

# ILER BOX

## for VXO

### Assembly manual

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Updates and news at: [www.qrphamradiokits.com](http://www.qrphamradiokits.com)



# PARTS LIST

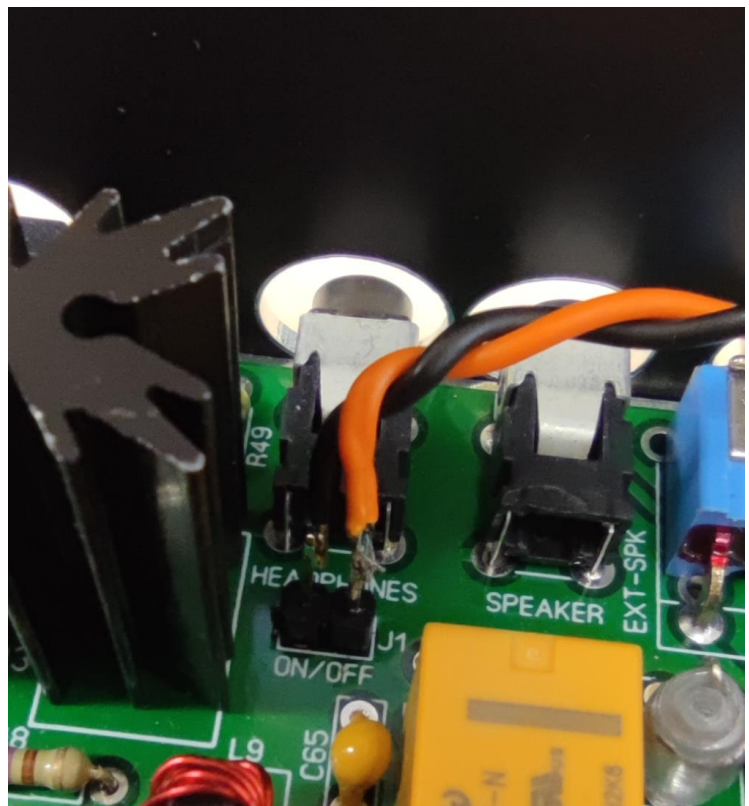
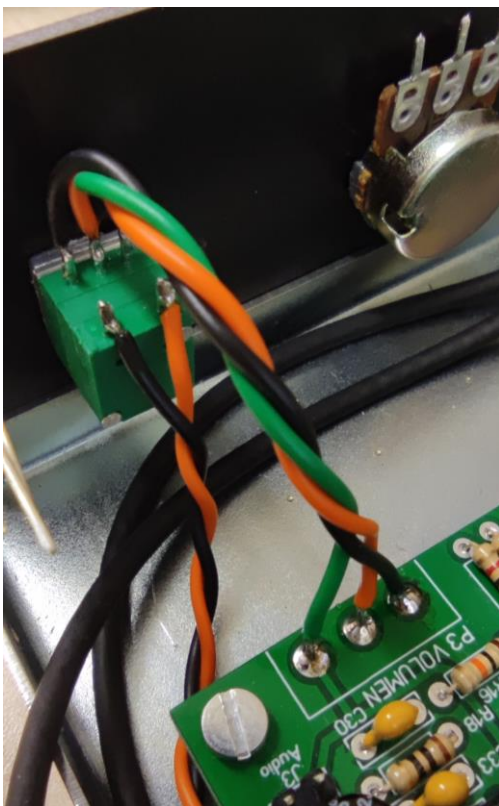
Quantity	Part
1	Galvanized iron base
1	Painted aluminum lid
1	Front panel
1	Rear panel
4	10mm.Hexagonal spacers
8	M3 x 4mm screws
8	TA29x5 self-tapping screws
1	24-26mm Knob + Dial disc
2	15-16mm Knob
1	Microphone socket
1	Microphone connector
1	10K mini potentiometer w/switch
1	1K potentiometer (RF Att)
1	20 pins strip female
1	60cms RG174 cable
1	pre-assembled cable 5 poles
3	50 cm colored cables
4	adhesive rubber feet

# ASSEMBLY

Installing the ILER in the box is pretty straightforward. However, there is some detail that needs to be paid close attention. Take your time. Please, work carefully. *Have a good time!*

## ➔ Volume potentiometer and ON / OFF switch.

**Previous note:** If you don't want to use the ON / OFF switch, then you can keep the original potentiometer included in the ILER kit installed.



