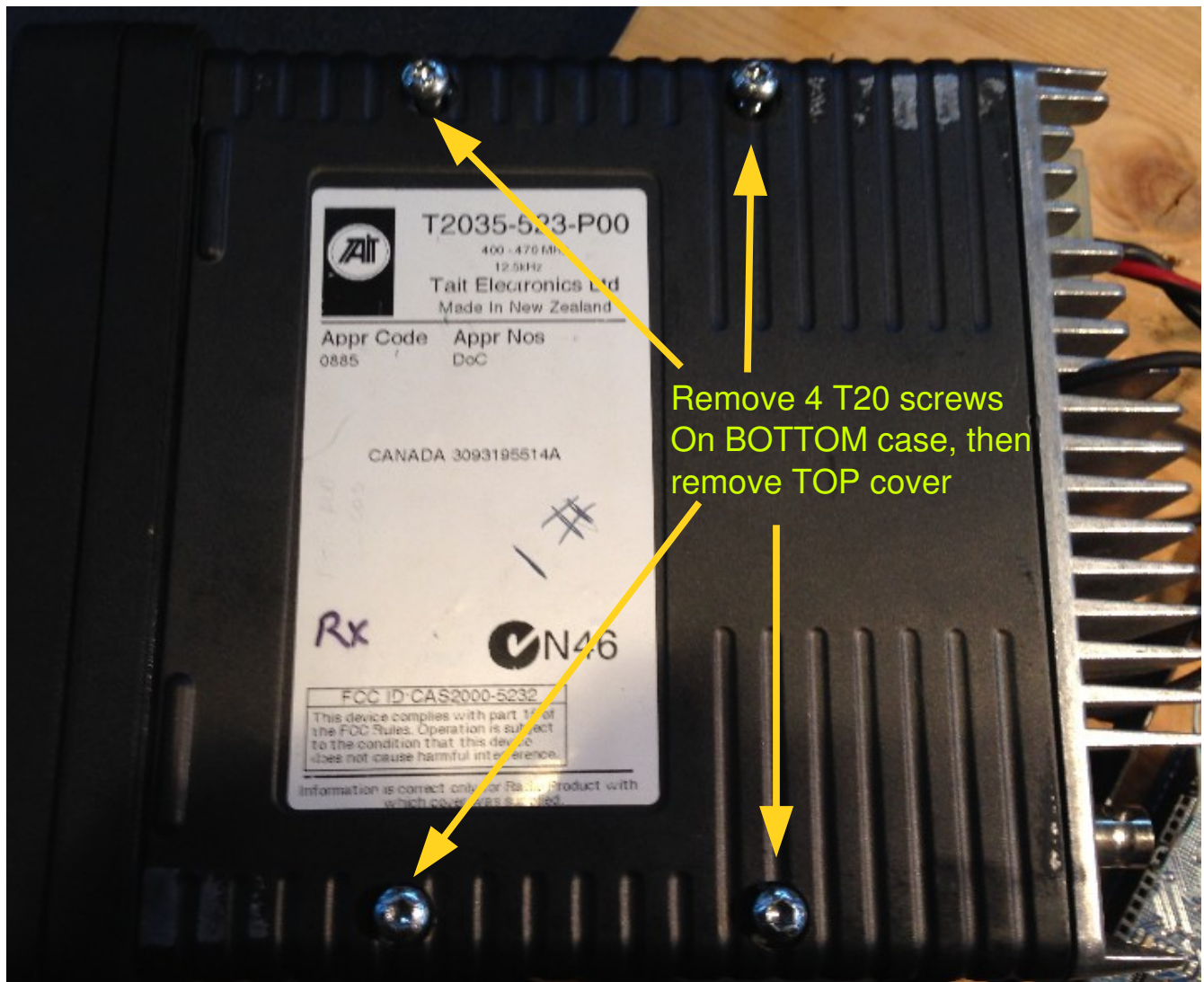


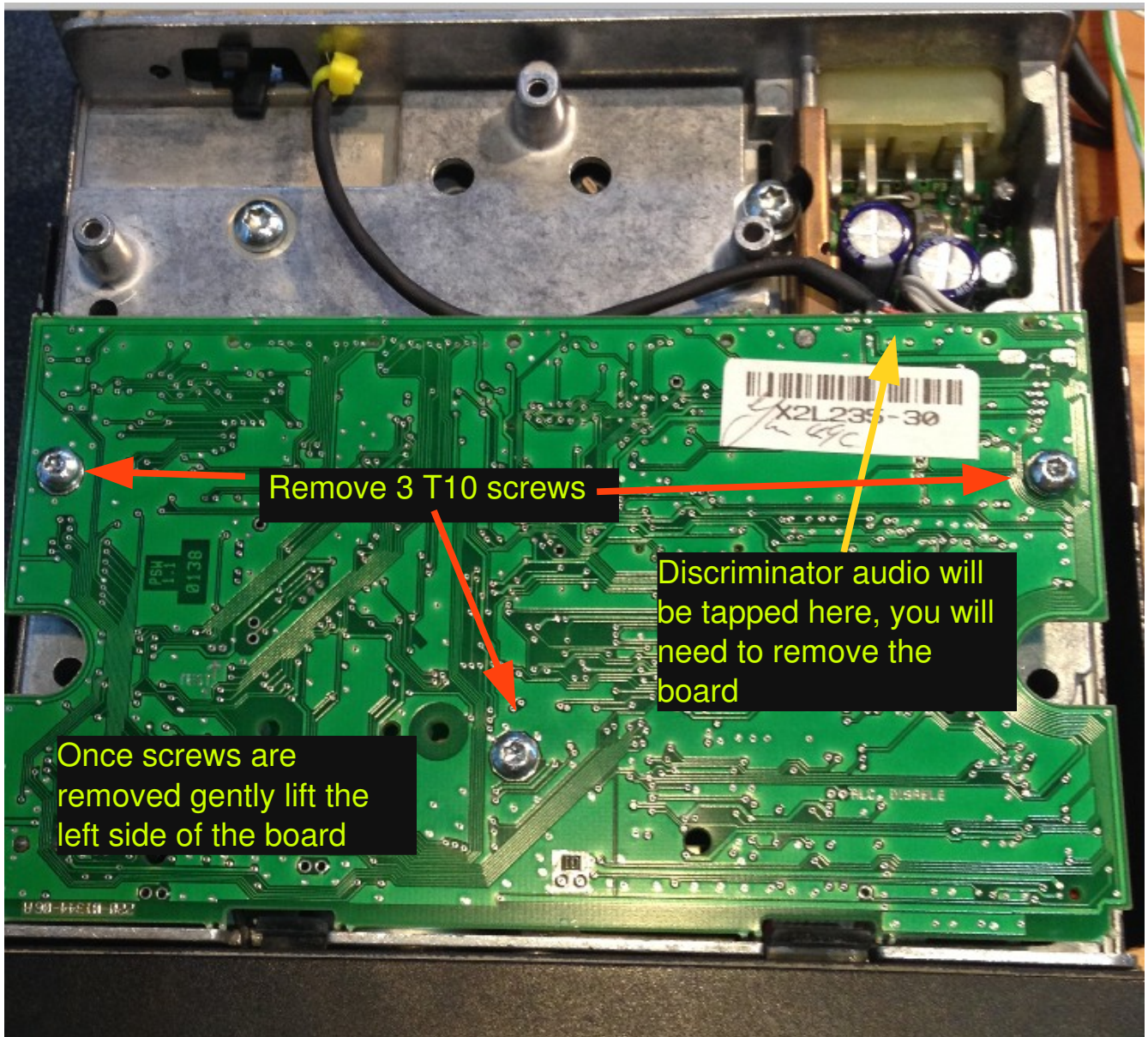
This document will show you how to use two Tait 2035 mobile radios as the receiver and transmitter in a home brew Dstar repeater.

These instructions use separate transmit and receive radios, but you should be able to combine these on one radio for use as a DStar hotspot with a single radio.

