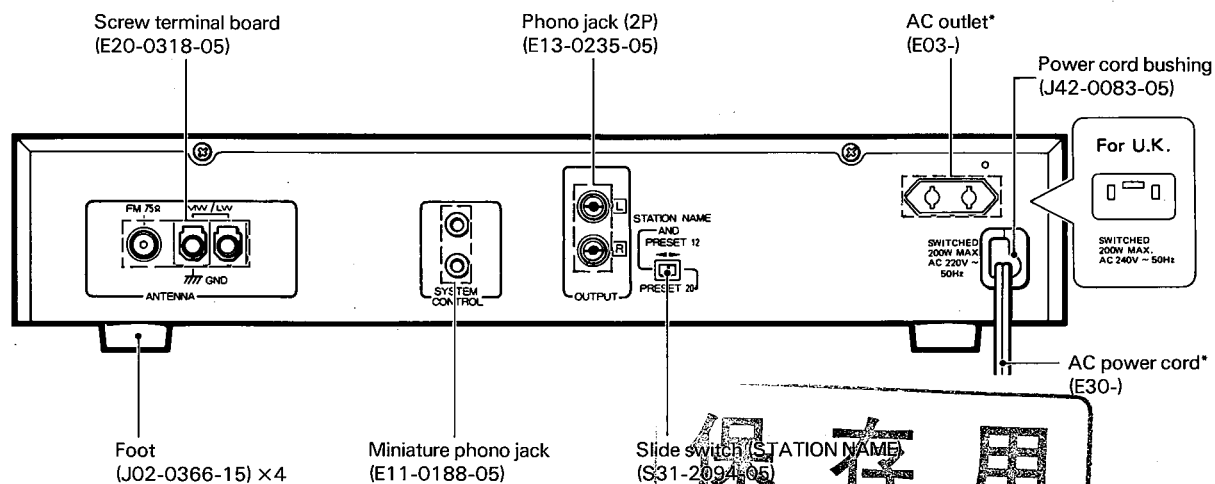
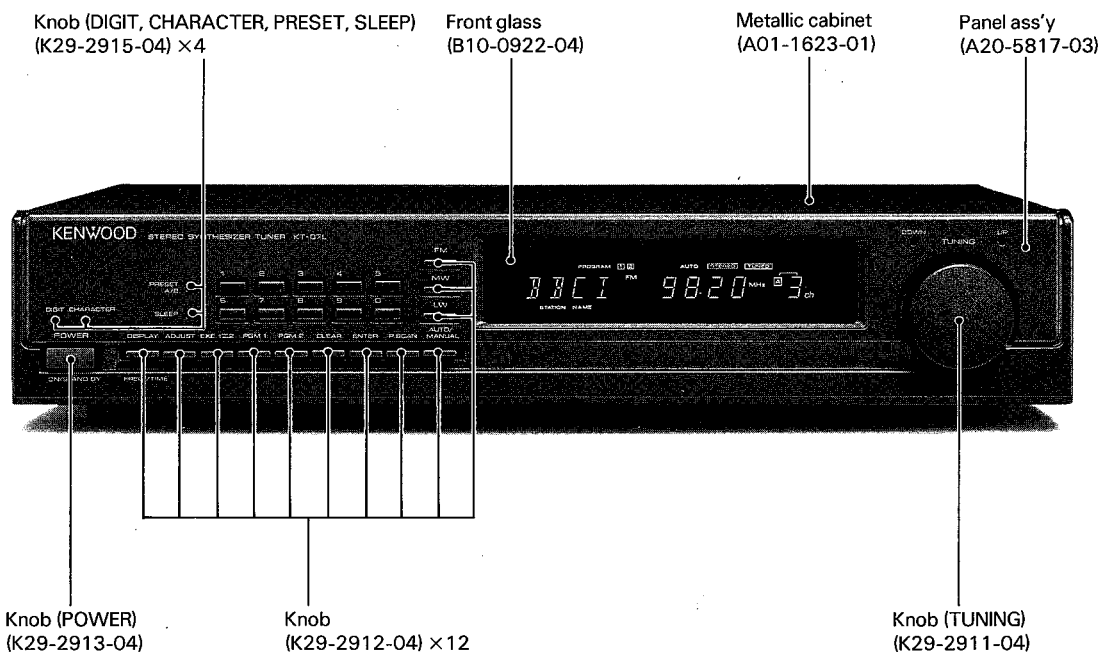




