

12331 S.W. 130 STREET  
MIAMI, FLORIDA 33186  
PHONE: (305) 238-4373  
FAX: (305) 238-0185



**NILES AUDIO CORPORATION**

MAILING ADDRESS:  
P.O. BOX 160818  
MIAMI, FLORIDA 33116

## **ABS-1 SIGNAL-ACTIVATED AMPLIFIER A-B SWITCH HOOKUP & OPERATING INSTRUCTIONS**

### **INTRODUCTION**

A common challenge in custom installations is allowing a local source—such as audio from a bedroom TV—to play through the main-system speakers in that room. The ABS-1 is a reliable signal-activated switch which detects the audio signal from a local, independent source and switches it to that room's speakers, interrupting the main source if present. The main source continues to supply the rest of the home's speakers without interruption.

The hide-away ABS-1 installs near the equipment being switched. It accommodates speaker-level inputs from the main-system amplifier and from the local amplifier (e.g., a TV's speaker output), and its speaker-level outputs connect to the room's speaker pair. In the default mode, the main amplifier's input "A" supplies the room's speakers. When an audio signal is present at input "B", the ABS-1 disconnects "A" and supplies "B" to the speakers.

The ABS-1 includes a sensitivity adjustment for the "B" input trigger level (you may wish to sustain a small "B" signal without actually switching), as well as an adjustable delay time (from zero to 30 seconds) to prevent inadvertent re-switching if the "B" signal drops momentarily.

#### **Features Include:**

- Integrates a local, independent audio source into an existing speaker installation
- Switching is signal-activated, requiring no mechanical action
- Other speakers in house will not be interrupted
- Adjustable switching-trigger level
- Adjustable delay for switching back
- Compact design remains out-of-sight
- Power handling: 600 Watts RMS
- Powered by wall-mount AC transformer (included)

### **INSTALLATION CONSIDERATIONS**

The ABS-1 should be installed near the components you are going to switch. An unswitched AC outlet is required for the wall mount AC transformer that powers the unit.

Once adjusted, the ABS-1 will operate automatically. The unit can then be tucked away behind the components. No further adjustment is required.

## CONNECTIONS

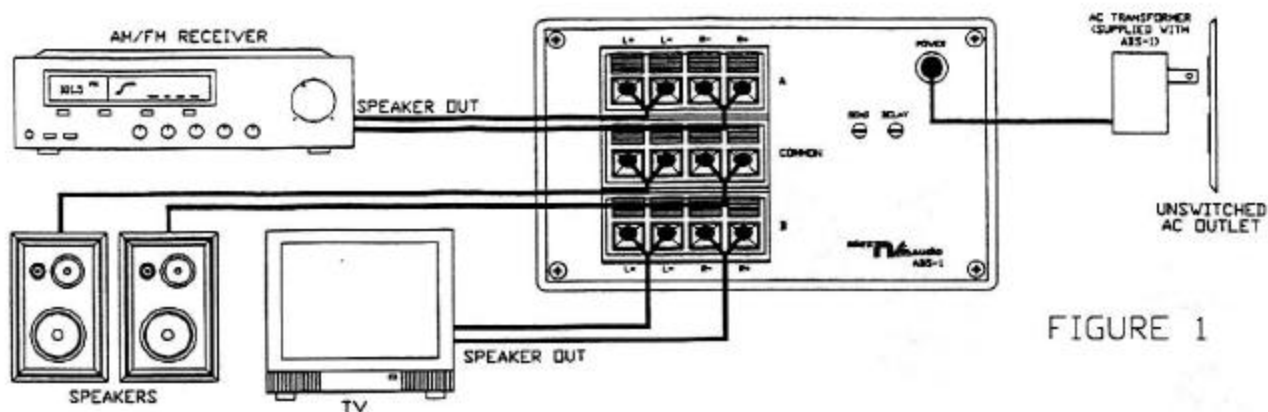


FIGURE 1

## ADJUSTING THE ABS-1

The **SENSITIVITY** control adjusts the amount of audio level needed to trigger the switch. The threshold may be set anywhere between .2 and 5 watts. Adjusting the control clockwise will increase the sensitivity, lowering the trigger threshold. Adjusting the control counter-clockwise will decrease the sensitivity, increasing the trigger threshold.

Once the sources to be switched have been connected to the ABS-1, activate the source connected to the "B" input and adjust the **SENSITIVITY** control until the ABS-1 triggers at the desired level. You will hear the relays in the ABS-1 "click" when it is triggered.

**Note:** The factory setting of the **SENSITIVITY** control is maximum (fully clockwise). If you want the ABS-1 to trigger at the slightest input level, leave the control at this setting.

The **DELAY** control adjusts the amount of time the ABS-1 will switch from "B" back to "A" once the "B" input is removed. The delay time may be set anywhere between 1/4 of a second to 30 seconds. Adjusting the control clockwise will increase the delay time.

Once the sources have been connected and the **SENSITIVITY** control has been adjusted, activate the source connected to the "B" input. You will hear the relays in the ABS-1 "click" when it is triggered. Adjust the **DELAY** control and then turn off the "B" source, noting the time the relays in the ABS-1 "click" again. The time between the clicks is the delay time. Repeat the process until the delay is set to the desired time.

**Note:** The factory setting of the **DELAY** control is approximately 15 seconds. This setting takes into account certain events that can occur during the playback of a source, such as the time a CD player takes to change discs, a laserdisc player takes to switch sides, or a cassette deck takes to reverse play. Setting the **DELAY** control for too short of a time may cause the ABS-1 to "drop out" prematurely, interrupting playback of the "B" source.

## SPECIFICATIONS

Speaker Level Power Handling	600 Watts/channel continuous (RMS)
Minimum Trigger Level	.2 Watts
Delay Control Range	Adjustable from 1/4 second to 30 seconds
Frequency Response	FLAT from 20 Hz to > 20 KHz
Connectors	Spring-loaded push terminals
Power Requirements	18 volts AC at 300 mA, uses wall-mount AC transformer (included)
Overall Dimensions	6 1/4" Wide x 2 1/2" High x 3 3/4" Deep
Weight	1 1/4 lb.

ABS-1MAN.GRB  
02/04/92 REV.B

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