



CURRENTAUDIO®

Application Note S101

Blended Stereo from 2 wires

**What to do when you only ran a
2 conductor to a Dual Tweeter
speaker location**

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Blended Stereo from 2 Wires

1. Read these instructions completely prior to use or hook-up.
2. Keep these instructions for future reference.
3. Understand and heed all Warnings.
4. Follow all instructions.
5. Teach someone else technique.

PURPOSE

The purpose of this Application Note is to discuss the complications of only running a 2 conductor to a Dual Tweeter speaker location that requires 4 wires to operate.

Many times during you install career an installer runs only a 2 conductor wire instead of a 4 conductor wire to a Dual Tweeter speaker location. What do you do?

I have heard many answers.

- Hook 2 conductor to only the Left or only the Right output. This only gives one side of the audio component. The customer will soon figure this out.
- Jumper a wire on the amp to both Left and Right outputs on the amp. This will load down the amp . You will have difficulty balancing the audio level on that speaker compared to the rest of the zones.

SOLUTION

There is a little known method to solve this problem. You can combine the signals from the amplifier to provide a blended stereo on 2 wires to a standard speaker with (+) and (-). This will work 99% of the time. It will not work on an amplifier that has isolated grounded speaker outputs.

Refer to the diagram below to make sense of what I am about to teach you.

This refers to any amp that has 2 channels of audio for stereo or a multizone amplifier with more then one zone of stereo sound.

At the amplifier speaker output connect the black LEFT (-) output to the black (-) speaker input. Then connect the red RIGHT (+) amplifier output to the red (+) speaker input.

Turn on the amp, select a source and adjust the volume to a comfortable listening level. Your standard 2 wire speaker will now be playing both Left and Right sound from two wires.

The cool thing about this is you can use the unused speaker outputs of that zone to power another standard 2 wire speaker with blended stereo in another location.

SOLUTION-*continued*

Power another speaker from that zone as follows:

At the amplifier speaker output connect the black RIGHT (-) output to the black (-) speaker input. Then connect the red LEFT (+) amplifier output to the red (+) speaker input. Turn on the amp, select a source and adjust the volume to a comfortable listening level. Your standard 2 wire speaker will now be playing both Left and Right sound from two wires. It is that simple.

You may say that you don't get actual stereo with this hook-up. You don't get stereo from a dual tweeter speaker either, unless you are 2" from the speaker. With a dual tweeter you actually will get some canceling effect from the tweeters being so close. This wont happen on a blended single standard 2 wire speaker.

For a better dual tweeter speaker that minimizes the canceling effect of 2 tweeters close together use the Current Audio [CS650DTFL](#) or [CS800DTFL](#). This speaker has the tweeter at a slight angle from each other to reduce the effect of canceling.

May D-Force be with you.

INSTALLATION

Hookup for Blended Stereo on a Standard 2 Wire Speaker