By John, N8CD, john@n8cd.com

On the receive radio:





Remove 3 T10 screws

Discriminator audio will be tapped here, you will need to remove the board

Once screws are removed gently lift the left side of the board

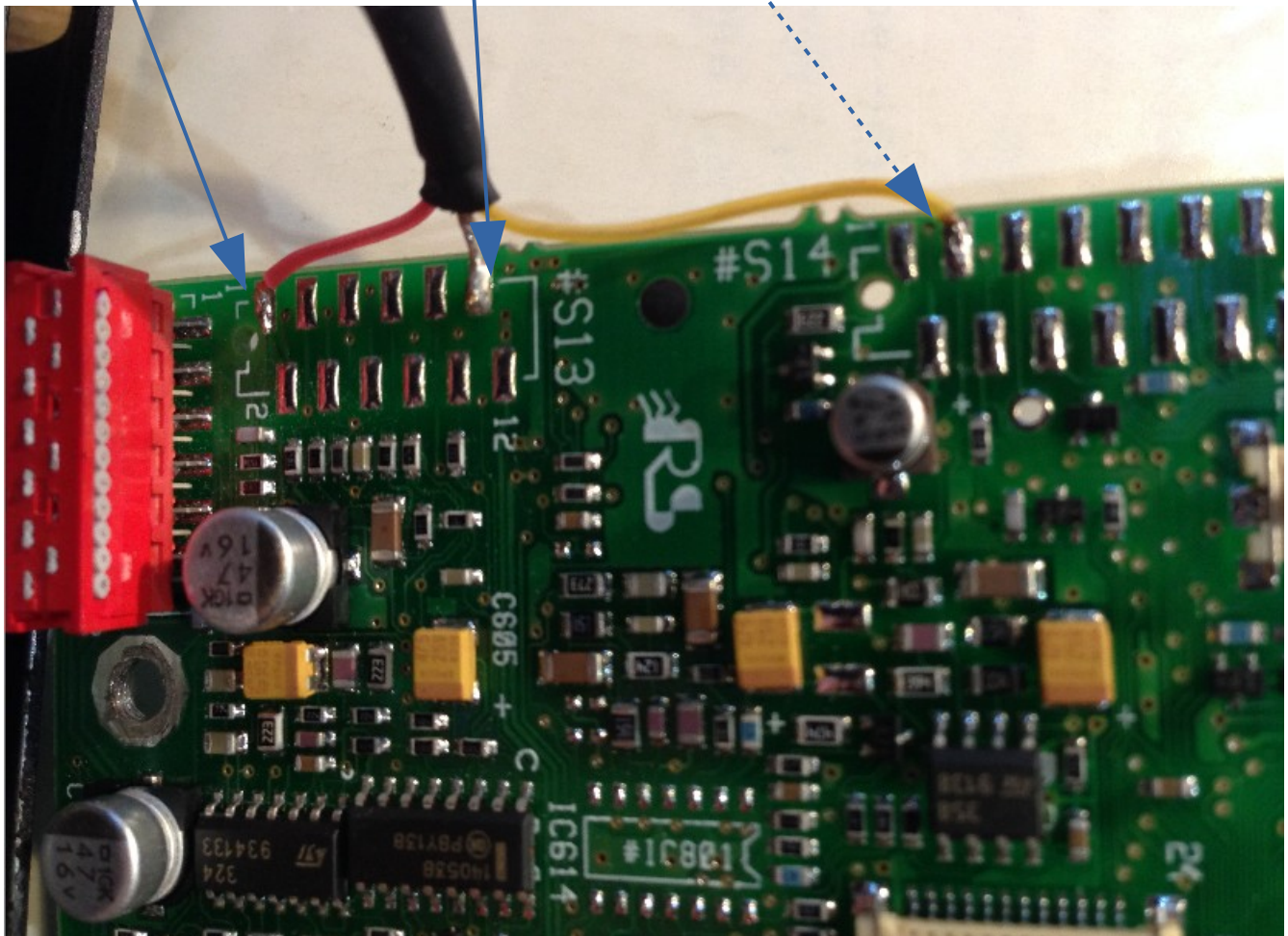
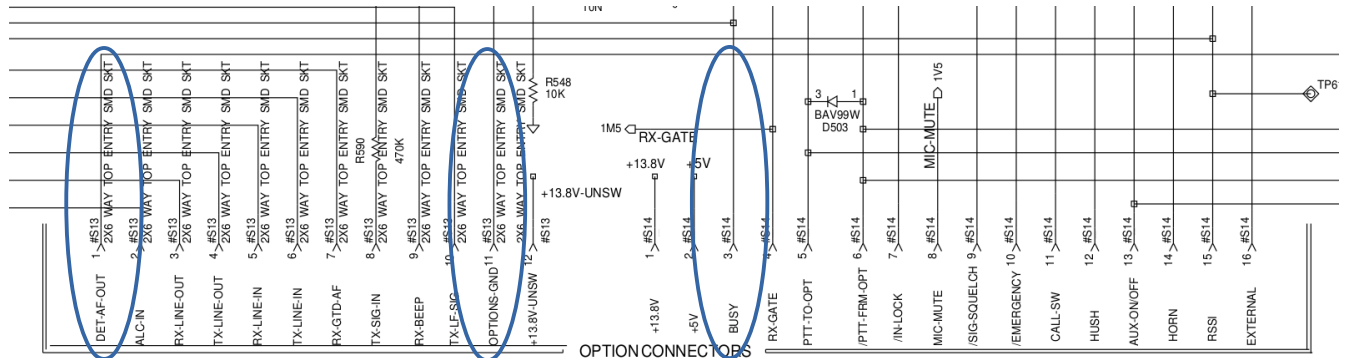
Below are the connections you'll be tapping on the Logic Board.

