



Remote Power Adapter Wiring Guide Model ORRPA

Connections and Installation Tips

1. Connect the RED wire to a constant (+) 12 volt source. This can be the memory wire for the head unit (check to see if the radio is code-protected before cutting or unplugging the memory wire) or the (+) 12 volt battery terminal of the amplifier.
2. Connect the BLACK wire to ground. The radio chassis or amplifier ground terminal are generally good locations for this connection.
3. The BLUE wire should be connected to the amplifiers or signal processors that are being controlled by the Remote Power Adapter. It supplies a (+) 12 volt output rated at 1 amp, with a one to three second delay when triggered by signal on the GRAY wire.
4. The GRAY wire may be connected to any wire from the head unit that measures above (+) 5 volts when the unit is on and below (+) 3 volts when the unit is shut off. This includes power antennas, amplifier remote outputs (typically (+) 12 volts but may be as low as (+) 5 volts in some OEM systems), or speaker outputs. A high-powered deck will normally supply between (+) 6-7 volts DC at the speaker output; this is sufficient to trigger the Remote Power Adapter. Use this method for applications where the head unit lacks any dedicated switched outputs or it is easier to access a speaker terminal.
5. The GREEN LED built into the ORRPA lights after the delay period, indicating that the remote output is triggered.
6. The trigger delay is controlled by input voltage on the GRAY wire. A low voltage input will increase the delay to a maximum of three seconds, at (+) 12 volts the delay drops to about one second.

Note: If the adapter is being triggered by a speaker output, it will stay on (along with the devices it controls) for a short period after the head unit is switched off. This is due to the stored energy of a typical chip output and cannot be avoided. To prevent turn-off transient noise we recommend that the adapter be triggered by a dedicated remote output of the head unit whenever possible.
7. By combining two or more adapters, sequential turn-on of several devices can be achieved. This will permit a signal processor to power up after the head unit followed by the amplifier(s) thereby preventing turn-on transients in the signal chain from reaching the speakers.
8. The Remote Power Adapter will drive up to 1 amp of load at (+) 12 volts. If multiple devices to be switched exceed the 1 amp limit use a second adapter. For single-device loads that exceed 1 amp a small relay (DEI part # 8616) can be used. The Remote Power Adapter is a better way to switch audio components since it eliminates the large inductive voltage peaks that a relay generates.

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