



**Home Theater Direct**

**A-2106  
Multi-Source Stereo Amplifier  
Owner's Manual**

Home Theater Direct, Inc.  
[www.htd.com](http://www.htd.com)

Expert Support:  
866-HTD-AUDIO (483-2834)  
[info@htd.com](mailto:info@htd.com)

## Safety Instructions for the A-2106

**Warning** - To reduce the risk of fire or shock, do not expose this appliance to rain or moisture.

**Caution** - To reduce the risk of fire or shock, do not remove the cover or back. No user serviceable parts inside. Refer servicing to qualified service personnel.

**Caution** - To prevent electric shock, match wide blade of plug to wide slot, fully insert.



**The lightning flash with arrowhead symbol, within an equilateral triangle,** is intended to alert the user to the presence of un-insulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



**The exclamation point within an equilateral triangle** is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this appliance.



### Read Instructions

All safety and operating instructions should be read before the appliance is operated.

### Retain Instructions

The safety and operating instructions should be adhered to.

### Heed Warnings

All warnings on the appliance and in the operating instructions should be adhered to.

### Follow Instructions

All operating and use instructions should be followed.

### Water and Moisture

The appliance should not be used near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

### Ventilation

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings: or placed in a built-in situation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

### Heat

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

### Power Sources

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

### Grounding or Polarization

Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

### Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

### Cleaning

The appliance should be cleaned only as recommended by the manufacturer.

### Power Lines

An outdoor antenna should be located away from power lines.

### Non-Use Periods

The power cord of the appliance should be unplugged from the outlet when left unused for long periods of time.

### Object and Liquid Entry

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

### Damage Requiring Service

The appliance should be serviced by qualified personnel when: a) the power supply cord or the plug has been damaged: b) objects have fallen, or liquid spilled into the appliance: c) the appliance has been exposed to rain: d) the appliance does not appear to operate normally or exhibits a marked change in performance or e) the appliance has been dropped, or the enclosure damaged.

### Servicing

The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

### Product Servicing

If your system fails to operate properly, please contact HTD directly for further assistance, at 1-866-483-2834.

Additional information, including detailed specifications for each model, can be found on our website, [www.htd.com](http://www.htd.com). Thanks again for choosing Home Theater Direct!

If you have any questions, we can be reached at...  
info@htd.com or toll free 1-866-HTD-AUDIO (483-2834)

Thank you for giving Home Theater Direct the chance to win your business! We are confident you will find that HTD offers an outstanding combination of performance and value in everything we make. To ensure you get the most out of your new amplifier, please take a moment to read this manual before you get started. Should you lose this manual, you can always download or print a copy from [www.htd.com](http://www.htd.com).

## **Introduction**

The A-2106 Multi-Source Stereo Amplifier is an ideal solution for affordably expanding great sounding music throughout your home. Multi-source features are built around a high current, two-channel (stereo) amplifier that is built solid with a large toroidal transformer that produces a warm, full-bodied sound guaranteed to impress even the most fastidious listener.

Select between 6 stereo input sources using either the touch-buttons on the front of the unit or the credit card-sized remote control. Two pairs of binding posts on the back of the A-2106 allow for easy connection of two pairs of 8 ohm speakers. In fact, four pairs of speakers can easily be connected as part of an impedance matching system using impedance matching stereo volume controls.

An A/B speaker switch makes it easy to turn on or off groups of speakers (A, B, or A+B). Use the Remote Control to adjust treble and bass to get just the sound you want. Save on your utility bill by using the Auto On-Off switch to automatically have the A-2106 turn on when the source selected is active and off when no source signal is sensed for several minutes.

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## Product Features

### Power Selection Switch, Power Button, and Power Indicator Light

The Power Selection Switch is found on the back of the unit. It includes three settings that will affect how the unit is turned on and off.

- **REMOTE** - allows the user to use the power button on the Remote Control to turn the unit on and off as long as the Power Button (on the front of the unit) is pressed in. Note that in this setting you cannot turn the unit ON unless you have the remote control. The unit can still be turned OFF by pressing the Power Button to the OUT position.
- **AUTO** - the unit will turn ON when an input signal is sensed by the source that is selected and will go into STAND-BY/OFF after several minutes of no signal. The Power Button should be in the IN position. If the Power Button is in the OUT position, the unit will not turn on.
- **ON** - allows the user to manually turn the unit ON and OFF by pushing the power button IN or OUT on the front panel.

