

User Manual

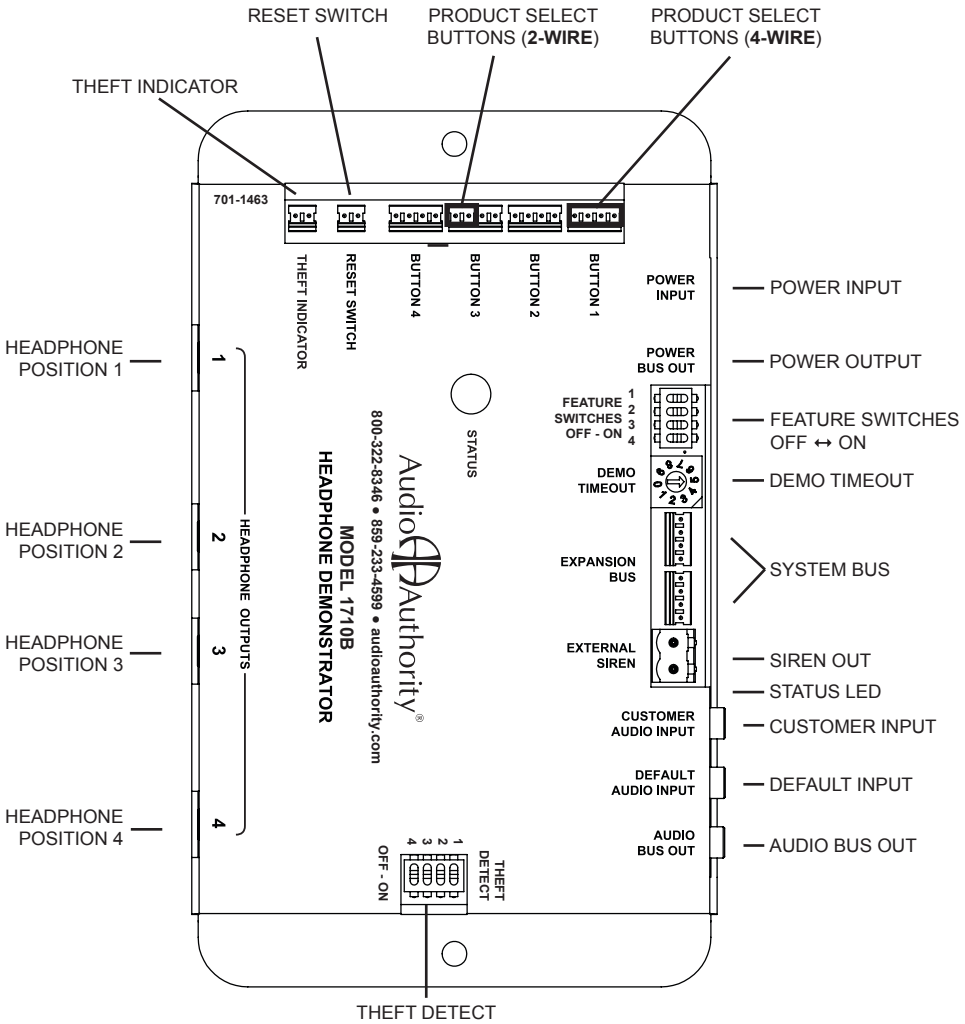
Model 1710B Headphone Demonstration Switching Amplifier



Audio Authority®

Introduction

The 1710B is designed to provide high fidelity amplification and theft detection for headphones and sound docks. It functions as a distribution amplifier or switching system for self service retail demonstration. The 1710B has several options that govern the behavior of the headphone demonstration. In distribution mode (see table on page 3), all outputs are active all the time. In switching mode, only one of the four outputs may be active at any one time. Larger switching systems, linked by system bus and audio patch cords, can either allow one live position on each 1710B, or the entire system can be limited to one active position at a time (see Feature Switch settings). Visit audioauthority.com/demobeat for tips and application diagrams.



MODEL 1710B

Package Contents

Before installing this product, please check the packaging and make certain the following items are contained in the shipping carton:

- 1710B Headphone Demonstrator
- DC Power Adapter
- User Manual

Features

- High quality headphone amplification
- Switching or distribution behavior
- Adjustable demonstration timeout in switching mode
- Automatic selection of customer audio source when connected
- Theft detection and integral alarm
- Multiple units can easily be connected together for any size system

Feature Switch Settings

Switch	Off (away from edge)	On (toward edge)
1	Gain = 0dB	Gain = 6dB
2	One active product per board	One active product per system
3	Not used	Not used
4	Switcher mode (one on)	Distribution mode (all on)

Audio Sources and Customer Auto Demo

Connect a music player to the Default Input jack as the audio source. If desired, provide a 3.5mm cord connected to the Customer Input so that customers may use their own music players to demonstrate headphones. When audio is detected on the Customer Input jack, the customer device is selected as the audio source. If no audio is detected on the Customer Input for 7.5 seconds, the 1710B switches back to the Default Input.

Audio Bus Out

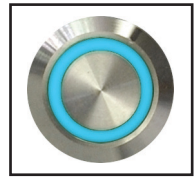
The bus output feeds the currently selected audio input (Default or Customer) to more 1710B modules or other audio devices in the system. Connect a 3.5mm patch cord from the first 1710B bus output to the second 1710B Default input, etc. One linked system sharing a Default Input also must share one Customer input (**do not use any Customer inputs besides the first 1710B**).

System Bus

System Bus is a four-conductor cable that allows multiple 1710B modules to be connected and communicate with each other. They can coordinate current product selection as well as alarm signals and alarm reset (see *Theft Detection on page 4*).

Button (PSB) Ports

In switching mode, customers can activate one product at a time using a four-wire (or two-wire) push-button switch (sold separately). Connect a button for each corresponding product. The LED in the button illuminates during the demonstration. Buttons are not used in distribution mode.



The PSB-224 push-button is shown above. Various cable lengths are available.

Theft Detection

1710B theft detection is compatible with most headphone models, including models with active circuitry such as noise cancelling. Activate theft detection using the Theft Detect switches, which are numbered to correspond with each headphone position. The 1710B can detect most headphones when connected directly to the 1710B. Keep cable lengths as short as possible. All devices should be tested for proper detection behavior upon installation. If detection does not work for a particular device, disable detection for that port using the Theft Detection switches.

Attach a reset switch (contact closure) to reset the alarm. We recommend that a remote theft indicator light should be installed in clear view of customers. The blinking LED is a deterrent, warning that theft detection is active. The on-board buzzer sounds if it detects an unauthorized removal, but if a louder alarm is desired, the external siren port can power a 12VDC siren.

When active, the theft indicator blinks and the 1710B detects the headphones that are connected, so that it will trigger the alarm if one is removed. The theft indicator light connected to the 1710B where the stolen headphones were connected shines solid until the alarm is reset.

When headphones must be connected and disconnected, turn on the siren reset switch, make product changes, and turn the switch off again. The theft indicator LED(s) turn off when the reset switch is on. Only one reset switch is needed per system; reset status is communicated to all other modules that are connected via System Bus.

Timeout Interval

In switching mode, a demo timer is initiated each time a customer selects a product output to audition. The demonstration length is set by the timeout switch, in increments of 15 seconds. If the timeout switch is set to 0, then the demonstration does not time out.

Operation

On power up, the status light blinks to show normal operation, and selector buttons are lit. When customer audio is playing, the Status light blinks rapidly.

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