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Craig L232 Service Manual

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SERVICE MANUAL



L232



WARNING

Replacement or substitution of IC's, crystals, transistors, regulator diodes, or any other part of a specialized nature with parts other than those recommended by Craig may cause the operator to be in violation of the Type Acceptance requirements of Part 2 of the Rules.

FCC Rules require that ALL transmitter section adjustments, other than those supplied by Craig as operating controls, be made by or under the immediate supervision of the holder of an FCC First or Second Class Radio-Telephone Operator's License.

SPECIFICATIONS

GENERAL

CHANNELS
FREQUENCY RANGE
FREQUENCY STABILITY
MICROPHONE
POWER SOURCE
CURRENT DRAIN: Transmit;
Receive;

Receive;

AM 40, LSB 40, USB 40
26.965 to 27.405 MHz
1130 Hz
Dynamic type
120 V, 60 Hz or 13.8 Vdc
AM full modulation, 2.5 A
SSB, 12 W PEP, 2.5 A
Standby, 0.5 A
Maximum audio output, 1.2 A

TRANSMITTER

RF POWER OUTPUT

FREQUENCY TOLERANCE +0.003 % from -30 C to +50 C SPURIOUS ATTENTUATION 60 dB minimum 0UTPUT IMPEDANCE 50 Ohm FILTER CIRCUIT Crystal lattice 7.8 MHz filter CARRIER SUPPRESSION 50 dB UNWANTED SIDEBAND SUPPRESSION 50 dB

RECEIVER

SENSITIVITY: AM; Better than 0.5 uV for 10 dB (S+N)/N SSB; Better than 0.25 uV for 10 dB (S+N)/N BANDWIDTH 6 KHz @ Change in audio output less than 10 dB from 5.0 uV to 1.0 V AGC SQUELCH Adjustable, threshold less than 0.5 uV Tight, more than 250 uV 3 W at 10 % THD Better than 70 dB POWER OUTPUT IMAGE REJECTION Better than 90 dB Better than 55 dB AM: 7.8 MHz SSB: 7.8 MHz AM: ±1250 Hz SSB: ±1250 Hz IF REJECTION ADJACENT CHANNEL REJECTION IF FREQUENCY CLARIFIER RANGE NOISE BLANKER RF parallel gate type

P.A. SYSTEM

POWER OUTPUT 3 W

PARTS PRICE LIST

	•	
CRAIG KEY No.		's SUGG . PRICE
PAC	CAGING	
L132507 TL201003 L150396 XFU004	Styrofoam Set (L & R) Microphone (Complete) TMic Mounting Kit	5.85 3.50 23.45 1.20 .75 .25 1.00 3.50

REF. No.	CRAIG KEY No.		s SUGG PRICE
CAE	BINET	& CHASSIS	
1 2 3 4 5 6 7 8 9			.25 21.00 .25 4.15

A PRODUCT OF CRAIG CORPORATION

REF. No.	CRAIG KEY No.	DESCRIPTION	MFR's SUGG RET. PRICE	REF. No.
CAB	INET & 0	CHASSIS (continued)		CAB
NO C 111234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234	KEY No.		RET. PRICE .25 .25 .25 .25 .25 .25 .25 .25 .25 .2	No.
656678970314340123111337017444444444444444444444444444444	L132722 TA7222P MB3756 TM4801P 4101034 4101034 4101027 L132607 L201607 L201607 L201605 L201605 L2021604 L232516 L232517	Hex Nut M3 Flange Nut M4 Lock Washer M2.6 Lock Washer M3 Label, Caution Label, Caution Label, Caution Capacitor, 3300uF/35V Capacitor, 1000uF/25V Varistor Varistor Diode LED, DIGITAL CH DISPLAY LED, TX Indicator LED, CH 9 Indicator LED, RX Indicator LED, BIGITAL CLOCK DISPLA Fuse Holder Assy, Crystal Filter I.C. (AF POWER AMP) I.C. (VOLTAGE REGULATOR) I.C. (VOLTAGE REGULATOR) I.C. (CLOCK/LOGIC) Socket, PA Spkr Jack Socket, Ext Spkr Jack Socket, Ext Spkr Jack Socket, Ext Spkr Jack Socket, Ext Spkr Jack Mocket, Headphone Jack Meter, MOD/SWR PCB w/COMP., HEADPHONE JA PCB w/COMP., EXTERNAL SPK PCB w/COMP., EXTERNAL SPK PCB w/Comp., CH SELECT SW PCB w/Comp., CH SELECT SW PCB w/Comp., LED CH DISPL PCB w/Comp., LED CLOCK/LO PCB w/Comp., CH 9 SCAN PCB w/Comp., POWER SUPPLY	255 255 255 255 255 255 255 255 255 255	REF. No. CO CT1,2 FT1 FT2 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15,1 L17 L18 L19 L20 L21,2 23,2 L25 L20 L21,2 L21,2 L3 L10 L11,2 L10 L11,2 L10 L10 L10 L10 L10 L10 L10 L10 L10 L10