S13 Pin 1 = Discriminator Audio

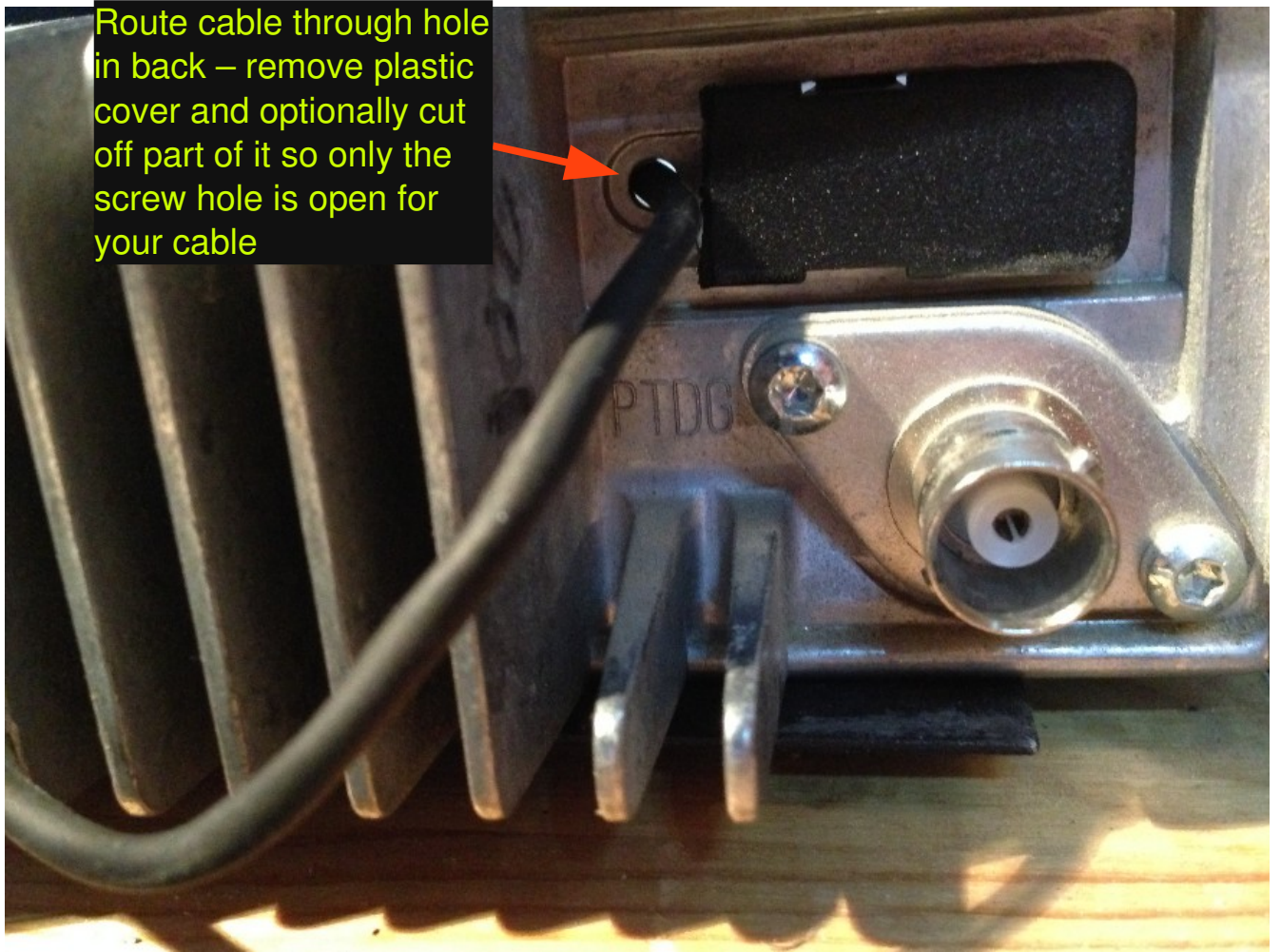
S13 Pin 11 = Ground

S14 Pin 3 (OPTIONAL) = COS (Carrier Operated Switch). This is NOT needed for DStar – but might be needed for other uses like analog linking.

Use a shielded cable at least for the discriminator audio. RG-174 coax will do if you don't have multi-conductor cable available.

