

# Installation Instructions

## Dual DI Box for Balanced Audio Applications

**KIT #26684202**

### Tools Required

Isopropyl Alcohol

### Parts Included with this Kit

Item	Part Number	Description	Quantity
1	34109402	Dual DI Box Assy	1
2	22132275	Harness Assy – Power	1
3	61184-LF	Power Cube	1
4	30934230	Harness-Audio 12”	1
5	21965501	Velcro Hook	2
6	21965502	Velcro Loop	2
These Instructions			

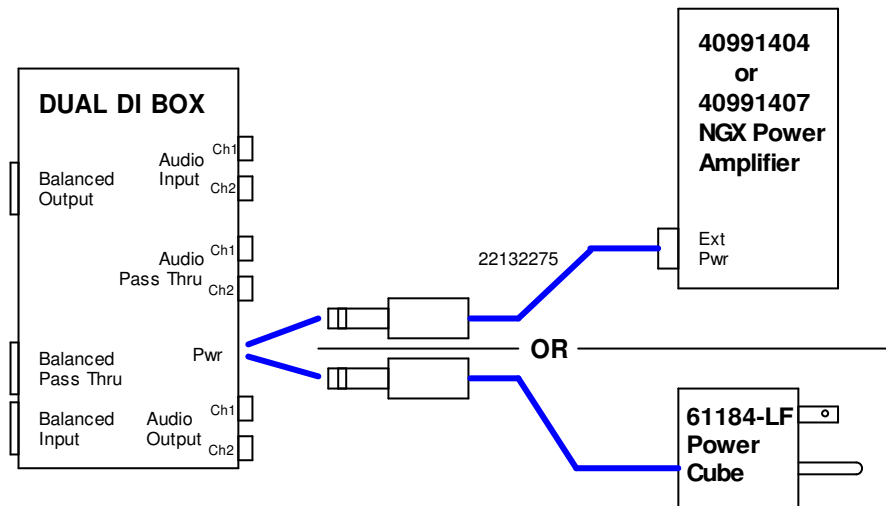


**Figure 1**



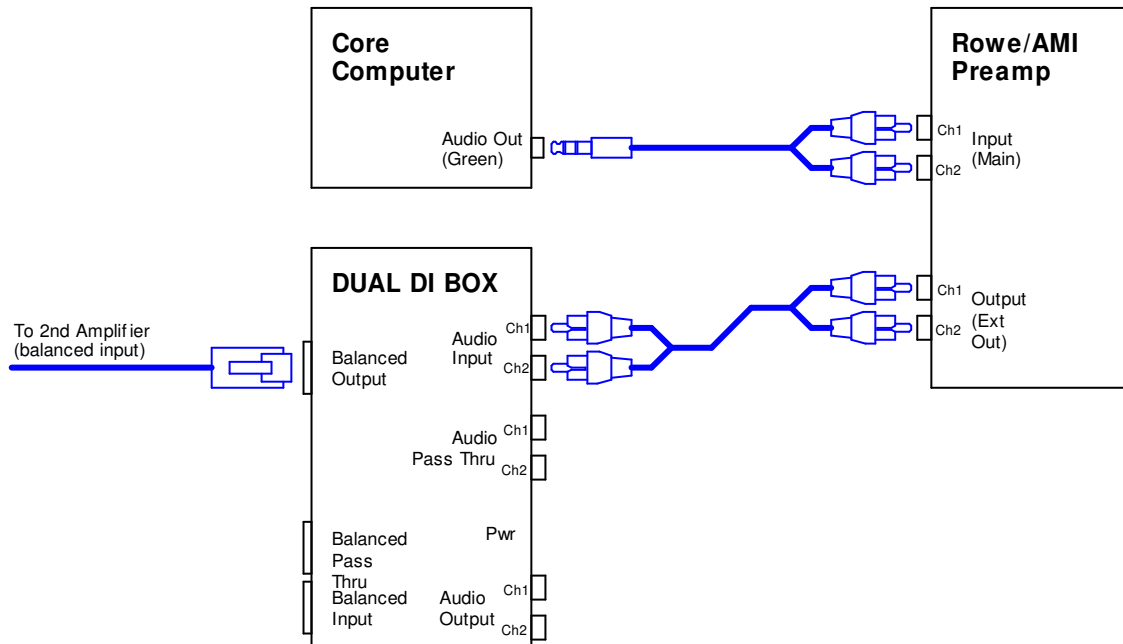
Use the Dual DI Box to convert unbalanced audio signals to balanced differential audio signals. The Dual DI Box will convert audio signals in both directions, from balanced to unbalanced, and from unbalanced to balanced. Standard CAT-5 cable can be used to run balanced differential audio signals longer distances than standard shielded audio cable. However, we recommend limiting CAT-5 cable distances to less than 100 feet.

