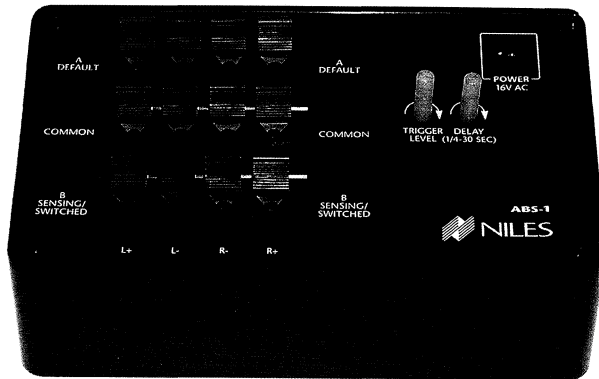




NILES®



INSTALLATION GUIDE



SIGNAL-ACTIVATED AMPLIFIER A-B SWITCH

ABS-1



CONGRATULATIONS!

Thank you for choosing the **ABS-1 Signal-Activated Amplifier A-B Switch** from Niles. With proper installation and operation, you should enjoy years of trouble-free use.

Niles manufactures the industry's most complete line of custom installation components and accessories for audio/video systems. To see the complete Niles product assortment, visit us on the Internet at: www.nilesaudio.com.



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INTRODUCTION

We at Niles Audio Corporation hope you'll find this product effortless to install and use, as our engineers intend. The ABS-1 is designed specifically to address a common challenge in custom home-audio installations: enabling two audio sources to use one set of stereo speakers.

FEATURES

- *Integrates a local, independent audio source into an existing speaker installation*
- *Signal-activated switching requires no user action*
- *Will not interrupt other speakers in the house*
- *Adjustable delay for switching back to the main source*
- *Adjustable switching-trigger level*
- *Compact design remains out of sight*
- *Power handling: 600 watts RMS*
- *Powered by wall-mounted AC transformer (included)*
- *Two-year limited warranty*



POSSIBLE USES

Use your ABS-1 to interrupt a main source, such as a stereo receiver (see **Figure 1** on page 4):

- *Main-speaker outputs (wired to the “A” terminals) when audio from a TV’s speaker outputs (wired to “B” terminals) is sensed.*
- *Auxiliary-speaker outputs (wired to the “A” terminals) when audio from the same receiver’s surround-sound speaker outputs (wired to the “B” terminals) is sensed.*

INSTALLATION CONSIDERATIONS

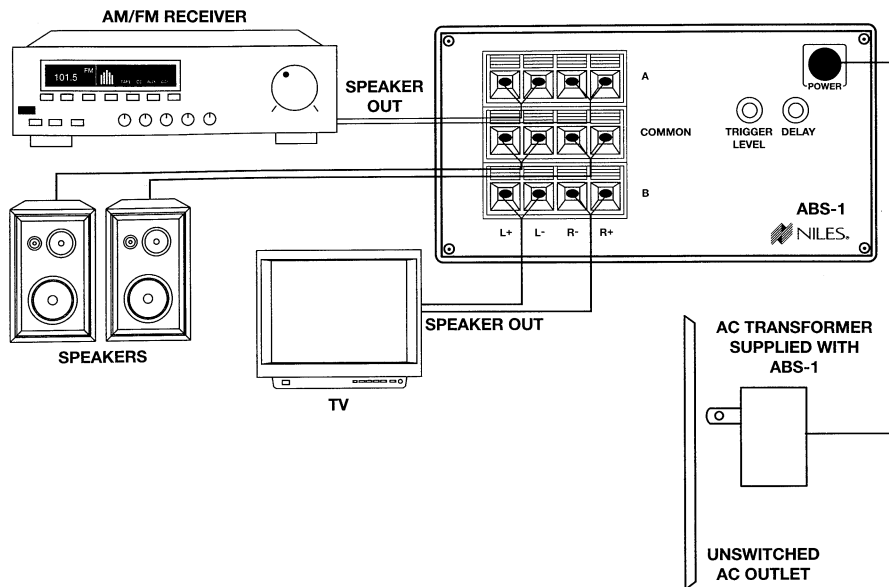
Before starting your installation:

- *Make sure both components to be switched have speaker-level outputs.*
- *Place the ABS-1 near the components to be switched and near an unswitched AC outlet.*
- *Make sure unit is accessible until after initial adjustments are complete.*
- *Have appropriate speaker wire available to enable installation.*
- *Do not place the ABS-1 too close to unshielded speakers, or the magnetic relays will not function properly.*

INSTALLATION

CONNECTIONS

Figure 1





INSTALLATION *CONTINUED*

- Step 1** Find a location that meets all the considerations listed above.
- Step 2** Connect the main source (usually a stereo receiver) to the “A” terminals (observing proper +/- wiring).
- Step 3** Connect the two speakers to the “Common” terminals (observing proper +/- wiring).
- Step 4** Connect the secondary source to the “B” terminals (observing proper +/- wiring).
- Step 5** Follow adjustment procedure on **page 6** to achieve desired switching.

ADJUSTING THE ABS-1

The adjustment of the SENSITIVITY and DELAY controls is the final—yet most critical—step within this setup process. To assure proper switching between sources, please pay close attention to the following procedure.

Step 1 Connect the AC transformer to an unswitched outlet. Continuous voltage is necessary for proper operation.

Step 2 Activate the source connected to the “B” input and adjust its audio to a moderate level. At this level, your ABS-1 will switch automatically to the connected speakers.

