



SERVICE MANUAL

144MHz FM TRANSCEIVER

IC-2100H

IC-2100-T

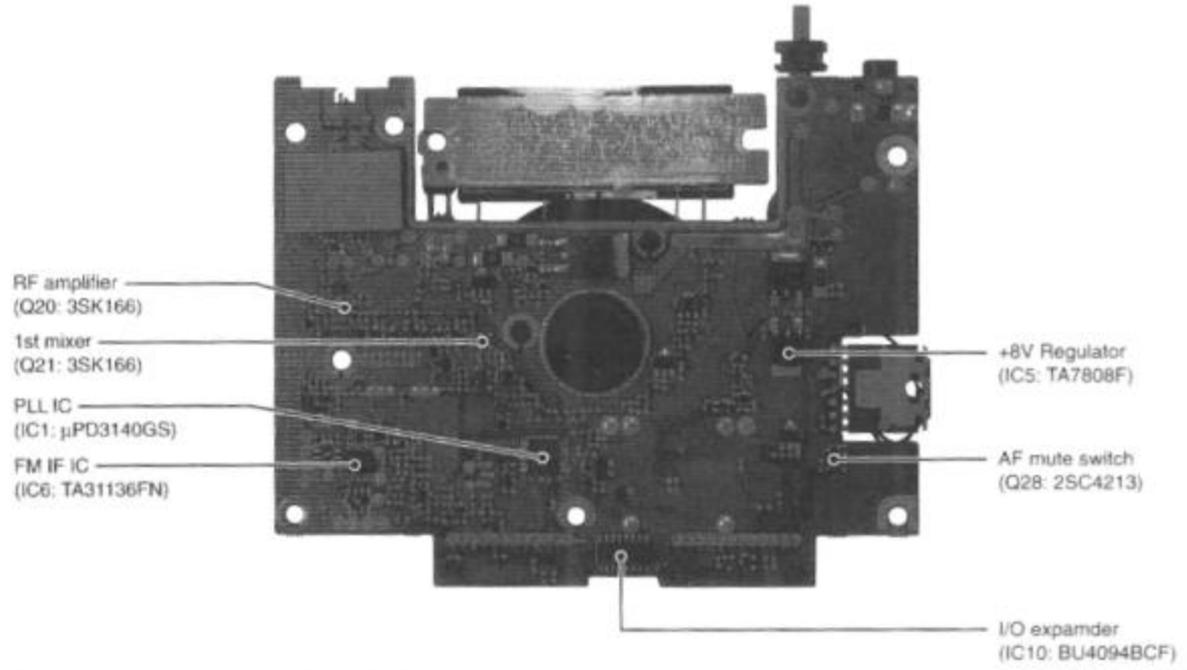
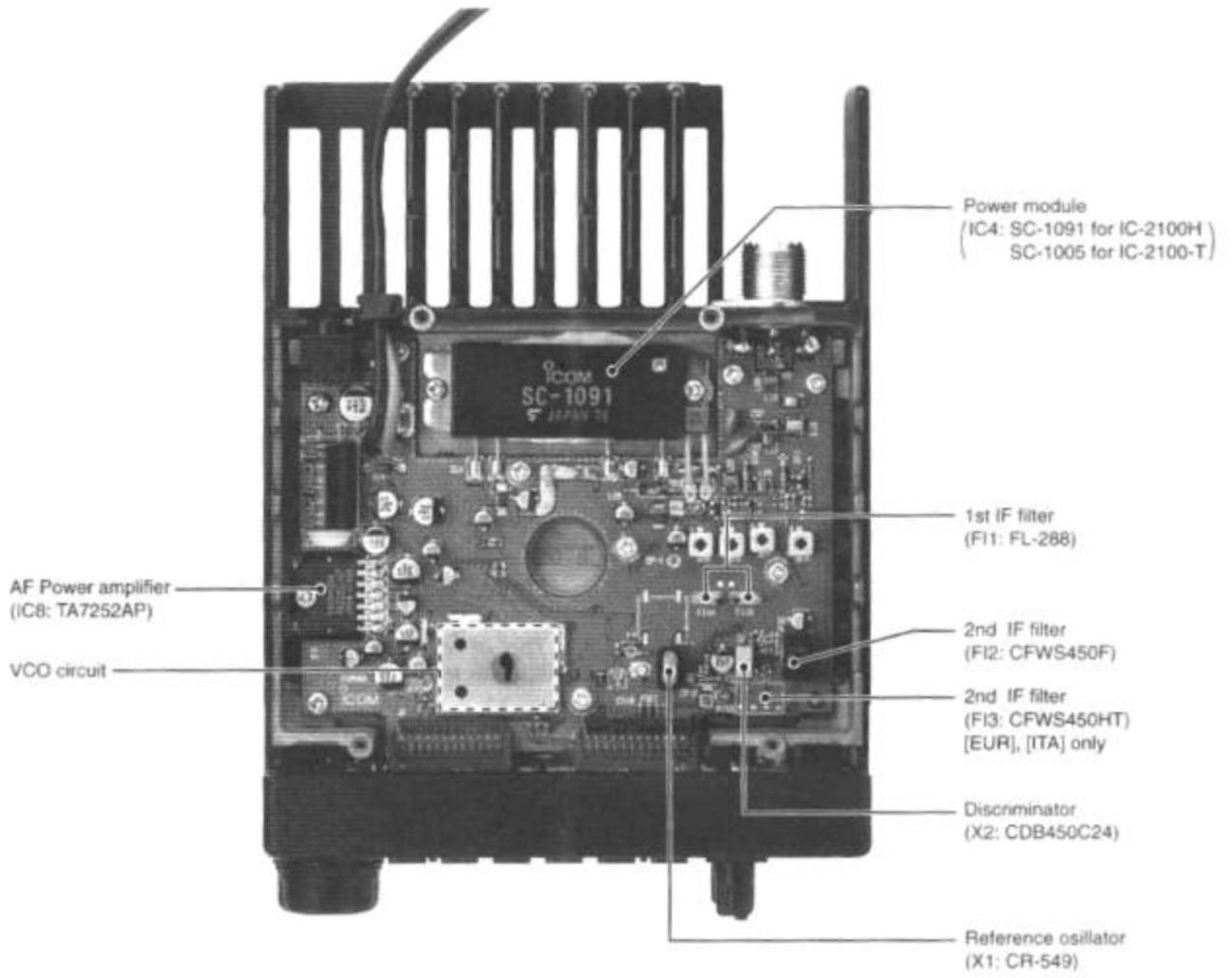


