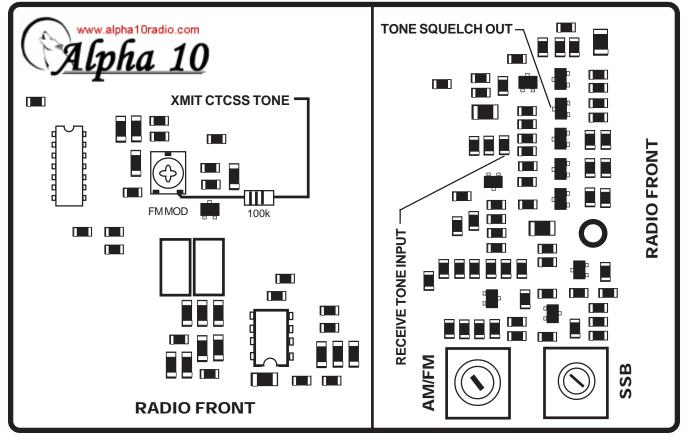# CTCSS TONE BOARD INSTALLATION

Alpha 10 Max - Model AM-1000

Tone Board Installation for 10 Meter Repeater Access

XMIT TONE

REC TONE

www.alpha10radio.com
Alpha 10

XMIT CTCSS TONE

FM MOD   100k

RADIO FRONT

TONE SQUELCH OUT

RECEIVE TONE INPUT

RADIO FRONT

AM/FM   SSB

TRANSMIT TONE ONLY:

* Remove the radio covers and locate the FM MOD Control as show in the Diagram above.
* Solder the CTCSS Tone Board RED Wire to the Supply Voltage (+13.8 VDC).
* Solder the CTCSS Tone Board BLACK Wire to Circuit Board Ground.
* Solder a 1/4 Watt 100K ohm Resistor to the "FM MOD" Pot as shown in Diagram A.
* Solder the CTCSS Tone Board "Transmit Tone Output" Wire to the other end of the 100K ohm Resistor.
* Use a short piece of tubing over the resistor to prevent shorting.
* Set the CTCSS Tone Board Switches for the correct CTCSS Tone Output for Repeater Access.

RECEIVE TONE SQUELCH:

* Solder the CTCSS Tone Board RED Wire to the Supply Voltage (+13.8 VDC).
* Solder the CTCSS Tone Board BLACK Wire to Circuit Board Ground.
* Solder the CTCSS Tone Board "Receive Discriminator Input" Wire to the Rec. Tone Input shown above.
* Solder the CTCSS Tone Board "Tone Squelch Output" Wire to the Center Pin of the Transistor.

Note: Most people just need to install the CTCSS Tone on Transmit only, in order to key up the various Tone Access Repeaters on the 10 Meter Amateur Band. It is Not Necessary to install the Tone Receive wires if this function is not needed.

Caution:

This radio uses SMT (Surface Mount Technology) and most of the components are tiny and delicate!
This type of work requires proper tools and skills that may be beyond the level of some repair shops.
Make sure that the shop making these mods is capable and has proper tools to complete this type of work