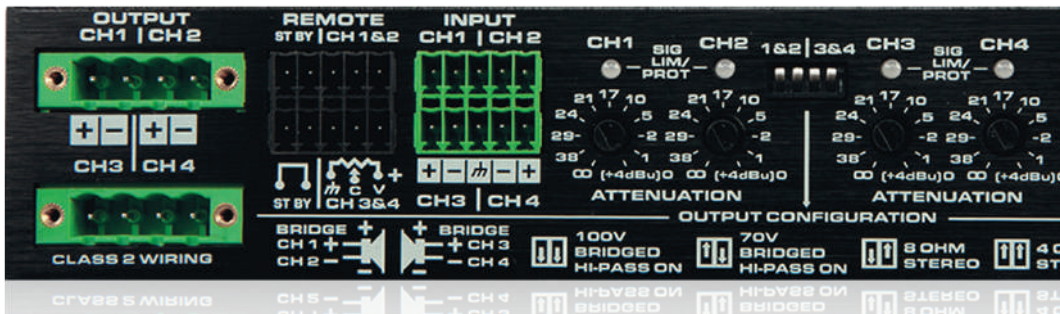


Technical Notes

SPA Series Power Amplifiers



Remote Gain Control

The SPA Series power amps have a set of three remote gain control terminals for each pair of channels. They allow you to use an external pot such as the QSC WCP-1 wall control accessory to produce a control voltage for adjusting the voltage gain.

NOTE: The remote gain control does not override the physical gain controls located on the back of the amp.

Remoting one channel pair

For a single SPA2-60 amp, or one channel pair of an SPA4-60, connect the remote pot as shown in Figure 1:

- V+ (the reference voltage source) to the pot's "clockwise" terminal.
- C (contact) to the pot's wiper.
- \perp (ground) to the pot's "counterclockwise" terminal.

