



Bose Wave Radio II Arduino Remote Clone

by [loganemakf](#) on July 3, 2012

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Intro: Bose Wave Radio II Arduino Remote Clone

After recently reading the [Clone a Remote with Arduino](#) instructable by randofa, I was inspired to try to clone the remote of my Bose Wave Radio II. While this radio is outstanding from an acoustic perspective, the fact that it's only means of control are by remote (only one remote is included) makes this single point of failure design far from ideal.

My goal was to essentially create a "backup" version of the included remote with only the basic functions necessary to operate the radio in the event that something should happen to the remote itself (lost, broken, dead battery, etc.).

I started with the Raw IR Decoder sketch on randofa's 'able, loading it onto my Duemilanove. Then I hooked up the IR transmitter and pushbutton to my Uno. From there it was mostly trial and error to find the minor differences between the actual remote's timing and my clone's timing. Once I had the numbers, I just transposed them all into randofa's framework for sending IR commands.

This sketch is just the barebones commands, implement control as you wish (build yourself a second remote with a button for each function, send serial commands to the arduino, etc.). Commands are easily accessed, simple function calls.

Command List

Volume + --> volumeUp()

Volume - --> volumeDown()

On/Off --> power()

FM --> fm()

AUX --> aux()

Preset # --> preset#()

EX: Preset 1 --> preset1()

Tune Up (>) --> tuneUp()

Tune Down (<) --> tuneDown()

Mute --> mute()

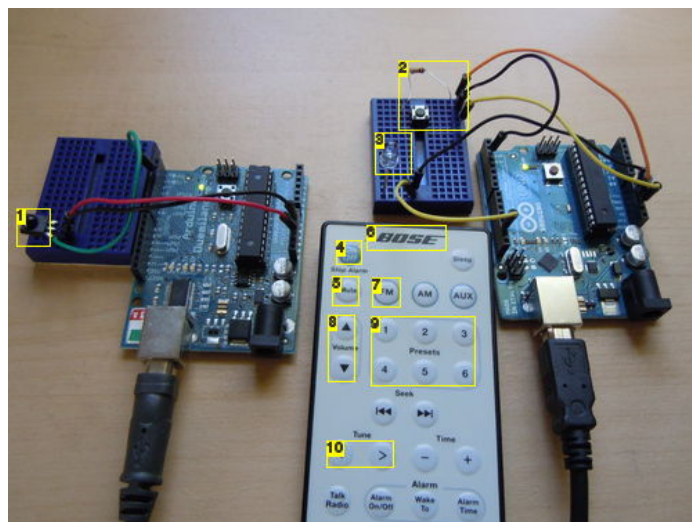
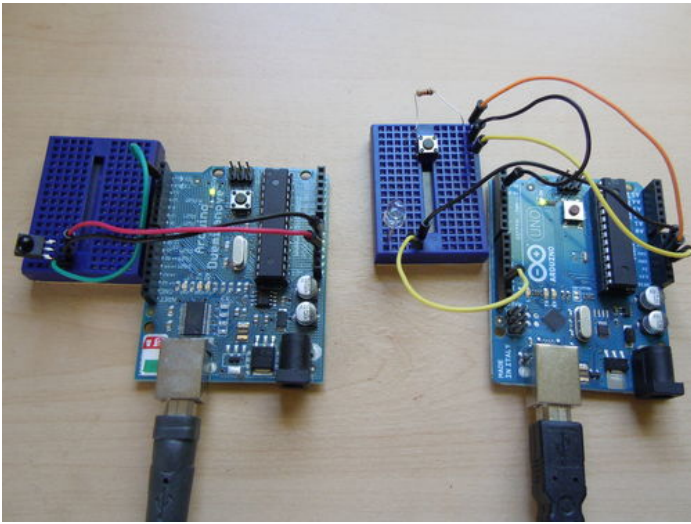


Image Notes

1. 38kHz IR Receiver
2. Pushbutton for basic 1 function control (testing purposes)
3. High-Output IR LED
4. On/Off
5. Mute
6. Functions to be Cloned
7. FM
8. Volume +/-
9. Presets (1-6)
10. Tuning Up(>) & Down(<)



File Downloads



BoseRadio2Control.txt (27 KB)

[NOTE: When saving, if you see .tmp as the file ext, rename it to 'BoseRadio2Control.txt']

Related Instructables



Bose Sound Dock -> 1940's Radio Conversion by michaelalanjones



Add iPhone Microphone and Controls to Bose Quiet Comfort Headphones by zoomcityzoom



Arduino Remote Control by msuzuki777



Make your Arduino project wireless in minutes, with the Wireless Inventors Shield (video) by opensourcerf



Wireless Arduino Remote Camera Trigger (Photos) by SongEmu



Backup your server by Johntron