

KENWOOD

ASB-986

Service Bulletin

Amateur Radio Division

Subject: TS-440S SERVICE MANUAL ALIGNMENT PROCEDURE UPDATES
Date: May 6, 1991

Use the following information to update the alignment procedure in your TS-440s Service Manual. Note that only the blocks marked with an asterisk, have been updated.

PAGE 91

ITEM	CONDITION	MEASUREMENT			ADJUSTMENT			SPECIFICATION REMARKS	
		TEST EQUIPMENT	UNIT	TERMINAL	UNIT	PART	METHOD		
1. VOLTAGE	1) POWER, ON RF GAIN: MAX MODE: USB STBY: REC	DC V.M.	IF	19 - 3			CHECK	13.1 - 14.3V	*
				19 - 9				4.5 - 5.5V	
				19 - 18				7.2 - 7.8V	*
				9 - 1	SW "A"	VR-4	0.8V	+/- 0.05V	*
				27 - 4	IF	VR-5	0.8V	+/- 0.1V	*

PAGE 91

4. VCO4	1) FREQ: 14.0000MHZ MODE: AM DISCONNECT PLL-8 CONN WHEN PLL UNLOCKED	DC V.M.	PLL	TP1 (L6)	PLL	T1	3.8V	+/- 0.1V		
	2) MODE: USB									
	3) MODE: LSB									
	4) MODE: USB IF SHIFT POT, CENTER	FREQ COUNTER	PLL	3 - 2	SW "A"	VR7	456.500KHZ *	+/- 25HZ	*	
	5) IF SHIFT POT: FULL CW								457.500KHZ OR MORE	*
	6) IF SHIFT POT: FULL CCW								455.500KHZ OR LESS	*
	7) IF SHIFT POT, CENTER								456.500KHZ *	+/- 25HZ
5. VCO3	1) FREQ: 13.9999MHZ MODE: AM	DC V.M.	PLL	TP2 (L13)	PLL	T2	6.2V	+/- 0.1V		
	2) FREQ: 14.0000MHZ MODE: AM								2.8 - 3.8V	*

PAGE 93

9. S-METER (SSB)	1) NO SIGNAL (SSB OUTPUT: OFF)	S-METER			IF	VR-2	SET TO STARTING POINT METER ZERO	
	2) FREQ: 14.1750MHZ MODE: USB SSB OUTPUT: 0DBU	SSB S-METER	REAR PANEL	ANT	IF	L3	S1 TURN CCW FROM PEAK	
	3) SSB OUTPUT: 40DBU							VR1 *

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