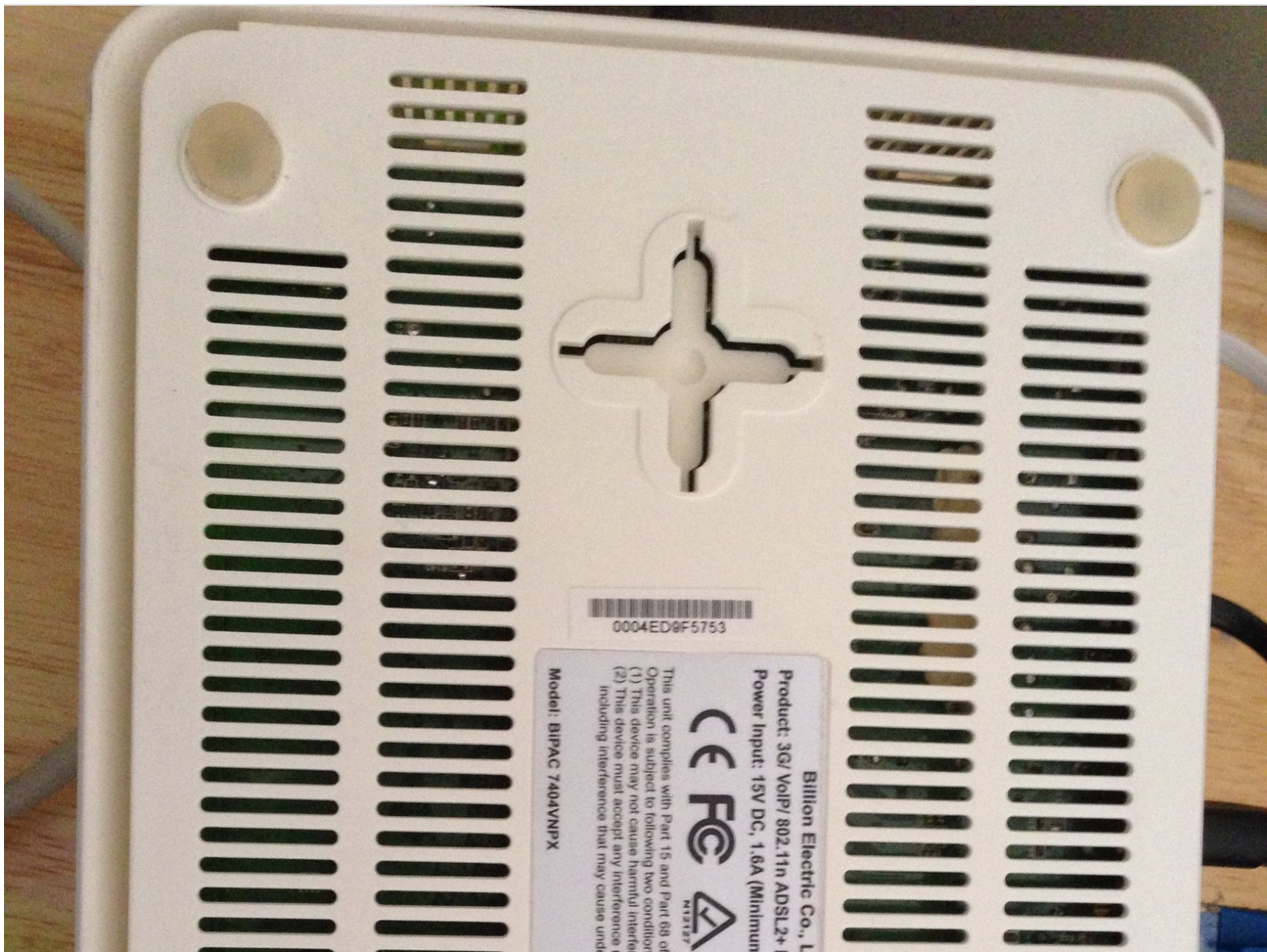




# Repairing Billion Router BiPAC 7404VNPX VOIP

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

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## 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)

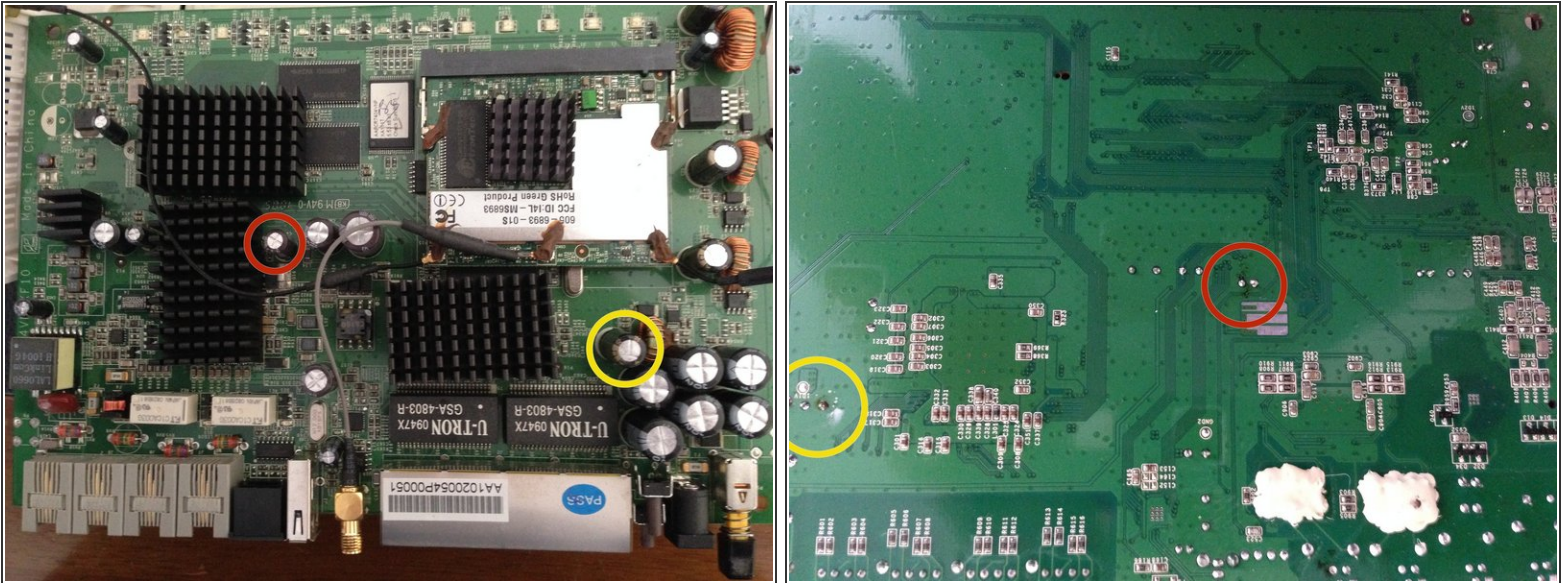
## Step 1 — Repairing Billion Router BiPAC 7404VNPX VOIP



- 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.