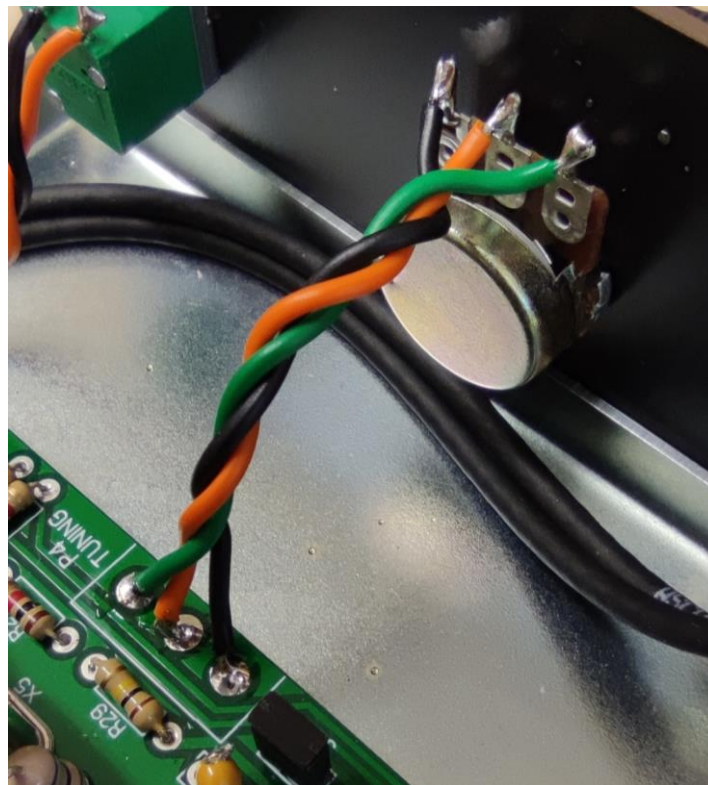
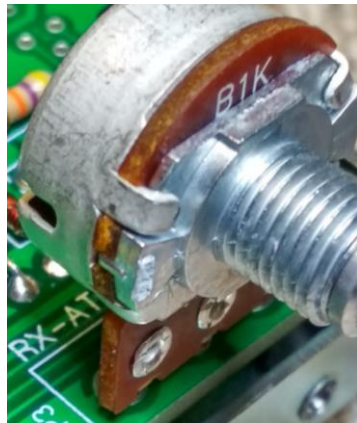
Replace the original potentiometer with the mini potentiometer with switch

Wire the volume potentiometer

Wire the ON/OFF switch to J1 jumper

## ➔ RX ATT and TUNE potentiometers

- Secure the potentiometers with their nuts (with washers). You don't need to squeeze a lot.
- Cut the bulge of the potentiometers (if they have one)