The Power Indicator Light will be dim blue when the unit is in stand-by mode and bright blue when the unit is active. The Power Indicator Light will not be lit when the Power Button is in the OUT position.

### Speaker Output Buttons and Speaker Terminals

The Speaker Output Buttons on the front of the unit allow the user to control which speakers, or groups of speakers, are active. When the "A" button is pressed in so that the indicator light is illuminated, all of the speakers connected to the Speaker Terminals (located on the back of the unit) marked "A" will be active. When the "B" button is pressed in so that the indicator light is illuminated, all of the speakers connected to the Speaker Terminals marked "B" will be active. Note that it is possible to have both A **and** B active at the same time but the impedance load on A must be a minimum of 8 ohms and the impedance load on B must also be a minimum of 8 ohms. If you will only be using A **or** B (but not both at the same time), the minimum impedance load is 4 ohms.

It is possible to connect multiple pairs of speakers to A and multiple pairs of speakers to B by using impedance matching volume controls to correct the impedance load to a safe level. **See Figure 4** in the Speaker Connection section.

### Source Selection Buttons and Stereo Inputs

The A-2106 allows for easy selection of up to 6 stereo sources. Sources are connected using standard RCA-type patch cables (sold separately) to the Stereo Inputs located on the back of the unit. To select a source, simply touch one of the six Source Selection Buttons located on the front of the unit or press one of the Source Selection Buttons found on the Remote Control. The indicator light directly above the source that is selected will be illuminated.

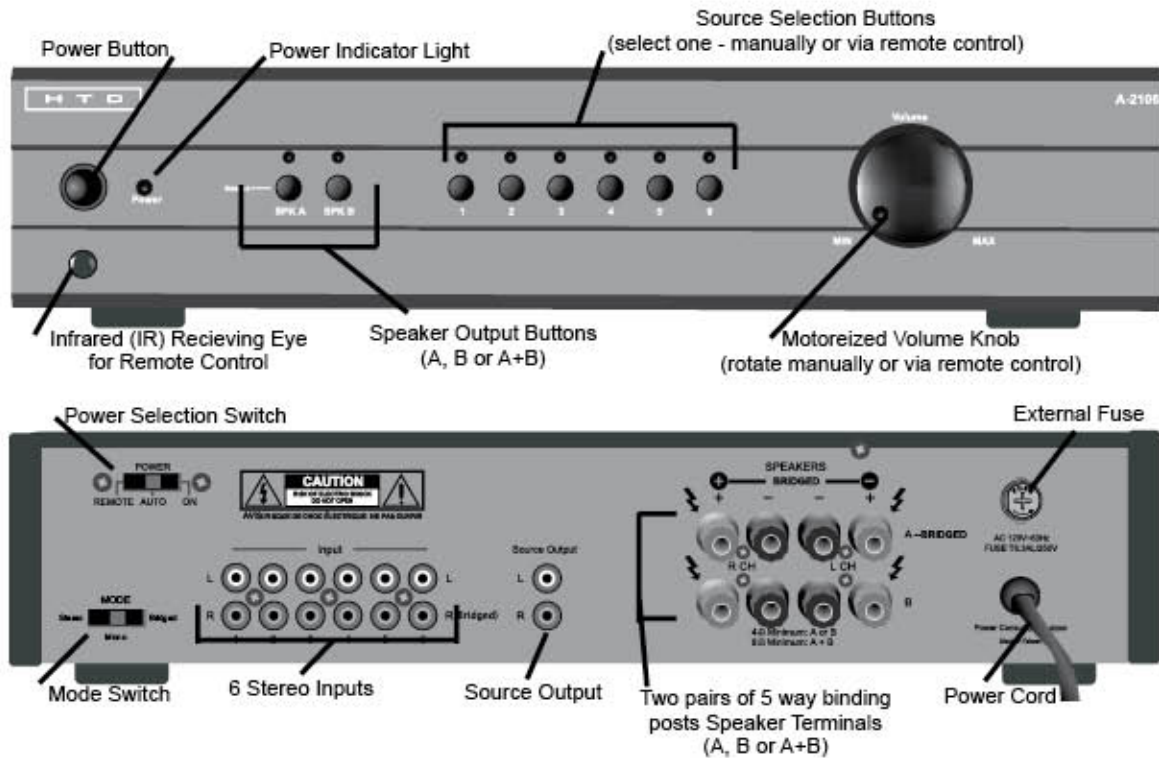
### Motorized Volume Knob

The volume knob located on the front of the unit equally controls the output volume level of the speakers connected to the Left and Right Speaker Terminals on the back of the unit. The Volume Knob can be rotated manually or by using the Remote Control. When using the Remote Control, never impede the rotation of the Volume Knob.

