

# MrRCSound Amplifier/Regulator Upgrade

Thank you for your purchase of the MrRCSound Amplifier/Regulator Upgrade. This item is designed to be used with the MrRCSound V4.1 sound systems. It will allow you to connect an additional two speakers to the V4.1 for a total of four speakers. It is recommended that you use the Max2 SPL speakers available from MrRCSound.

Connection of the Amplifier/Regulator is quite easy. First you will need to tap power from the same supply as the main V4.1 card uses. Like the main V4.1 card, you can use inputs from a 3S-8S lipo pack. The V4.1 should be powered up after the ESC and RX are completely powered up and running so that it can find the neutral throttle position. The Amplifier/Regulator Upgrade is not as finicky, and may be powered up beforehand or after. If you power the Amplifier/Regulator Upgrade before the main V4.1 card, you may hear some feedback through the speakers, until the V4.1 card is powered up.

The Amplifier/Regulator Upgrade has a turn knob on it for volume control. This adjusts the volume of the two speakers connected to it. The other two speakers' volume is changed from the small volume knob on the main V4.1 board.

You will notice that there are two sets of wires with servo style connectors on them, coming off the amplifier portion of the board. These are the feed inputs from the main V4.1 board. There should be two wires for each, a red and a black. Carefully locate the left and right raw output ports on the main V4.1 board. These are directly under the speaker left and right outputs. Carefully plug one set of wires onto the Left output, and one set onto the right output.

**NOTICE:** The positive pin (red wire) is located facing out, away from each other on the board. So when the wires are connected, they should have the black negative wires facing in, towards each other, and the red wires on the outside, facing away from each other. This is exactly opposite of the speaker wires, which should have the red positive wires facing each other on the main V4.1 board.

That is all there is to it! You should now have the capability of using up to four speakers at once!