KB2LJJ

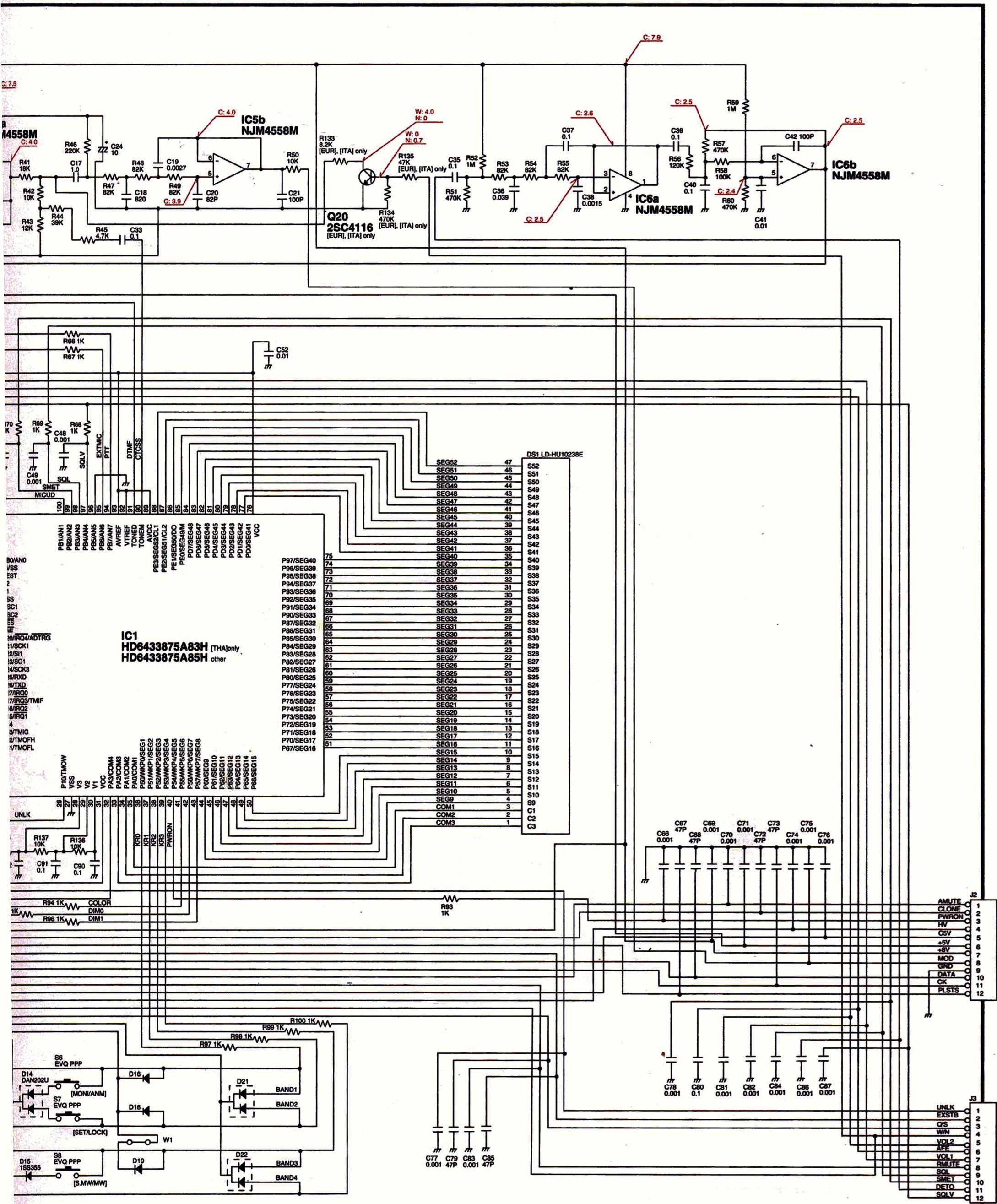
Radio
Mods
Manuals

SECTION 2 INSIDE VIEWS

• MAIN UNIT



Control Panel Right Page



SEG	Pin	SEG	Pin
SEG52	47	S52	1
SEG51	46	S51	2
SEG50	45	S50	3
SEG49	44	S49	4
SEG48	43	S48	5
SEG47	42	S47	6
SEG46	41	S46	7
SEG45	40	S45	8
SEG44	39	S44	9
SEG43	38	S43	10
SEG42	37	S42	11
SEG41	36	S41	12
SEG40	35	S40	1
SEG39	34	S39	2
SEG38	33	S38	3
SEG37	32	S37	4
SEG36	31	S36	5
SEG35	30	S35	6
SEG34	29	S34	7
SEG33	28	S33	8
SEG32	27	S32	9
SEG31	26	S31	10
SEG30	25	S30	11
SEG29	24	S29	12
SEG28	23	S28	1
SEG27	22	S27	2
SEG26	21	S26	3
SEG25	20	S25	4
SEG24	19	S24	5
SEG23	18	S23	6
SEG22	17	S22	7
SEG21	16	S21	8
SEG20	15	S20	9
SEG19	14	S19	10
SEG18	13	S18	11
SEG17	12	S17	12
SEG16	11	S16	1
SEG15	10	S15	2
SEG14	9	S14	3
SEG13	8	S13	4
SEG12	7	S12	5
SEG11	6	S11	6
SEG10	5	S10	7
SEG9	4	S9	8
COM1	3	C1	9
COM2	2	C2	10
COM3	1	C3	11

