

Installation Instruction for the RLC-1 Plus Module on a SMT RLC1 Main

The following describes the process in updating your RLC-1 controller to support the new Plus module. This new powerful module will allow your RLC-1 to have voice, new tone frequency control, HF remote bases and lots of macros. In order to support these features, a daughter board was needed to support the memory and voice components. Your receiver levels and transmit levels **will not** have to be changed. Only the tone levels will need some adjustment. Once the update is installed, and you have thoroughly read the manual should you begin programming. A quick set-up command (command 068) has been added to allow your ID's to be set-up with only one command. Simply read and execute this command and you should be back on the air with only a few minutes of downtime.

Follow these steps completely. Remember, haste makes waste.....

Tools needed:

- Small screwdriver to adjust the voice, Main Tone, Link Tone pots
- Smaller screwdriver or PLCC removal tool to remove the uProcessor
- Solder Iron with a small solder tip

Procedure:

- 1) Remove the power from the RLC-1 controller.
 - Your controller will need to be removed from the enclosure in order to get to the PC board.
 - Make sure power is removed from the controller
- 2) Located the uProcessor socket marked U7. This socket is located in the upper left side of the RLC-1 controller. There will be a chip installed with either "RLC-1 V1.00/ V1.01" Condor V1.00" writing on it. Using your smaller screwdriver **GENTLY** pry the uProcessor out of the socket. Do not put too much pressure on the socket as you can damage it. There is a slot on either side of the socket that your smaller screwdriver can have access the underside of the uProcessor. Save the uProcessor for emergency back-up.
- 3) Move the opposite side of the RLC-1 and locate capacitors **C2,C3,C4,C6,C7 and C8**. These capacitors comprise your tone filter for the main port and Link port. Using the solder iron gently removed all six capacitors. Do not use too much pressure with the soldering iron, this can damage the pads on the board.

4) Plug the Plus board into the existing socket. The socket adapter is polarized so you can not get it backwards. Do not force the insertion of the **Plus** board adapter. Line the up the mounting screw holes in the upper left hand side of the RLC-1 and the Plus board. Screw the Plus board to the RLC-1 board. Screw the Plus board to RLC-1 board with the enclosed standoffs. When complete there will be a standoff attached to the left corner of the RLC-1 and one simply setting on the PC board. This should provide ample stability for the Plus board and the RLC-1.

5) Apply power to the RLC-1 while holding the "INITIAL" initialization switch on the Plus board. You should get the voice base initialization message out your Main (port 1) radio port. After initialization message is spoken, remove power and re-apply it to the RLC-1 to synchronize the new initialization variables.

Your new RLC-1 Plus controller upgrade is installed. It is important to read the users manual completely before contacting Link Communications, Inc for technical support. When calling for technical support we request you use the support number: 1-406-245-5002

Contacting Us:

Link Communications, Inc
1035 Cerise road
Billings, MT 59101-1518

Voice: (406)245-5002

Fax: (406)245-4889

Email: info@link-comm.com

Web Site: <http://www.link-comm.com>