DO NOT CONNECT THE WIRES FROM THE VOLUME CONTROL TO THE AMPLIFIER UNTIL THE FOLLOWING CHECKS HAVE BEEN PERFORMED!

1. With an Ohmmeter, measure the resistance between the **+** and **-** of each pair of wires that is to be connected to the amplifier's speaker outputs. Under no circumstances should this reading be below 4 Ohms. A reading of less than 4 Ohms may mean that the Input and Output plugs on the Volume Control may have been hooked up backwards (potentially causing damage to the amplifier). An open reading may indicate a polarity reversal.

2. Make sure amplifier is not powered up when making connections or testing.

Operation

Once the H571/H572 is connected to both amplifier and speakers, adjustment and testing can occur. When using a receiver or integrated amplifier with it's own Volume functions, turn the Volume all the way down. Turn Volume all the way up on the H571/H572, then slowly adjust the Volume on the receiver untill a comfortable listening level is obtained. Leave the receiver's Volume at that level and adjust Volume from the H571/H572. When connected directly to an amplifier, follow the above procedures, but adjust the amplifier's Gain Control rather than the Volume knob of a receiver. Once the gain has been established, no further adjustment should be necessary.

Specifications

Power Rating.....75 Watts Peak/35 Watts RMS per Ch
Frequency Response.. 20-20 KHz, +/- 0.5 dB into 8 Ohms
Total Harmonic Distortion..... < 1%
Impedance Setting (H572).....Variable 1X/2X/4X/8X
Impedance Setting (H571).....Variable 2X/4X/8X/16X
Minimum Speaker Load..... 4 ohms
Dynamic Range.....49 dB (Max to Min audible)
Available in White, Ivory, Almond, Black, and Brown

Warranty

Linear LLC warrants this product to be free from defects in material and workmanship for two years (2 years). The time period will be measured using the date code labeled on the product. Linear LLC is not responsible for damage to the product resulting from the buyer's improper handling, stocking or warehousing of the product. Any implied warranty arising from the sale of the product including implied warranties of merchantability and fitness for purpose are limited. Linear LLC shall not be responsible for any losses, damages or expenses, whether direct, consequential, or incidental arising from the use or the inability to use the product. Some states and countries do not allow limitations or how long an implied warranty lasts or the exclusion or limitation or incidental or consequential damages, so the above exclusions may not apply. The Linear LLC warranty gives specific legal rights in addition to other rights, which may exist and vary from state to state and country to country.

The warranty is limited to repair or replacement of products returned, freight prepaid, to Linear LLC, there is NO PROVISION FOR LABOR COST OR OTHER REIMBURSEMENTS OF ANY KIND.

1. Failures due to product abuse, such as negligence, improper use, and electrical surge including damage from lightning, water damage or other damage due to natural disasters are not covered by the warranty. The most common form of product abuse is surge damage caused by lightning.
2. The warranty shall also be voided by any tampering with the date code, labels or other markings on the product.
3. Products that are damaged in transit to Linear LLC due to improper packaging or by the carrier (shipping company) will not be covered under the warranty. If the product was damaged or lost by the carrier, it is the sender's responsibility to create a claim against the carrier.
4. The user is responsible for all labor costs associated with removing, reinstalling and returning the product to Linear LLC.

Linear LLC, at its option, will repair or replace the defective product. Replacements will be made from B-Stock, if an exact replacement is not available, Linear LLC, at its option, will select the nearest equivalent product. The user is responsible for freight charges to Linear LLC. Linear LLC will return warranted repaired or replacements by UPS Ground or an equivalent service. A customer may pay the additional costs for second-day or next-day service.

All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Services at 1-800-999-5225 for an RPA# and other important details.

 P/N 9900581 REV: A

H571	**Mono Volume Control w/ Override**
H572	**Stereo Volume Control w/ Override**

Introduction

The OpenHouse H572 Stereo Volume Control w/ Override is a twelve-step stereo Volume Control with Variable Impedance Match settings. The H571 is a mono Volume control w/ Override conforming to the same specifications (except stereo capability). This Volume Control was designed to connect speakers to amplifiers with power ratings up to 75 Watts peak music power. Based on proven technology, the H571/H572 provide a perfect solution when using multiple speakers in high powered multi-room applications or when basic volume functions are needed with a receiver or amplifier. This device was specifically designed to be compatible with the OpenHouse H560 Music & Communications Distribution Center and will work with other amplifiers, as well.