## Product Features (Cont.)

### Motorized Volume Knob (cont.)

When using the unit in combination with external volume controls (see figures 2, 3, and 4 in the Speaker Connection section), it is best to set and leave the Motorized Volume Knob to a level that equals the maximum listening level you want in the rooms that contain the speakers. In other words, while playing your favorite source, start with the Motorized Volume Knob turned all the way down (counter-clockwise) and the volume knobs on the volume controls turned all the way up. Then, gradually turn up the Motorized Volume Control until the maximum listening level is achieved. In this way, the amplifier is never using more power than is ever necessary and the volume for each pair of speakers can be adjusted using the external volume controls.



**Mode Switch: Stereo** - When in the "Stereo" position, Left channel sound will come from the left set of red & black speaker wire connectors & Right channel sound will come from the right set of red & black speaker wire connectors, resulting in standard stereo sound output. **MONO** - When in the "MONO" position, the Left & Right channel inputs will be merged into a combined, "mono" signal and all of the sets of red & black speaker wire connectors will output the same sound. **Bridged** - When in the "Bridged" position, the amplifier becomes a mono, single-channel amplifier at much higher power. In Bridged mode, you must connect a speaker ONLY to the upper left and upper right red speaker wire connectors (see label above speaker wire connectors on back of the amplifier.) **IMPORTANT NOTE:** When in Bridged mode, the amplifier is stable to 8 ohms impedance only (one 8 ohm speaker.) If connecting more than one 8 ohm speaker in Bridged mode, you MUST use a properly-set impedance-matching volume control or other impedance-correction device.

**Source Output Connectors:** This is a line-level "pass-through" connector. The line-level signal from any selected source is automatically sent out through these connectors. This is handy if you want to "daisy-chain" the signal into another amplifier or as a source input into a whole-house system, without having to use RCA Y-adapters.

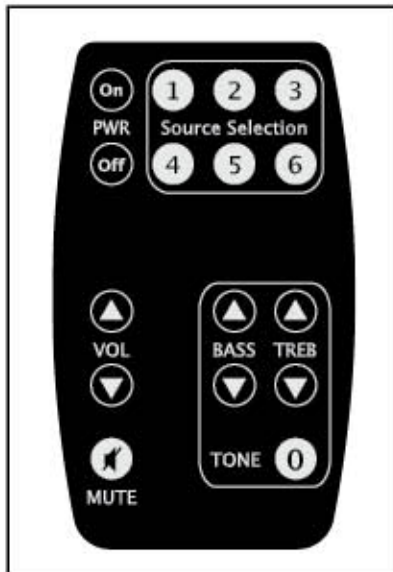
### Speaker Cable Connections

	<p><b>Banana Plug</b> Make sure binding posts are tightened then push in banana plug.</p>		<p><b>Bare Wire</b> Rotate binding post counter-clockwise to reveal post. Strip back 3/8" insulation from cable. Tightly twist copper wire and wrap around post. Rotate binding post clockwise to tighten.</p>
<p>Be sure to maintain polarity (Speaker + to Amplifier +, Speaker - to Amplifier -)</p>			

## Product Features (cont.)

### Remote Control Features

In addition to Power On/Off, Volume Level, and Source Selection, the remote control can be used for tone control. While playing your favorite music, aim the Remote Control at the IR Receiving Eye and adjust the bass and treble up or down until the sound is to your liking. Once set, the tone will remain with these settings until they are again adjusted or until the "0" tone button is pressed. Pressing the "0" button returns the treble and bass levels to their factory setting of a "flat" response.



Mute is also available via the Remote Control for temporarily muting all speaker output. Press the mute button again to return to music listening. The indicator light on the volume button will blink when the volume is muted.

Also note that the Remote Control has separate Power On and Off buttons. These are helpful when programming a "learning remote control" and subsequently programming macros for turning the unit ON or OFF. Note that these buttons are only active when the Power selection switch located on the back of the unit is in the REMOTE position.

