Application Note:

Installing AccessPack on a HBC Micron 512

Version 1.0, 3/12 2013

Overview

HBC's Micron radios are very popular the world over. They've been around for a long time and many different models exist. This appnote describes the installation of AccessPack on the HBC Micron 512 model. From the perspective of the AccessPack install, the key feature of the 512 is that the E-Stop switches power to the radio. As such the AccessPack is wired to power off with the radio and the E-Stop input (yellow wire) is not used.

Prepare the AccessPack

Attach the orange base to the AccessPack if it wasn't shipped preinstalled:

Dismantle the radio

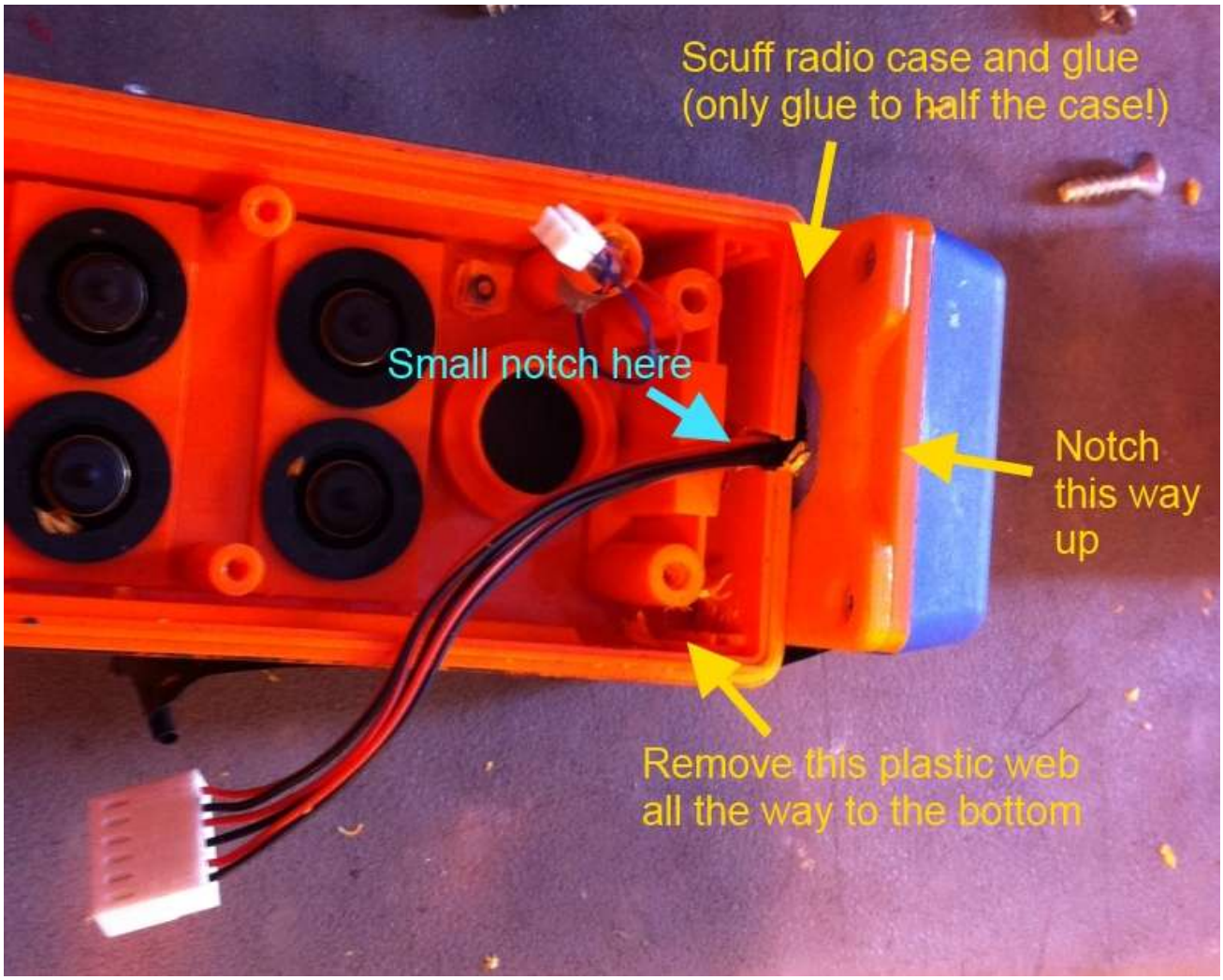
If the micron is fitted with a rotary switch, then remove it using a 1mm hex wrench (there's a tiny screw in the side!)

Remove the six screws, separate the case and remove the PCB assembly.

Notch the case and glue the AccessPack on

We like to use a Dremel rotary tool with a 3mm milling cutter to notch the case as shown on the picture below.

