



TECHNICAL DATA

signal processors

Who:

phoenix gold
tech department

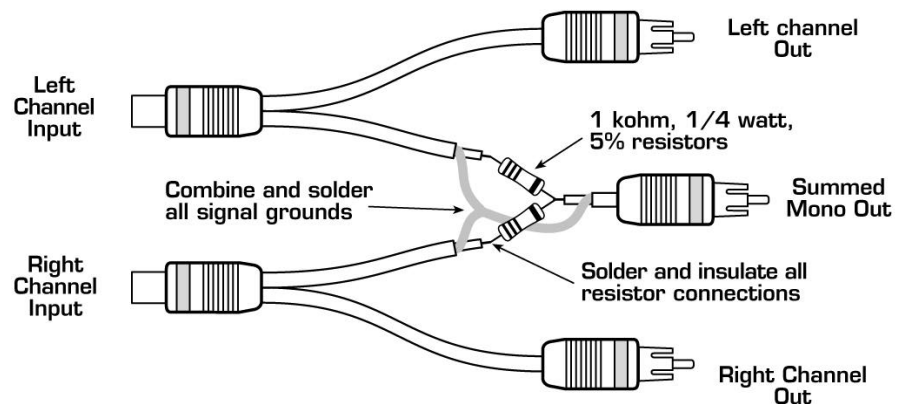
What:

how to create a
mono signal
from a pair of
stereo signals.

Example: You need a mono left + right signal for a small center channel speaker. You could use "Y" connectors off your front RCAs and run the extra signals to a two channel amp with its outputs bridged to the center speaker. This method uses the amplifier as a signal summing device and because the amp's bridged, the small center speaker, the LPAD, and passive crossover network get way too much power.

A better method is to sum the left and right signals together before amplification and just use one channel of the amplifier. This decreases the power reaching the center speaker and allows you to use a reasonably sized LPAD and passive crossover components.

The setup shown below isolates the headunit or signal processor's left and right output circuitry and maintains the integrity of the original stereo signal.



You will need two 1 kohm, 1/4 watt, 5% tolerance resistors and two single female to dual male "Y" connectors (PG# TRX33, A569XS, A469XS, A433 or GAG22).