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Craig L132 Service Manual

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SERVICE MANUAL

CRAIG®

L132

40 CHANNEL MOBILE SSB/AM CB TRANSCEIVER



SPECIFICATIONS

GENERAL

CHANNELS	AM 40; LSB 40; USB 40
FREQUENCY RANGE	26.965 to 27.405 MHz
FREQUENCY STABILITY	+130 Hz
MICROPHONE	Dynamic type
POWER SOURCE	13.8 Vdc pos. or neg. ground
CURRENT DRAIN	
RECEIVE:	1.0 A @ maximum audio output, 0.7 A @ standby (no signal)
TRANSMIT:	2.0 A @ AM full mod., 2.5 A, SSB 12 W PEP

TRANSMITTER

RF POWER OUTPUT	
AM:	4 W
SSB:	12 W peak envelope power
MODULATION CAPABILITY	100 %
FREQUENCY TOLERANCE	+0.003 % from -30 °C to +50 °C
SPURIOUS ATTENUATION	60 dB minimum
OUTPUT IMPEDANCE	50 Ohm
FILTER CIRCUIT	Crystal lattice 7.8 MHz filter
CARRIER SUPPRESSION	50 dB
UNWANTED SIDEBAND SUPPRESSION	60 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+B)/N
BANDWIDTH	6 KHz @ -6 dB
AGC	Change in audio output less than 10 dB from 6.0 uV to 1.0 volts
SQUELCH	Adjustable, threshold less than 0.5 uV Tight, more than 250 uV
OUTPUT POWER	2.5 W at 10 % THD
IMAGE REJECTION	Better than 75 dB
IF REJECTION	Better than 85 dB @ 7.8 MHz
ADJACENT CHANNEL REJECTION	Better than 60 dB
IF FREQUENCY	AM: 7.8 MHz SSB: 7.8 MHz
CLARIFIER RANGE	AM: +1,000 Hz SSB: ±1,000 Hz
NOISE-BLANKER	RF parallel gate type

P.A. SYSTEM

OUTPUT POWER	2.5 W
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NOTE: ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

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.

PARTS PRICE LIST

CRAIG KEY No.	DESCRIPTION	MFR's SUGG RET. PRICE
PACKAGING		
L132001	Individual Carton	3.35
L132002	Styrofoam, FRONT	1.30
L132003	Styrofoam, REAR	1.30
L132507	Microphone (Complete)	23.45
4101004	Bracket, Mic Mounting	.75
XFU004	Spare Fuse, 4A	1.00
L132100	Mounting Bracket (Unit)	3.80
L103212	Mounting Screw (Unit)	.40
L103231	Rubber Washer (Mtg Brkt)	.25
L132005	Mounting Hardware Kit	1.35
4101033	D.C. Power Plug w/Cord	3.50

