

## INSTALLATION & USER GUIDE



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**For Powering Television**

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**Audio Speakers**

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**STEREO AMPLIFIER / AUTOMATED SWITCHER**

**AB50-X2**

# AB50-X2

STEREO AMPLIFIER / AUTOMATED SWITCHER

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## FEATURES

- Compact stereo amplifier with 50 watts per channel
- Automatically switches between either one or two pairs of speakers
- Stable into low impedance loads (4 ohms)
- CE, CSA E65 UL6500 approved

### **Installation friendly design:**

- 12V DC control output
- Output gain control
- 3V - 30V AC/DC voltage-trigger
- Current sensing circuit
- Automatic protection circuit

## **PRODUCT OVERVIEW**

- a) AC IN – Removable three-prong IEC compatible power cord.
- b) Current Sensing AC Outlet – AB50-X2 will activate and switch inputs when it senses a current draw from a connected device.
- c) Voltage Trigger IN – 3.5mm mini-phone jack. AB50-X2 will activate and switch inputs when 3-30 volts AC or DC is present.
- d) 12V Trigger OUT – 3.5mm mini-phone jack. 12V DC 200mA control output for automated control of lifts, screens, drapes, etc.
- e) Audio Line IN – Gold plated RCA type connectors. Local source input. AB50-X2 switches to this input in either current sense or 12V Trigger IN modes.
- f) Volume Control – Adjusts AB50-X2 amplifier output level.
- g) Speaker A Input/Output – Four-pin speaker connector plugs snap and lock for easy installation.
- h) Speaker B Input/Output – Four-pin speaker connector plugs snap and lock for easy installation.

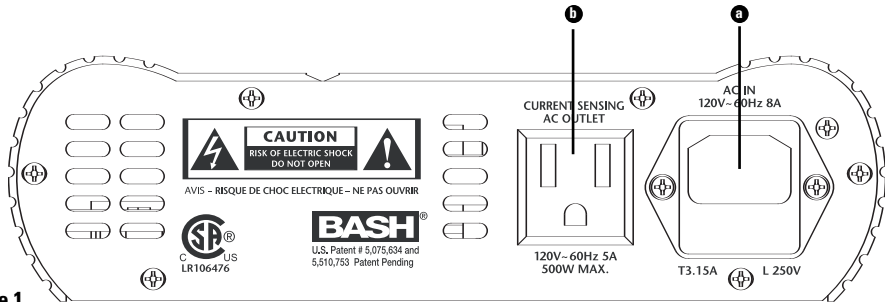


Figure 1

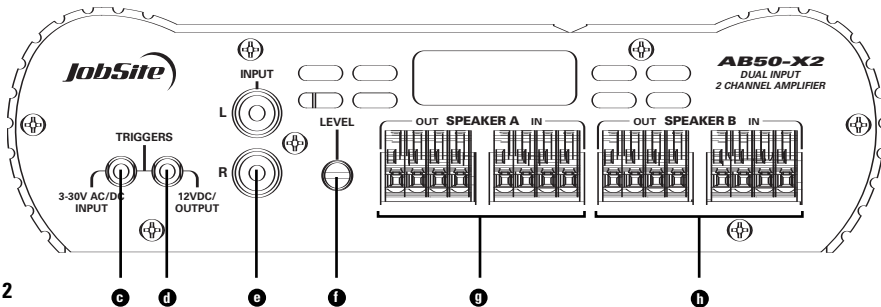


Figure 2

## PACKAGE CONTENTS

- AB50-X2 x 1
- Removable AC power cord x 1
- Snap and lock removable speaker connectors x 4
- Self adhesive rubber feet x 4

## PREPARING FOR INSTALLATION

The local TV cables, Multizone Receiver cables and Speaker cables must reach the proposed location of the AB50-X2. Mark the cables with Wire labels, describing where the cables originate from, rather than where they will terminate. Locate a local un-switched AC outlet to be used to power the AB50-X2.

## Tools Required

- 1/8" Slotted screwdriver
- 1/4" Slotted screwdriver

- No.2 Phillips screwdriver
- Wire stripper
- Wire labels

## INSTALLATION

1. Select an appropriate location for the AB50-X2.
2. Run all necessary wiring to the AB50-X2. Label the wires for future reference.
3. Strip 1/4" of insulation from the end of each wire. Tightly twist the end of each wire until no frayed ends remain.
4. Locate the Snap and Lock connectors and remove them if they are plugged in.
5. Use a small flathead screwdriver or your thumb to raise the locking tabs, exposing the holes on the connector.