IC1
HD6433875A83H (THA)only
HD6433875A85H other

C67 47P
 C68 47P
 C69 0.001
 C70 0.001
 C71 0.001
 C72 47P
 C73 47P
 C74 0.001
 C75 0.001
 C76 0.001

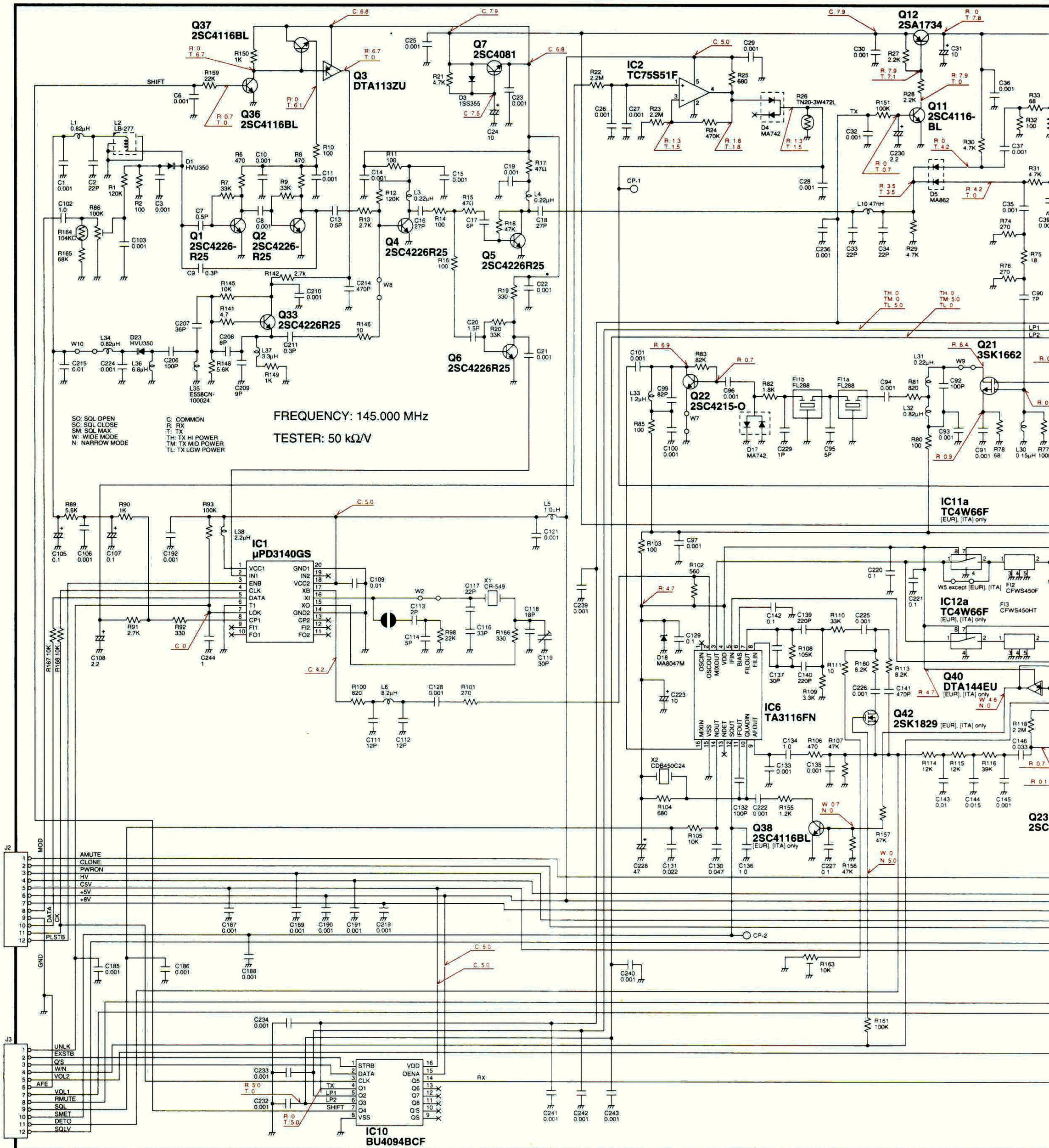
C77 0.001 47P
 C78 0.001 47P
 C79 0.001 47P
 C80 0.1
 C81 0.001
 C82 0.001
 C83 0.001
 C84 0.001
 C85 0.001