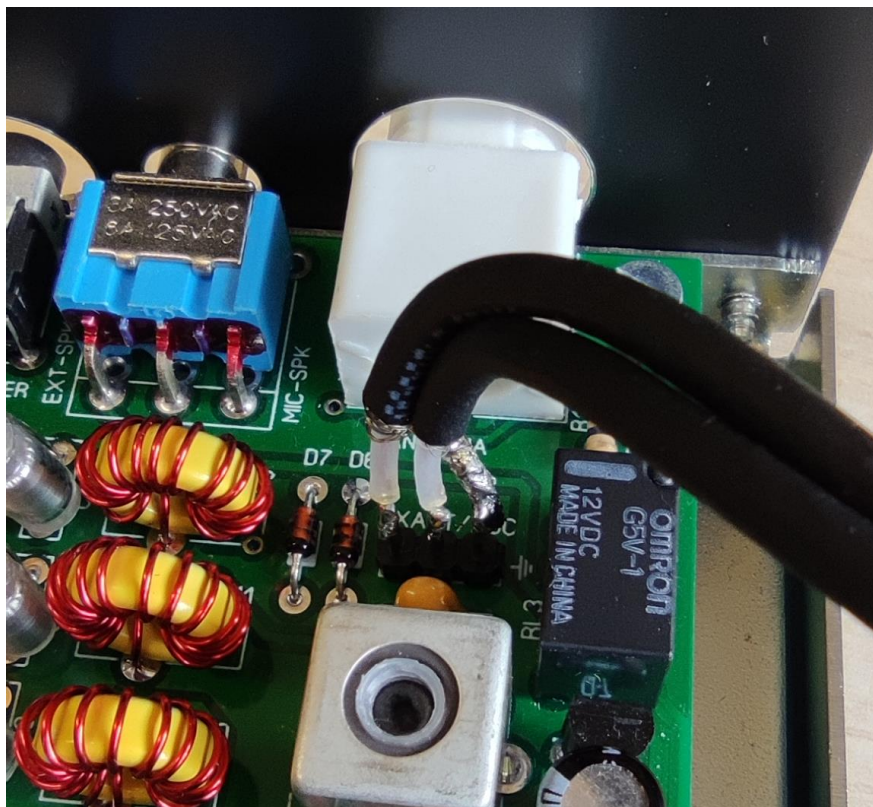
Wire the TUNE potentiometer (50K)



RG174 cable



RX ATT potentiometer (1K)



Wire to RXATT pins

## ➔ Rear panel.

Very little has to be said about the rear panel.



## MICROPHONE WIRING

### ➔ Microphone socket wiring.

You must adapt the connector for your microphone.

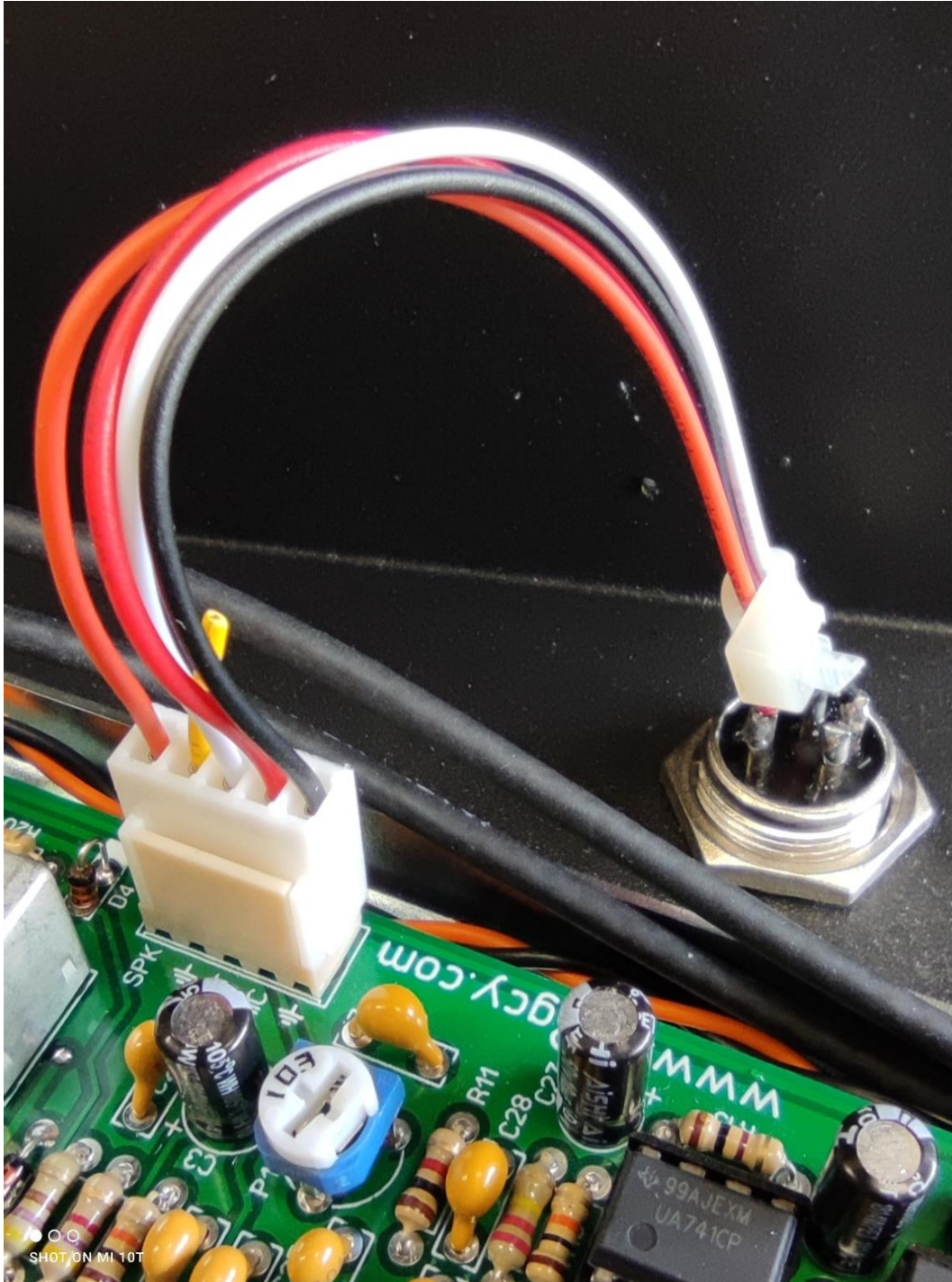
You can use any combination of cables. There is no standardized wiring planned.