1. Turn the jukebox off and unplug it from the wall outlet.
2. Locate an area near the preamp assembly with enough room to mount the 34109402 Dual DI Box. Mount the Dual DI Box using the supplied Velcro fasteners in that area. Note: the supplied audio cable is 12" long so the Dual DI Box should be located such that that cable will reach from the Dual DI Box to the preamp.
3. Refer to Figure 2 and use either the 22132275 Harness, or the 61184-LF Power Cube to power the Dual DI Box. Connect as shown.
4. Refer to Figures 3 – 7 to connect the Dual DI Box to the preamp, computer core, and external devices.
5. Test your installation to ensure it works properly.

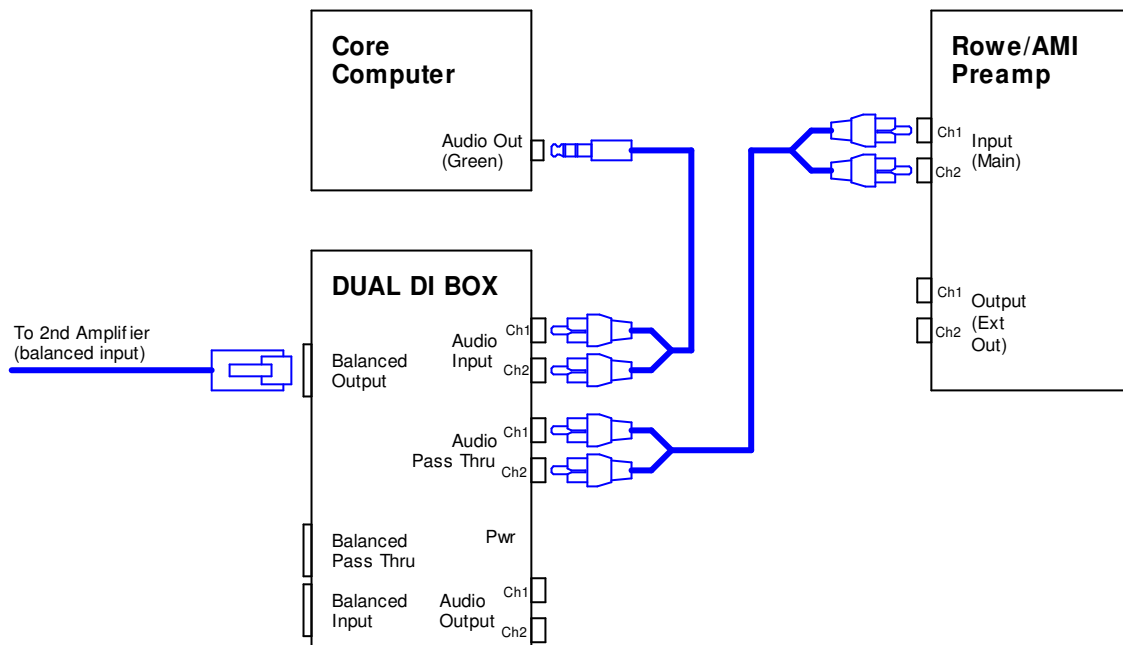


**Figure 2** – Power the Dual DI Box using harness 22132275 if connecting to an NGX 40991404 or 40991407 Amplifier. Otherwise, use the Power Cube to power the Dual DI Box.