J2
 1 AMUTE
 2 CLONE
 3 PWRON
 4 HV
 5 +5V
 6 -5V
 7 MOD
 8 GND
 9 DATA
 10 CK
 11 PLSTS
 12

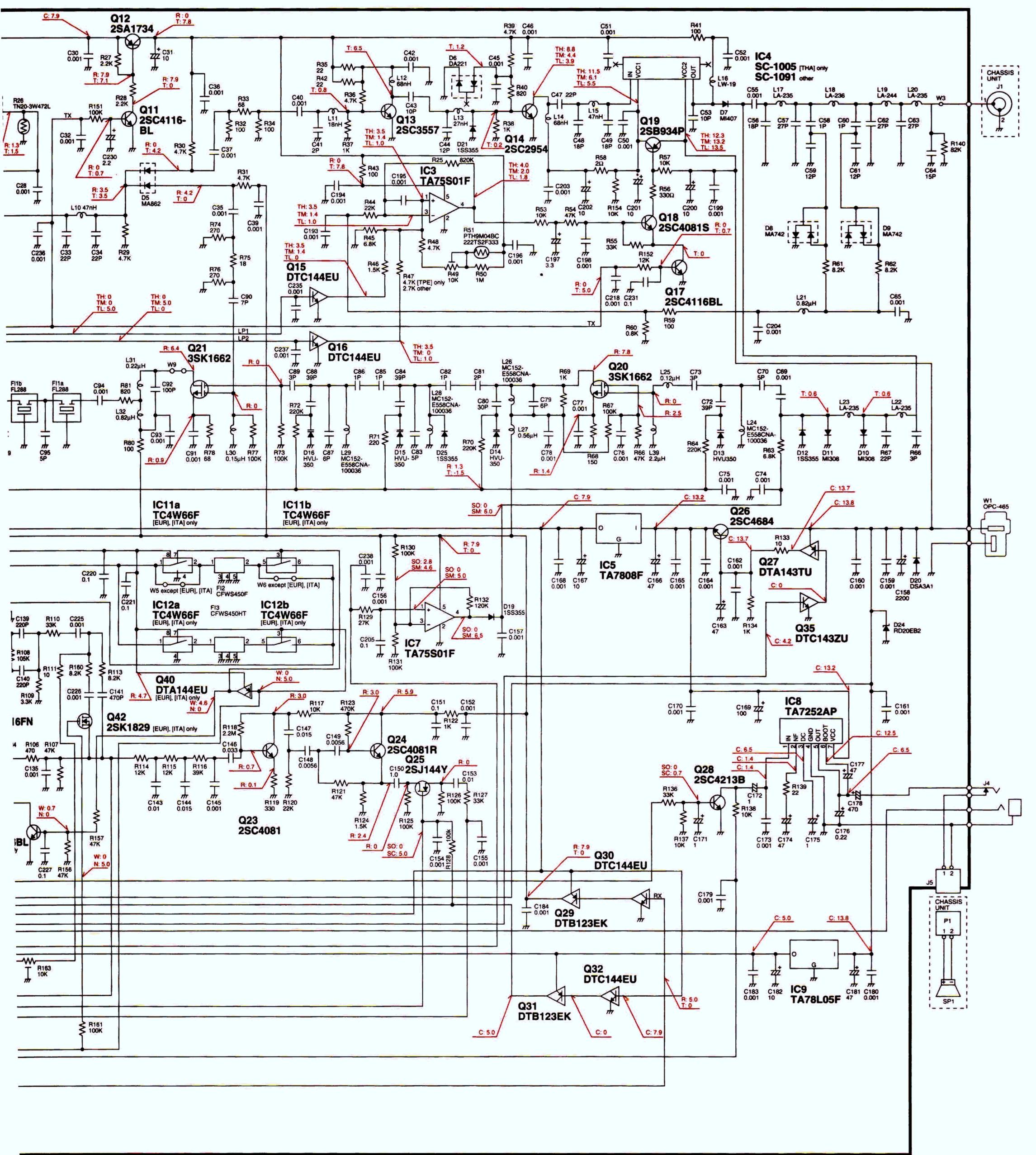
J3
 1 UNLK
 2 EXSTB
 3 QS
 4 WN
 5 VOL2
 6 AFE
 7 VOL1
 8 RMUTE
 9 SOL
 10 SMET
 11 DETO
 12 SOLV