REF. CRA			s SUGG PRICE
CABINE		SSIS (continued)	
SW181 L201	PCB w	y Sw, BAND SELECT Sw, PA/CB SELECT Sw, PA/CB SELECT Sw, MA/ANL On/Off Sw, MOD/CAL/SWR SELECT Sw, AC/DC SELECT Sw, CH 9 SCAN Sw, CH 9 HOLD Sw, AUTO POWER SET Sw, CLOCK SET Sw, FAST SCAN Sw, SLOW SCAN Sw, HOLD SW, AUTO POWER Er, 16 Ohm/3W SW ASSY (S402 & S412~17) TRANSFORMER (TF145) istor (REGULATOR) istor (TX FINAL) istor (TX FINAL) istor (REGULATOR) istor (REGULATOR) istor (REGULATOR) istor (REGULATOR) istor (REGULATOR) istor (LED DRIVE) CONTROL OK, SQUELCH CONT OK, SQUELCH (See VR359) OK, CLARIFIER CONT OK, WOLUME CONT OK, SWR/CAL CONT OK, TONE CONT CONTROL OK, TONE CONT CONTROL OK, TONE CONT OK, MIC GAIN (See VR416) SK, TONE CONT OK, MIC GAIN CONT OK, TONE CONT OK, MIC GAIN CONT OK, TRANSISTOR MTG OK, TRANSISTOR MTG OK, FE GAIN CONT OK, TONE CONT OK, TRANSISTOR MTG OK, TRANSISTOR OK	3.30 3.00 3.00 2.60 7.795 119.25 2.10 8.70 2.10 5.25 2.10 5.00
REF.	CRAIG		s SUGG PRICE
COILS,	TRIM	MERS & XFORMERS	
CT1,2,3 FT1 FT2 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L14 L15 L11 L12 L13 L14 L17 L18 L17 L18 L17 L18 L19 L11 L11 L11 L11 L11 L11 L11 L11 L11	L132670 L132722 L232722 L132671 L132672 L132674 L132675 L132677 L132677 L132678 L132680 L132681 L132682 L132683 L132684 L132685 L132685 L132685 L132685	Trimmer Capacitor 20pF Assy, Crystal Filter 7.8MHz (FL065) Crystal Filter, 7.8MHz(FL046) Trimmer (LA038) Trimmer (LA179) Trimmer (LA255) Trimmer (LA262) Trimmer (LA262) Trimmer (LA257) Trimmer (LA258) Trimmer (LA258) Trimmer (LA260) Trimmer (LA216) Trimmer (LA217) Trimmer (LA217) Trimmer (LA217) Trimmer (LA217)	1 .40 29.10 29.50 .990 .990 .990 .990 .990 .990 .990
23,24 L25 L26 L27 L28 L29 L30	L132681 L132682 L132687 L132688 L132689 L132690 L132691 L104675	Inductor (470uH) Inductor (100uH) Trimmer (LA219) Trimmer (LA160) Trimmer (LA220) Trimmer (LA254) Coil (LD096) Coil (LD087)	.65 .65 .90 .90 .90 .90

