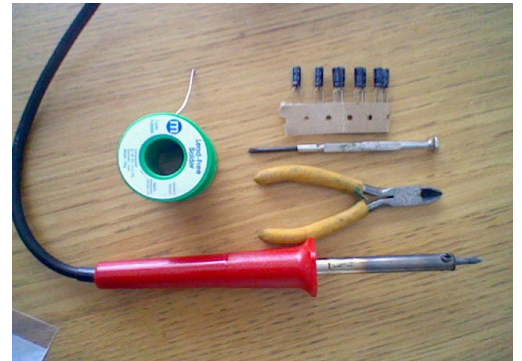


Fixing the squeak on a Casio DH 800 horn.

Tools required: Soldering iron, solder, small Phillips screwdriver and small pliers.

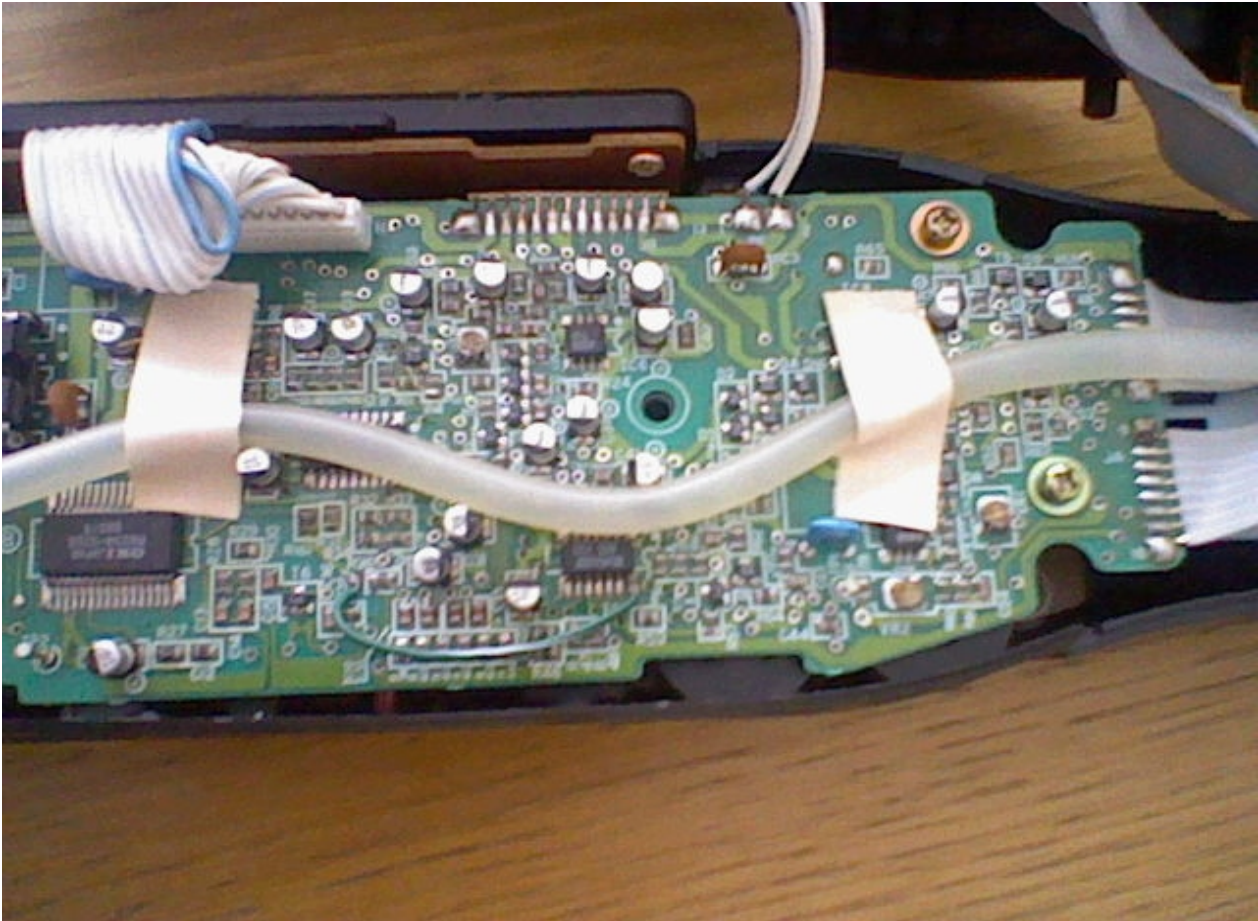
Capacitor used: Electrolytic 33uf 16v 5mm PCM.
Bought from ebay a 10 pack for £2.85 including postage.



