Technical Service Bulletin
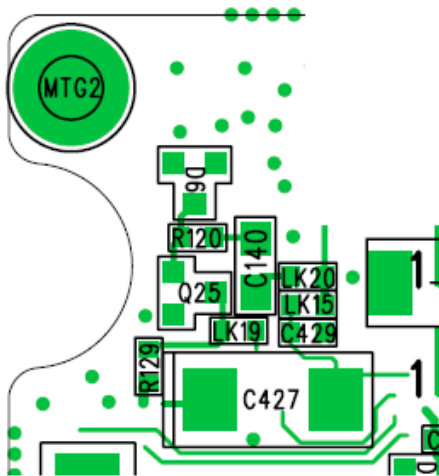
Date: March 10, 2009
Subject: SD-125E POCSAG modification (For TX only)
Issue: Units with serial number T0901 and higher are POCSAG ready. This means the units have the necessary parts already installed on the PC board. Only three links changes and tuning are required.

Instructions:

1. Remove the four screws from the top cover and remove the cover.
2. The components for POCSAG are located on top side of the digital board near the antenna jack.
3. Make the link changes as shown below.

	LK15	LK19	LK20
SPK_OUT	000	N/F	N/F
POCSAG	N/F	000	000

The unit is normally configured for SPK_OUT. For POCSAG remove LK15 and install LK19 and LK20 with zero ohm resistors.

4. Pin 9 of the DB9 is now reassigned as POCSAG in. Speaker out has been disabled. Next configure the DB9 with the following:
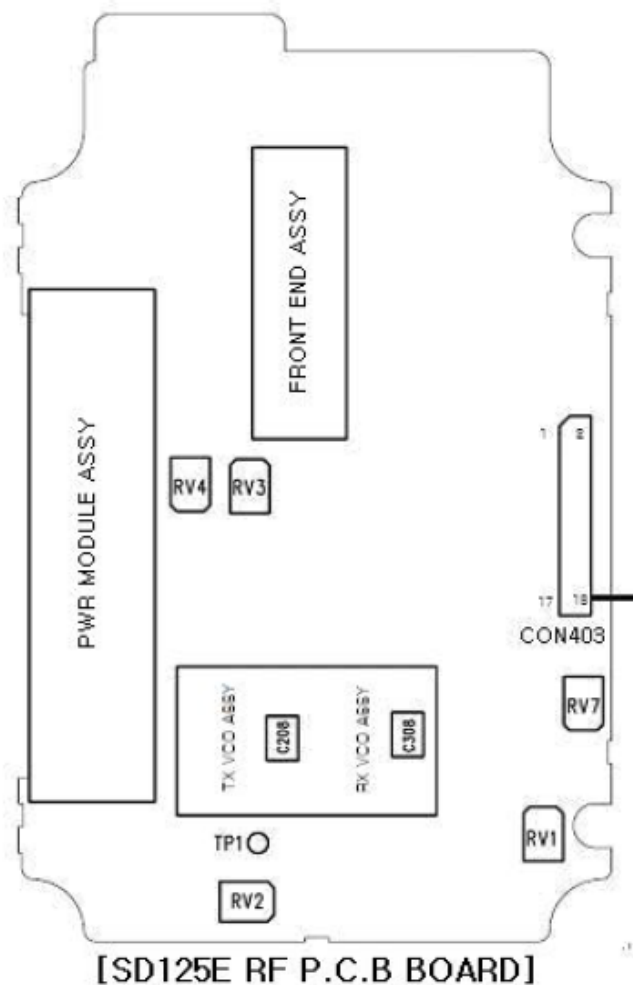
   Pin 3 is PTT. Ground this pin to make the radio transmit.
   Pin 4 is ground.
   Pin 5 is B+. Typically 12 volts is used.
   Pin 9 is POCSAG in.

5. It is not necessary to remove the digital board for tuning. Holes in the PCB provide access to the alignment points on the RF board. Either a POCSAG encoder or a service monitor can be used for the input to Pin 9. If using a service monitor generate a 512Hz square wave at 1VRMS. Adjust RV7 and RV2 for a square wave at 4.5 kHz deviation (wide band) or 2.3 kHz (narrow band). If the TX frequency needs alignment adjust RV1. TX power is aligned by RV4 (high power) and RV3 (low power).

[SD125E RF P.C.B BOARD]

6. Assemble the radio using the lid and four screws.