A PRODUCT OF CRAIG CORPORATION

REF. No.	CRAIG KEY No.	DESCRIPTION	MFR's SUGG RET. PRICE
CABINET & CHASSIS (continued)			
1	NSP	Assy, Main Chassis	----
2	L132212	Expanding Insert M3	.25
3	NSP	Ground Lug	----
4	-----	Flange Nut M3	.25
5	-----	PH Screw M3x6	.25
6	L132050	Top Cover	5.10
7	L103100	Wool Tack	.25
8	NSP	Holder Washer	----
9	L132051	Bottom Cover	5.45
10A	L132010	Assy, FRONT ESCUTCHEON	9.75
10	L132011	Front Escutcheon	8.00
11	L132070	Window, Front Display	2.95
12	L132100	Mounting Bracket (Unit)	3.80
13	L103212	Mounting Screw (Unit)	.40
14	L103231	Rubber Washer (Mtg Brkt)	.25
15	NSP	Front Chassis	----
16	NSP	PCB Mounting Arm	----
17	NSP	Holder, D.C. Power Socket	----
18	NSP	Holder, Meter	----
19	L132430	Cushion, Meter Mount	.25
20	L103026	Knob, CHANNEL SELECT	1.40
21	L103027	Knob, CAL/MTR SW/CLAR/BAND SW	.90
22	L105027	Knob, VOL/MIC GAIN Cont	.80
23	L105026	Knob, SQUELCH Cont	.85
24	L103291	Spring Plate, Ch Sel Knob	.25
25	L105292	Spring Plate, Vol/Mic Knob	.25
26	L105291	Spring Plate, Squelch/RF Knob	.25
27	L103028	Push Button, PA/ANL/DIM/CH 9 Sw	.65
28	L132071	Optical Filter (Ch Display)	.40
29	L104380	Holder, LED TX/RX; Ch 9 Ind	.30
30	NSP	Model No./FCC/Serial No. Plate	----
31	L132380	Holder, LED Ch Ind	.25
32	-----	FH Screw M3x7	.25
33	-----	PH Screw M2.6x6	.25
34	-----	PH Screw M2.6x10	.25
35	-----	PH Screw M3x8	.25
36	-----	PH Tapp Screw M3x8	.25
37	-----	Hex Nut M2.6	.25
38	-----	Hex Nut M3	.25
39	-----	Lock Washer M2.6	.25
40	NSP	Rivet	----
**	L132005	Mounting Hardware Kit	1.35
41	4104004	Brkt, Mic Mounting	.65
42	-----	RH Tapp Screw M3.5x8	.25
43	-----	Lock Washer M3.5	.25
44	-----	RH Tapp Screw M5x10	.25
45	-----	Star Washer M5	.25
46	-----	Plastic PH Screw M3x6	.25
D63	MV13YH	Varistor	.80
D64	MV1Y	Varistor	.55
D401	UR202	LED, CHANNEL Ind	9.15
D402	TLRG101	LED, TX/RX Ind	2.05
D403	TLR124	LED, CHANNEL 9 Ind	.85
FC1	L103800	7 Lead Flexible Cable	.35
FC2	L103800	7 Lead Flexible Cable	.35
FC3	L132800	9 Lead Flexible Cable	.55
IC4	TA7222P	I.C. (AF POWER)	5.65
IC5	MB3756	I.C. (REGULATOR)	6.00
J401	L103609	Socket, P.A. Spkr Jack	.75
J402	L103609	Socket, External Spkr Jack	.75
J403	4101027	Socket, D.C. Power Conn	1.75
J404	L132607	Socket, Mic Connector	2.60
J405	L103607	Connector, Coaxial Antenna	1.80
M401	L105604	Meter, SIG/SWR/MOD	8.00
PC381	L132516	PCB w/Comp, LED CH Ind	8.20
PC389	L132517	PCB w/Comp, MIC JACK	4.20
PC584	L132518	PCB w/Comp, PUSH SW Assy	6.85
PC585	NSP	PCB w/Comp, MAIN	----
PC612	L132519	PCB w/Comp, CH SELECT SW	12.40
PL401	L103550	Pilot Lamp, Meter	1.05
S401	L132530	Rotary Sw, CH SELECT	10.90
S402	-----	Sw, POWER On/Off (See VR417)	----
S403	L132531	Rotary Sw, BAND SELECT	4.15
SW199	L132532	Assy, Push Switch	5.90
S404	L132533	Push Sw, PA/CB Select	1.70
S405	L132533	Push Sw, NB/ANL On/Off	1.70
S406	L132533	Push Sw, BRITE/DIM Select	1.70
S411	L132533	Push Sw, CH 9 (AUTO)	1.70
S408	L132531	Rotary Sw, METER Select	4.15
SP401	L132702	Speaker 8 Ohm/3W	5.70
SW199	L132532	Push Sw Assy (S404, 5, 6 & 11)	5.90
TR34	2SC1419	Transistor	2.50
TR39	2SC1306	Transistor	3.20
TR41	2SC1969	Transistor	8.70
VR401	-----	VR 100K, SQUELCH (See VR417)	----
VR402	L132570	VR 20K, CLARIFIER Cont	1.55
VR403	-----	VR 10K, VOLUME (See VR417)	----
VR404	-----	VR 10K, RF GAIN (See VR416)	----
VR405	-----	VR 1K, MIC GAIN (See VR416)	----
VR406	L132571	VR 5K, CALIBRATE Cont	1.50

