

This mod will work on all of the Uniden, Cobra type chassis that have the MB8719 PLL with CT7 present.... Some radios look identical but CT7, C121 and D33 may be marked different, if they are, proceed with this modification at your own risk...

Have you ever unlocked the clarifier on a Uniden Washington or Cobra 142 GTL and found that you don't really get much slide at all? Then you added the 5.6uh Choke and to find that the clarifier is almost impossible to line up on one of the modes? Well this is your lucky day. I have found a way to do this without the 5.6uh Choke which is a little bit more involved, but you will love the results to gain that 5kc slide. We will do all the easy stuff first.

You are doing this mod under the assumption you have allready got the clarifier unlocked!!! Remove any extra things you have done other than the standard clarifier unlocking scheme.

First thing to do is remove CT7 and C121 (if present)

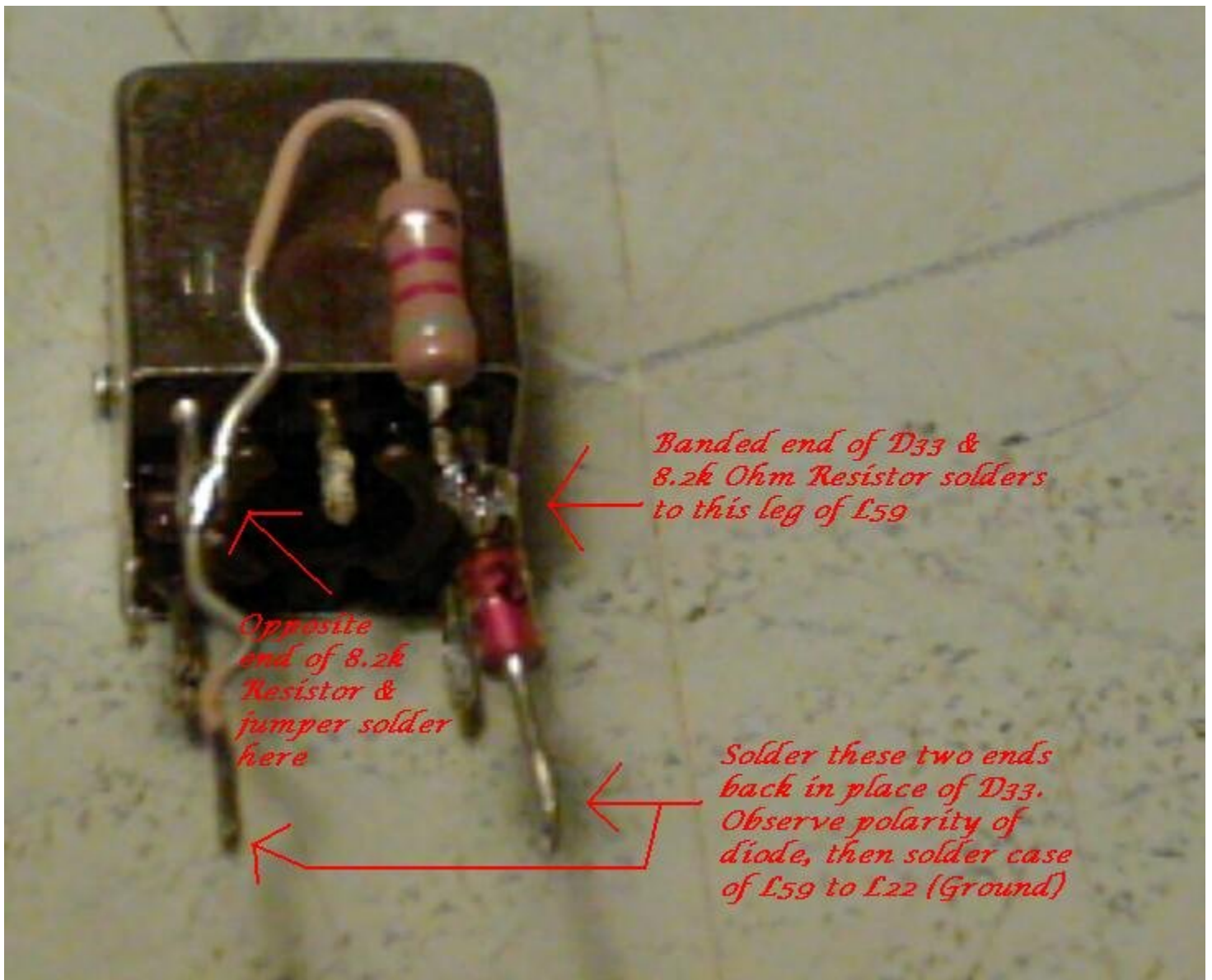
First thing we need is an old Cobra 148 GTL or Cobra 2000 GTL Chassis for parts... Remove L59 (USB), L23 (AM) & L22 (LSB) from the parts chassis and mark them with a sharpie AM, USB, LSB. This is the easy part, L22 and L23 are the same numbers between each radio, so just solder the can you marked LSB into the spot marked L22 on your radio. Same goes for L23 with the can marked AM... Now that you got those two soldered in to your radio, we can move to the next step...