- 1) Turn off the horn!
- 2) Remove the mouthpiece, battery door and batteries.
- 3) Remove the six screws holding the two parts of the horn together. One of the screws is in the battery compartment.
Note: the screw in the bell part of the horn is awkward. Be careful not to mash up the screw-head.
- 4) Put the batteries back in as this will make the testing part less of a tricky process.
- 5) Separate the two parts of the horn carefully, as ribbon cables join the two parts together.



The area we are interest in as follows;



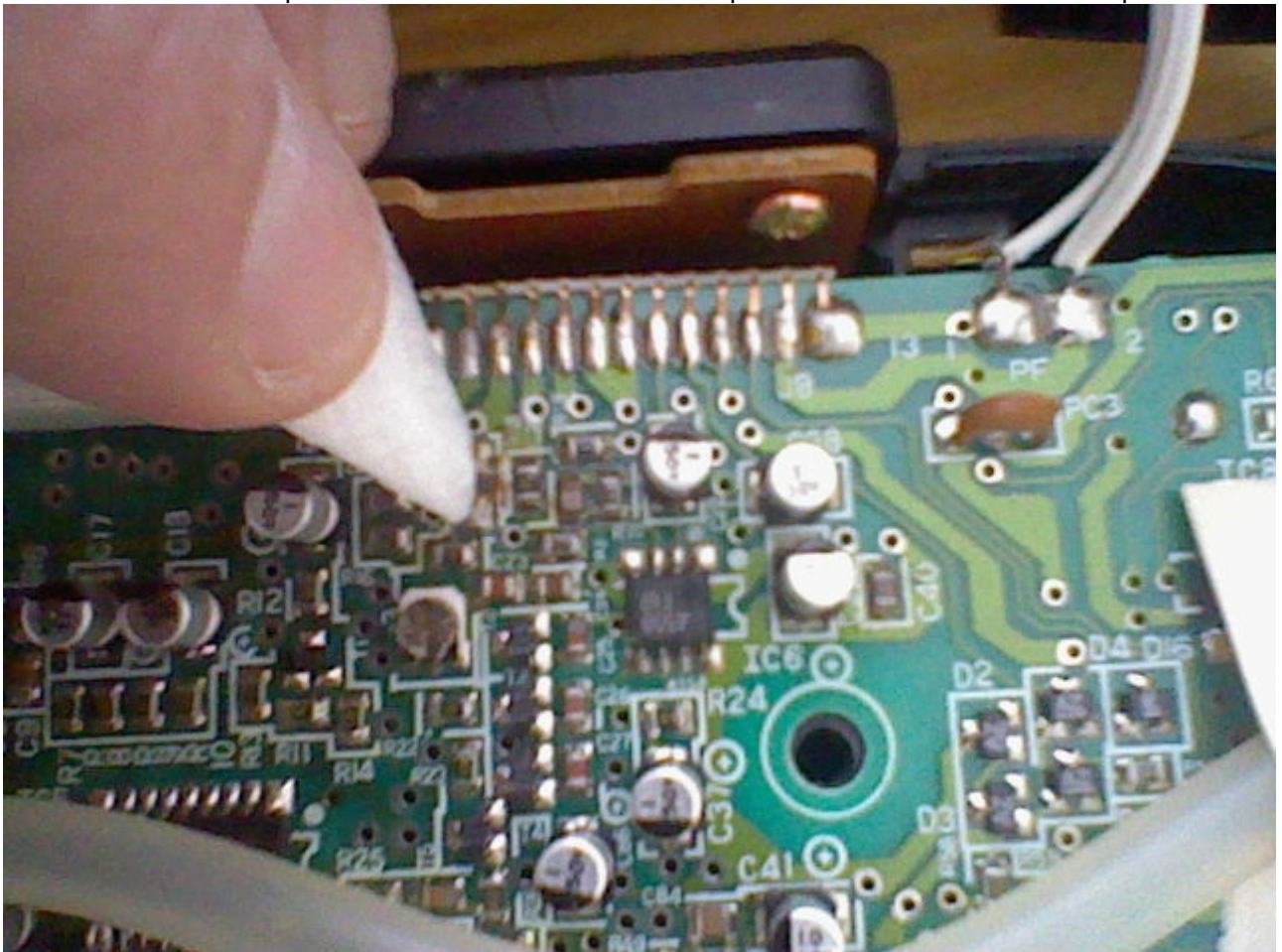
- 6) Using small pliers, hook them around the base of the capacitor and gently wiggle side to side until the capacitor is removed.



Lift off the plastic seat and discard.



7) Clean the solder pads with a cleaner like component cleaner or white spirit.



- 8) Bend the legs of the replacement capacitor to dry fit the positive leg (needs cutting and a small foot created) onto the positive pad and the negative leg into C20 nearest the ribbon points.