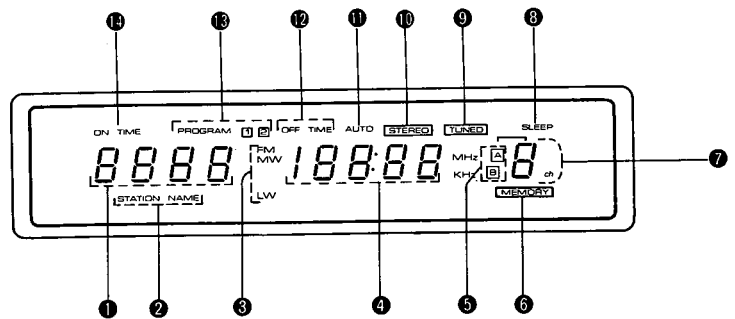
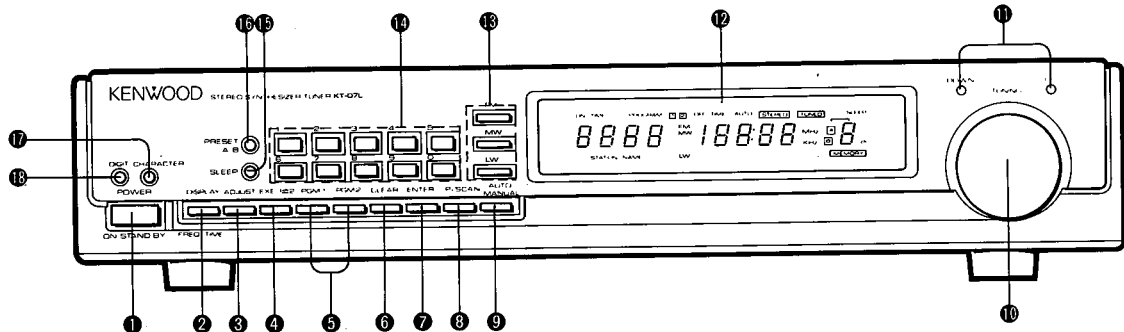
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CONTROL AND INDICATOR



Main unit front side

- ❶ POWER switch
- ❷ DISPLAY key
- ❸ Timer adjust key (ADJUST)
- ❹ Program 1/2 change key (EXE 1 ⇄ 2)
- ❺ Program 1, 2 key (PGM-1, PGM-2)
- ❻ CLEAR key
- ❼ ENTER key
- ❽ Preset scan key (P.SCAN)
- ❾ AUTO/MANUAL key
- ❿ Tuning/character selection knob (TUNING)
- ⓫ Tuning UP/DOWN indicator
- ⓬ Display
- ⓭ Band select key (FM/MW/LW)
- ⓮ 10 keys (1 ~ 0)
- ⓯ SLEEP timer key
- ⓰ PRESET A/B change key
- ⓱ CHARACTER key
- ⓲ DIGIT key

