

# DEER HUNTER BAND MODIFICATION

## Introduction

The Connex Deer Hunter radio is a 3 band 10 Meter Amateur radio straight out of the box, so a few modifications are necessary if you intend to operate it out of band. The CB modification entails removing two wires and resoldering two pads on the PLL IC. This renders two bands down and normal CB band on the 3 position selector. However, some users want the radio to operate on other bands that match their particular needs. The following modifications will offer several band choices to meet these needs.

## Crystal Change

Changing the original 14.460 Mhz crystal will move the band selector high or low in range depending on the crystal frequency used. Keep in mind that the replacement crystal will not have the same characteristics as the original one. Some extra steps will be necessary to get the new crystal on frequency such as changing the value of C108 and adjusting L19. Lowering the value of C108 will bring the frequency up, and increasing the value will lower it.

The Deer Hunter radio could be made to operate on 6 bands by adding a switch and switching between the normal 14.460 Mhz crystal and a 15.910 Mhz crystal. The VCO in the unit is capable of a six band range and could operate with minimal power loss. See the Band Chart below for ranges and crystal frequencies.

CRYSTAL FREQUENCY	BAND	FREQUENCY RANGE
14.010 Mhz	B (LO -3 )	25.615 Mhz - 26.055 Mhz
	C (LO -2 )	26.065 Mhz - 26.505 Mhz
	D (LO -1 )	26.515 Mhz - 26.955 Mhz
14.460 Mhz (Factory Xtal)	B (LO -2 )	26.065 Mhz - 26.505 Mhz
	C (LO -1 )	26.515 Mhz - 26.955 Mhz
	D (CB 40)	26.965 Mhz - 27.405 Mhz
14,910 Mhz	B (LO -1 )	26.515 Mhz - 26.955 Mhz)
	C (CB 40)	26.965 Mhz - 27.405 Mhz)
	D (HI - 1 )	27.415 Mhz - 27.855 Mhz)
15.810 Mhz	B (HI - 1 )	27.415 Mhz - 27.855 Mhz)
	C (HI - 2 )	27.865 Mhz - 28.305 Mhz)
	D (HI - 3 )	28.315 Mhz - 28.755 Mhz)

**BAND CHART**

