

KENWOOD

ASB-1042

Service Bulletin

Amateur Radio Division

Subject: TM-642/742/942A Microprocessor Change **Date:** March 28, 1994

This bulletin supercedes ASB-1033.

Symptom:

Reports of problems with microprocessor lock-up when using S-meter squelch, problems with storage/recall of PL tone frequencies of 203.5 Hz. and/or 114.8 Hz., or problems with a lack of transmit on the UHF band modules during Remote operation can be corrected using the changes noted in this bulletin.

Notes:

1. All TM-642A transceivers work fine and do not require any changes.
2. TM-742/942's that exhibit any of these symptoms with serial numbers between 412XXXX and 509XXXX need only change IC1 on X53-3460-21 B/2.
3. TM-742/942's that exhibit any of these symptoms with serial numbers of 412XXXX and below must also change IC1 on X54-3130-11.
4. TM-742's with serial numbers of 509XXXX and greater have had these changes incorporated in production.
5. Some TM-742's and TM-942's below serial number 509XXXX have been returned to Japan for modification and have been placed back into "A Stock". If the unit that you have has a black dot on the box near the serial number it has already been modified and requires no further action.

Parts Required:

Qty	Description	Old Part No.	New Part No.	Circuit Description
1	Microprocessor	HD6433388A07F		
		or		
		HD6433388A14F	HD6433388A22F	IC1
1	Microprocessor	HD404719A26H	HD404719A32H	IC1

Caution: This modification requires advanced surface mount soldering equipment that is rated for CMOS circuits. It also requires familiarity with advanced surface mount soldering techniques. If you do not have the proper equipment or knowledge do not attempt this modification yourself. Attempting to remove and replace either IC without the proper equipment and techniques can easily damage the circuit boards and void your warranty. Seek qualified assistance from your

closest Kenwood Service Center (Long Beach, CA, or Virginia Beach, VA).
Time required for this modification is 90 minutes or less.

Service code A:98 B:X53-346 B/2 C:IC1 D:91