

All Saints Hospital, Springhill, NS Nov. 29, 2011

Date: November 29, 2011

Site: All Saint Hospital, Springhill, NS

Site Visit Overview: Reprogram RC210 Controller and install VHF Preamp VHF Rpt

Visitors: Lorne VE1BXK & Brad VE1ZX

Arrival Time: 9:30 AM

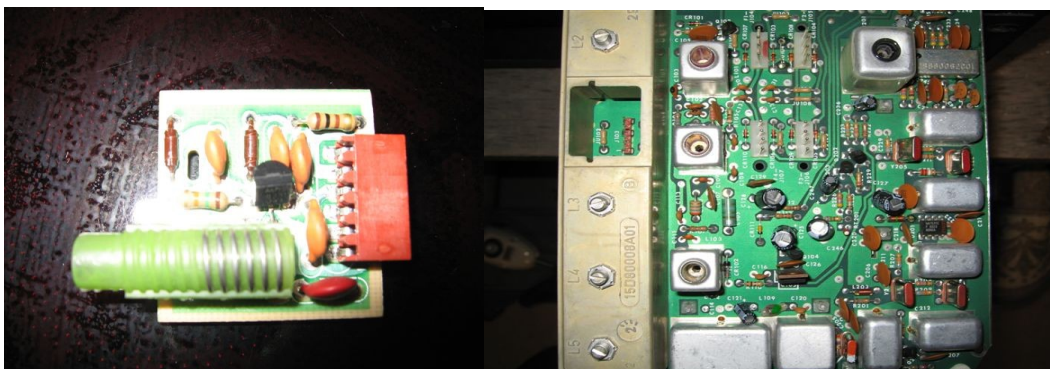
Background

The original programming of the Arcom RC210 controller introduced an "ECHO" effect of repeated transmit audio on Port 2 UHF link radio to VE1BHS HUB repeater. Uploading the rc210.dat (default file) into the controller first then reprogramming the RC210 with the file again to address this problem. Bill VE1MR did the programming file for this site.



Programming of RC210 controller

The second and final last task was installation a VHF preamp in the Motorola MSR2000 receiver card .



VHF Preamp

MSR2000 Receiver Board



MSR2000 Receiver Board VHF Preamp Installed

This VHF preamp module is a plug in unit which is inserted midway in the receiver front end bandpass filter to give about extra gain. A receiver sensitivity check of the receiver card prior to the VHF Preamp install resulted in a measurement of 0.3 uv @ 3.0 KHz / 12 DB SINAD. After the preamp was installed and aligned to the receiver frequency (146.205 MHz) a measurement of 0.18 uv @ 3.0 KHz / 12 DB SINAD was observed.

Conclusion:

A final test of linking from the VHF repeater via the UHF link radio to VE1BHS HUB repeater tested ok with no reports of the "ECHO" effect as confirmed by Mike VE1XDT (mobile) who just happened to be in the Amherst area at the time.

Departure time: 12:10 PM

Thereafter Lorne and Brad left the site and headed to Brad's QTH for lunch where Abbie VE1BFB had prepared a nice turkey sandwich, hot tea and cookies!

Brad Ross VE1ZX & Lorne VE1BXK