

KENWOOD

ASB-1008

Service Bulletin

Amateur Radio Division

Subject: TH-78A Call Channel Tone Frequency Error (Revised) **Date:** May 27, 1993

Symptom:

When the TSU-7 CTCSS unit is installed the tone frequency of the CALL CH is overwritten under the following circumstances:

1. Program the Call Channel with a tone between 67.0 Hz and 114.8 Hz. For example 100.0 Hz
2. Program any memory channel with any frequency and tone frequency. For example: 118.8 Hz
3. Recall the memory channel to the VFO.
4. Recall the CALL channel. The tone frequency of the call channel changes to that of the memory channel. (Changes from the programmed 100.0 Hz in the example to 118.8 Hz.)

Parts Required:

IC-5: Original part....75517GF-155-3B9 Change to:.... 75517GF-170-3B9

Procedure:

This symptom is caused by a microprocessor programming error. The cure is to replace the microprocessor (Control Unit X53-3420-00, IC-5) with the part listed below.

Note: Units with serial numbers 404xxxxx ~ 406xxxxx have a limited production microprocessor installed. This microprocessor incorporates the correction for this error. The part is labeled 75P518GF-JDF3. You do not need to replace this IC. Units with serial number 407xxxxx and after will have the 75517GF-170-3B9 microprocessor installed at the factory.

Caution: *This modification requires soldering equipment rated for CMOS type circuits. It also requires familiarity with surface mount soldering techniques. If you do not have the proper equipment or knowledge do not attempt this modification yourself. Seek qualified assistance.*

Time required for this modification is 1 hour or less.

Service Code: A:98 B:X53-3420-00 C:IC-5 D:91

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