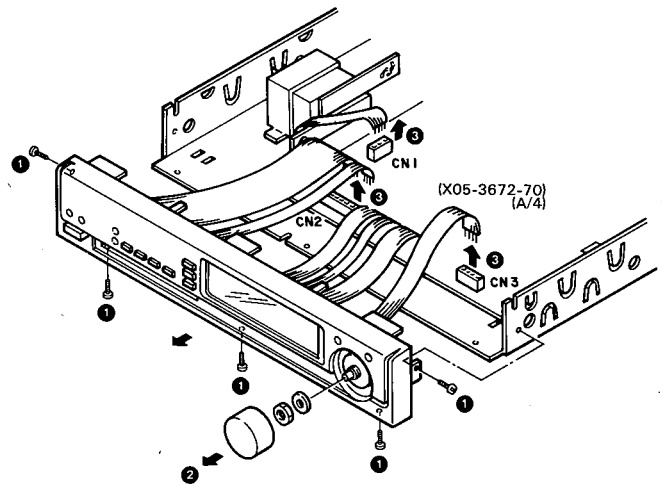
Display

- ❶ On time/station name/present time display
- ❷ STATION NAME indicator
- ❸ FM/MW/LW indicator
- ❹ Off time/frequency display
- ❺ Preset A, B indicator ([A] , [B])
- ❻ Memory indicator ([MEMORY])
- ❼ Preset channel display
- ❽ SLEEP timer indicator
- ❾ Tuned indicator ([TUNED])
- ❿ Stereo indicator ([STEREO])
- ⓫ AUTO indicator
- ⓬ OFF TIME indicator
- ⓭ Program 1, 2 indicator ([PROGRAM] 1 , 2)
- ⓮ ON TIME indicator

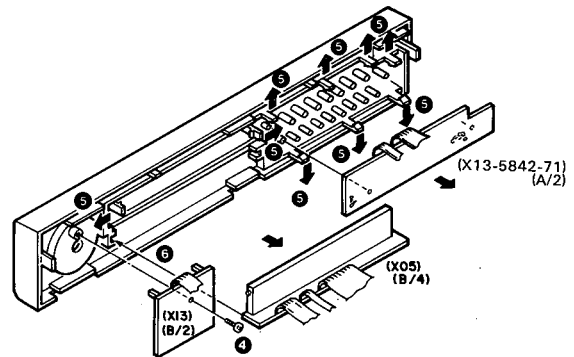
DISASSEMBLY FOR REPAIR

(Detach the case beforehand.)

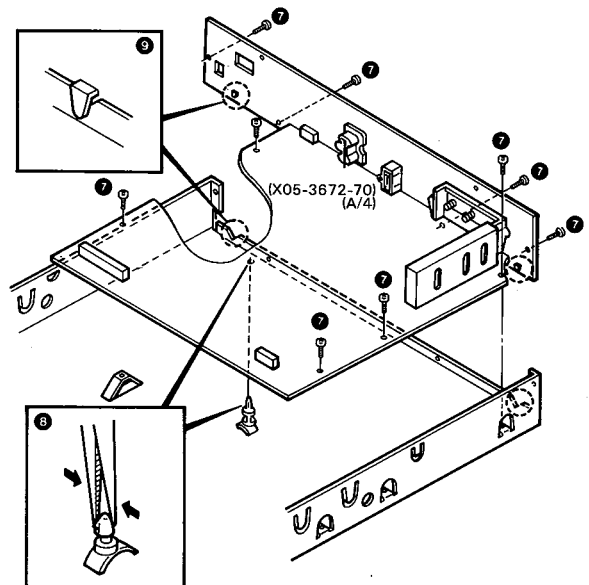
1. Remove the five screws **1** holding the front panel to the chassis, then take out the front panel in the direction of the arrow.
2. Draw out the TUNING knob **2**. Then, remove the hexagonal nut and its accompanying washer.
3. Disconnect the parallel cords **3** connected to CN1, CN2 and CN3 in the tuner unit (X05-3672-70) (A/4).