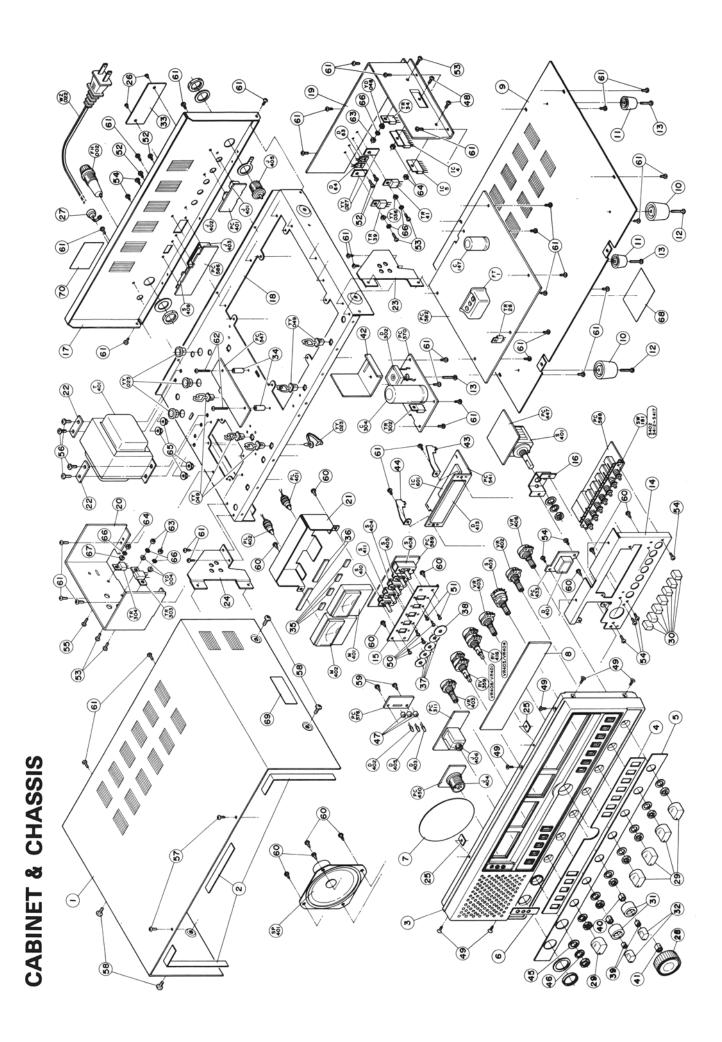
REF. •	CRAIG KEY No.		SUGG PRICE
COILS, T	RIMMER	S & XFORMERS (continue	d)
L32 L33 L34 L35 L36 L37,38 L39 L40 L51,52 L401,402 L403 L404,405 L406,408	L132692 L132693 L104675 L132693 L132694 L132694 L105670 L105670 L132696 L132697 L132697 L132697 L232641	Coil (LD101) Coil (LD098) Coil (LD098) Trimmer (LC019) Coil (LE051) Trimmer (LC019) Coil (LD113) Coil (LD013) Coil (LD077) Coil (LD089) Coil (LD089) Coil (LD089) POWER TRANSFORMER (TF145)	. 25 . 40 . 50 . 40 . 45 . 25 . 25 . 25 . 25 . 25 . 25 . 25 . 2
F401	XFU004	Fuse, 4A	1 00
7402 J401 J403 J404 J406 M401 M401 P403 PC433 PC4450 PC4547 PC547 PC547	XFU0004 4101034 4101034 41010327 L132607 L201607 L201605 L201605 L132507 3307099 4101033 L232516 L232517 L201519 L232518 L232519 L201524 L232520 L232520 L232520 L232521	Fuse, 4A Socket, PA Spkr Jack Socket, Ext Spkr Jack Socket, D.C. Power Connector Socket, Mic Connector Connector, Coaxial Antenna Socket, Headphone Jack Meter, RF PWR/SIGNAL Meter, MOD/SWR Microphone (Complete) A.C. Power Plug w/Cord D.C. Power Plug w/Cord D.C. Power Plug w/Cord PCB w/Comp., HEADPHONE JACK PCB w/Comp., EXT SPKR JACK PCB w/Comp., EXT SPKR JACK PCB w/Comp., CH SELECT SW PCB w/Comp., HED CLOCK/LOGIC PCB w/Comp., LED CLOCK/LOGIC PCB w/Comp., LED CLOCK/LOGIC PCB w/Comp., CH 9 SCAN PCB w/Comp., POWER SUPPLY	2.60 1.80 2.15 8.00 8.00 23.45 1.50 3.50 2.90 1.75 9.65 6.00 10.20
PC576 PC588 PC5888 PC5889 PC401 S401 S404 S405 S405 S407 S4101 S4101	NSP L232522 NSP L232523 L232524 L201550 L201550 L201550 L201531 L201530 L201531 L201531 L201532 L2015330 L2015330 L2015330 L2015330	PCB W/Comp., TX/RX/CH 9 Ind LED PCB W/Comp., MAIN PCB W/Comp., D.C. FILTER PCB Only, CLOCK PUSH SW Assy PCB Only, SLIDE SW Assy PCB Only, SLIDE SW Assy PCB Ush Sw Assy PCB Only, MANUAL SELECT PIOT Lamp, MOD/SWR Meter Rotary Sw, CHANNEL SELECT Push Sw, MANUAL POWER Rotary Sw, BAND SELECT Slide Sw, PA/CB SELECT Slide Sw, PA/CB SELECT Slide Sw, MB/ANL On/Off Slide Sw, MOD/CAL/SWR SELECT Slide Sw, AC/DC SELECT Slide Sw, CH 9 SCAN Slide Sw, CH 9 HOLD PUSH Sw Assy, CLOCK CONTROL	3.30 2.95 2.00 1.50 1.60 1.60 10.90 2.60 4.15 1.90
S412 S413 S415 S415 S415 S402 SP401 SW181 VR3 VR7 VR8 VR7 VR8 VR10 VR12 VR5002 VR359	L201535 L201536 L201536 L201536 L201534 L201534 L201702 L201533 L105590 L105590 L105590 L104590 H221593 L132591 L132592 L232592 L232590 L232590 L232590	Push Sw, AUTO POWER SET Push Sw, CLOCK SET Push Sw, FAST SCAN Push Sw, SLOW SCAN Push Sw, HOLD Push Sw, AUTO POWER Push Sw, MANUAL POWER Speaker, 16 Ohm/3W Push Sw Assy, (\$4028\$412 17) Semi-Fixed Res. 10K Ohm Semi-Fixed Res. 10K Ohm Semi-Fixed Res. 10K Ohm Semi-Fixed Res. 500 Ohm Semi-Fixed Res. 500 Ohm Semi-Fixed Res. 5K Ohm Semi-Fixed Res. 5K Ohm Semi-Fixed Res. 5K Ohm Semi-Fixed Res. 100K Ohm Semi-Fixed Res. 5K Ohm Semi-Fixed Res. 5K Ohm Semi-Fixed Res. 5K Ohm Semi-Fixed Res. 5K Ohm	3.30 3.30 3.00 3.00 2.60 7.70 11.95 .70 .65 .70 .85 .85 .85
VR401 VR408 VR401 VR402 VR402 VR403 VR405 VR406 VR406 VR409 VR409 VR416 VR404 VR404 VR404 VR404 VR405 VR403 VR404 VR405 VR403 VR404 VR404 VR405 VR404 VR405 VR403 VR404 VR403 VR404 VR403 VR404 VR404 VR404 VR404 VR403 VR404 VR403 VR404 VR403 VR404 VR403 VR404 VR403 VR404 VR403 VR404 VR403 VR404 VR403 VR404 VR403 VR404 VR404 VR403 VR404 VR403 VR404 VR403 VR404 VR40 VR40	L132570 L232571 L132571 L132571 L132571 L132572 L132722 L132723 L132723 L132723	Assy, Control VR 100K, SQUELCH Cont VR 100K, CH 9 SQ Cont VR 100K, SQUELCH(See VR359) VR 20K, CLARIFIER Cont VR 10K, VOLUME Cont VR 10K, RF GAIN (See VR416) VR 1K, MIC GAIN(See VR416) VR 5K, SWR/CAL Cont VR 100K, CH 9 SQ(See VR359) VR 10K, TONE Cont Assy, Control VR 10K, RF GAIN Cont Crystal, 7.8025MHz Crystal, 7.7975MHz Crystal, 7.7975MHz Crystal, 11.2858MHz	1.50 1.50 1.55 1.55 1.55 4.55 4.55 4.55