The connector has 5 ways. You can use a microphone with a built-in speaker. It has a spare way for other uses.

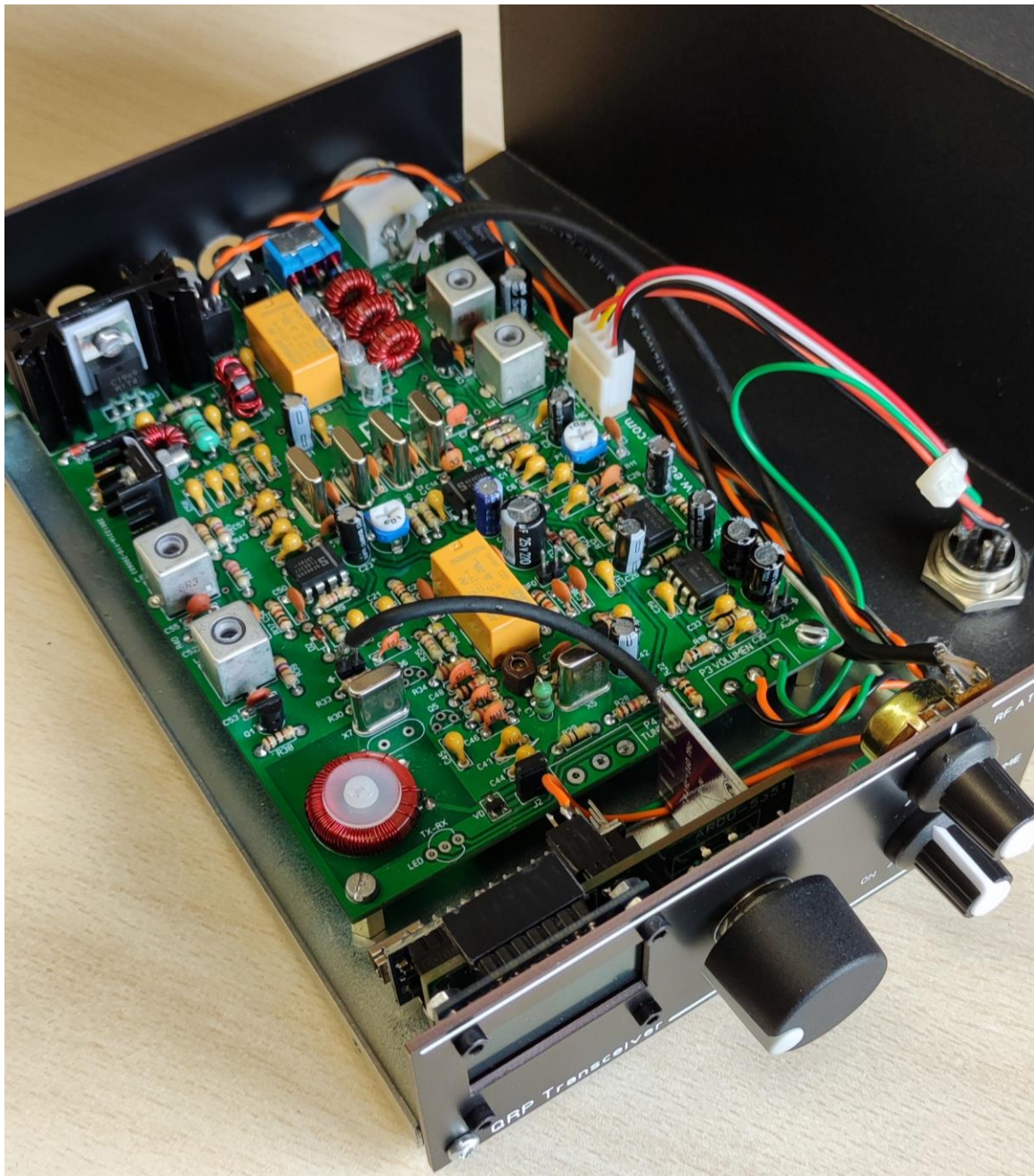
**IMPORTANT:** Always use a suitable electret micro. Everything about this is explained in the [ILER assembly manual](#).