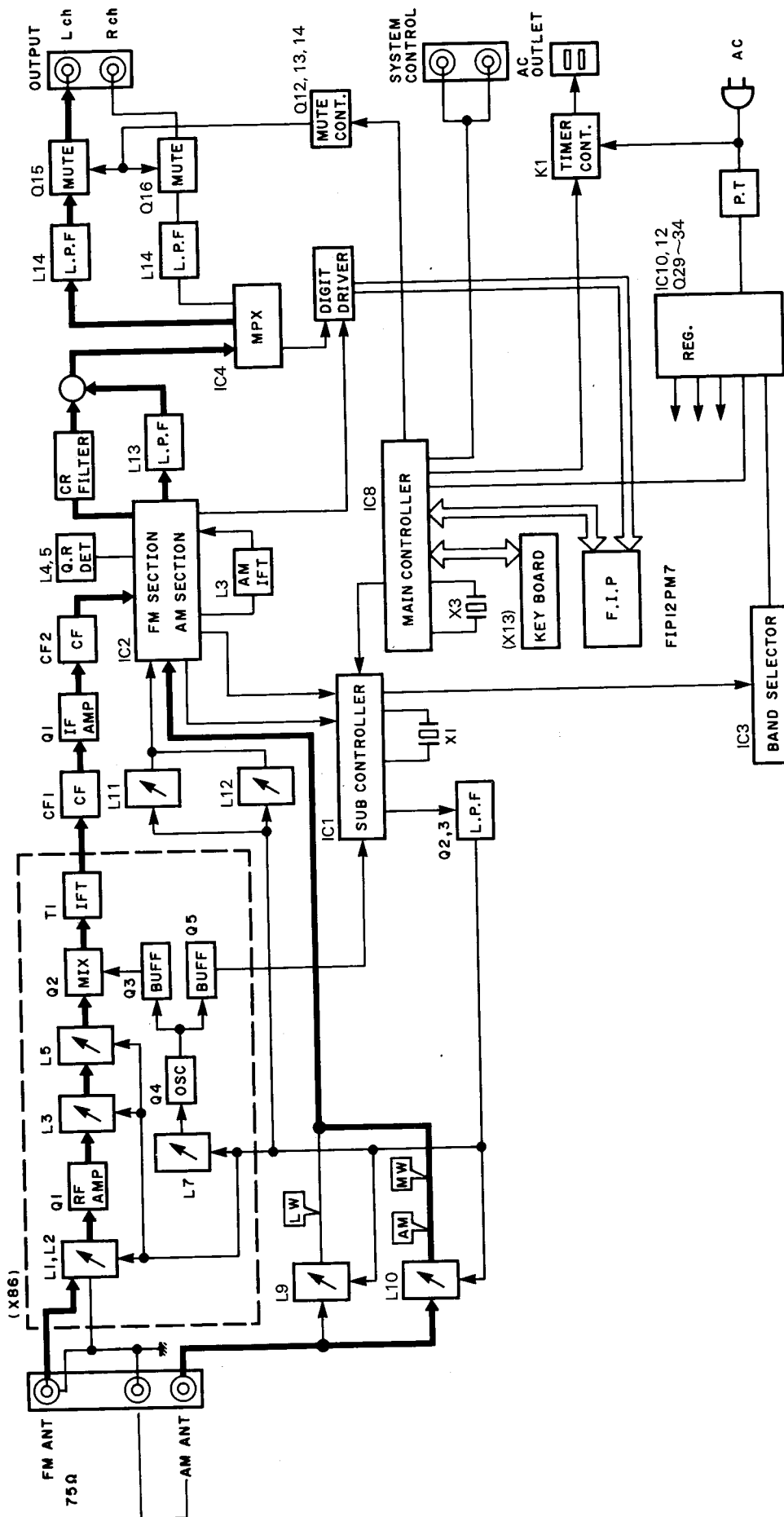
4. Remove the one screw **4** holding the switch unit (X13-5342-71) (B/2) to the front panel.
5. Undo the nine catches on the surface side of the front panel, then take out the tuner unit (X05-) (B/4) to which the FL tube is attached and take out the switch unit (X13-) (A/4) **5**.
6. (Precaution when assembling):
When setting in the FL tube to the front panel, put the tuner unit (X05-) (B/4) into the concave part of the escutcheon of the front panel as shown on the right. **6**



7. Remove the five screws holding the tuner unit (X05-) (A/4) to the chassis and the four screws holding the rear panel to the chassis. **7**
8. Crush flat the head portion of the unit holder holding the tuner unit (X05-) (A/4) to the chassis with radio pliers, then take out the tuner unit. **8**
9. (Precaution when assembling):
When setting in the rear panel to the chassis, put the two catches of the rear panel into the concave part of the chassis surely. **9**



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Description of component Tuner unit (X05-3672-70)