REF. No.	CRAIG KEY No.	DESCRIPTION	MFR's SUGG RET. PRICE
CABINET & CHASSIS (continued)			
VR416	L132572	Assy, CONTROL	5.00
VR404		VR 10K, RF GAIN Cont	
VR405		VR 1K, MIC GAIN Cont	
VR417	L132573	Assy, CONTROL	5.80
VR401		VR 100K, SQUELCH Cont	
VR403		VR 10K, VOLUME Cont	
S402		Sw, POWER On/Off	
YD033	NSP	Mica Insulator	----
YD039	NSP	Mica Insulator	----
YD040	NSP	Mica Insulator	----
YY027	NSP	Insulation Sheet	----
YY036	L132330	Ceramic Bushing (TR Mtg)	.25
COILS, TRIMMERS & XFORMERS			
CT1,2,3	L132670	Trimmer Capacitor 20pF	1.40
L1	L132671	Trimmer (LA038)	.90
L2	L132672	Trimmer (LA179)	.90
L3	L132673	Trimmer (LA255)	.90
L4	L132674	Trimmer (LA263)	.90
L5	L132675	Trimmer (LA262)	.90
L6	L132676	Trimmer (LA257)	.90
L7	L132677	Trimmer (LA258)	.90
L8	L132678	Trimmer (LA259)	.90
L9	L132679	Trimmer (LA260)	.90
L10	L132680	Trimmer (LA261)	.90
L11	L132681	Inductor 470uH	.65
L12	L132682	Inductor 100uH	.65
L13	L132683	Trimmer (LA216)	.90
L14	L132684	Trimmer (LA195)	.90
L15,16	L132681	Inductor 470uH	.65
L17	L132685	Trimmer (LA217)	.90
L18	L132686	Trimmer (LA256)	.90
L19	L132685	Trimmer (LA217)	.90
L20	L105671	Trimmer (LA218)	.95
L21,22	L132681	Inductor 470uH	.65
L23,24	L132682	Inductor 100uH	.65
L25	L132687	Trimmer (LA219)	.90
L26	L132688	Trimmer (LA160)	.90
L27	L132689	Trimmer (LA220)	.90
L28	L132690	Trimmer (LA254)	.90
L29	L132691	Coil (LD096)	1.50
L30	L104675	Coil (LD087)	.50
L31	L132692	Coil (LD101)	.25
L32	L132693	Coil (LD098)	.40
L33	L104675	Coil (LD087)	.50
L34	L132693	Coil (LD098)	.40
L35	L132694	Trimmer (LC019)	.80
L36	L132695	Coil (LE051)	.25
L37,38	L132694	Trimmer (LC019)	.80
L39	L105670	Coil (LD113)	1.80
L40	L105672	Coil (LD077)	.25
L51,52	L132696	Coil (LD013)	.25
L401,402	L132697	Coil (LD089)	.50
L403	L105672	Coil (LD077)	.25
L404,405	L132641	Coil, AF Choke (TF151)	3.15
T1	L132641	Coil, AF Choke (TF151)	3.15
MISCELLANEOUS ELECTRICAL			
F401	XFU004	Fuse Spare, 4A	1.00
FT1	L132722	Assy, Crystal Filter	29.10
FC1	L103800	7 Lead Flexible Cable	.35
FC2	L103800	7 Lead Flexible Cable	.35
FC3	L132800	9 Lead Flexible Cable	.55
J401	L103609	Socket, PA Spkr Jack	.75
J402	L103609	Socket, External Spkr Jack	.75
J403	4101027	Socket, D.C. Power Conn	1.75
J404	L132607	Socket, Mic Connector	2.60
J405	L103607	Connector, Coaxial Antenna	1.80
M401	L105604	Meter, SIG/SWR/MOD	8.00
MIC1	L132507	Microphone (Complete)	23.45
PC381	L132516	PCB w/Comp, LED CH Ind	8.20
PC389	L132517	PCB w/Comp, MIC JACK	4.20
PC584	L132518	PCB w/Comp, PUSH SW Assy	6.85
PC585	NSP	PCB w/Comp, MAIN	----
PC612	L132519	PCB w/Comp, CH SELECT SW	12.40
PL401	L103550	Pilot Lamp, Meter	1.05
P401	4101033	D.C. Power Plug w/Cord	3.50
S401	L103530	Rotary Sw, CH SELECT	10.90
S402	-----	Sw, POWER On/Off (See VR417)	----
S403	L132531	Rotary Sw, BAND SELECT	4.15
SW199	L132532	Assy, Push Switch	5.90
S404	L132533	Push Sw, PA/CB Select	1.70
S405	L132533	Push Sw, NB/ANL On/Off	1.70
S406	L132533	Push Sw, BRITE/DIM Select	1.70
S411	L132533	Push Sw, CH 9 (AUTO)	1.70

REF. No.	CRAIG KEY No.	DESCRIPTION	MFR's SUGG RET. PRICE
MISCELLANEOUS ELECTRICAL (continued)			
S408	L132531	Rotary Sw, METER FUNCT Select	4.15
SP401	L132702	Speaker 8 Ohm/3W	5.70
SW199	L132532	Push Sw Assy (S404,5,6 & 11)	5.90
VR1	L105590	Semi-Fixed Res 10K Ohm	.65
VR2	L132590	Semi-Fixed Res 1K Ohm	.70
VR3	L132591	Semi-Fixed Res 3K Ohm	.70
VR5	L105590	Semi-Fixed Res 10K Ohm	.65
VR6	S609590	Semi-Fixed Res 5K Ohm	.70
VR7	L105590	Semi-Fixed Res 10K Ohm	.65
VR8	L104590	Semi-Fixed Res 500 Ohm	.65
VR9	S609590	Semi-Fixed Res 5K Ohm	.70
VR10	L132592	Semi-Fixed Res 100K Ohm	.85
VR401	-----	VR 100K, SQUELCH (See VR417)	-----
VR402	L132570	VR 20K, CLARIFIER Cont	1.55
VR403	-----	VR 10K, VOLUME (See VR417)	-----
VR404	-----	VR 10K, RF GAIN (See VR416)	-----
VR405	-----	VR 1K, MIC GAIN (See VR416)	-----
VR406	L132571	VR 5K, CALIBRATE Cont	1.50
VR416	L132572	Assty, Control	5.00
VR404	-----	VR 10K, RF GAIN Cont	-----
VR405	-----	VR 1K, MIC GAIN Cont	-----
VR417	L132573	Assty, Control	5.80
VR401	-----	VR 100K, SQUELCH Cont	-----
VR403	-----	VR 10K, VOLUME Cont	-----
S402	-----	Sw, POWER On/Off	-----
X1	L103722	Crystal (10.240 MHz)	4.55
X2	L132723	Crystal (7.8025 MHz)	4.55
X3	L132724	Crystal (7.7975 MHz)	4.55
X4	L132725	Crystal (11.2858 MHz)	4.55

SEMICONDUCTORS			
D1,2,9,25,26,48	1N60	Diode	.95
D3,4,5,6,7,8,10,11,12,13,14,15,18,19,20,21,22,23,24,27,28,29,31,32,33,34,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,55,56,57,61,62,69,70,71,72,74,404			
IS2075K	IS2075K	Diode	.35