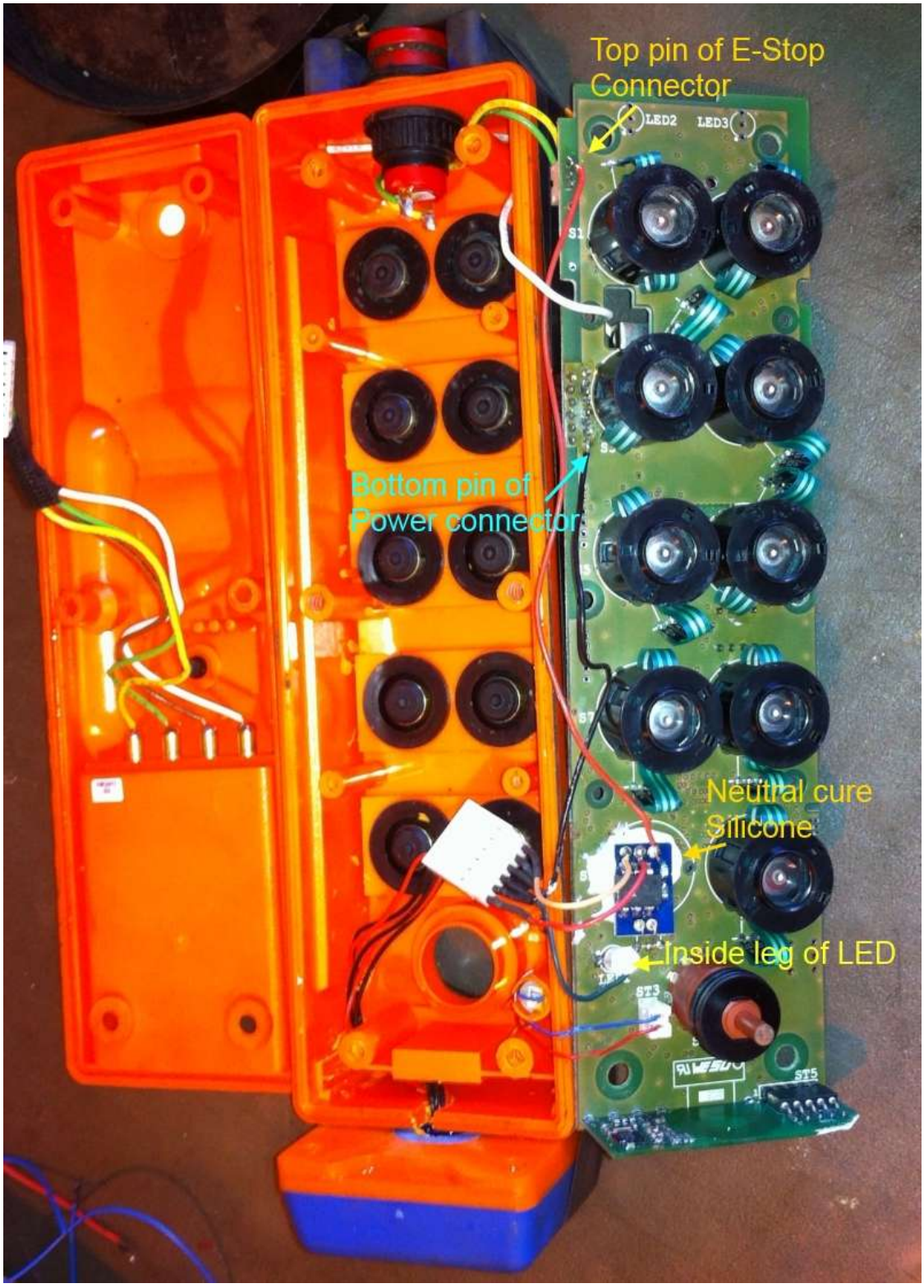
Scuff the radio case and apply glue the half the case. Only use the supplied glue or other special purpose Acrylic cement (you can get it from sign makers). Tape the AccessPack in place and set the lid aside.