• MAIN UNIT

Main diagram left

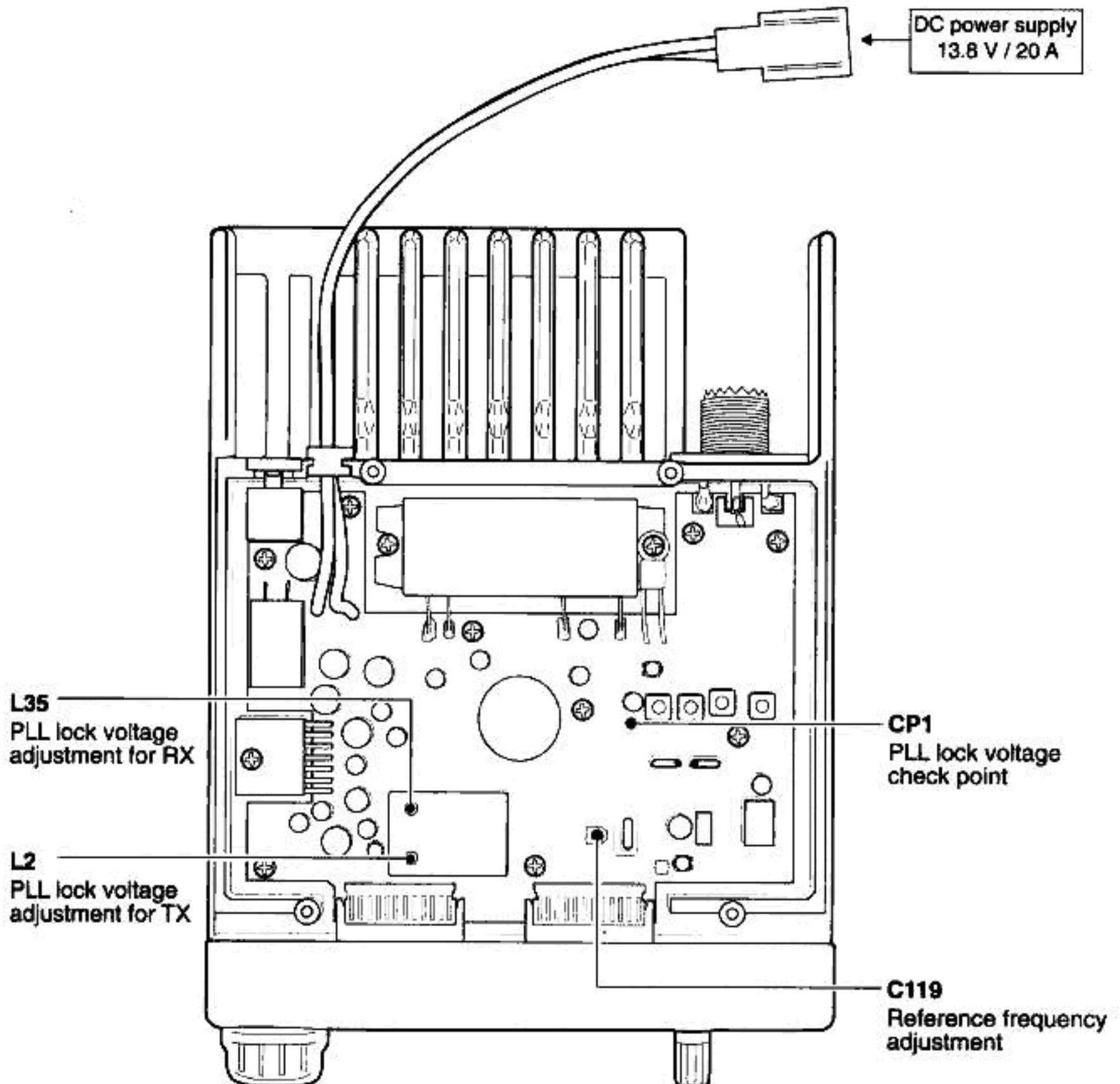


Main diagram right



4-2 PLL ADJUSTMENTS

ADJUSTMENT	ADJUSTMENT CONDITION	MEASUREMENT		VALUE	ADJUSTMENT POINT	
		UNIT	LOCATION		UNIT	ADJUST
PLL LOCK VOLTAGE	1 • Displayed frequency : 145.000 MHz • Receiving	MAIN	Connect a digital multi-meter or oscilloscope to the check point CP1.	1.25–1.30 V	MAIN	L35
	2 • Transmitting					1.45–1.55 V
PLL REFERENCE FREQUENCY	1 • Displayed frequency : 145.000 MHz [EUR, TPE, THA] 146.000 MHz [ITA, USA, SEA, LA] • Output power : Low • Transmitting	Rear Panel	Loosely couple the frequency counter to the antenna connector.	145.00000 MHz [EUR, TPE, THA] 146.00000 MHz [ITA, USA, SEA, LA]	MAIN	C119



DC power supply
13.8 V / 20 A