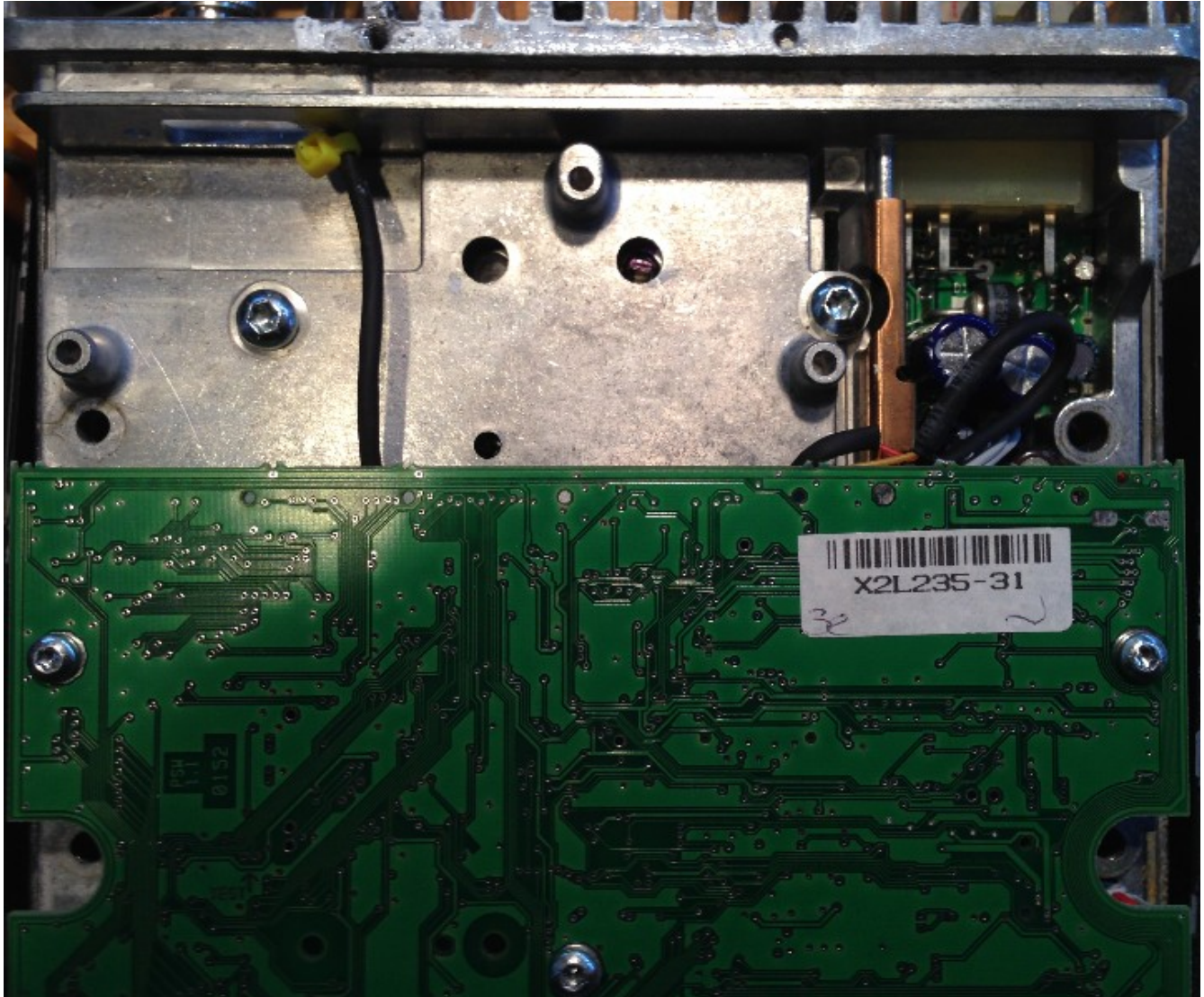


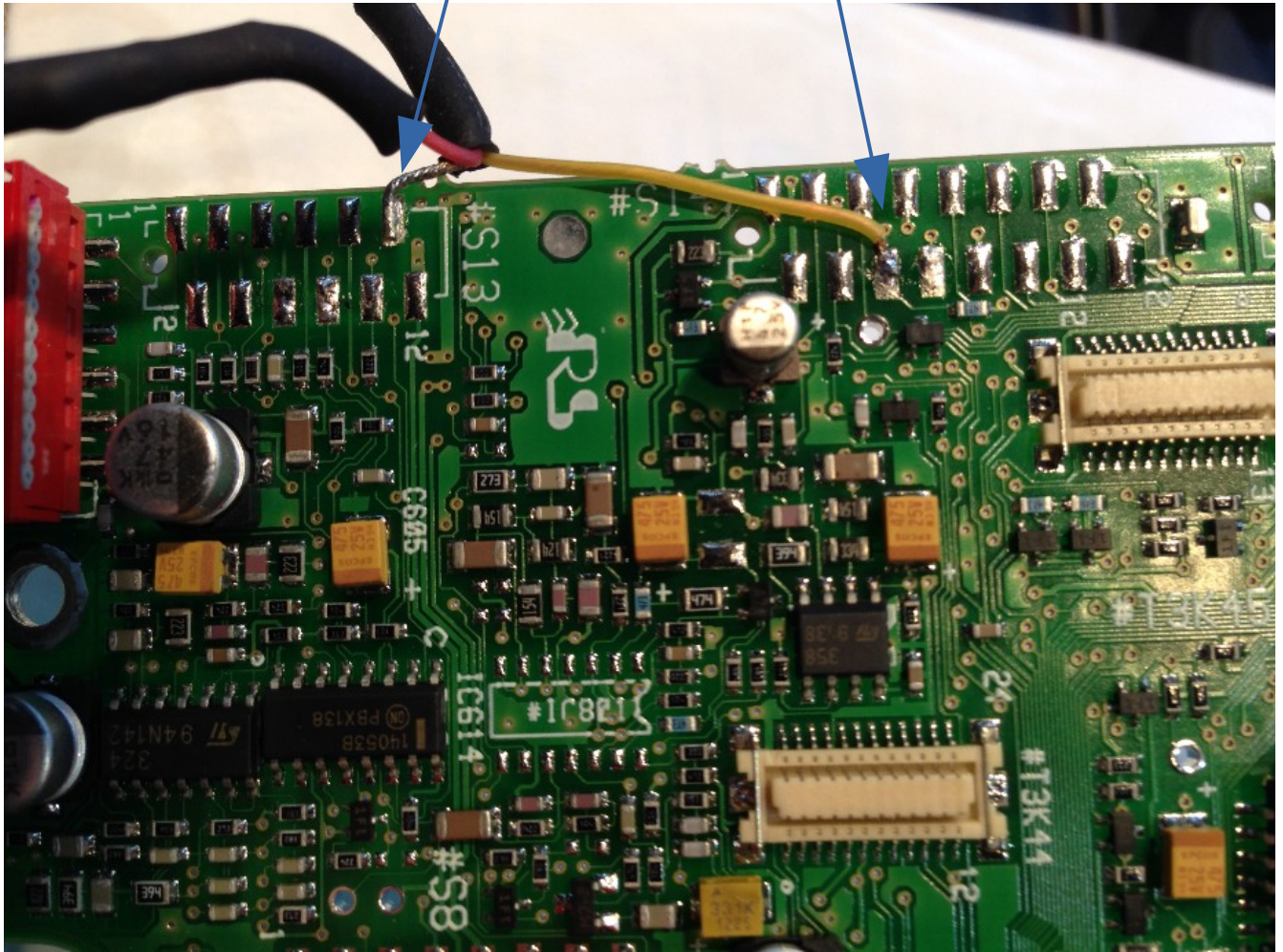
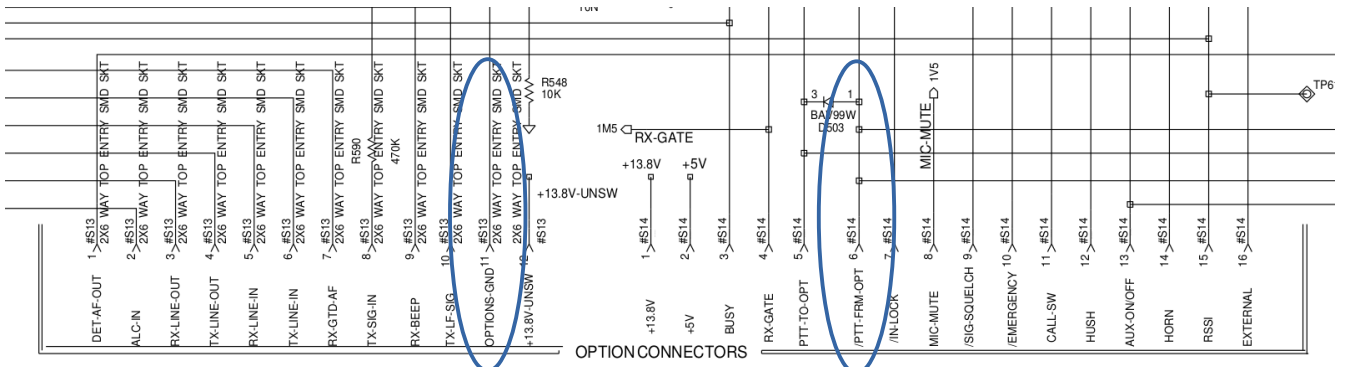
Route cable through hole
in back – remove plastic
cover and optionally cut
off part of it so only the
screw hole is open for
your cable