REF. No.	CRAIG KEY No.		s SUGG PRICE		
SEMICONDUCTORS					
D1, 2, 9, 25, 26, 45, 66, 7, 8, 10, 11, 12, 13, 14, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29, 31, 32, 33, 34, 35, 36, 36, 39, 40, 41, 42, 43, 44, 45, 46, 47, 42, 53, 55, 56, 567, 504, 507, 508, 509, 510, 601	1N60	Diode	.95		
D16,17 D30 D54 D58,59,501 D63 D64 D301 D302 D303 D401 D402 D403 D405 D407 D413 FET1,501 IC1 IC2 IC3 IC4 IC5 IC6 IC501 IC601 TR1,26,	MC301 RD5.1EB2 152687D 1N60P MV13YH MV1Y RD6.2EB3 S5VB/10 CZO92 TLR124 TLR124 TLG124A 1N4003 TLR2077 2SK19 UHICO70 UPD 2824C AN612 WB3756 S042P MB34011M TM4801P	Diode Zener Diode Vari-Cap Diode Diode Varistor Varistor Zener Diode Diode LED, CHANNEL Indicator LED, TX Indicator LED, CHY (AUTO) Indicator LED, CKY (AUTO) Indicator LED, CLOCK DIGITAL DISPLAY FET I.C. (VCO) I.C. (PLL,LSI) I.C. (AF POWER AMP) I.C. (REG) I.C. (MIX) I.C. (CHY SCAN) I.C. (CHY SCAN) I.C. (CLOCK/LOGIC)	1.05 .40 .90 .80 .55 1.00 9.15 .85 .85 .85 1.33 10.90 11.25 5.65 5.00 5.90 2.80		
24,25, 42 TR3,8,16 TR4,5,11, 13,15, 20,27, 32,33, 35,37, 44,301, 501,502, 503,601 TR7,14,30, 31,45	2SC710 2SC1730	Transistor Transistor	1.15 1.10		
501,502, 503,601	2SC711	Transistor	.95		
31,45 TR9, TR17,18 TR19,23 TR26,34,	2SA628 2SC1674 2SC673 2SC1675	Transistor Transistor Transistor Transistor	.95 1.50 .50 1.30		
302,304 TR28 TR29,36 TR39 TR40 TR41 TR303 TR504	2SC1419 2SC945 2SC1312 2SC1973 2SC1306 2SC496 2SC1969 2SD588 2SC2236	Transistor	2.50 1.00 .95 2.30 3.20 2.10 8.70 5.25		