REF. No.	CRAIG KEY No.	DESCRIPTION	MFR's SUGG RET. PRICE
SEMICONDUCTORS (continued)			
D16,17	MC301	Diode	1.05
D30	RD5.1EB2	Zener Diode	.40
D54	IS2687D	Vari-Cap Diode	1.05
D58,59	1N60P	Diode	.90
D63	MV13YH	Varistor	.80
D64	MV1Y	Varistor	.55
D66,68	1N4003	Diode	.65
D67	RD20EB1	Zener Diode	.45
D401	UR202	LED, CHANNEL Indicator	9.15
D402	TLRG101	LED, TX/RX Indicator	2.05
D403	TLR124	LED, CH 9 Indicator	.85
IC1	UHC070	I.C. (VCO)	10.90
IC2	UPD2824C	I.C. (PLL LSI)	11.25
IC3	AN612	I.C. (BM)	5.00
IC4	TA7222P	I.C. (AF POWER)	5.65
IC5	MB3756	I.C. (REGULATOR)	6.00
IC6	S042P	I.C. (MIX)	5.90
FET1	2SK19	FET	4.40
TR1,2,6,10,12,21,22,24,25,42	2SC710	Transistor	1.15
TR3,8,16	2SC1730	Transistor	1.10
TR4,5,11,13,15,20,27,32,33,35,37	2SC711	Transistor	.95
TR7,14,30,31	2SA628	Transistor	.95
TR9	2SC1674	Transistor	1.50
TR17,18	2SC763	Transistor	.50
TR19,23	2SC1675	Transistor	1.30
TR26,40	2SC496	Transistor	2.10
TR28	2SC945	Transistor	1.00
TR29,36	2SC1312	Transistor	.95
TR34	2SC1419	Transistor	2.50
TR38	2SC1973	Transistor	2.30
TR39	2SC1306	Transistor	3.20
TR41	2SC1969	Transistor	8.70

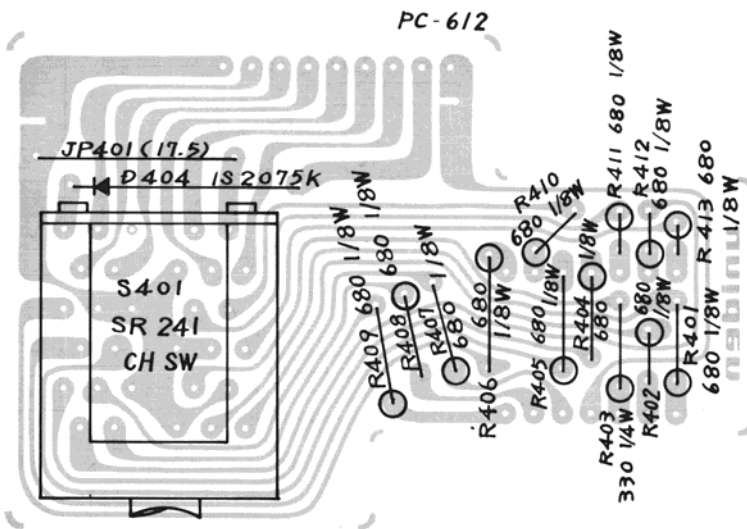
NOTE:

NSP; Non Serviceable Part

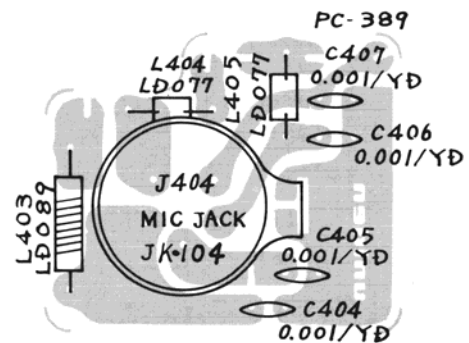
SUBJECT TO CHANGE WITHOUT NOTICE. USE ALL AVAILABLE NUMBERS AND COMPLETE DESCRIPTION WHEN ORDERING, INCLUDING MODEL NUMBER