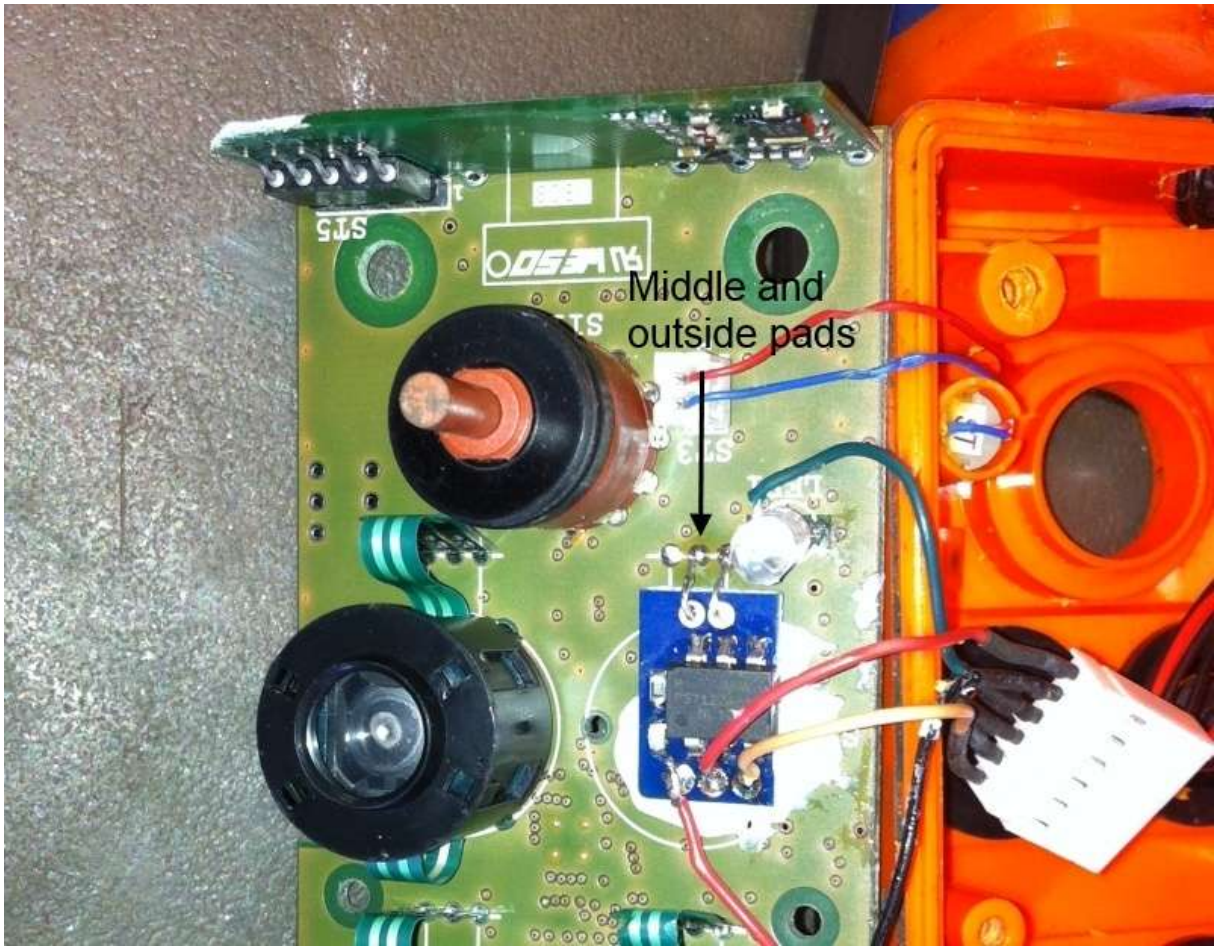


Install wiring harness

Scrape away the conformal coating and remove the start button.

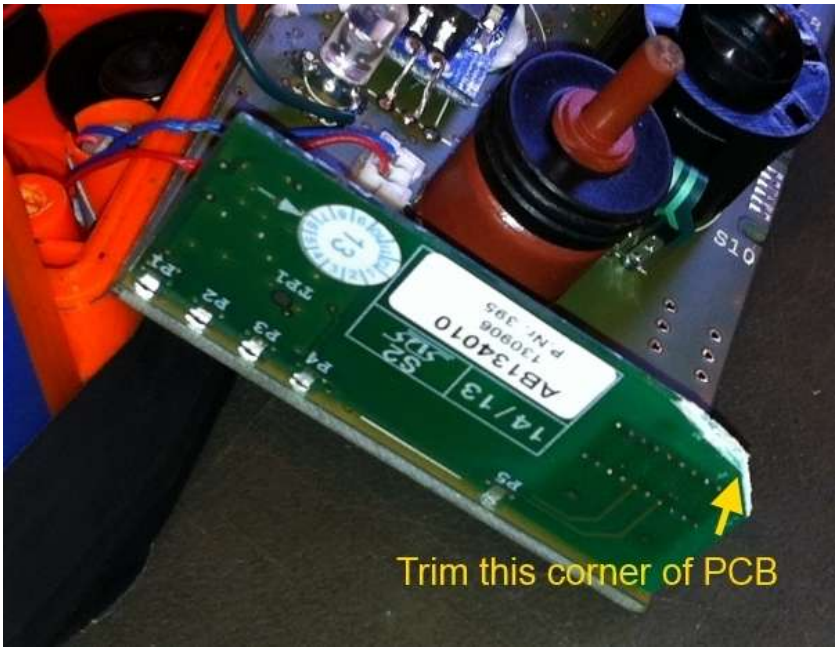
Cut the wiring harness to length as shown (don't make the wires any longer than they need to be, it only makes things harder later).





Notch PCB

Notch the corner of the PCB as shown. There's plenty of bare PCB in this corner, you just need to make enough space for the cables to fit underneath.



Reassemble

Reassembling the radio is by far the hardest part! So take your time.

Firstly, make sure the white AccessPack connector is sitting on top of the little blue board.

Then, most importantly, be very careful not to trap wires between the PCB and the case or standoffs. When assembled, the PCB should sit down flush with the top of the case and lie flat. If it doesn't then go looking for the trapped wire.

You can now replace the case and if fitted, the rotary switch.