

## **Phantom Power Blocker (protect Your Dynamic Microphones)**

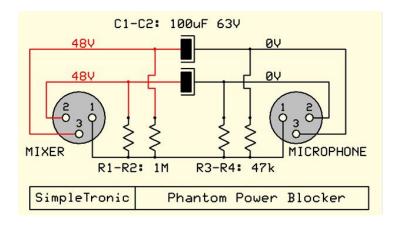


Condenser microphones contain internal circuitry and capsule which require a power supply. Phantom power uses the same wires of the mic balanced output signal to carry that energy from the mixer console to the microphone. Phantom power is required by condenser mics but not by dynamic (moving coil). Professional mixers give you the option to switch the the phantom power on or off for each input channel. Semi-pro and consumer mixers enable or disable the phantom voltage globally or in groups of input channels. In general, connecting a dynamic

mic to a phantom powered input is not a problem as both ends of the coil (or transformer) will be at the **same voltage** and no current will flow through them. This holds true as long as the connection is a correctly wired **balanced cable**. There are many other situations under which phantom power can cause damage to connected devices. This simple circuit **blocks** the phantom voltage to safely connect any device to a **48v** powered input channel.

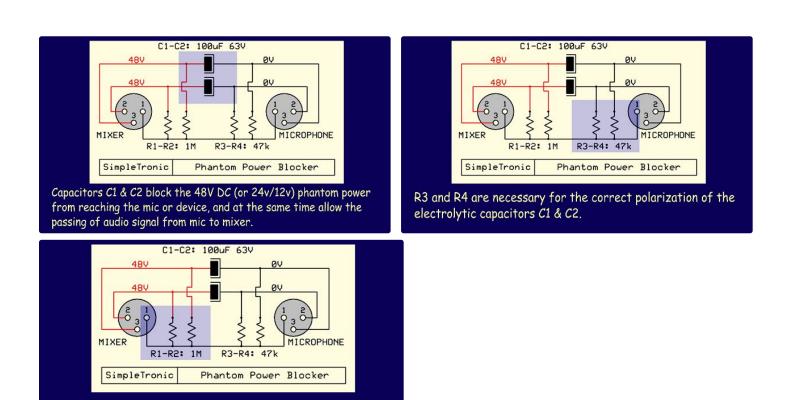


Step 1: Circuit Diagram



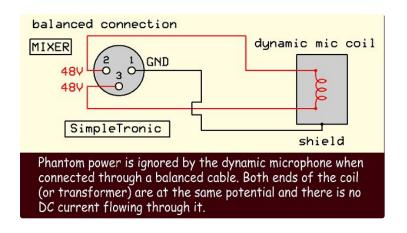
Step 2: How It Works

disconnected.



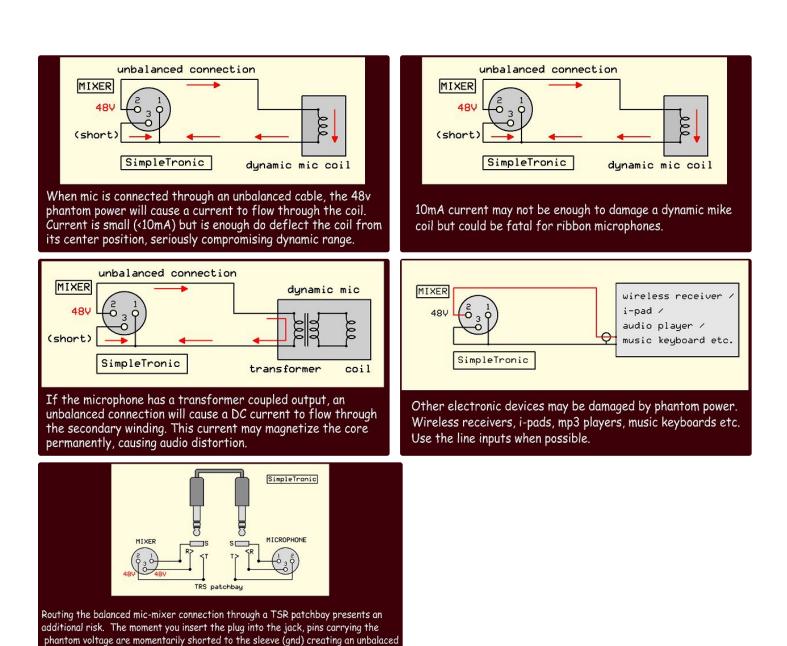
Step 3: Connecting With Balanced Cable Is Safe

R1 and R2 are for discharging C1 & C2 when circuit is



connection, and current may flow through the dynamic mic coil or ribbon.

Step 4: These Configurations Are Not Safe for Dynamic / Ribbon Mics and Other Devices.



## Step 5: Watch the Video! Thank You

https://youtu.be/ufZs-9WAIDk



Thanks for the information. I also need to add a muting feature to this circuit.