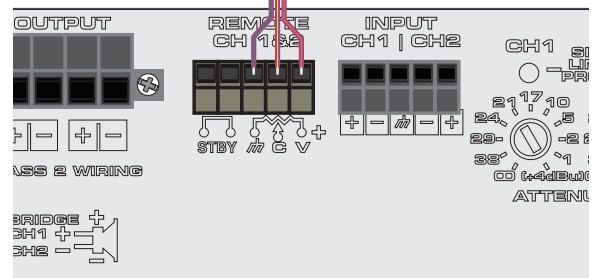
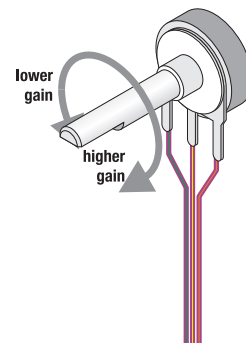
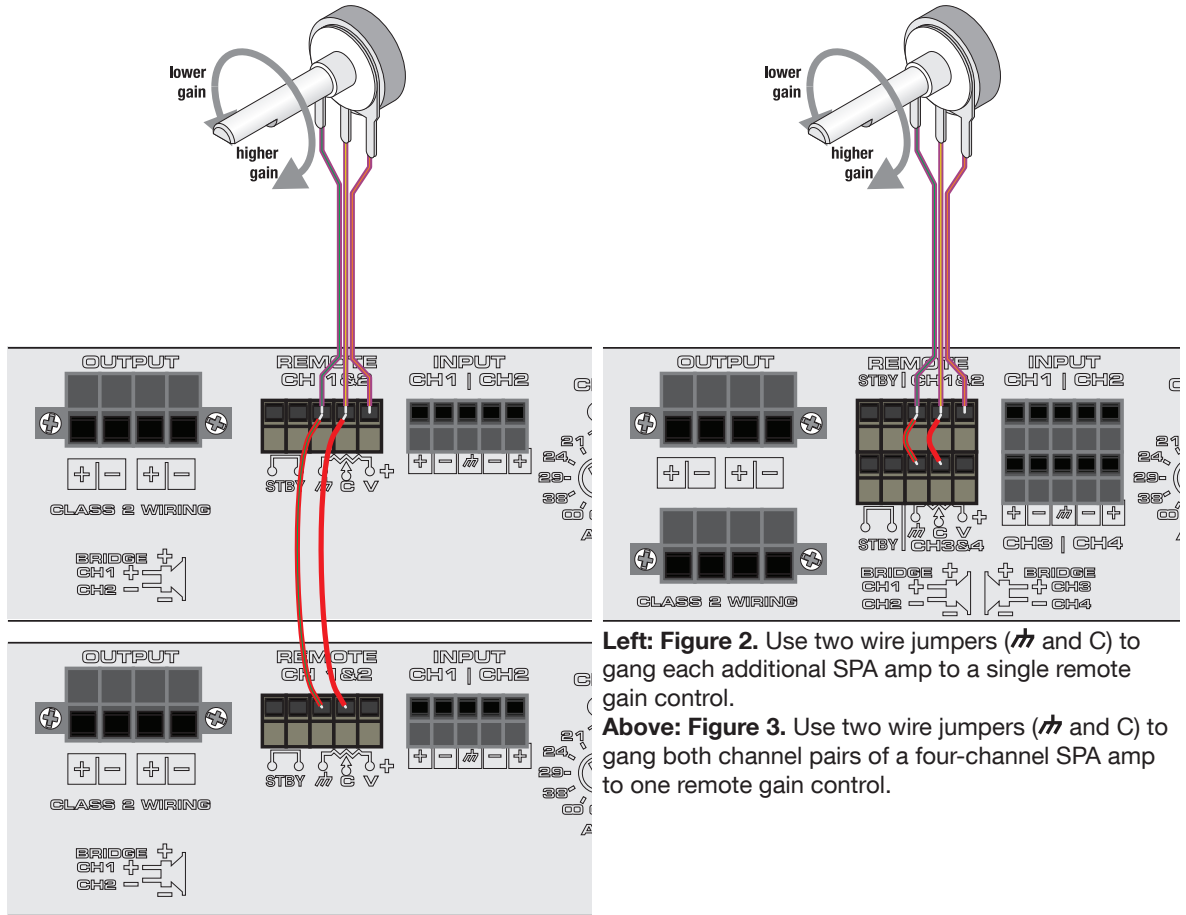


Figure 1. Connecting the pot for one channel pair.

Remoting two channel pairs

To gang multiple channel pairs together—multiple SPA amps, or both channel pairs of an SPA4-60, for example—continue the ground and contact wires (the pot needs only one V+ connection) on to each additional control input, as shown in Figures 2 (multiple two-channel SPA amps) and 3 (both channel pairs of a four-channel model).



Left: Figure 2. Use two wire jumpers (\overline{C} and C) to gang each additional SPA amp to a single remote gain control.

Above: Figure 3. Use two wire jumpers (\overline{C} and C) to gang both channel pairs of a four-channel SPA amp to one remote gain control.

Using the WCP-1 wall control plate accessory for remote gain control

The WCP-1 accessory is ideal for this application. Connect the three wires as shown in Figure 4:

- CW = V+;
- W = C;
- CCW = \overline{C} .

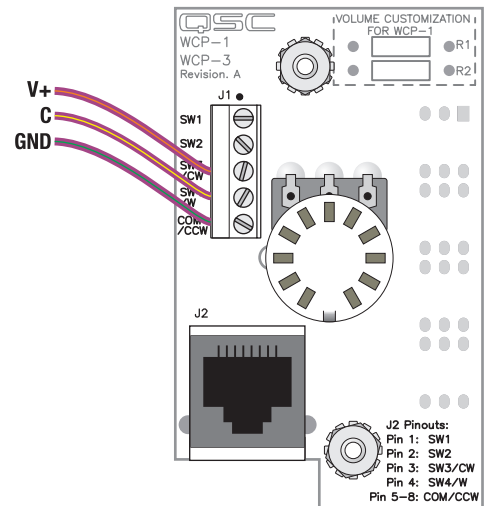


Figure 4. On the WCP-1, use these screw terminals for the three pot wires to the remote gain input.