Components	Parts No.	Use/Function	Operation/Condition/Interchangeability
IC1	LM7001	PLL IC	Electronic tuning PLL
IC2	LA1265	FM/AM system IC	FM IF amplification/detection and AM MIX IF amplification/detection control
IC3	LA7910	Tuner band selection IC	FM/MW/LW mode selection
IC4	AN7470	FM MPX IC	MPX demodulation
IC8	CXP5016-210S	Microprocessor	System control
IC10	μ PC7805HF	Regulator	Regulated power supply for microprocessor
IC12	M5223P	Regulated power supply	5 V/12 V regulated power supply
IC13	TC4013BP	LED ON	Tuning up/down detection control
IC14	M5223P	LED ON	Tuning up/down flicker control
Q1	2SC1923 (R, O)	FM IF amplifier	IF amplification
Q2	2SC1740S (Q, R), 2SC945 (A) (Q, P)	L.P.F	PLL L.P.F
Q3	2SC1845 (F, E)		
Q4	2SC1740S (Q, R), 2SC945 (A) (Q, P)	AM/FM selection	IC2 mode selection, AM position at OFF mode
Q5	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Selection switch	LW coil selection, LW operation at ON
Q6	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Buffer	Impedance conversion
Q7	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Selection switch	MW coil selection, MW operation at ON
Q8	2SA733 (A) (Q, P), 2SA933S (Q, R)	Inversion amplifier	Auto stop control SD signal
Q9	2SK364 (GR, BL)	Selection switch	LW OSC coil selection, LW operation at ON
Q10	2SA733 (A) (Q, P), 2SA933S (Q, R)	Constant voltage	CE control
Q11	2SK364 (GR, BL)	Selection switch	MW OSC coil selection, MW operation at ON
Q12	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Control	Controls Q13 by the mute signal from Microprocessor.
Q13	2SA733 (A) (Q, P), 2SA933S (Q, R)	Mute driver	Operates at the time of function selection.
Q14	2SA733 (A) (Q, P), 2SA933S (Q, R)	Mute buffer	Operates at the time of function selection.
Q15, 16	2SD1302 (S, T)	Mute control	Operates at the time of function selection.
Q18	2SC1740S (Q, R), 2SC945 (A) (Q, P)	FIP driver	FIP display
Q19	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Switch	Reset control
Q20, 21	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Switch	Tuning up/down display LED control (Q20: down, Q21: up)
Q22	2SA933S (Q, R)	LED ON	For LED power supply
Q23	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Switch	LED faulty lighting prevention
Q24	2SA733 (A) (Q, P), 2SA933S (Q, P)	Switch	Q25 power ON/OFF
Q25	2SA733 (A) (Q, P), 2SA933S (Q, P)	FIP driver	TUNED display driver
Q26	2SA733 (A) (Q, P), 2SA933S (Q, P)	FIP driver	STEREO display driver
Q28	2SA733 (A) (Q, P), 2SA933S (Q, P)	Presetting change	20-ch preset/12-ch preset station name change
Q29	2SD1266 (Q, P)	Constant voltage	+5 V regulated power supply

CIRCUIT DESCRIPTION

Tuner unit (X05-3672-70)

Components	Parts No.	Use/Function	Operation/Condition/Interchangeability
Q30	2SD1266 (Q, P)	Constant voltage	+12 V regulated power supply
Q31	2SB764 (E, F)	Switch	Power ON/OFF control
Q32	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Constant voltage	+20 V regulated power supply
Q33	2SD863 (E, F)		
Q34	2SA733 (A) (Q, P), 2SA933S (Q, R)	Switch	Power ON/OFF control
Q35	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Switch	Controls Q31 and Q34 under the control of microprocessor.
Q36	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Switch	Q37 control, LW operation at ON
Q37	2SK364 (GR, BL)	L.P.F selection	Time constant selection in LW mode
Q38	2SC1740S (Q, R), 2SC945 (A) (Q, P)	Switch	LED faulty lighting prevention (at power ON)

Front-end unit (X86-1050-00)