Features

- **75 Watts Peak Per Channel Music Power**
- **1X/2X/4X/8X H572**
- **2X/4X/8X/16X H571**
- **Volume Control Override**
- **Ten Year Warranty**
- **Twelve-Position Volume Steps**
- **Decora® Styling**
- **OpenHouse Quality**

Rough-In

The H571/H572 will fit into the majority of single-gang boxes and P-rings. If local building codes allow, P-rings provide easier installation due to the greater mounting depth that can be obtained. This Volume Control should not be mounted in the same rough-in box as 110 volt devices--this can cause undesirable noise in the speakers. High-wattage light dimmers can also cause noise issues.

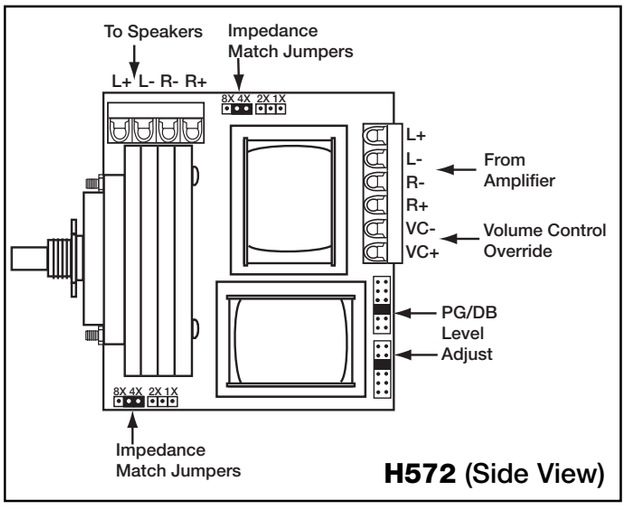
ALWAYS CHECK LOCAL BUILDING AND FIRE CODES FOR LOW-VOLTAGE DEVICE INSTALLATION AND WIRING REQUIREMENTS.

IN RETROFIT APPLICATIONS, ALWAYS CHECK FOR OBSTRUCTIONS SUCH AS PIPES, CONDUIT, OR ELECTRICAL WIRING BEFORE CUTTING DRYWALL

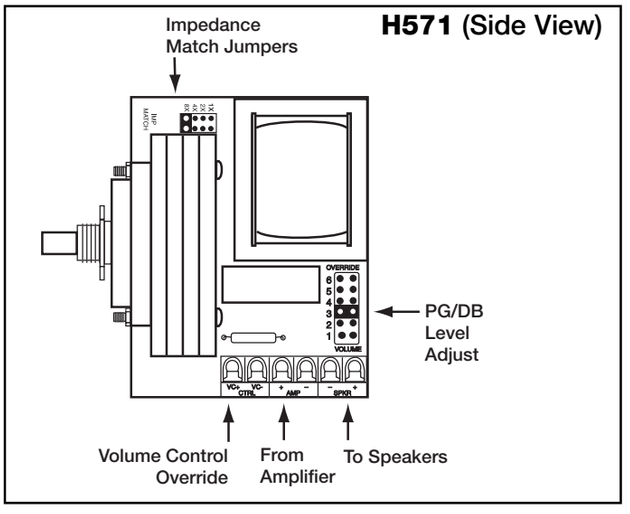
Wiring

Wiring for the H571/H572 consists of speaker wire and CAT5 when connecting to the H560. The H571/H572 can accommodate from 14 to 24 gauge speaker wire. Typical installations will use 16 or 18 gauge stranded copper wire, while longer runs (greater than 80 feet) should use 14 gauge wires. In-wall runs should utilize twisted pair wiring. Please consult local building codes before attempting in-wall wire runs.

DO NOT REVERSE THE AMPLIFIER INPUT AND SPEAKER OUTPUT CONNECTIONS! THIS CAN RESULT IN DAMAGE TO EQUIPMENT AND/OR PROPERTY.



H572 (Side View)



Impedance Match Settings

Jumper settings on the H571/H572 determine the Impedance Match settings. See diagram for position of Override Jumpers. Jumper position depends on three things:

1. The minimum impedance rating of the amplifier being used.
2. The number of speakers being connected to the amplifier channel.
3. The nominal impedance of the speakers being utilized.

