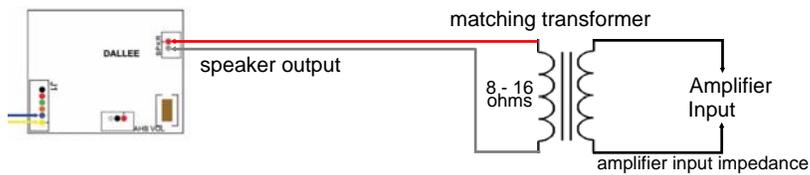


## Application note: Using an Auxiliary Amplifier with HiLine™ Sound units

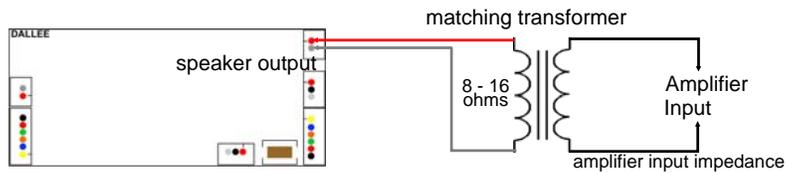
Since the HiLine™ sound systems have an H bridge type output (both output leads are electrically "hot"), you cannot just connect them up to another amplifier, using one lead as the "ground", which will burn out the on board amplifier. This requires connecting the "SPKR" output properly. Our item #672 provides a proper input for use with these sound systems. Other amplifiers can be connected using a matching transformer as shown.

HiLine™ Stamp sound unit



matching transformers can be found in many audio shops. They are used for power amplifiers found in car systems.

HiLine™ Full Featured sound unit



matching transformers can be found in many audio shops. They are used for power amplifiers found in car systems.

Another method for doing so requires that the sound systems ground is the same as that of the amplifier and that the input is capacitively coupled on it's input, which most RCA type line level inputs are (we certainly can't purchase and check all of the different amplifiers out there to verify this, so your on your own here). This method would generally have a DC power source such as a battery or an isolated power source for the sound unit and the amplifier. Carefully follow the connections shown.

HiLine™ Stamp sound unit



HiLine™ Full Featured sound unit



If unsure of an internal blocking capacitor in the amplifier, you can place one in the red wire between the sound unit and the amplifier as shown below (there is no polarity to a capacitor of this value and it will couple sound correctly to input impedances of 47K and higher). The sound unit has 2.5 volts DC on each of it's amplifier output leads ("SPKR"). Each of the sound unit's output leads contain audio, one lead is 180° out of phase from the other. NEVER connect any of these leads to a ground line or other voltage since that can damage the on board amplifier!



0.1 mfd capacitor