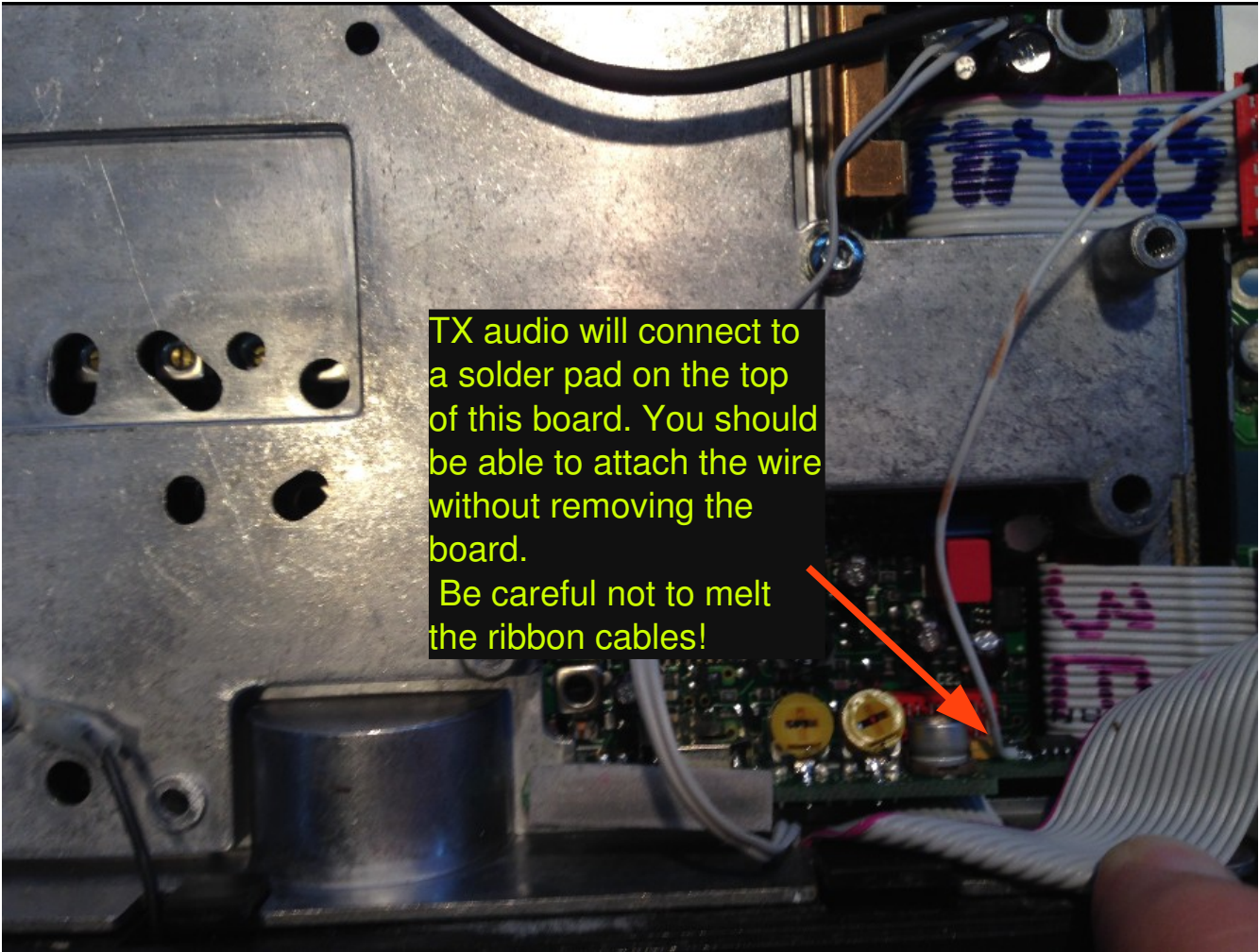


On the transmit radio – remove the screws from the bottom of the radio as shown above, then remove the top cover.

You will be tapping the logic board for PTT and another board for flat TX audio





A close-up photograph of an electronic assembly. On the left is a metal plate with several circular holes. To the right is a green printed circuit board (PCB) populated with various components, including two yellow electrolytic capacitors and several integrated circuits. A white ribbon cable with blue markings is connected to the top of the PCB. Another white ribbon cable with pink markings is visible on the right side. A thin wire is being positioned near a solder pad on the top of the PCB. A red arrow points from a text box to this solder pad. The text box contains two lines of yellow text on a black background.

TX audio will connect to a solder pad on the top of this board. You should be able to attach the wire without removing the board.

Be careful not to melt the ribbon cables!