Once the above information has been determined, use the following equations to determine the correct Impedance Match setting for each specific application. Two equations are necessary:

$$\frac{\text{Impedance Rating of Speakers}}{\text{\# of Speakers Connected to Amp Channel}} = \text{System Impedance}$$

$$\frac{\text{Minimum Impedance Rating of Amp}}{\text{System Impedance}} = \text{Impedance Match Jumper Setting}$$

Example:
Amplifier's minimum impedance rating = 8 ohms
# of speakers on this channel = 4
Speaker impedance = 8 ohms

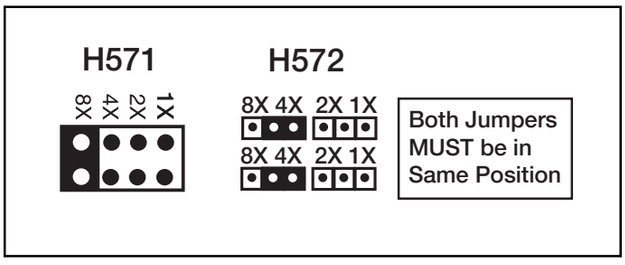
$$\frac{\text{8 Ohm Speaker}}{\text{4 Speakers}} = \text{2 Ohm System Impedance}$$

$$\frac{\text{8 Ohm Stable Amp}}{\text{2 Ohm System Impedance}} = \text{4 X Jumper}$$

Technical Services: Call 800-999-5225

Impedance Match Settings (continued)

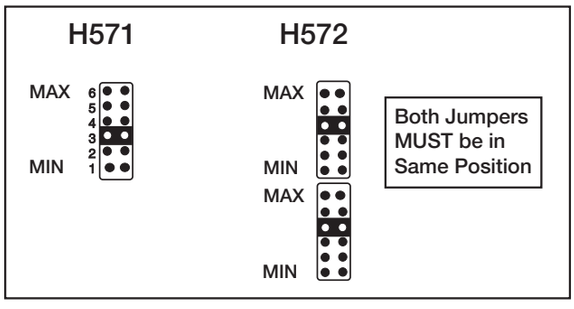
Most speakers are rated at 4, 6, or 8 ohms. If connecting speakers of different impedances to an amplifier, an average impedance must be determined; i.e. one pair of 4 ohm speakers is the equivalent of 2 pair of 8 ohm speakers. All 6 ohm speakers should be entered into the equation as 4 ohm speakers. All volume controls connected to an amplifier channel should have the same Impedance Match setting.



Never create settings that cause the amplifier to see an impedance below its minimum impedance rating as this can cause damage to the amplifier.

Page & Doorbell Level Adjustment

When utilizing OpenHouse's Page and Doorbell features, it will be necessary to adjust the Page & Doorbell Volume level. Locate the Page & Doorbell Volume jumpers as shown on the diagram below. On the H572, both jumpers MUST be set to the same position or damage to the unit could occur. Test the Page and Doorbell functions and monitor the audio levels. Adjust shunts higher to increase Page & Doorbell volume, adjust lower to reduce volume.



Installation

With the rough-in box or P-ring installed and speaker wires and CAT5 pulled to the location, installation can commence. Make wiring connections first, then mount the Volume Control in the wall.

1. Disconnect amplifier from electricity before starting.
2. Snap colored faceplate on to Volume Control. Push knob in place.
3. Strip back 1/4" of the insulation from the end of the speaker wires.
4. Twist bare wires tightly making sure their are no frayed ends.
5. Secure each wire from the amplifier to its respective connector. Use screw terminals to tighten.

L+ to L+, L- to L-, R+ to R+ and R- to R-

6. Next, make connections to the speakers using the same **L+/-, R+/-** scheme.
7. Connect **VC+** and **VC-** from an OpenHouse H560 Music & Communications Controller to the VC+ and VC- connections of the H571/H572.
8. Carefully place the Volume Control in the rough-in box making sure not to put strain on the speaker connections.
9. Insert two 1" screws into the mounting holes of the H571/H572 to mount the unit into the rough-in box. Tighten these screws until the unit is at the proper depth to mount flush with the wall.
10. Place Decora cover over Volume Control. Insert and tighten short screws until the cover is tight and flush with the wall.
11. Connect speaker wires to amplifier. Make sure proper polarity is maintained or sound quality will suffer.
12. Connect amplifier to power and then test.