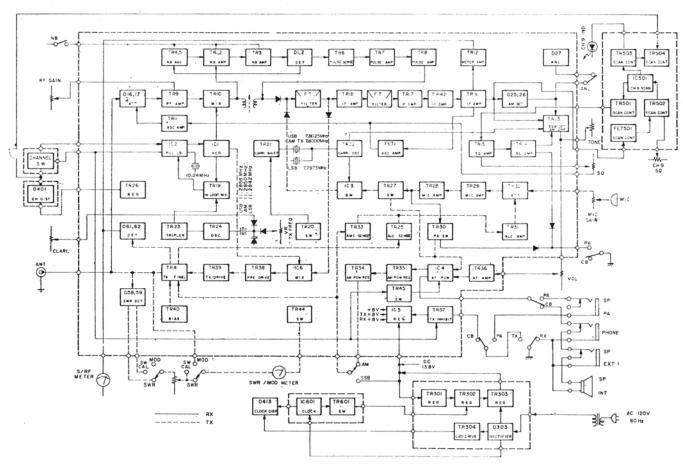
NOTE: NSP Non Serviceable Part

SUBJECT TO CHANGE WITHOUT NOTICE. USE ALL AVAILABLE NUMBERS AND COMPLETE DESCRIPTION WHEN ORDERING, INCLUDING MODEL NUMBER

THESE PRICES HAVE BEEN REVISED AS OF 6/20/80



BLOCK DIAGRAM



METER ADJUSTMENTS

(see Alignment Procedures)

FREQUENCIES OF LOCAL OSCILLATORS and IF STAGE IN RECEIVING MODE.

