low Frequency    |
| <b>L-</b> -Left Channel Minus (GND from CP500) | <b>C.H</b> - Center Channel High Frequency |
| <b>C.L</b> -Center Channel Low Frequency       | <b>C-</b> - Center Channel Minus           |
| <b>R.H</b> -Right Channel High Frequency       | <b>R.L</b> - Right Channel Low Frequency   |
| <b>R-</b> -Right Channel Minus                 | <b>SH</b> - Audio Shield (if necessary)    |
| <b>LS+</b> -Left Surround Plus                 | <b>LS-</b> - Left Surround Minus           |
| <b>RS+</b> -Right Surround Minus               | <b>RS-</b> - Right Surround Minus          |
| <b>SW+</b> -Subwoofer Plus                     | <b>SW-</b> - Subwoofer Minus               |
| <b>LE.H</b> -Left Extra High Frequency         | <b>LE.L</b> - Left Extra Low Frequency     |
| <b>LE-</b> -Left Extra Minus                   | <b>RE.H</b> - Right Extra High Frequency   |
| <b>RE.L</b> -Right Extra Low Frequency         | <b>RE-</b> - Right Extra Minus             |

# User Manual for the TM-1 Sound Monitor



## Front Panel Features

1. *Channel Select Buttons* – Select one or all of the monitored channels.
2. *Signal Present Indicators* – Indicates audio information on amplifier channels.
3. *Processor/Amplifiers Selector Switch* – Selects whether processor or amplifier inputs.
4. *Volume Control* – Controls the volume of the internal speaker.
5. *Speaker*

The TM-1 Monitor provides monitoring of the following channels:

- L, C, R (Left Channel, Center Channel, and Right Channel)
- SP1 and SP2 (Special 1 and Special 2) – can be used to monitor Left Center and Right Center Channels, or Left EX and Right EX Surround Channels.
- LS, RS, SW (Left Surround, Right Surround, Subwoofer or Sub-Bass)

Select the channel to be monitored by pushing the appropriate Channel Select button on the TM-

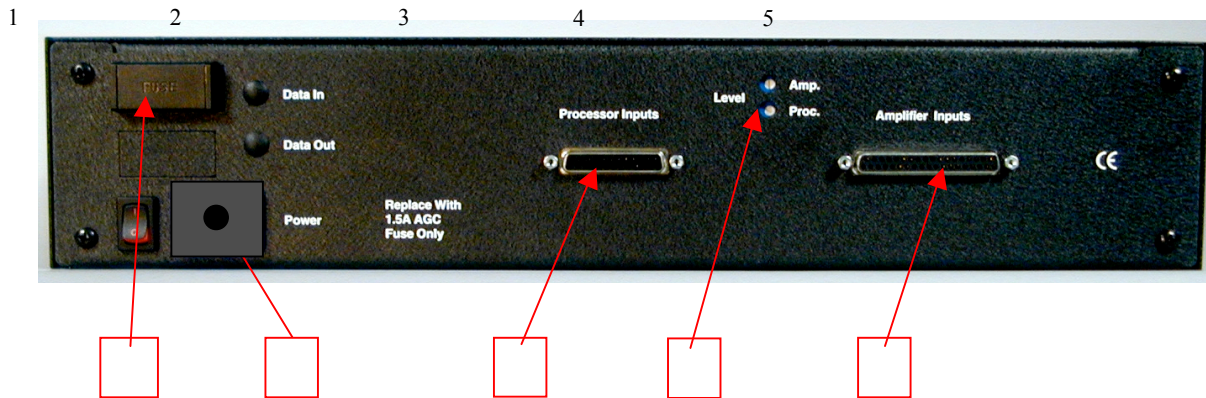
1. Once the button is pushed that channel remains selected until the button is pushed again. A red LED on the button will light when the button is activated. Pushing all eight Channel Select buttons will cause all channels to be heard simultaneously on the monitor speaker.

The Signal Present LED's under each switch indicate audio information on the amplifier channel. These LED's are independent of the Channel Select buttons, and the Processor/Amplifier switch.


The Processor/Amplifier switch selects between the signals coming from the Analog Processor, and the signals coming from the output of the power amplifiers.

The Volume control varies the level of the internal speaker, but does not change an input levels, or the Hearing-Impaired output level.

For bi-amplified and tri-amplified sound systems: When monitoring a stage channel in amplifier mode, what is monitored is a sum of the low, mid and high frequencies.



### ***Back Panel Features***

1. Fuse Holder – accepts fuses 1 ¼" X ¼" AGC fuses
2. Power Connector – Connector for the external plug-in transformer. 
3. Processor Inputs Connector – DB25 female connector, accepts Odyssey Breakout Boards.
4. Input Level Adjustment Potentiometers – 1 each for processor level and amplifier level.
5. Amplifier Inputs Connector – DB37 female connector, accepts Odyssey TMAMP37 Card.

To remove the fuse, pull the fuse holder cover down until it unlocks. Slide the cover out like a drawer. Remove the fuse from the clip. To close the fuse holder, push the cover in and then up slightly until it clicks into place. The correct fuse is a 1 ¼" X ¼" AGC Normal Blow Fuse (1.5 Amps)

The processor Inputs connector is a DB25 female. It has the same pin configuration as a THX monitor. It will accept the following Odyssey breakout cards:

- Model Input 25 – (included) wires from a passive processor are terminated to the on-board terminal strip.
- Model Input 25/2 – same as the Input 25, but with an extra DB25 connector. (Purchased separately)
- Model TM1-BI – sums the low and high frequencies on the stage channels from a bi-amplified analog processor



It can also be directly connected to the Monitor Out Connector on the Sony DFP 3000 Processor.

The Amplifier Inputs connector is a DB37 female. It accepts the Odyssey Breakout Card Model Output37. Wires from the amplifier outputs are connected to the terminal strips on the Output37 card.

Refer to the above pages for a complete list of the pin configurations for the DB connectors and the breakout cards.

There are two input level control potentiometers that are accessed from the back of the TM-1. There is one for processor levels, and one for amplifier levels. These are used to trim the two sets of inputs until the sound levels match switching between Processor to Amplifier on the front panel.

The TM-1 Monitor also provides a Hearing-Impaired output. This output can be used to feed hearing-impaired assisted devices. It is a fixed-level signal formed from summing Left, Center, and Right Channels (internally). This output is not affected by the Volume Control, or by the Input Level Adjustment Potentiometers.

## **Warranty Information**

Equipment manufactured by Odyssey Products is warranted against defects in materials and workmanship for a one-year period from the date of shipment. There are no other express or implied warranties.

## **Returns**

During the warranty period, Odyssey will repair or replace, at its option, components which prove defective. Equipment must be returned shipped prepaid to Odyssey. Defects caused by modifications, misuse or accidents or shipping damage caused by inadequate packaging for service return are not covered by this warranty. A Return Authorization Number must be obtained from Odyssey or its agents prior to returning any products. The Return Authorization Number must be marked on all paperwork and labels

Please send all returns to:

Odyssey Products  
5845 Oakbrook Parkway, Suite G  
Norcross, GA 30093

Phone 770-825-0243  
Fax 770-825-0245