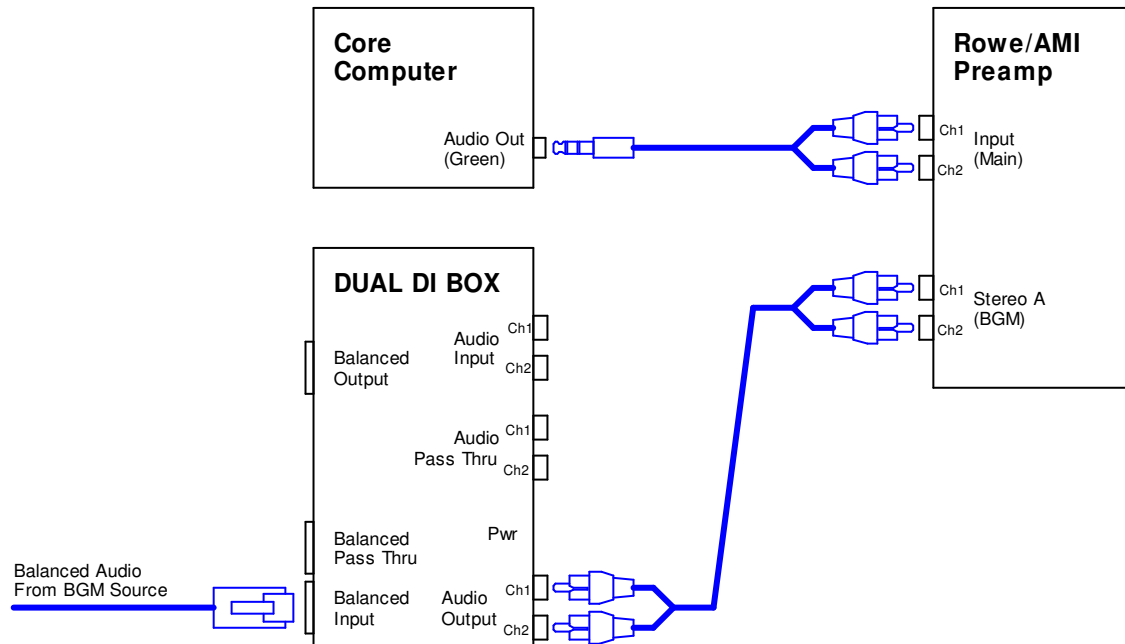


**Figure 3** – Connecting to the balanced (differential) audio input of an amplifier. The Jukebox volume control is used to adjust volume for both the 2<sup>nd</sup> amplifier and the jukebox amplifier.

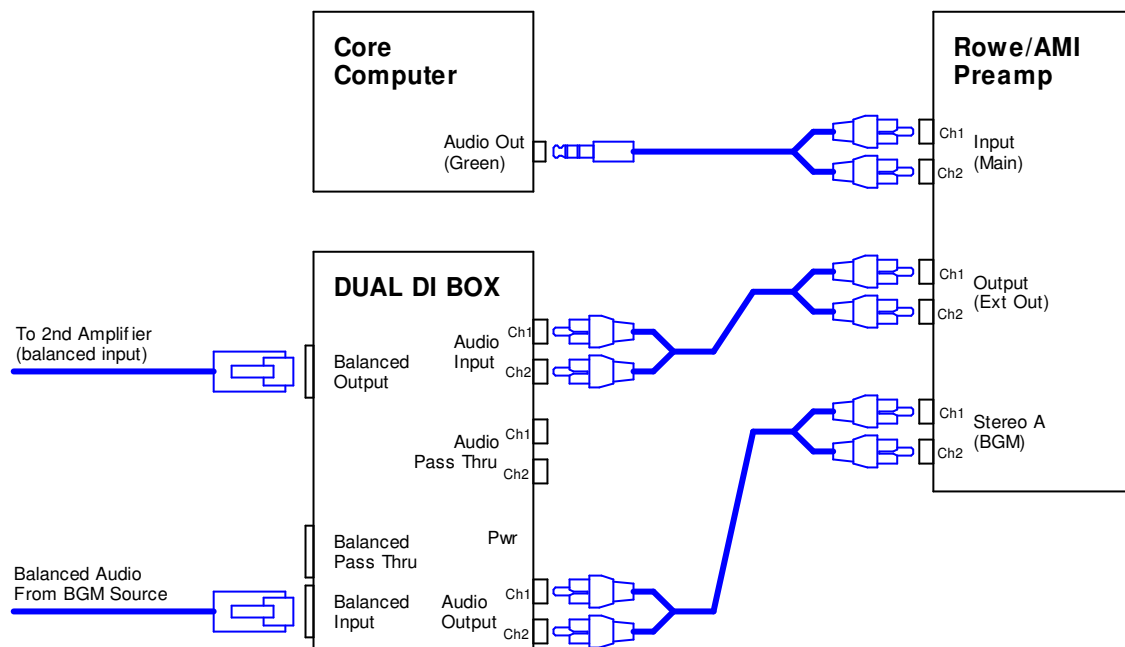


**Figure 4** – Connecting to the balanced (differential) audio input of an amplifier. This uses the Jukebox volume control only for the jukebox. The volume for the 2<sup>nd</sup> amplifier is controlled separately.