3 5 , [/	CH No.	CHANNEL	DIVIDE	LOCAL OSC	ILLATOR FREQUE	NIES	ΙF
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		FREQUENCY	RATIO	AM MODE	USB MODE	LSB MODE	FREQUENCY
SIGNATIVOS	1	26.965 MHz	91	34.765 MHz	34.7675 MHz	34.7625 MHz	7.8 MHz
// ~	2	.975	92	.775	.7775	.7725	7.8
//	3	.985	93	.785	.7875	.7825	7.8
//	4	27.005	95	.805	.8075	.8025	7.8
ANT 464B	5	.015	96	.815	.8175	.8125	7.8
ANT 46dB	6	.025	97	.825	.8275	.8225	7.8
	7	.035	98	.835	.8375	.8325	7.8
	8	.055	100	.855	.8575	.8525	7.8
MOD ,	9	.065	101	.865	.8675	.8625	7.8
1.700	10	.075	102	.875	.8775	.8725	7.8
	11	.085	103	.885	.8875	.8725	7.8
	12	.105	105	.905	.9075	.9025	7.8
	13	.115	106	.915	.9175	.9125	7.8
	14	.125	107	.925	.9275	.9225	7.8
1/	15	.135	108	.935	.9375	.9325	7.8
AM IKHE50%	16	.155	110	.955	.9575	.9525	7.8
16 AB	17	.165	111	.965	.9675	.9625	7.8
	18	.175	112	.975	.9775	.9725	7.8
	19	.185	113	.985	.9875	.9825	7.8
	20	.205	115	35.005	35.0075	35.0025	7.8
	21	.215	116	.015	.0175	.0125	7.8
RF PWR	22	.225	117	.025	.0275	.0225	7.8
211	23	.255	120	.055	.0575	.0525	7.8
1 2 4	24	.235	118	.035	.0375	.0325	7.8
77	25	.245	119	.045	.0475	.0425	7.8
	26	.265	121	.065	.0675	.0625	7.8
1/	27	.275	122	.075	.0775	.0725	7.8
1/	28	.285	123	.085	.0875	.0825	7.8
1/	29	.295	124	.095	.0975	.0925	7.8
AM	30	.305	125	.105	.1075	.1025	7.8
711	31	.315	126	.115	.1175	.1125	7.8
	32	.325	127	.125	.1275	.1225	7.8
. \- 2 3	33	.335	128	.135	.1375	.1325	7.8
1 1 1 CA	34	.345	129	.145	.1475	.1425	7.8
SWA	35	.355	130	.155	.1575	.1525	7.8
4//-/	36	.365	131	.165	.1675	.1625	7.8
/// . '	37	.375	132	.175	.1775	.1725	7.8
à	38	.385	133	.185	.1875	.1825	7.8
Q: 50 R	39	.395	134	.195	.1975	.1925	7.8
	40	.405	135	.205	.2075	.2025	7.8
P = 100 2							

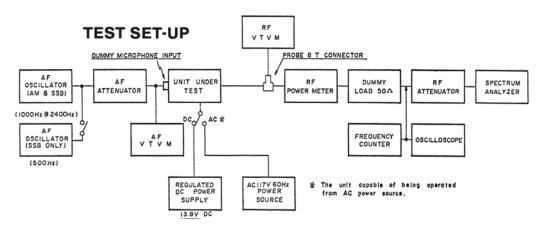


ALIGNMENT PROCEDURES

Test Equipment Required

- a) OSCILLOSCOPE
 b) D.C. VOLT METER
 c) VTVM
 d) RF WATTAGE METER
 e) FREQUENCY COUNTER
 f) 50 Ohm DUMMY ANTENNA LOAD
 g) SIGNAL GENERATOR
 h) D.C. CURRENT METER