THESE PRICES HAVE BEEN REVISED AS OF 4/30/80

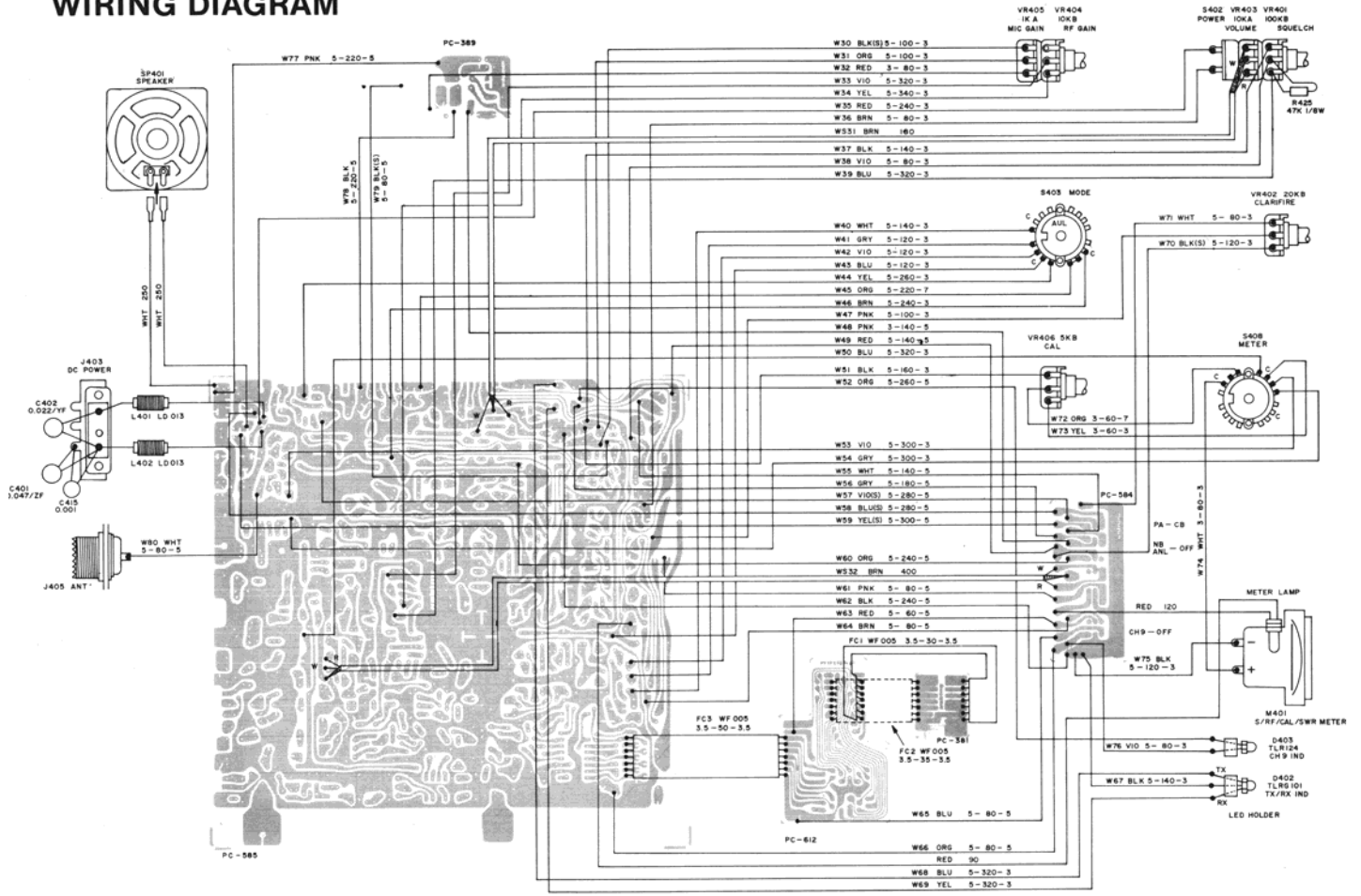
CHANNEL SELECT SWITCH PCB



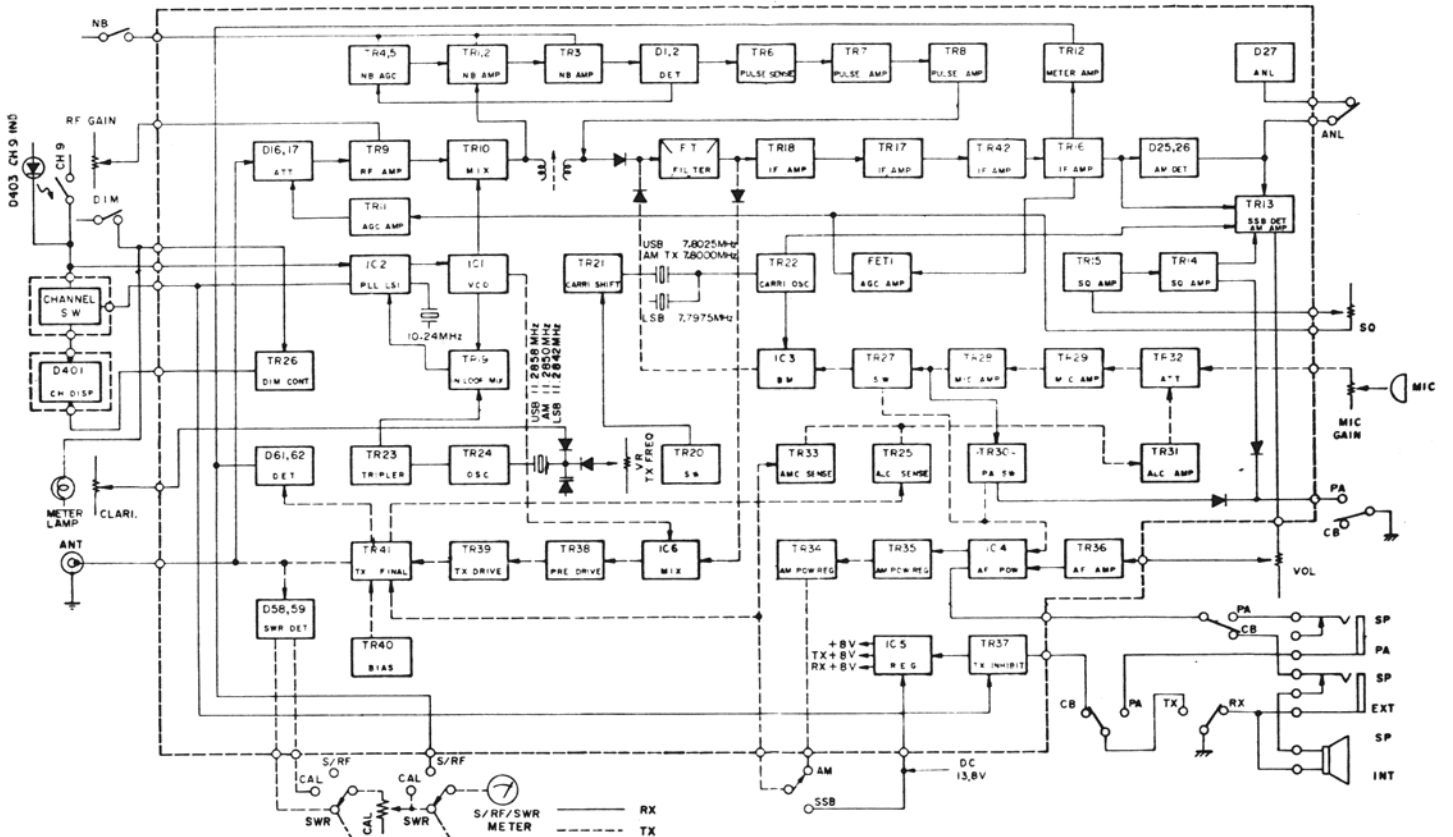
MIC JACK PCB



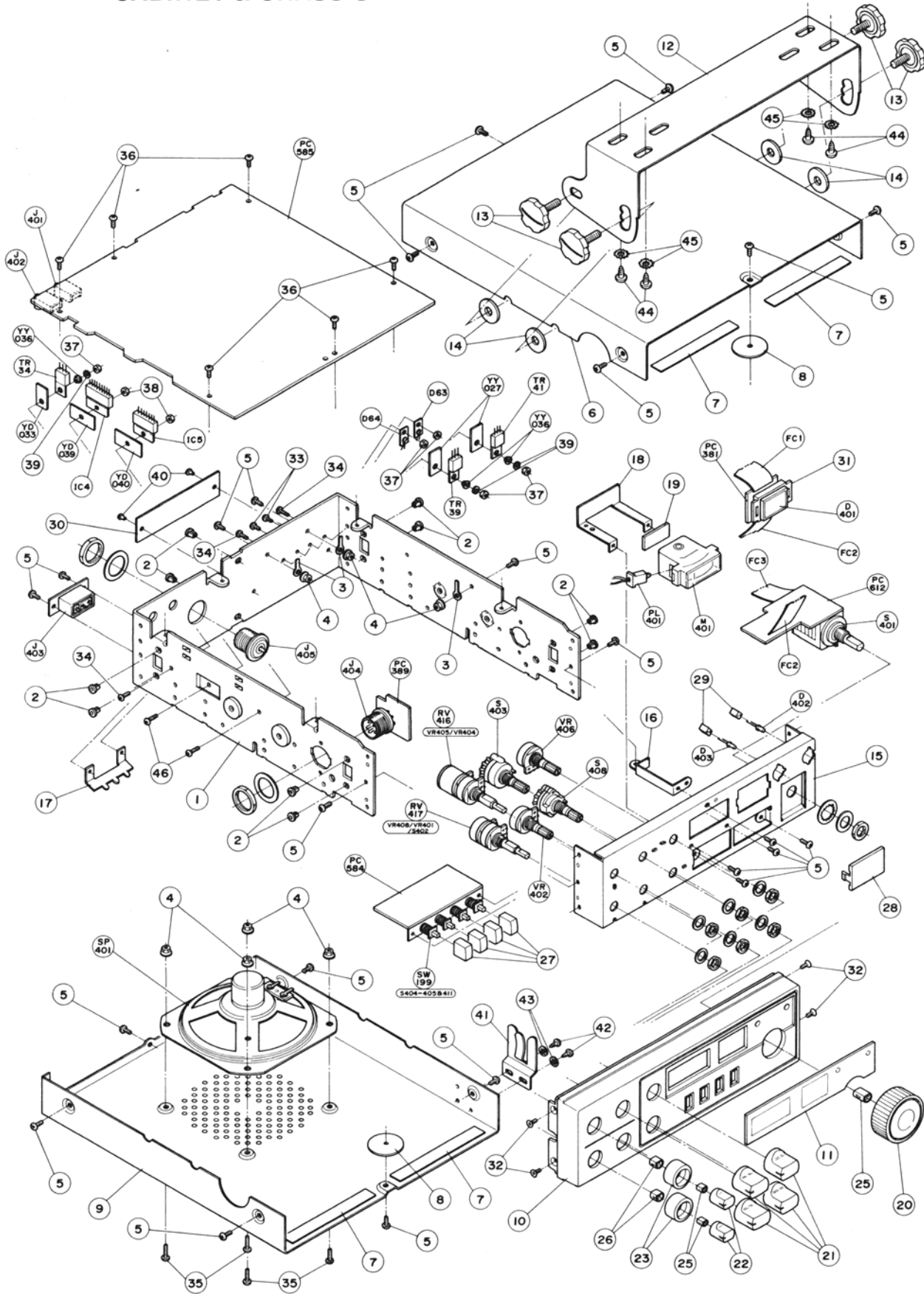
WIRING DIAGRAM



BLOCK DIAGRAM

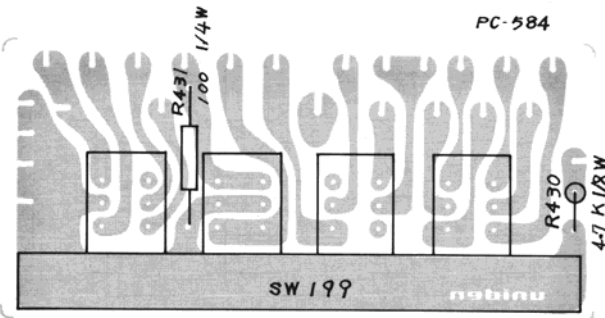


CABINET & CHASSIS



PUSH SWITCH ASS'Y PCB

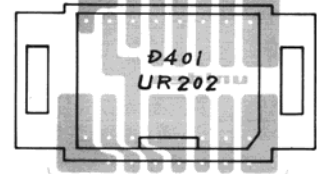
PC-584



CH 9	BRT	NB/ANL	PA
OFF	DIM	OFF	CB
