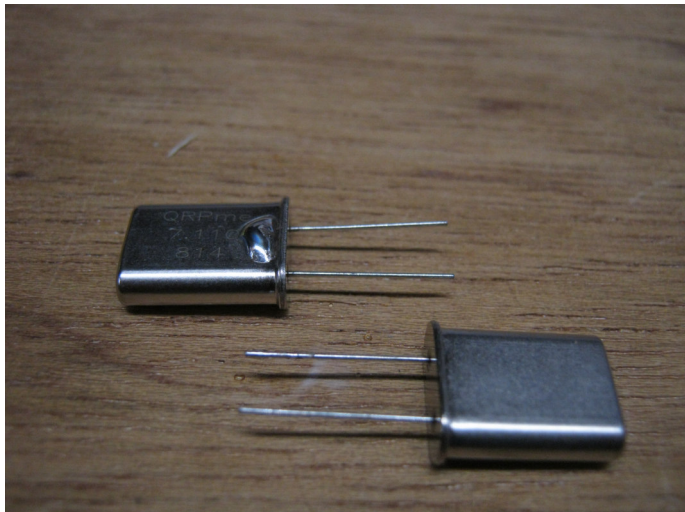
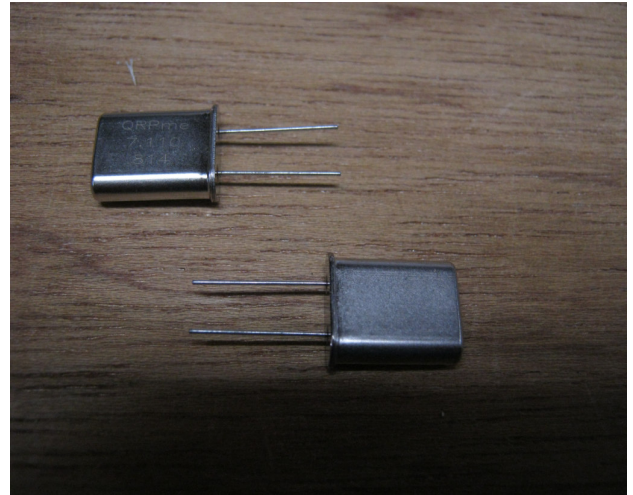


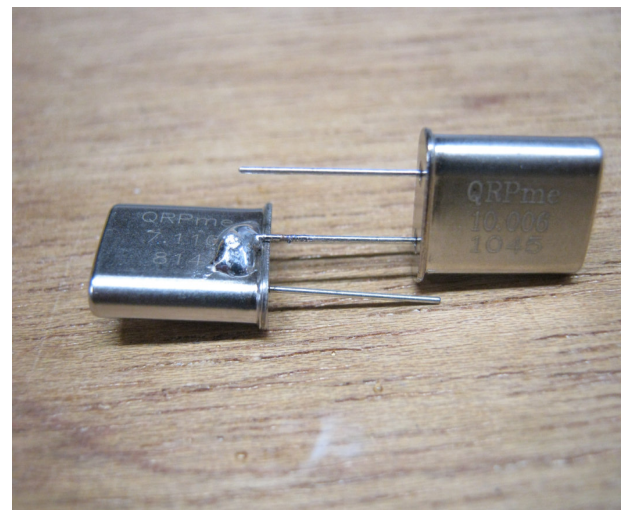
Making a Phantom Ground Lead on a Crystal