### Speaker Connections

#### Figure 1 - Two Pairs of Speakers, No External Volume Control

Two pairs of 8 ohm speakers can be connected to the A-2106 without the need for impedance matching stereo volume controls. Figure 1 shows one pair of 8 ohm speakers connected to the A-side and one pair of 8 ohm speakers connected to the B-side. Either A, B, or A **and** B can safely be selected on the front of the A-2106. Alternatively, you could connect both pairs of speakers to A **or** B. The resulting impedance would be 4 ohms which is acceptable as long as no speakers are connected to the other side.

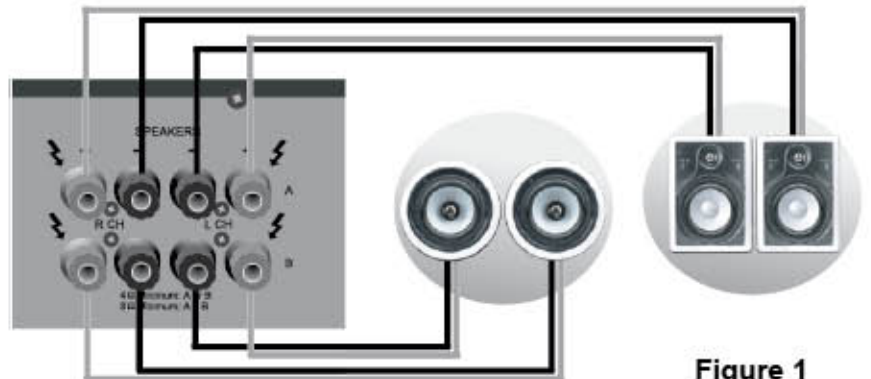


Figure 1

#### Figure 2 and Figure 3- Two Pairs of Speakers with External Volume Control(s)

Figure 2 shows one impedance matching stereo volume control connected to two pairs of 8 ohm speakers. Figure 3 shows two impedance matching stereo volume controls each connected to one pair of 8 ohm speakers. In both cases the impedance switches on the volume controls are set to the "X1" position (times one equals no impedance correction). In both cases, the resulting impedance is 4 ohms which is acceptable as long as the speakers are only connected to A **or** B, not both.