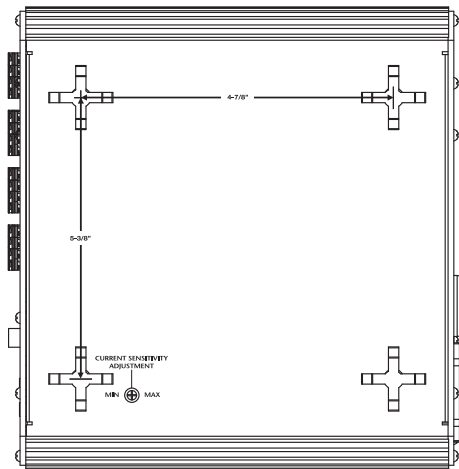
6. Insert each wire into the appropriate hole and snap down the locking tabs.
7. Insert the smooth side of the connector plug into the smooth side of the AB50-X2 socket.
8. Connect the variable line level output of the TV to the RCA terminals labeled INPUT.
9. Connect the TV power cord to the terminal labeled CURRENT SENSING AC OUTLET.
10. Connect the Multizone Receiver wires to the terminal labeled SPEAKER A IN.
11. Connect the Speaker wires to the terminal labeled SPEAKER A OUT.
12. Plug the AB50-X2 power cord into the unswitched AC outlet and adjust the current sensing, using the sensitivity adjustment screw located on the bottom of the unit.

13. Mount AB50-X2 to determined location.

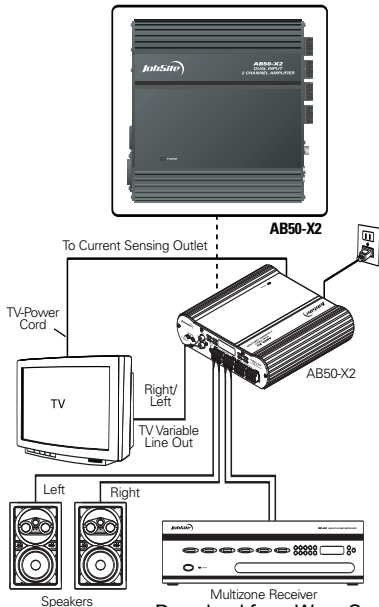
**See figure 3.**

See Installation diagram on **page 6**.

**Figure 3**



## INSTALLATION DIAGRAM



6

## TROUBLESHOOTING

### AB50-X2 will not power up

Check to see that the AB50-X2 is plugged into an unswitched outlet.

Check to see that the POWER/ACTIVE LED is lit.

### AB50-X2 will not activate (Current Sense Mode)

Make sure that the TV is plugged into the sensed outlet on the AB50-X2. May need to adjust sensitivity.

### AB50-X2 will not activate (12V Trigger Mode)

Measure the voltage on the TRIGGER IN terminal. The voltage must be 3-30 VAC/DC to activate the AB50-X2.

Check the polarity of 3.5mm mini-plug correct. (Tip=+12VDC; Sleeve=ground. DC only)



## SPECIFICATIONS

**50 watts x 2**

**Frequency response:**

5 Hz to 50kHz +/- 3dB

**Signal noise ratio:**

>= 85 dB

**Power supply:**

AC120V, 60 Hz

**Power consumption:**

2 amps

**Dimensions:**

8" wide x 2-1/4" high (including feet) x 7-1/2" deep

**Warranty:**

2 years limited

## LIMITED WARRANTY

JobSite Systems ("JOBSITE"), a Niles Audio Corporation company, warrants its passive products (those not requiring AC or battery power) to the original purchaser to be free of manufacturing defects in material and workmanship for a period of ten years from date of purchase.

JOBSITE warrants its passive loudspeaker products (those not requiring AC or battery power) to the original purchaser to be free of manufacturing defects in material and workmanship for a period of five years from date of purchase.

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To obtain warranty service, you must write to JOBSITE: Include your name, address, telephone number, model number and serial number of your unit, and 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 JOBSITE.**

If the above conditions are met, the purchaser's sole remedy shall be to return the product to JOBSITE, in which case JOBSITE will repair or replace, at its sole option, the defective product without charge for parts or labor. JOBSITE will return the unit repaired or replaced under warranty by shipping it 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.

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