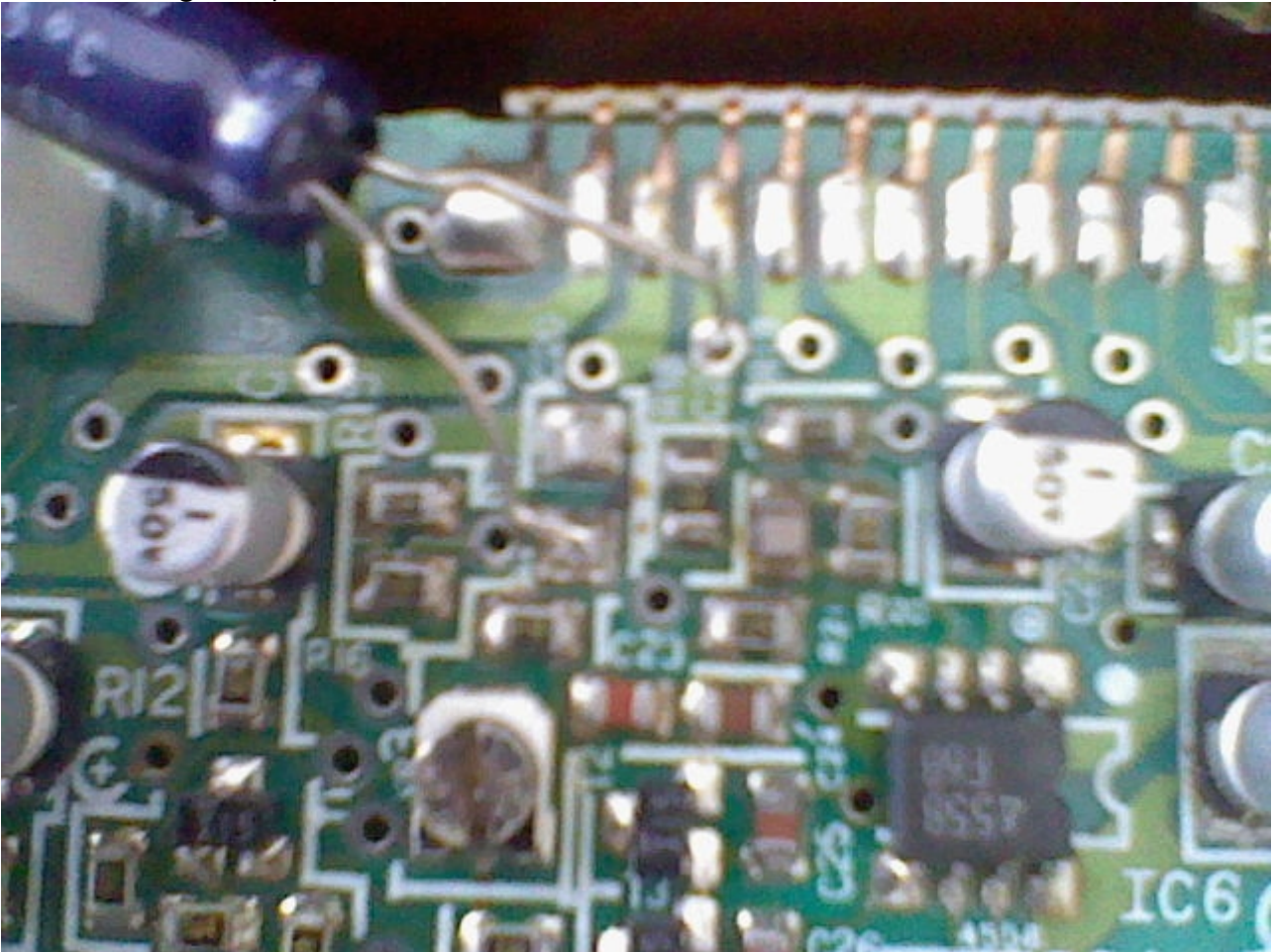
Note: Try our on as many capacitors as is necessary, until you get the desired effect. Capacitors are cheap, your horn is not.



- 9) Lightly pre-solder the legs of the capacitor. This will make it easier when soldering them onto the board.



10) Position the capacitor onto the board and use the soldering iron dry to just heat the positive leg, which will in effect solder it to the positive pad and avoid solder spillage and the risk of short circuitry. The negative leg will require only a small part of solder to seal the leg into position.



11) Turn on the horn and blow into the rubber mouth tube. Expect to hear the sound of a saxophone in C#. **Note:** If you still hear a squeak, turn the horn off and check your soldering and repeat the test process.

12) Turn the horn off and whilst joining the horn back together, perform a visual check of the ribbon cables to avoid any being trapped, as my one had wear.



13) Secure the horn by screwing in the two middle screws. Then you can remove the batteries (used during the testing) and replace all of the remaining screws.

14) Refit the batteries, battery door and mouthpiece and enjoy!