S411	S406	S405	S404

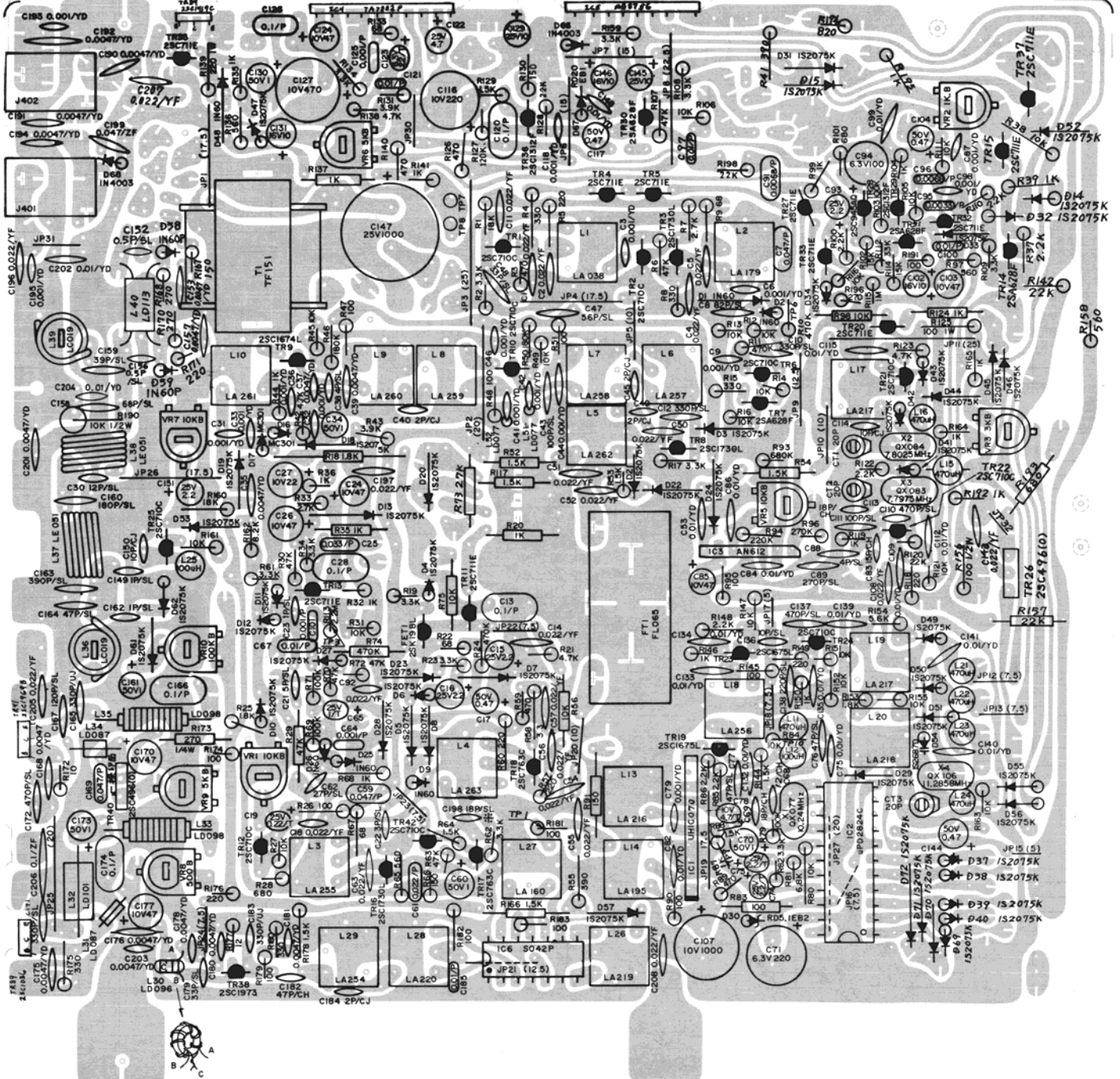
LED CHANNEL INDICATOR PCB

PC-381



MAIN PCB

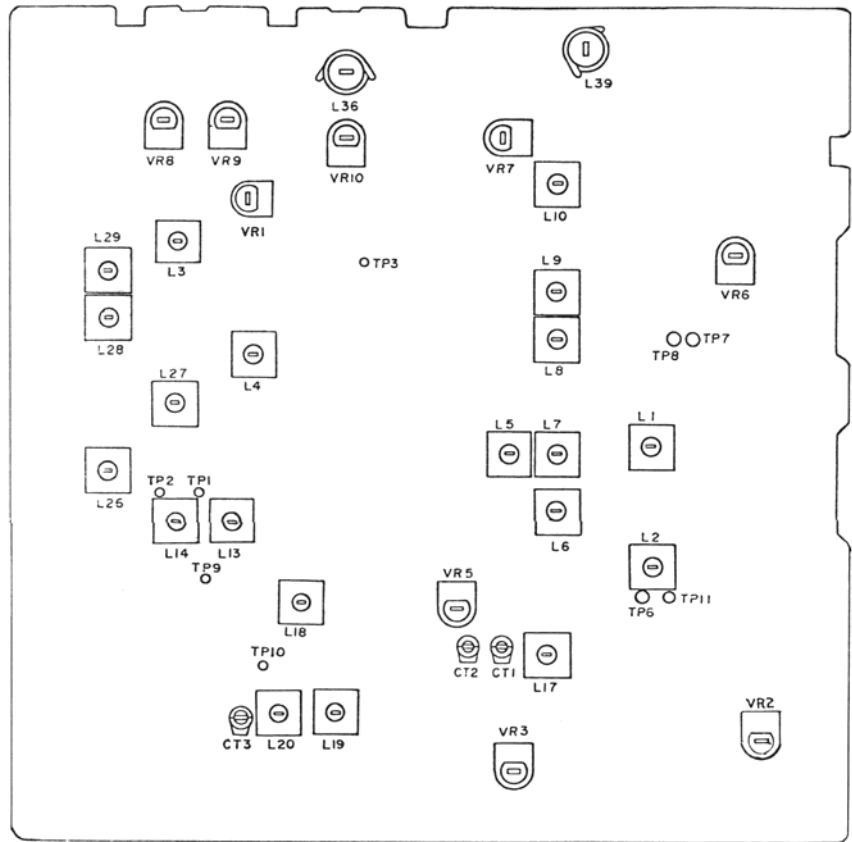
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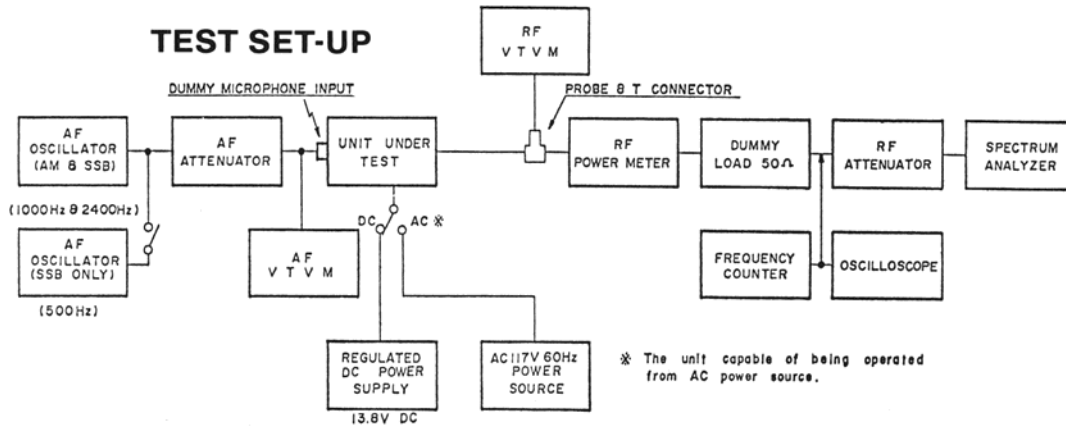
ALIGNMENT PROCEDURES

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



TEST SET-UP



* The unit capable of being operated from AC power source.

STEP	SET TO	CONNECTIONS	ADJUST	ADJUST FOR
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.	VR2	Adjust VR2 Until AF Signal Observed.
6	Channel 19. Volume; MAX. Squelch; MIN. Mode; AM NB/ANL; ON RF GAIN; MAX.	Same As Step 5	L1, 2	Maximum D.C. Voltage at TP6.

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).	CT3	Reading of 34.9875MHz (+ 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.
CARRIER OSCILLATOR				
1	Channel 19. USB,RX Mode.	Frequency Counter To The Base Of TR13 (TP3).	CT1	Reading of 7.8025MHz (+ 5Hz,-0Hz) 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 (+ 5Hz) on Frequency Counter.
TRANSMITTER				
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 & 4 To Obtain Approximately Equal Amount Of Carrier Leakage On Both LSB & USB Modes, While Still Maintaining Minimum Leakage On Both.			
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).