



I took a Tuna Project Board and gathered up a few parts...



I decided to use the 2 generic connector locations for a 12 volt input connector and an on/off switch...



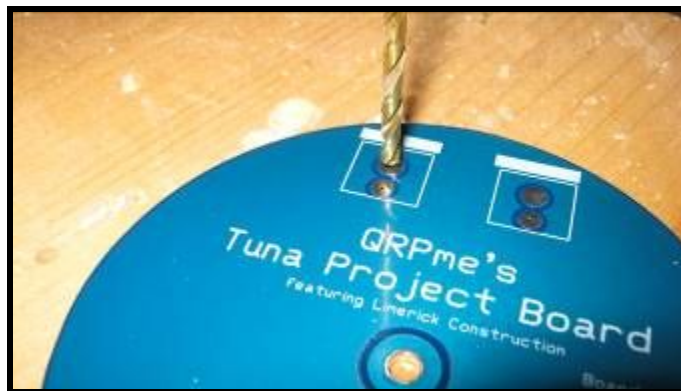
The power connector is one of my ubiquitous yellow RCA jacks...



and the ON/Off switch is a SPST miniature toggle switch...



I measured the solder lugs to determine the drill size for the holes...



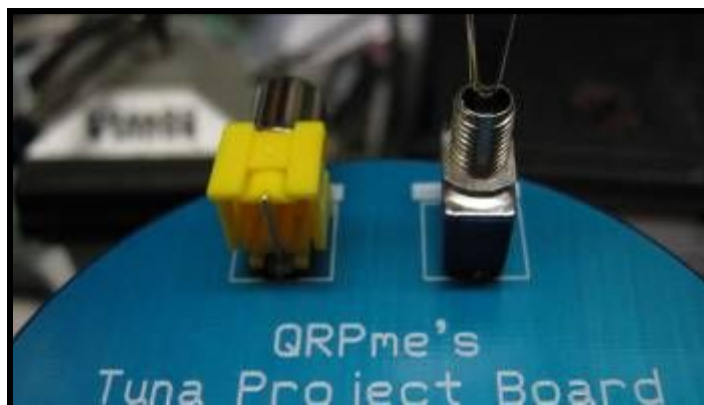
Then I drilled holes at the connector locations to mount the RCA jack and On/Off switch...



I used a heavy resistor lead to bridge solder the RCA lugs to the adjacent pads... then cut off the resistor of course.



and did the same for the switch leads...



Here is how they look mounted, I will add some glue or epoxy later to keep the jack and switch bodies from wiggling around and stressing the solder joints...



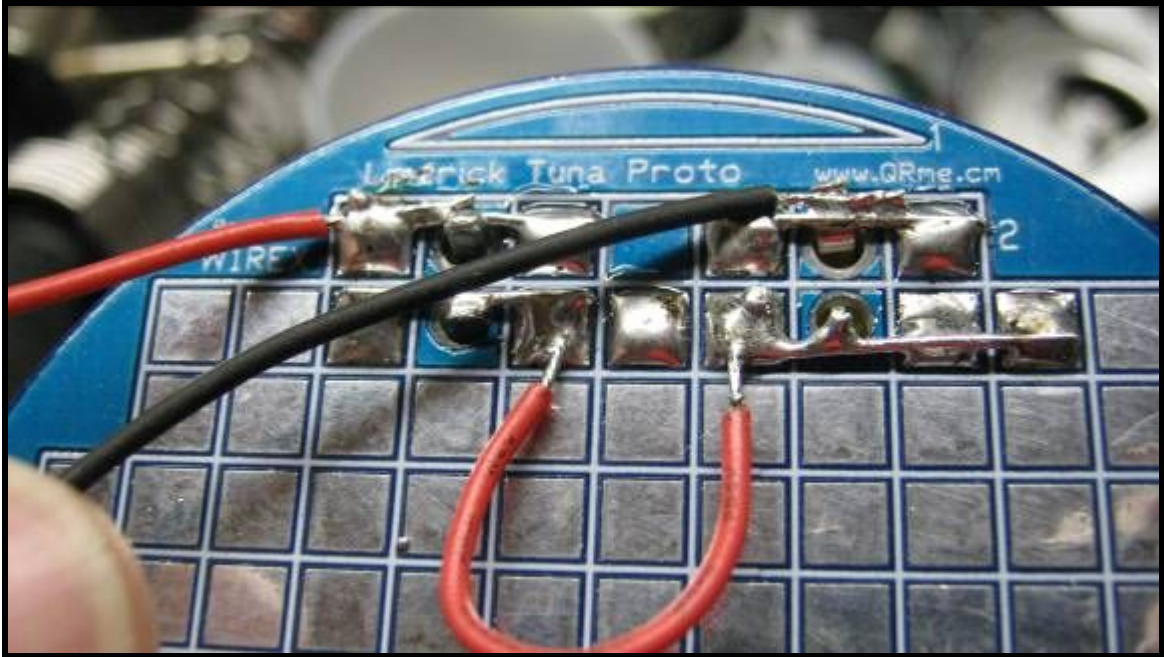
A view of the solder pads for the RCA jack & On/Off switch...



I drilled a hole and passed the fan wires through...



and then Super glued the fan to the board...



I wired the fan to the switch and 12 volt input ground and wired a jumper from the 12 volt input positive lead over to the switch...



A view of the finished solder fume extraction fan mounted on the tuna can...

I plan to add a short section of plastic vacuum cleaner hose to carry the fumes further away as soon as I stumble upon one AND find some spare time to build a little adapter to mount it to the fan.



I made a little solder caddy out of some bare printed circuit board stock...



Left, right and front images of a 5 minute roll solder caddy...



Soldering iron holder made using an old dead soldering station iron holder...



Parts holder made from an empty can and a piece of antistatic foam cut to fit the inside of the can. Cut some corrugated cardboard strips 1" wide, fold many times, and place underneath the foam to lift it up to just under the can lip.





Here is the completed Tuna Construction Zone can set with the addition of the Soldering Iron Tip Cleaner and Kit Under Construction miscellaneous parts holder.