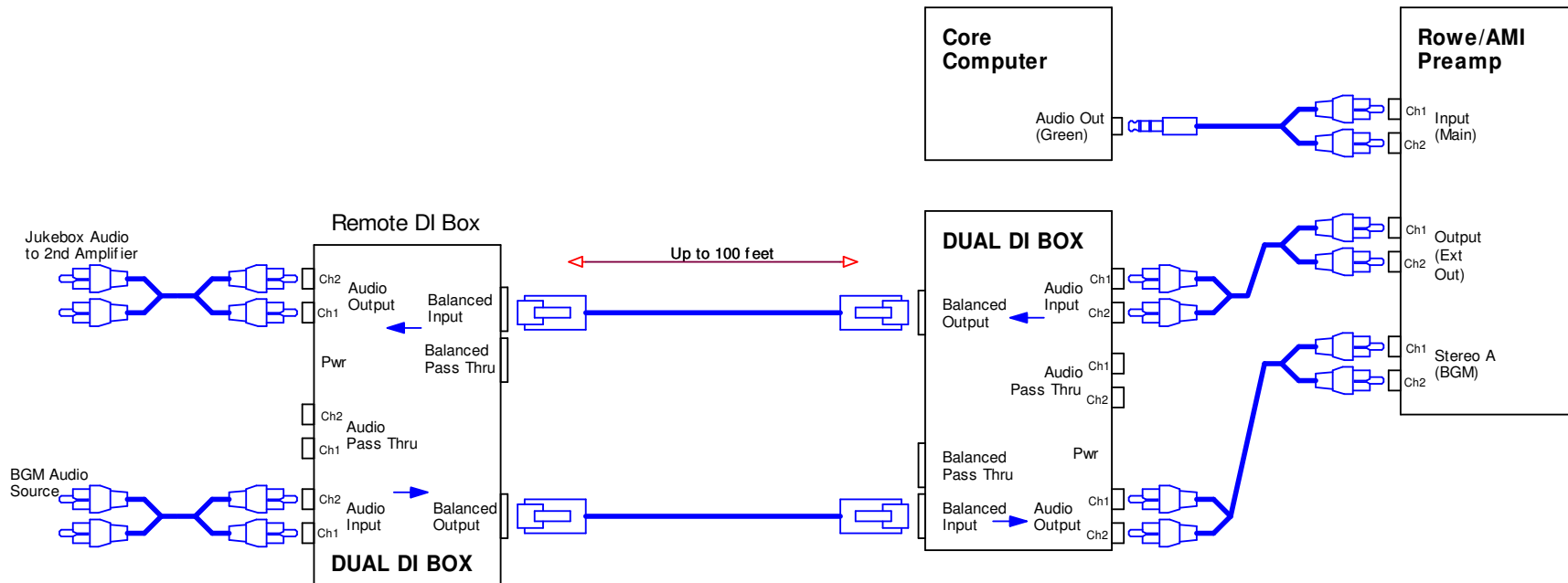




**Figure 5** – Connecting a balanced audio source of Background Music (BGM) to the jukebox preamplifier.

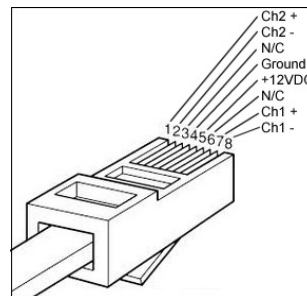


**Figure 6** – Connecting a balanced BGM source to the jukebox and connecting a second amplifier using balanced input. The Jukebox volume control is used to adjust volume for both the 2<sup>nd</sup> amplifier and the jukebox amplifier.



**Figure 7** – This layout uses two Dual DI Boxes (both must be P/N 34109402) to convert standard audio to balanced audio for transmission over CAT-5 cable to/from the jukebox which can be located up to 100 feet away.

Connect power to the DI Box in the Jukebox according to Figure 2. The remote Dual DI Box receives power from the Dual DI Box in the Jukebox through the CAT-5 cable.



**Figure 8** – CAT-5 Pinout