Remove the 8.2k ohm resistor labeled R147 from the Cobra Parts Chassis and solder it to the legs of L59 as shown in the picture. Be sure the legs of the resistor do not touch the metal of the can shielding. Remove the diode labeled D33 from your radio. Solder the Banded end to the can as shown below (the ferrite can be omitted if needed). Now solder a jumper from the opposite leg of L59 (other end of 8.2k resistor). Solder the diode back in its place on the radio with the jumper going to the banded side. Now solder the shielding of L59 to the shielding of L22 to ground the case of L59 which supports it.

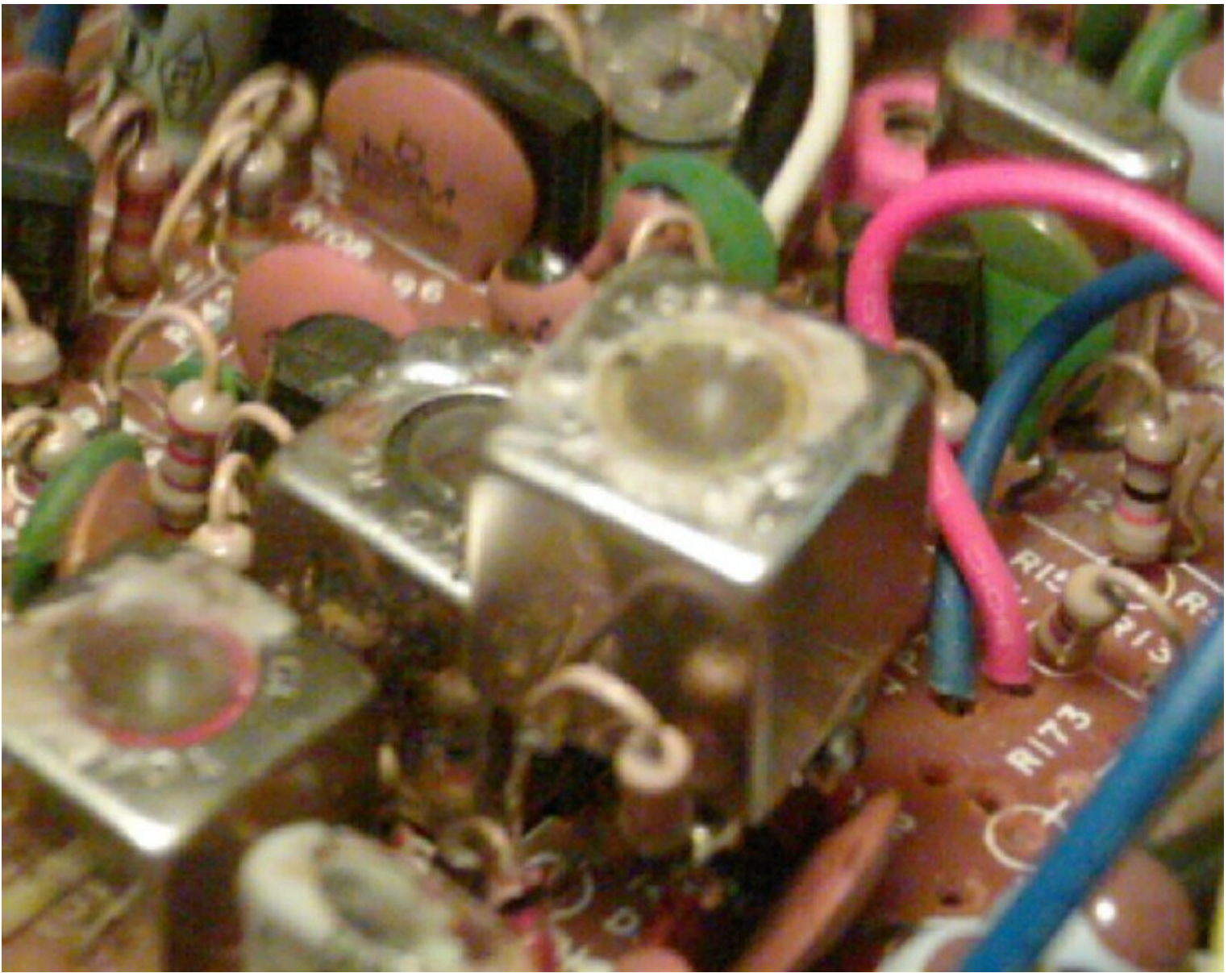
The hard work is now done. Now time to align the radio.... L23 is AM, L22 is LSB and the extra can you added to the circuit we can now call L59. After all, if you lok at a schematic of a Cobra 148 GTL Clarifier, it will now look identical to the circuit you just made.

Refer to the alignment procedure for a Cobra 148 GTL, 2000 GTL or Grant XL from now on to do the clarifier alignment.

Solder the components as shown below. This is what L59 should look like just before you solder it in the radio. Leave the remaining legs of the can unconnected.



This is what it should look like after you solder it in the radio. Looks kind of funky, but it works great! Make sure the bottom of the can is not touching any components below it on the board...



After I did this modification, I was able to easily slide 6kc down and 5 up. Its nice to have when you have a 10kc switch installed as well. You can try the 5.6uh choke for more slide now, but I cannot guarantee any end results as I did not need to go any further than this.

**Modification by: West Coast Radio "cobra269@yahoo.com"....
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