(I) L39 Θ ОТРЗ 0 0 VRII Θ (D) Θ OOTP7 Θ Θ Θ TP2 TP1 9 9 ⊙L14 9 Θ LI3 ОТРЭ Θ O O TPII ОТРІО O CT2 CT1 L17 ET3 LZO LI9 VR3



STEP	SET TO	CONNECTIONS	ADJUST	ADJUST FOR		
REC	RECEIVER					
1	Channel 19. Volume; MAX. Squelch; MIN. Mode; USB NB/ANL; OFF RF GAIN; MAX. PA-CB; CB	Signal Generator To Antenna Jack (J405) at 27.185MHz w/No Modulation. Output Level; 0.25 uV.	Frequency of Signal Generator.	AF Output Signal of 1,000Hz at Clarifier Control In Middle Position.		
2	Same As Step 1	Same As Step 1.	L3,4,5,6, 7,8,9 & 10	Maximum AF Output Power.		
3	Same As Step 1 except AM Mode.	Signal Generator To Antenna Jack (J405) at 1 KHz w/30% Modulation. Output Level; 1 uV.	L3	Maximum Indication on VTVM.		
4	Same As Step 1	Signal Generator To Antenna Jack (J405) at 27.185MHz w/No Modulation. Output Level; 100 uV.	VR1	Reading of "9" on Signal Meter (M401).		
5	Same As Step 1 except Squelch; MAXIMUM	Signal Generator To Antenna Jack (J405) at 27.185MHz w/No Modulation. Output Level; 1,000 uV.	VR502	Adjust VR2 Until AF Signal Observed.		
6	Channel 19. Volume;MAX. Squelch;MIN. Mode;AM MB/ANL;ON RF GAIN;MAX.	Same As Step 5	L1,2	Maximum D.C. Voltage at TP8		
7	Same As Step 3, Except: CH. 9 SQ;MAX. CH. 9 SCAN;ON.	Same As Step 5	VR501	Until CH, 9 SCAN Starts.		

STEP	SET TO	CONNECTIONS	ADJUST	ADJUST FOR
P.L.L.	CIRCUIT			
1	Channel 40. AM,RX Mode. Clarifier Cont. in middle position.	VTVM To TP10.	L18	Maximum Indication on VTVM.
2	Same As Step 1	D.C. Volt Meter To TP9.	L13	Approx. 6 V on D.C. Volt Meter.
3	Channel 19. USB,RX Mode.	VTVM To Secondary Of L14 (TP1) Local Out.	L14	Maximum Indication on VTVM.
4	Same As Step 3	Frequency Counter To Secondary Of L14 (TP1).	стз	Reading of 34.9875MHz (<u>+</u> 20Hz) on Frequency Counter.
5	Channel 19. AM,RX Mode.	Same As Step 4.	L20	Same As Step 4.
6	Channel 19. LSB,RX Mode.	Same As Step 4.	L19	Same As Step 4.
7	Channel 19. LSB,TX Mode.	Same As Step 4.	VR3	Same As Step 4.
CARF	RIER OSCILLA	ATOR		
1	Channel 19. USB,RX Mode.	Frequency Counter To The Base Of TR13 (TP3).	СТ1	Reading of 7.8025MHz (+ 5Hz,-OHz) on Frequency Counter.
2	Channel 19. LSB,RX Mode.	Same As Step 1.	CT2	Reading of 7.7975MHz (+0Hz,-5Hz) on Frequency Counter.
3	Channel 19. AM,TX Mode.	Same As Step 1.	L17	Reading of 7.8000MHz (<u>+</u> 5Hz) on Frequency Counter.
TRAN	ISMITTER			
1	Channel 19. USB,TX Mode. No Modulation.	D.C. Current Meter To TP8.	VR8	Reading of 30 mA on Current Meter.
2	Same As Step 1	D.C. Current Meter To TP7	VR9	Reading of 60 mA on Current Meter.
3	Same As Step 1		VR5	Minimum Carrier Leakage.
4	Channel 19. LSB,TX Mode. No Modulation.		VR5	Same As Step 3.
5	Repeat Steps 3 & Leakage On Both I Leakage On Both.	4 To Obtain Approximately Equal Amount Of Carrier LSB & USB Modes, While Still Maintaining Minimum		
6	Channel 19. USB,TX Mode. AF Input of 2-Tone, Approx. 500 mV to Mic Jack.	Set VR7 Fully Clockwise. VTVM To Antenna Jack (J405)	L26,27, 28,29 & 36	Maximum Indication on VTVM.
7	Same As Step 6 w/RF Output of Approx. 4 W Peak Envelope Power.	Same As Step 6.	L26,27, 28 & 29	Maximum Indication on VTVM
8	Channel 19. AM,TX Mode. AF Input of 500 mV to Mic Jack.	Same As Step 6.	L36	Maximum Indication on VTVM.
9	Same As Step 6	VTVM To Antenna Jack (J405)	VR7	RF Output Power of Approximately 11 W Peak Envelope Power.
10	Channel 19. AM,TX Mode. No Modulation.		VR6	RF Carrier Power of 3.8 W.
11	Same As Step 6		VR10	Correct Reading on Built-In Meter (M401)
12	Same As Step 6 w/Meter (M401) In SWR Position.	Same As Step 6.	VR12	Correct Reading on Built-In Meter (M401)

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