

How to Install and Use DirectSelect™ Volume Control /Headphone Modules

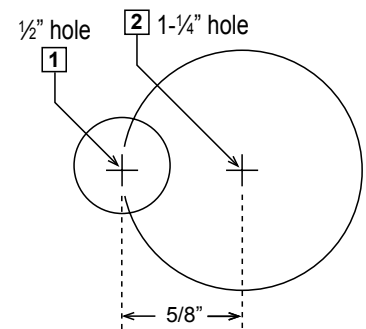
The Model 2958 adds SilenTouch™ switch interval muting and volume control capability to DirectSelect™ Series switching systems or anywhere these functions are needed. SilenTouch™ is Audio Authority's exclusive process for eliminating switching noises and protecting the relay contacts in audio switching systems. A digital rotary encoder is used for volume control, eliminating potentiometer noise and protecting against damage due to over-rotation. Optionally, up/down push-buttons can be used to control volume instead of the rotary control.

Model 2959 is similar the 2958 but adds eight stereo headphone outputs, making it useful for headphone demonstrations with volume control.

By adding just a 12-volt power pack (Audio Authority part number 805-021), either version can be used as a stand-alone volume control in any kind of audio system having RCA or 3.5mm signal jacks. In volume control applications that demand a more comprehensive set of features, such as wider volume control range or adjustable limits, use the Model 988CP0 or 988CP3.

Installation

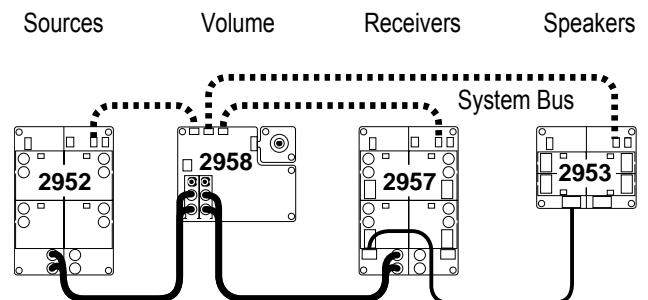
1. If the volume control knob is not needed, omit this step. The volume control can be mounted on any panel surface up to 3/4 inch thick. Determine where the volume knob is to be located and use this template to cut out the panel. First drill the 1/2" hole, then drill the 1-1/4" hole 3/8" to the right of the first hole. Mount the volume control sub-board to the back of the panel using two screws according to the table below. Install the spinner knob on the volume control shaft using the hex key provided. Use two strips of paper to space the knob out for panel clearance. Plug the volume control cable into the 6-pin header on the main board.



Panel Thickness	Fastener	Drill	Notes
Up to 1/4 inch	6-32 machine screw and nut	5/32"	Reverse the two plastic spacers
3/8 to 5/8 inch	#6 sheet metal or drywall screw	7/64"	Use the plastic spacers as-shipped
3/4 inch	#6 drywall screw	7/64"	Remove the two plastic spacers

2. Mount the main board close to the rest of the system using the supplied screws.

3. In switching systems, plug the source output bus into the RCA or stereo mini-phone Bus Input jacks. Plug the amplifier input bus into the 2958/2959 Bus Output jacks. Connect the System Bus of each switching system product group to a different System Bus port on the 2958 or 2959. Sources, amps/receivers and speakers are examples of DirectSelect™ product groups. Do not cut any of the yellow interlock wires in the bus harnesses when using the 2958 or 2959. See the DirectSelect™ instruction manual for further switching system application details.



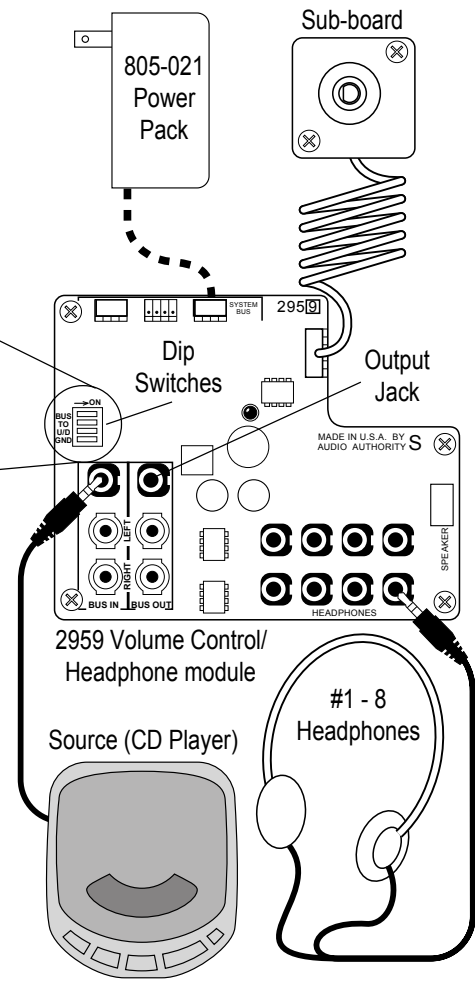
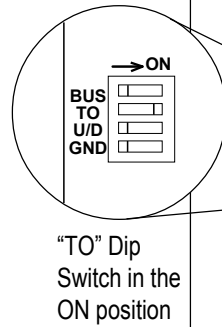
The location of a 2958 in the signal flow of a stereo DirectSelect™ switching system.

4. In stand-alone volume control systems using the 2958 or 2959, plug the audio source into the Bus Input jacks and plug the input of an amplifier or powered speakers, if present, into the Bus Output jacks. To power the volume control module, plug a 805-021 Power Pack into one of the System Bus ports.

5. (2959 only) Plug from one to eight pairs of headphones into the headphone jacks.

6. Set the DIP switches to activate various options according to the following table:

Label	Setup
BUS	Turn ON to activate SilenTouch™ muting in DirectSelect™ switching systems
TO	Turn ON to automatically return to nominal -20 dB default volume after 2 minute timeout
U/D	Turn ON to use up/down volume control buttons instead of rotary encoder knob
GND	Turn ON or OFF as needed to eliminate ground noise



Contact your Audio Authority Account Representative if you want to use up/down volume buttons instead of the rotary encoder.

Operation

The 2958/59 volume control has a volume range of about 30 dB. Turning the volume control knob or pushing the Up or Down buttons, as the case may be, raises or lowers the volume from the current value.

With the TO (Time Out) switch turned OFF, the volume control “wakes up” at full volume level when power is applied and remains indefinitely at the last level it was set to. With the TO switch turned ON, the volume control wakes up at the -20 dB timeout level and also returns to the timeout level after the volume knob or buttons and the DirectSelect™ switching system have been inactive for two minutes.

If you encounter difficulty or have a question that was not answered by these instructions, please call Audio Authority Technical Service at 800-322-8346.

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