Microphone plug



Microphone socket wiring (include speaker connection)

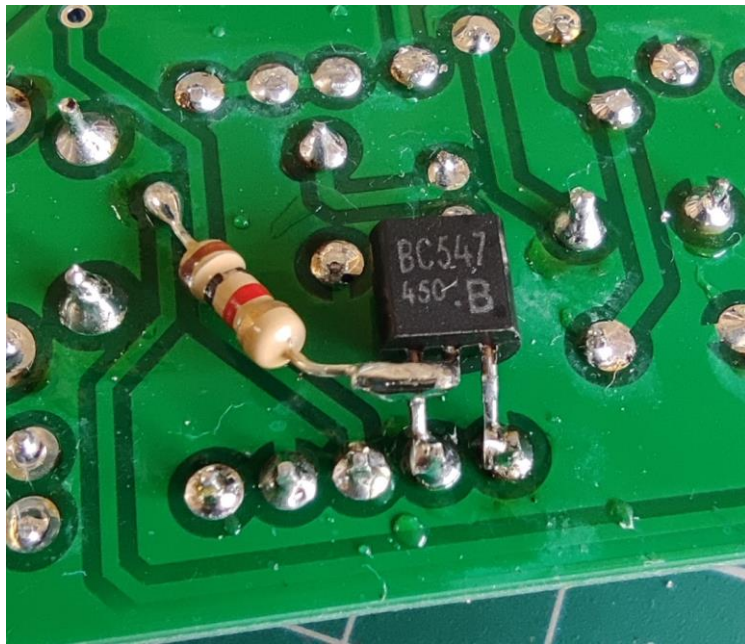


## ➔ Modification to use microphone/speaker.

If you want to use the internal speaker that some microphones have. Then, you have to make a small modification in the ILER. You will need to mute the microphone connection while receiving. See the pictures.

Note: If you use the microphone speaker and do not make this modification, then you will hear a loud beep (feedback) upon reception.





Use a 10K resistor and a BC547 transistor or equivalent.