Step 3 Adjust the sensitivity control clockwise until the switch activates and you can hear the audio through the connected speakers. You will hear the relays in the ABS-1 “click” when triggered. This sets the threshold between .2 and 5 watts:

- Clockwise increases the sensitivity
- Counter-clockwise decreases the sensitivity

NOTE: THE FACTORY SETTING OF THE SENSITIVITY LEVEL IS AT MAXIMUM (FULLY CLOCKWISE). IF YOU DESIRE TRIGGERING AT THE SLIGHTEST INPUT LEVEL, LEAVE THE CONTROL AT THIS SETTING.

Step 4 Adjust the delay control clockwise to increase or counter-clockwise to decrease the delay time. This control sets the amount of time the ABS-1 will switch from “B” back to “A” once the “B” input is removed. This delay time may be set between 1/4 of a second and 30 seconds.

ADJUSTING THE ABS-1 *CONTINUED*

Step 5 Adjust the delay control to the desired time and then turn off the “B” source, noting the time between the initial “click” of the relays and the second “click” of the relays. The time between the two “clicks” is the delay time you have chosen.

NOTE: THE FACTORY SETTING OF THE DELAY CONTROL IS ABOUT 15 SECONDS. THIS SETTING TAKES INTO ACCOUNT CERTAIN EVENTS THAT OCCUR DURING THE PLAYBACK OF A SOURCE, SUCH AS THE TIME A CD PLAYER TAKES TO CHANGE THE DISCS. SETTING THE DELAY CONTROL FOR TOO SHORT 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 300mA, uses wall-mounted AC transformer (included)

Overall Dimensions: 6-1/4" wide x 2-1/2" high x 3-3/4" deep

Weight: 1-1/4 lbs.

LIMITED WARRANTY

Niles Audio Corporation ("NILES") warrants its active products (those requiring AC or battery power) to the original purchaser to be free of manufacturing defects in material and workmanship for a period of two years from date of purchase.

This Warranty is subject to the following additional conditions and limitations. The Warranty is void and inapplicable if NILES deems that the product has been used or handled other than in accordance with the instructions provided by the manufacturer, including but not limited to damage caused by accident, mishandling, improper installation, abuse, negligence, or normal wear and tear, or any defect caused by repair to the product by anyone other than NILES or an authorized NILES dealer.

To obtain warranty service, take the unit to the nearest authorized NILES dealer, who will test the product and if necessary, forward it to NILES for service. If there are no authorized NILES dealers in your area, you must write to NILES and include your name, model and serial number of your unit, along with a brief description of the problem. A factory Return Authorization Number will be sent to you. DO NOT RETURN ANY UNIT WITHOUT FIRST RECEIVING WRITTEN AUTHORIZATION AND SHIPPING INSTRUCTIONS FROM NILES.

If the above conditions are met, the purchaser's sole remedy shall be to return the product to NILES, in which case NILES will repair or replace, at its sole option, the defective product without charge for parts or labor. NILES will return a unit repaired or replaced under warranty by shipping same by its usual shipping method from the factory (only) at its expense within the United States of America. THERE ARE NO OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION, EITHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER/PURCHASER. NILES SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES EXCEPT TO THE EXTENT PROVIDED (OR PROHIBITED) BY APPLICABLE LAW.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For the name of your nearest authorized NILES dealer, contact:
NILES AUDIO CORPORATION, P.O. BOX 160818, Miami, Florida 33116.

Please fill in your product information and retain for your records.

Model _____ Serial No. _____ Purchase Date _____

WARRANTY REGISTRATION CARD

Model Purchased _____	Serial Number _____
Date Purchased (month/day/year) _____	Dealer Name and Location _____
<input type="radio"/> Dr. <input type="radio"/> Miss <input type="radio"/> Mr. <input type="radio"/> Mrs. <input type="radio"/> Ms.	
Name _____	Address _____
City _____	State _____ Zip _____ Tel () _____

Please take a moment to fill out our warranty registration card. The information helps us to get to know you better and develop the products you want

Age:

- Under 25
- 25-34
- 35-44
- 45-54
- 55 & over

Income:

- Under \$24,999
- \$25,000-\$44,999
- \$45,000-\$74,999
- \$75,000-\$99,999
- \$100,000-\$129,999
- Over \$130,000

Occupation:

- Arts/Entertainment
- Business Owner
- Engineer
- Finance/Accounting
- General Office
- Management
- Professional
- Sales/Marketing
- Student
- Tradesperson

Musical tastes: (Please check

- all that apply)**
- Alternative
 - Classical
 - Country
 - Jazz
 - New Age
 - Popular
 - R&B
 - Rock
 - Other _____

How did you hear about Niles?

- Architect/Developer
- Custom Installer
- Direct Mail
- Friend/Family
- In-Store Display
- Interior Designer
- Magazine Ad
- Mail-Order Catalog
- Newspaper Ad
- Product Brochure
- Product Review
- Retail Salesperson
- E-Tailer

What magazines do you read?

1. _____
2. _____
3. _____

Who will install the product?

- Custom Installer
- Electrician
- Friend
- Myself

Which factor(s) influenced the purchase of your Niles product?

- (Please check all that apply)*
- Ease of Use
 - Price/Value
 - Product Features
 - Quality/Durability
 - Reputation
 - Style/Appearance
 - Warranty

Do you . . . ?

- Own a House. If yes, how many square feet?

- Own a Town House/Condominium/Co-op
- Rent an Apartment
- Rent a House

Are you interested in receiving literature on other Niles products?

- Yes No

Are there products/capabilities that you would like to see introduced?



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