

SERVICE BULLETIN AMATEUR RADIO

SUBJECT TS-440S SERVICE MANUAL ALIGNMENT PROCEDURE UPDATES	DATE 05/06/91
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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.

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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	1B - 5			CHECK	13.1 - 14.3V *
				1B - 9				4.5 - 5.5V
				1B - 10				7.2 - 7.8V *
				5 - 1	5W *A*	VR-4	2.6V	+/- 0.05V *
				2T - 4	IF	VR-5	0.0V	+/- 0.1V *

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4. VCO4	1) FREQ: 14.0000MHZ MODE: AM DISCONNECT PLL-B COHN WHEN PLL UNLOCKED	DC V.M.	PLL	TP1 (L2)	PLL	T1	3.0V	+/- 0.1V
	2) MODE: USB							
	3) MODE: LSB							
	4) MODE: USB IF SHIFT POT: CENTER	FREQ COUNTER	PLL	3 - 2	5W *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: 19.9999MHZ MODE: AM	DC V.M.	PLL	TP2 (L13)	PLL	T2	6.2V	+/- 0.1V
	2) FREQ: 14.0000MHZ MODE: AM							2.8 - 3.6V *

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9. S-METER (SSB)	1) NO SIGNAL (SSG OUTPUT: OFF)	S-METER			IF	VR-2	SET TO STARTING POINT METER ZERO	
	2) FREQ: 14.1730MHZ MODE: USB SSG OUTPUT: 800U	SSG S-METER	REAR PANEL	ANT	IF	L3	S1 TURN CCW FROM PEAK	
	3) SSG OUTPUT: 4000U					VR1 *	5B	400B +/- 60B

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