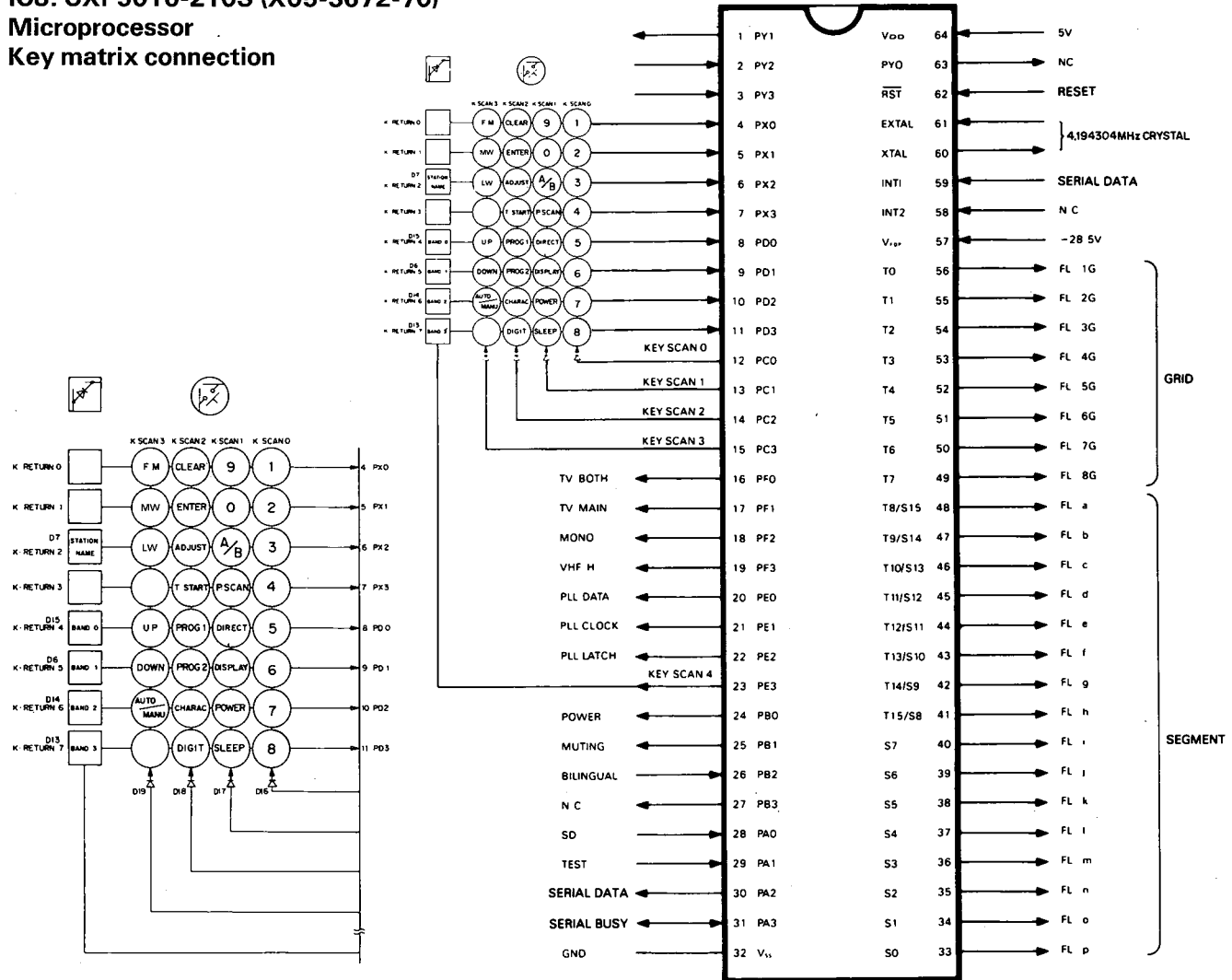
Components	Parts No.	Use/Function	Operation/Condition/Interchangeability
Q1	2SK302 (Y, GR)	FR Amp	
Q2	3SK131 (M, L)	FM Mixer	
Q3	2SK302 (Y, GR)	TUNED buffer	
Q4	2SC2714 (R, O)	OSC buffer	
Q5	2SC2714 (R, O)	OSC	

CIRCUIT DESCRIPTION

IC8: CXP5016-210S (X05-3672-70)

Microprocessor

Key matrix connection



Functions of diodes and switches

(0: Without diode, 1: With diode)

