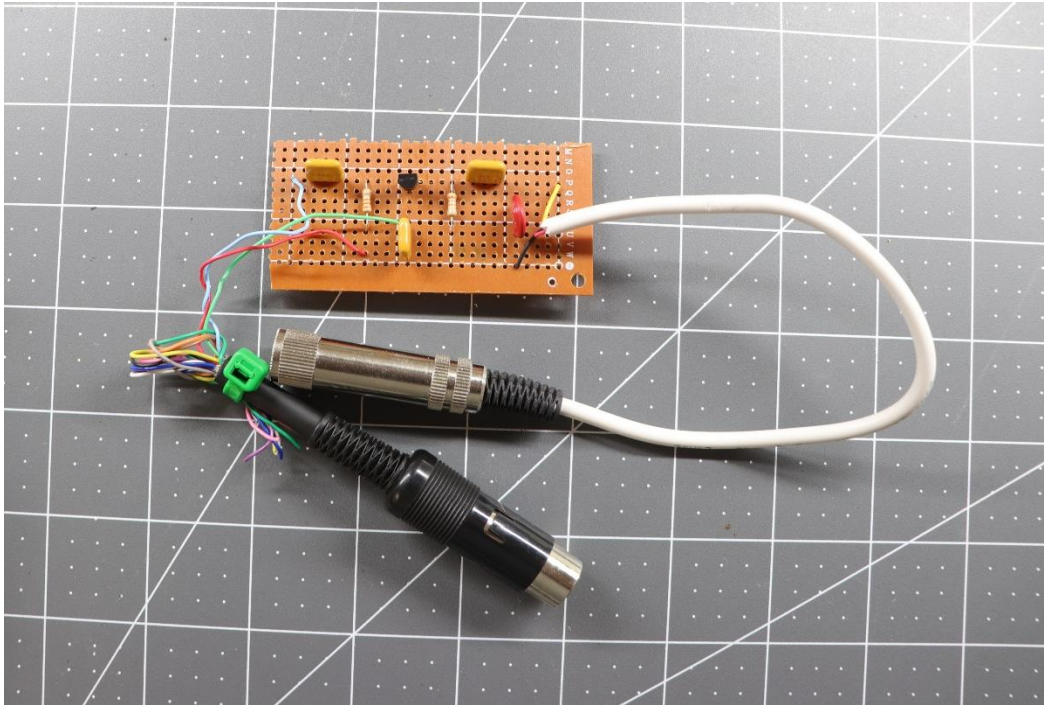


IC-7100 Accessory Connector Audio Mute Circuit



The circuit below will mute the audio output when the squelch is closed and unmute when the squelch is opened. The circuit does not require any additional power. The 6V bias signal on the squelch line is all that is needed.

None of the component values are critical. C1 through C3 are probably fine with anything from 1.0 to 4.7uF. If you go much below 1.5uF for C1 & C2 you may lose some low frequency response in the audio. Likewise, anything from 20K to 50K ohms is probably fine for R1 & R2. Any general purpose P-Channel JFET should work for the transistor.

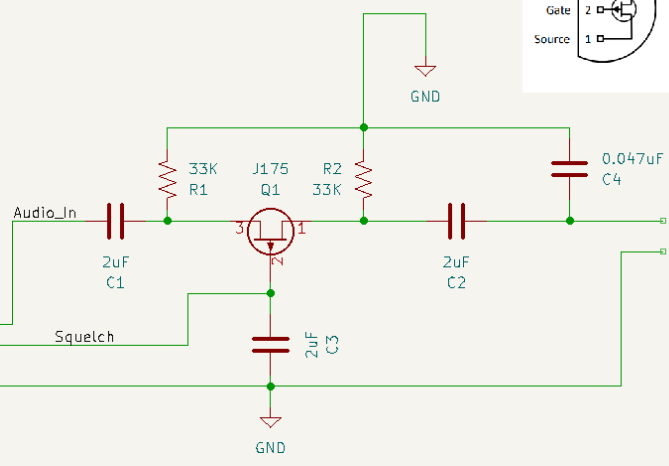
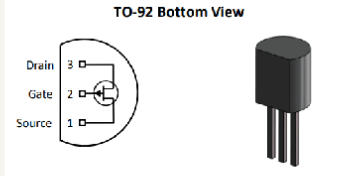
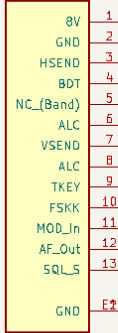
C4 was added to help filter out some high-pitched whine that I was getting from my vehicle. It can be eliminated if you don't specifically need it.

The bottom GND connection shown on the Connector P1 is the metal shield/shell on the connector. It does not need to be connected.

Any convenient wiring method can be used. Component lead and wire lengths are not critical.

Digi-key part numbers are provided for convenience only.

P1
To Acc Jack



Squelched Audio Out

REF	DESCRIPTION	DigiKey PN
Q1	= J175 P-Channel JFET	J175-D26ZCT-ND
P1	= SDF-130 13 pin DIN Plug	CP-1013-ND
J1	= (optional) 13 pin DIN Jack	CP-3313-ND
C1-3	= 2.2uF Ceramic CAP	445-173575-1-ND
C4	= 0.047uF Ceramic CAP	C321C473K3G5TA-ND
R1-2	= 33K 5% 1/4W Resistor	33KQBK-ND