Thank you for purchasing Antenna Mod Kit for your TP 703N router. You will see a tremendous improvement in both the signal strength and performance of your wireless network after you complete the steps described in this tutorial. First we will show you how to install the antenna for your router. Next we will teach you how to setup the DD-WRT firmware which will turn your \$60 router into a powerful, highly configurable \$600 router. Finally we will provide you with a tool that will help test the performance of your newly modified Router.



## **TP LINK 703N Antenna Installation Instructions:**

- 1. Soldering required
- 2. Open the unit. Pry it open with a sharp object from the top.
- 3. Remove the PCB from the case.



Inside of the TP LINK 703N

You will be provided IPX Base for PCB mount but if you don't have the skills use the above image. Please note J1 jumper needs to be removed. This mod will not hold too long as the wire will put too much pressure on the soldering point, that is why we recommend doing the WiFi\_Expert Mod.

4. Option A: Remove J1 resistor and solder the u.fl cable (as shown on the above picture)

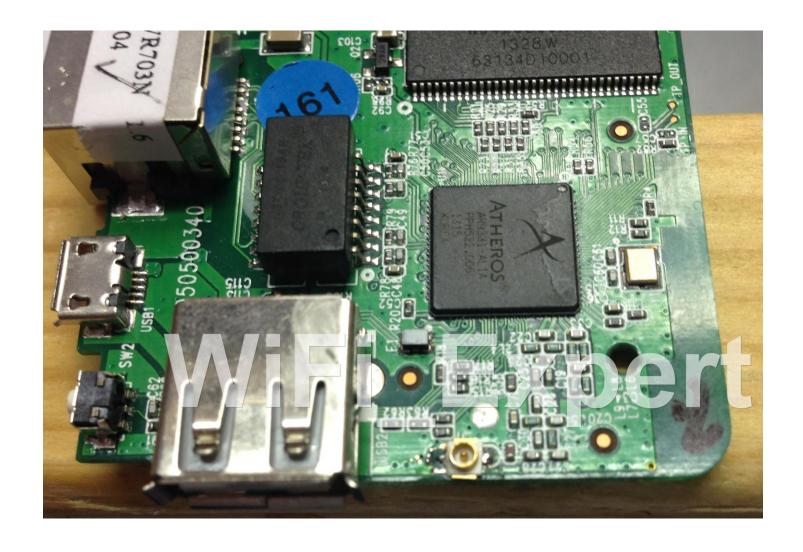
Option B: Remove J1 resistor, remove extra contact from the pad and solder the IPX base onto the PCB board. You need to use a tip of the knife to strip the plastic coating of the PCB board in order to get to shield contact (see below).



IPX mount falls right into place like it was meant to go there. (See below) The conductor must make contact with the left pad (middle pin). Soldering takes patience as the IPX base is very small and hard to keep in place. One trick is using a tiny drop of crazy glue.



The above image is before solder. Bottom Image is after.



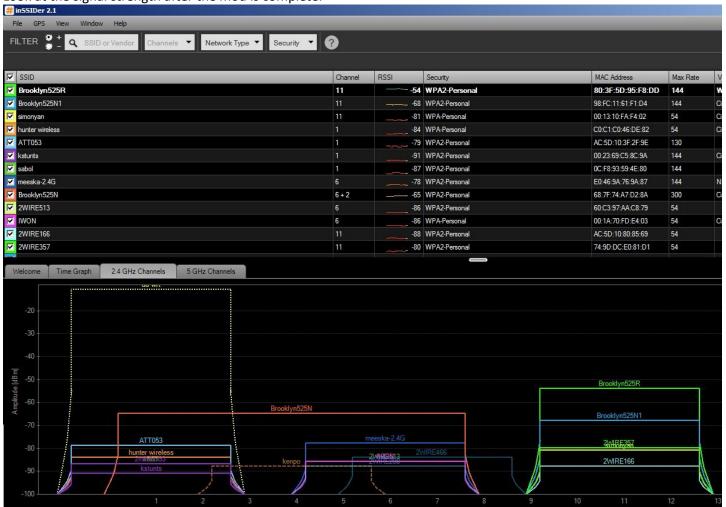
5) Drill  $\frac{1}{4}$  inch whole in the case, make sure to have enough clearance see below.



6. Tighten the nut in place and you are done.

Enjoy

Look at the signal strength after the mod is complete.

