

KENWOOD

ATB-0026

TECHNICAL BULLETIN

Amateur Radio Division

SUBJECT: TS-870S RECEIVER CIRCUIT CHANGES

DATE: 01/23/98

The following provides a more useable range of the RF attenuator by re-allocating stage gain at the first and third I.F. This change allows the use of less front end attenuation, allowing you to hear the desired signal while reducing interfering signals during CW contests and pile ups.

CAUTION:

This change 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, seek qualified assistance.

REQUIRED PARTS:

RF PCB:

R157	1.8K TO 560	RK73FB2A561J
R160,161	2.2K TO 1K	RK73FB2A102J
R164	1.5K TO 560	RK73FB2A561J
R169	1K TO 330	RK73FB2A331J
L76, 79	3.3u TO 0	R92-0670-05

TX-RX PCB:

R332	2.2K TO 6.8K	RK73GB1J682J
C340	.022u TO .01u	CK73GB1C104K
VR1	470 TO 3.3K	R12-6737-05 (optional)

PROCEDURE:

1. Remove the bottom cover and shields enclosing the RF board and TX-RX board.
2. Replace L76 and L79 on the component side of the RF board.
3. Replace C340 and R332 on the component side of the TX-RX board.
4. Access the bottom side of the RF board and replace R157, 160, 161, 164 and 169.
5. Perform S-Meter alignment, step 8, on page 95 of the Service Manual. If you cannot obtain "05" on the display, replace VR1 on the TX-RX board with the part listed above.

NOTES:

With the exception of C340, this change was incorporated into production from S/N 801XXXXX. C340 was change at S/N 807XXXXX.