Destination Type	Set Switches				Band	Receiving Frequency Range	Inter-Channel Space	Intermediate Frequency	PLL IC1 (LM7001)				μ-Com IC Port	Auto Tuning
	B3	B2	B1	B0					PLL Reference Frequency	PLL Input Terminal	PLL Port			
											B02 ⁽²⁾	B03 ⁽²⁾		
K	1	0	0	0	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	50kHz	FMIN	H	L	L	o
					AM	530kHz-1610kHz	10kHz	+450kHz	10kHz	AMIN	L	H	L	o
E1	1	*1	0	0	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	50kHz	FMIN	H	L	L	o
					AM	531kHz-1602kHz	9kHz	+450kHz	9kHz	AMIN	L	H	L	o
E2	1	1	0	1	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	50kHz	FMIN	H	L	L	o
					MW	531kHz-1602kHz	9kHz	+450kHz	9kHz	AMIN	L	H	L	o
					LW	153kHz-281kHz	1kHz	+450kHz	1kHz	AMIN	H	H	L	o
E3	1	1	**1	1	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	50kHz	FMIN	H	L	L	o
					MW	531kHz-1602kHz	9kHz	+450kHz	9kHz	AMIN	L	H	L	o
					LW	153kHz-281kHz	1kHz	+450kHz	1kHz	AMIN	H	H	L	**x

* The KT-07L Types M,U and UE are modified into Types E1 or K by switching the inter-channel space with the CHANNEL SPACE SW (S31) on the rear panel and by adding a diode (1SS133) for BAND 2.

Before switching, turn the AC off (by pulling out the power plug), switch the switch, and turn AC on again.

If the AC power is left ON, switching the switch does not change the destination.

** With the KT-07L (France made), a diode (ISS 133) is added for BAND 1 to perform manual tuning in LW only.

CIRCUIT DESCRIPTION

Terminal description CXP5016-210S

Terminal No.	Symbol	Name	I/O	H/L	Function																				
1	PY1	N.C.	O	H	Not used. On the PC board, make it capable of being pulled up using a resistor.																				
2	PY2	C.E.	I	H	Backup (AC OFF) detection terminal. When L level is detected, the backup condition is set and the clock is stopped. Note: The rise from L to H shall be faster than the rise of reset. H: AC ON L: AC OFF																				
3	PY3	N.C.	I	—	Not used. Pull down with the GND or a resistor.																				
4-11	PX0 ~ PD3	KEY RETURN 0 ~ 7	I	H	Key return input. All pulled down (10k to 100k) H: AC ON L: AC OFF																				
12 ~ 15	PC0 ~ PC3	KEY SCAN 0 ~ 3	O	H	Key scanning signals.																				
16	PF0	TV BOTH	O	H/L	TV bilingual multiplexed audio mode control terminals. (Not used.) <table><tr><th>Port</th><th>PFO ⑮</th><th>PF1 ⑰</th></tr><tr><th>Mode</th><td></td><td></td></tr><tr><td>MAIN</td><td>L</td><td>H</td></tr><tr><td>SUB</td><td>H</td><td>L</td></tr><tr><td>BOTH</td><td>H</td><td>H</td></tr></table>	Port	PFO ⑮	PF1 ⑰	Mode			MAIN	L	H	SUB	H	L	BOTH	H	H					
Port	PFO ⑮	PF1 ⑰																							
Mode																									
MAIN	L	H																							
SUB	H	L																							
BOTH	H	H																							
17	PF1	TV MAIN	O	H/L																					
18	PF2	MONO	O	H	Mono/Auto stereo control terminal. Permanently L during TV bilingual reception. H: MONO L: AUTO STEREO																				
19	PF3	VHF H	O	H/L	Band selection control terminal. Selects the band by the combination with BO2 ⑧ and BO3 ⑨ of PLL IC. <table><tr><th>Port</th><th>BO2 ⑧</th><th>BO3 ⑨</th><th>PF3 ⑰</th></tr><tr><th>Mode</th><td></td><td></td><td></td></tr><tr><td>FM</td><td>H</td><td>L</td><td>L</td></tr><tr><td>AM</td><td>L</td><td>H</td><td>L</td></tr><tr><td>LW</td><td>H</td><td>H</td><td>L</td></tr></table>	Port	BO2 ⑧	BO3 ⑨	PF3 ⑰	Mode				FM	H	L	L	AM	L	H	L	LW	H	H	L
Port	BO2 ⑧	BO3 ⑨	PF3 ⑰																						
Mode																									
FM	H	L	L																						
AM	L	H	L																						
LW	H	H	L																						
20	PE0	PLL DATA	O	H	PLL IC data output. Connected to LM7001 DATA ⑤ terminal.																				
21	PE1	PLL CLOCK	O	H	PLL IC clock output. Connected to LM7001 CLK ④ terminal.																				
22	PE2	PLL LATCH	O	H	PLL IC latch output. Connected to LM7001 CE ③ terminal.																				
23	PE3	KEY SCAN 4	O	H	Key scanning signal.																				
24	PB0	POWER	O	H	Relay control terminal. H: POWER ON L: POWER OFF																				
25	PB1	MUTING	O	H	Muting control during band switching, frequency scanning, etc. H: MUTE ON L: MUTE OFF																				
26	PB2	BIL	I	H																					
27	PB3	N.C.	O	—	Not used. Pull down with a resistor.																				
28	PA0	SD	I	H	Stop signal input for auto tuning. H: TUNE L: NO SIGNAL																				
29	PA1	TEST	I	L	Test mode setting input. H: NORMAL L: TEST																				
30	PA2	SDATA	O	H	System control DATA output.																				
31	PA3	SBUSY	I/O	H	System control BUSY input/output.																				
32	Vss	GND	—	—	GND terminal.																				
33	S0	p	O	H	FL segment drive terminal (FL segment terminal p)																				
34	S1	o	O	H	FL segment drive terminal (FL segment terminal o)																				
35	S2	n	O	H	FL segment drive terminal (FL segment terminal n)																				
36	S3	m	O	H	FL segment drive terminal (FL segment terminal m)																				
37	S4	l	O	H	FL segment drive terminal (FL segment terminal l)																				
38	S5	k	O	H	FL segment drive terminal (FL segment terminal k)																				
39	S6	j	O	H	FL segment drive terminal (FL segment terminal j)																				
40	S7	i	O	H	FL segment drive terminal (FL segment terminal i)																				
41	T15/S8	h	O	H	FL segment drive terminal (FL segment terminal h)																				
42	T14/S9	g	O	H	FL segment drive terminal (FL segment terminal g)																				
43	T13/S10	f	O	H	FL segment drive terminal (FL segment terminal f)																				
44	T12/S11	e	O	H	FL segment drive terminal (FL segment terminal e)																				
45	T11/S12	d	O	H	FL segment drive terminal (FL segment terminal d)																				
46	T10/S13	c	O	H	FL segment drive terminal (FL segment terminal c)																				
47	T9/S14	b	O	H	FL segment drive terminal (FL segment terminal b)																				
48	T8/S15	a	O	H	FL segment drive terminal (FL segment terminal a)																				