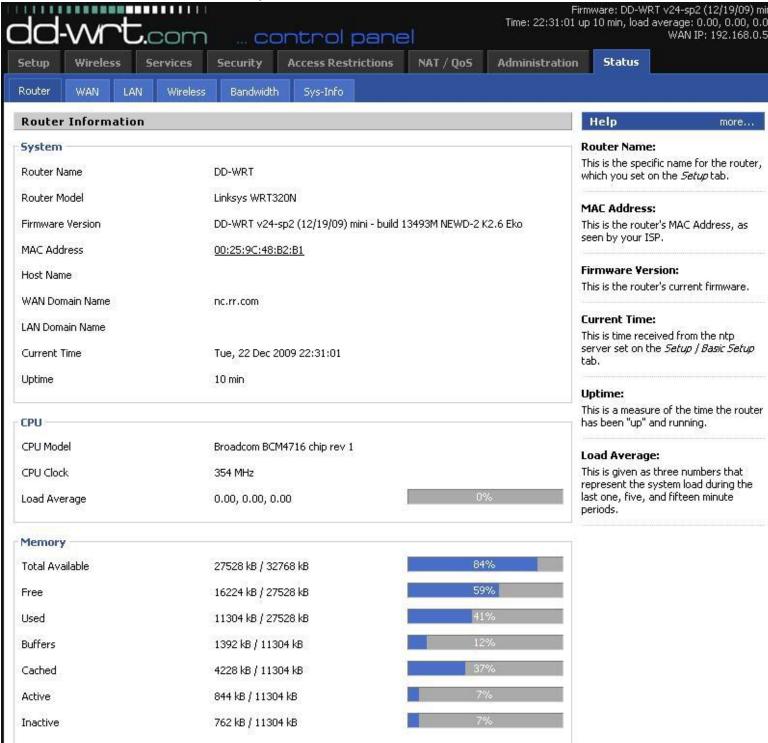


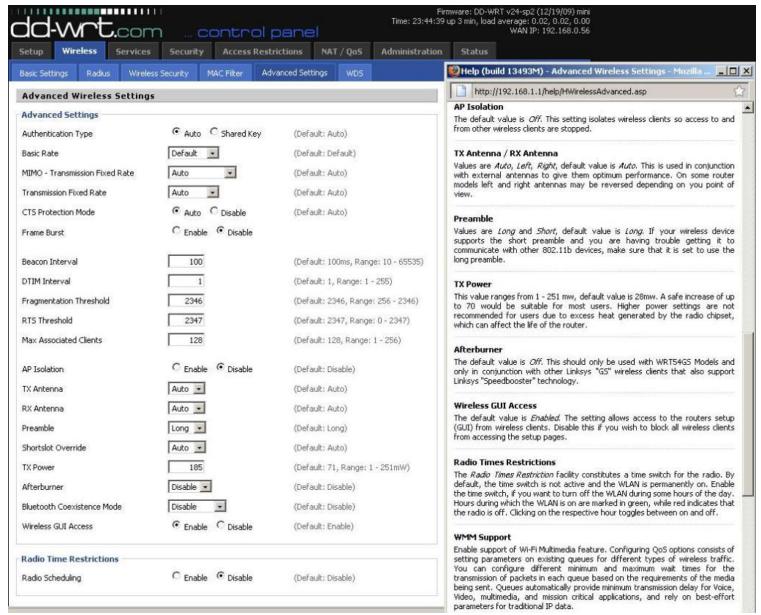
## **DD-WRT:**

For optimal performance we recommend replacing the Linksys firmware with DD-WRT. This is a free third party firmware that will help turn your \$60 router into a powerful, highly configurable \$600 router.

703N ONLY: <a href="http://www.dd-wrt.com/site/support/router-database">http://www.dd-wrt.com/site/support/router-database</a>

## **DD-WRT Firmware installed on the Linksys WRT320N**





Advanced Wireless Settings: TX/RX External Antenna adjustments, TX Power adjustments, etc...

## WIFI Radar Scanner:

http://www.metageek.net/products/inssider/ (free download)

The WIFI Radar Scanner will show the signal strength of your router. We recommend using it before and after installing the antennas to see the improvement of the signal strength. It can also show you which antenna position and router location can give you the best signal. The closer to -0db the better the signal, and the closer to -100db the worse.