## Speaker Connections (cont.)

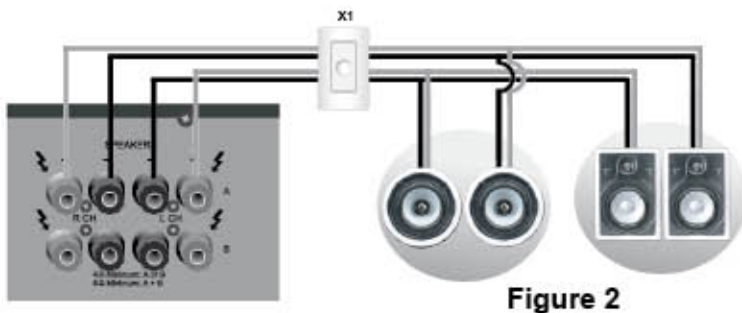


Figure 2

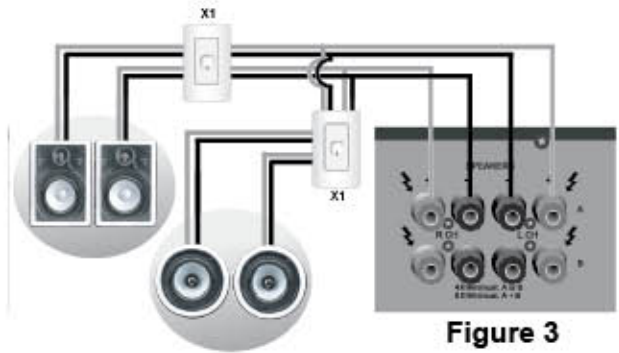
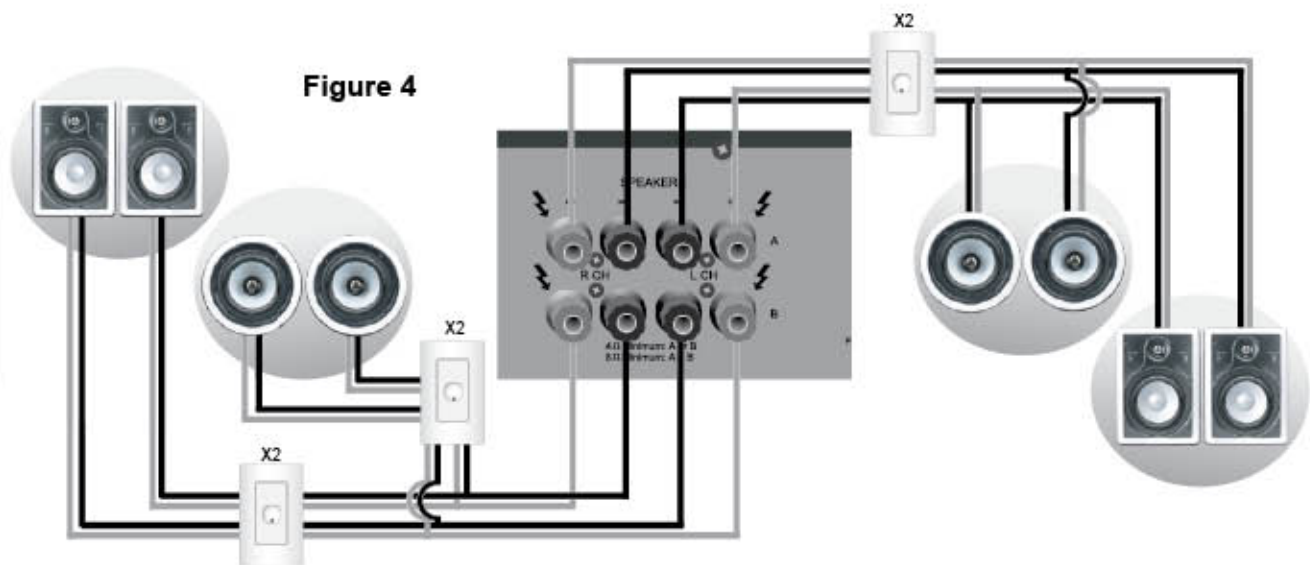


Figure 3

### Figure 4 - Multiple Pairs of Speakers with Multiple Impedance Matching Stereo Volume Controls\*

When connecting more than two pairs of 8 ohm speakers to the A-2106, it is necessary to use impedance matching volume controls in order to correct for the impedance load placed on the amplifier. Figure 4 shows four pairs of speakers connected to the A-2106. Two pairs are connected to the A-side and two pairs are connected to the B-side. In order to operate both A **and** B simultaneously, the minimum impedance load on each side must be 8 ohms. When two pairs of 8 ohm speakers are connected in parallel (as shown), the impedance load is cut in half to 4 ohms. By setting the impedance matching stereo volume controls to X2, the impedance is brought back up to a safe level of 8 ohms.

Alternatively, you could also connect four pairs of speakers to the A-side or B-side only, and still leave the volume control(s) set to X2. The resulting impedance will be 4 ohms which is acceptable when only connecting to the A **or** B side. Note that it is the total number of speakers that are connected to the same amplifier that determines this position (as long as all speakers at some point pass through one volume control). The total number of volume controls is irrelevant.



\*While it is possible to connect more than four pairs of speakers to the A-2106 by increasing the impedance matching multiple on the volume controls, better performance is achieved by using multiple A-2106s or a multi-channel amplifier when connecting five or more pairs of speakers.

**Specifications:**

Stereo input sources	6
8 ohms RMS Watts Per Channel (both channels driven)	100
4 ohms RMS Watts Per Channel (both channels driven)	150
Total Harmonic Distortion (THD) 20 Hz - 20 kHz	
8 ohms	.04%
4 ohms	.06%
Peak current per channel	30 Amps
Frequency response	5 Hz - 65 kHz
Dimensions (HxWxD)	3.75" x 16.5" x 14" (rackmount width is 19")
Net Weight	21 lbs.

### Warranty

All HTD electronics carry a two-year parts and labor warranty. Details can be found at [www.htd.com/info/warranty](http://www.htd.com/info/warranty).  
Warranty registration occurred automatically at the time your order was placed. There is no need to complete or mail in additional paperwork.

If you have any questions, we can be reached at...  
[info@htd.com](mailto:info@htd.com) or toll free 1-866-HTD-AUDIO (483-2834)

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