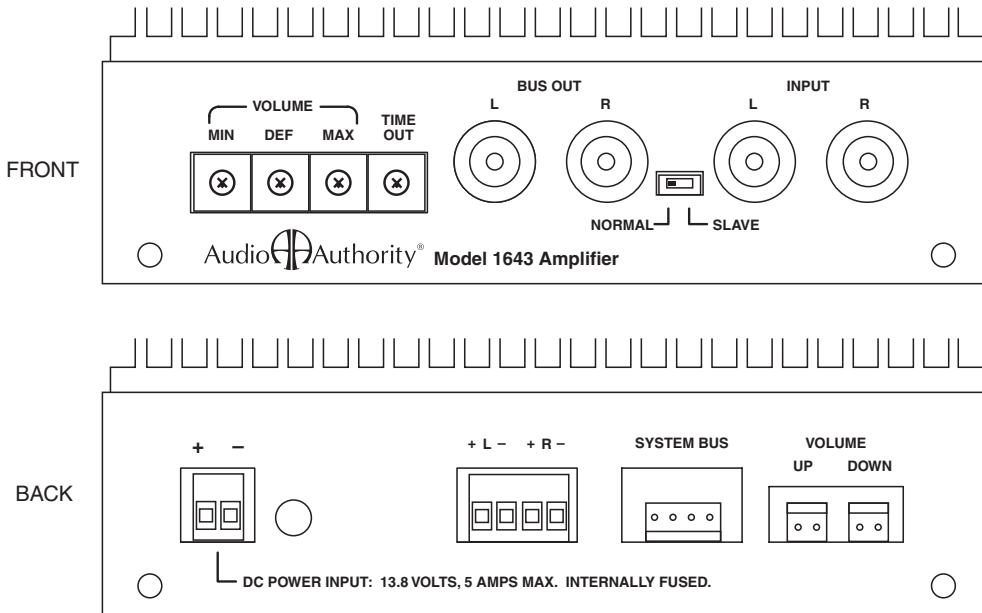


How to Install the Model 1643 Amplifier

The Model 1643 amplifier provides 15 watts per channel of clean power for driving speakers in retail demonstration settings. It also resets the amplifier gain to an adjustable default level when the volume Up/Down keys have been inactive for a selectable period of time, or when a specific deselect code is received from the communication bus of a simple distributed switching system. UP and DOWN buttons allow customers to control the volume level between selectable limits. These amplifiers may be ganged, with several slaves being controlled by a master unit's volume control section.

Connect the 1643 to the display system as follows:

1. DC POWER terminal block to 13.8 volt power bus capable of 5 amps.
2. Speaker terminal block to speaker bus.
3. SYSTEM BUS header to Access™ System Bus (the switching system may be powered from this port, but the amplifier must be powered through the DC POWER INPUT port).
4. VOLUME UP/DOWN headers to up/down pushbutton switches.
5. Input jacks to input signal bus.



Set up the 1643 controls as follows:

1. NORMAL/SLAVE switch in NORMAL position for a single amp application (do not use the BUS OUT jacks for single amp applications).
2. MAX switch to the prescribed maximum volume limit setting (0=lowest, 9=highest).
3. DEF switch to the prescribed default volume setting (0=lowest, 9=highest).
4. MIN switch to the prescribed minimum volume limit setting (0=lowest, 9=highest).
5. TIMEOUT switch to the prescribed time before switching to default position (see Timeout Example Chart).

Timeout Example Chart

Multiply the setting on the rotary switch by 15 to calculate the actual number of seconds from the last activity in the switching system to the switch back to the default position.

Examples:

Timeout Setting	Seconds to Default
0	0
1	15
2	30
3	45
4	60
etc.	

To “gang” or bus multiple 1643 modules together:

1. Adjust the first module in the chain as above and connect the power supply and volume buttons.
2. Set rotary switches (MIN, DEF, MAX, TIMEOUT) on all other modules in the chain to zero (0).
3. Set the first 1643 to NORMAL and all others to SLAVE.
4. Connect all amplifiers together to receive the same low level input as shown below.

