COBRA 150GTL EXPORT FREQUENCY CONVERSION

NOTE: Power <u>Must Be Reset</u> To Activate Export Mode!

Do Not Remove (Gov. Freq.)

R676

R138

Remove (11M Export Band)

Toshiba
TMP87PP21DF

**4.1943 Mhz**
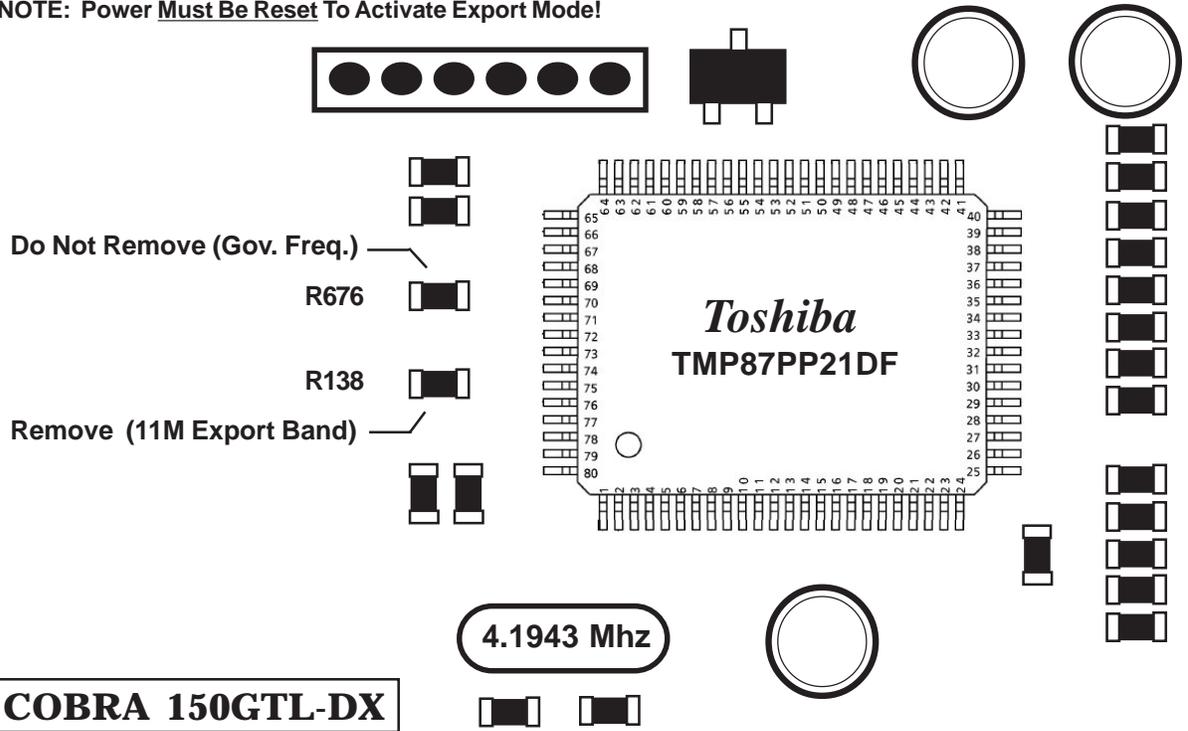
COBRA 150GTL-DX

Introduction:

The Cobra 150GLT DX is a 10 Meter Amateur Radio with some unique features not found on other Amateur radios. SMT (Surface Mount Technology) design and other advanced features such as the Mitsubishi Power MOSFETS used in the RF Driver and Final Transmitter circuit give it superiority over other radios in it's class. The Microprocessor Controlled PLL circuit allows the frequency range to extend far beyond many of it's competitors. **(Export Only!)**

Channel Display:

The Channel Display has visual indicators for Band Segments,
 and "A" Channels

Freq. Segment 2   "A" Channels
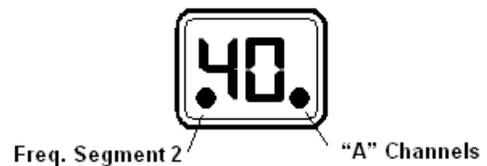
Export Mode:

Export mode consists of 8 Bands divided into 4 switch positions . The 4 Position Band Switch (A Through D) represents two 45 channel frequency blocks for each letter. For example, Position A would start on the lower frequency segment (1 - 40), then continue the next segment above when channel 40 is passed. The channel display will show a small <u>dot on the Left Side</u> indicating that the radio is in the <u>Upper Segment</u> of the 2 bands.

The Cobra radios also have "continuous" coverage of each band by not skipping the <u>"A" channels</u> between 3, 7, 11, 15, and 19, as other radios do. As the channel selector reaches channel 3, the next channel up will display 3 again with a small <u>dot on the Right Side</u>. This represents channel 3A, which is normally skipped by most radios and only accessable if the radio has a "slider" control or a 10Khz offset switch. This may be a little confusing for some users, but after using it for a few days it will become normal. The radio has a "Ranger" type Frequency Counter Plug on the rear panel so a Model FC-347 (or equivalent) frequency display can be used.

Modification:

* Remove the covers and locate the TMP87PP21DF Microprocessor near the front center of the unit.
* Locate and Remove the surface mount Resistor R138 to the left side of the Microprocessor.
* Do Not Remove Resistor R676. This controls the "Government Frequency" range which is Listen Only!
* Remove Power from the radio by disconnecting the Power leads for 15 seconds to reset the Microprocessor.