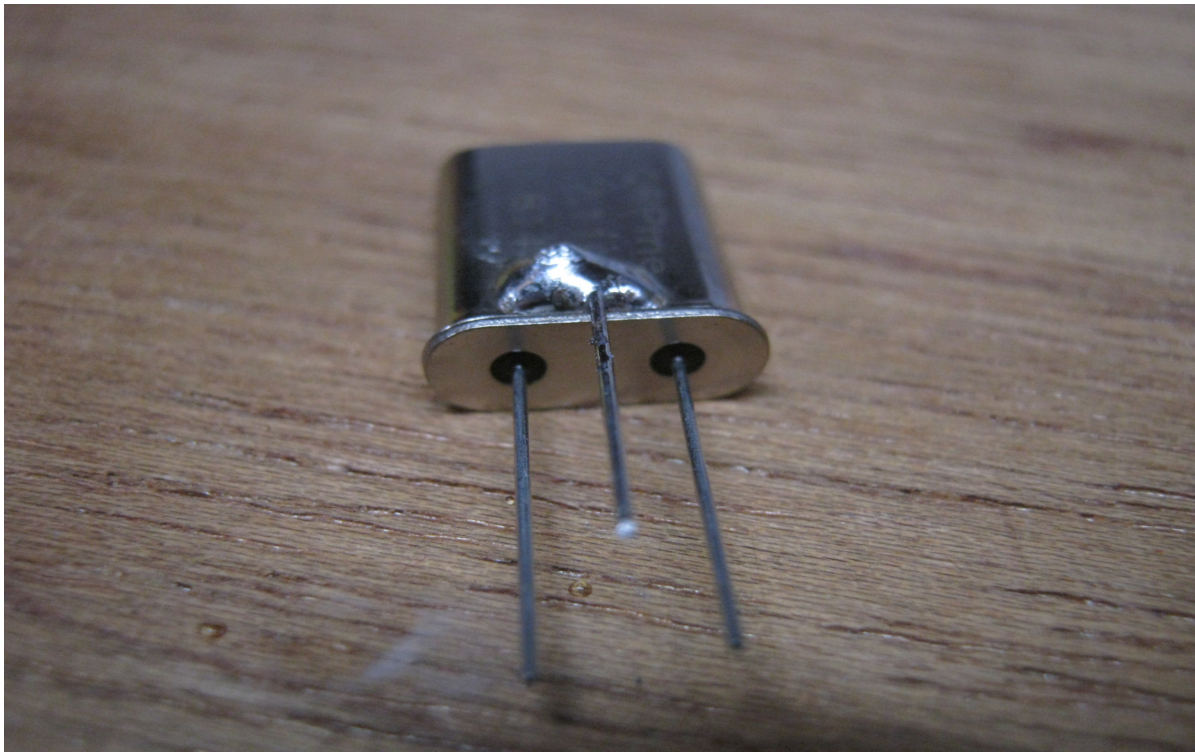
Your crystal plus a donor pin crystal. I use any junk out of band unuseable HC-49 I have laying about...



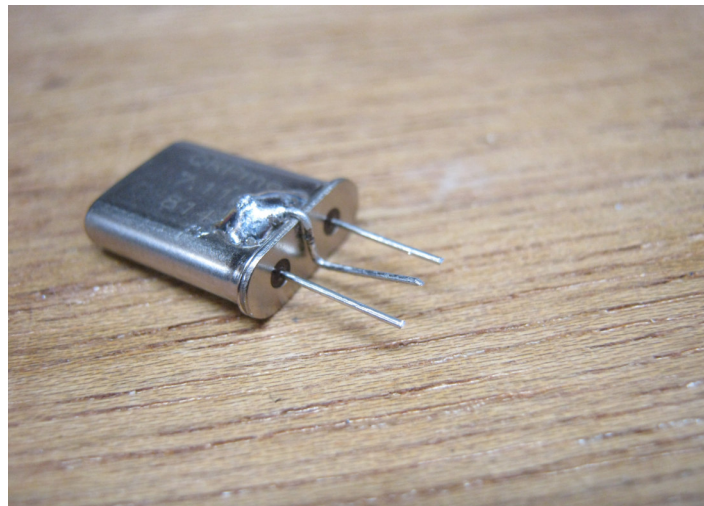
I make a small solder point on the good crystal on the pin edge and in the center and tin the lead end of the donor crystal...

Then I solder the donor lead to the GOOD crystal right in the middle between the existing 2 pins...





Then I clip the donor leg off of the donor crystal right at the base of the can...



Then fold it over and out to make a phantom center pin and cut all 3 leads even with each other.

DONE!