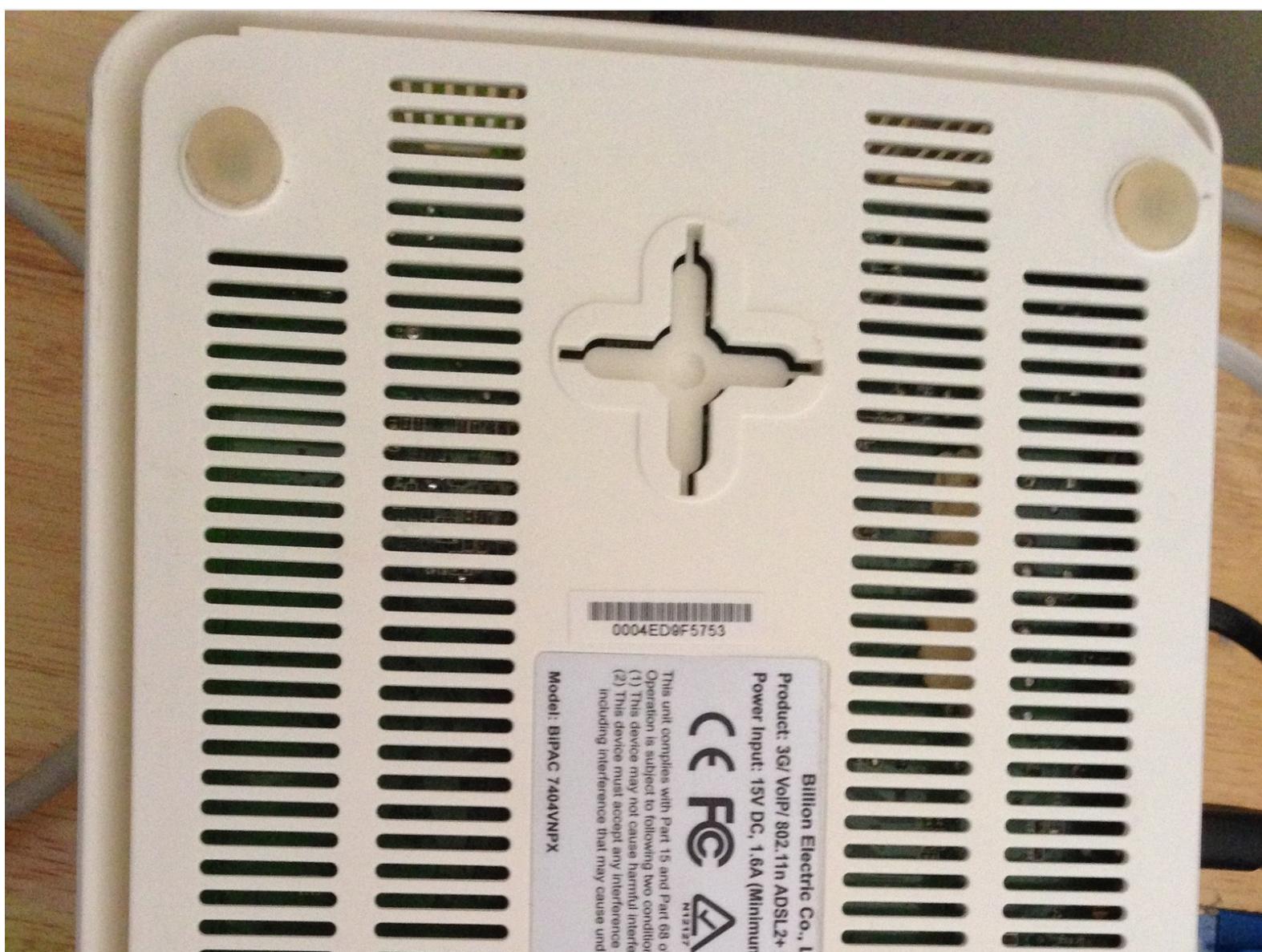




Repairing Billion Router BiPAC 7404VNPX VOIP

VOIP had Failed, after researching on the internet I found a forum page which gave a fix for a similar model. <http://forums.whirlpool.net.au/archive/1994685> Replacing 2 capacitors fixed the VOIP

Written By: mikejgrantham



INTRODUCTION

VOIP had Failed, after researching on the internet I found a [forum page](#) which gave a fix for a similar model. Replacing 2 capacitors fixed the VOIP

TOOLS:

- Phillips #00 Screwdriver (1)
- Soldering Iron (1)
- Solder (1)
- Desoldering Pump (1)

PARTS:

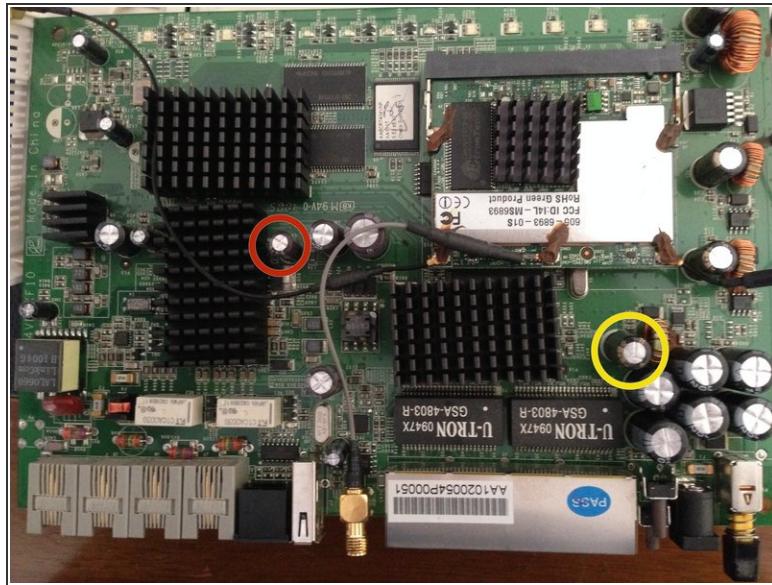
- 100 uF 25v low ESR Capacitor (1)
- 1000 uF 10v low SER Capacitor (1)

Step 1 — Repairing Billion Router BiPAC 7404VNPX VOIP



- Turning the Router over you find 4 rubber feet hiding 4 Philips head screws.
- Remove the screws and turn the router back upright.
- The top of the case should now lift off.

Step 2



- The C928 Capacitor 100uF 25v is the one talked about in the forum mentioned in the intro.
- While I was checking the solder side of the board I noticed there was a bad solder joint on this cap. You cant see it at this resolution though.
- While checking the state of the other caps on the board I noticed that this one 1000uF 10v was also showing signs of heat stress.
- Both capacitors were replaced.
- You can see the new caps in position on the right.
- For the princely sum AU \$1.20 in parts, 20 mins setting up, 5 mins to fix, 5 mins to put it all away I have saved myself aprox \$200 for a new VOIP router :)

To reassemble your device, follow these instructions in reverse order.