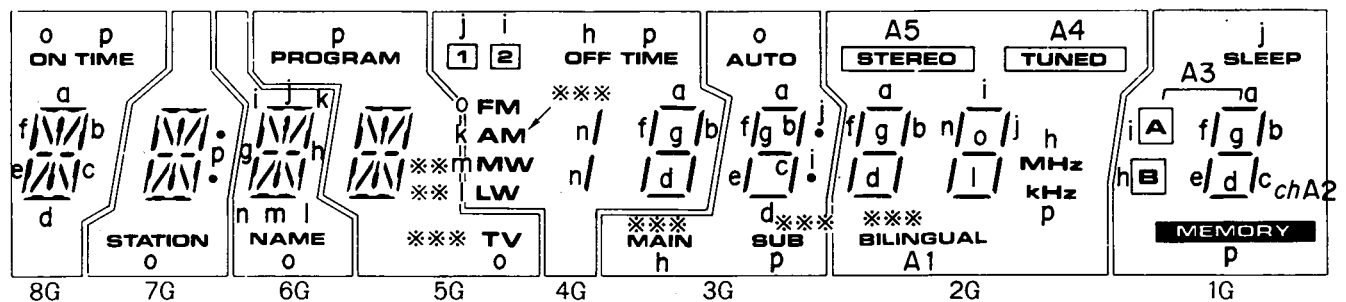
CIRCUIT DESCRIPTION

Terminal No.	Symbol	Name	I/O	H/L	Function
49	T7	8G	O	H	FL grid drive terminal (FL grid terminal 8G)
50	T6	7G	O	H	FL grid drive terminal (FL grid terminal 7G)
51	T5	6G	O	H	FL grid drive terminal (FL grid terminal 6G)
52	T4	5G	O	H	FL grid drive terminal (FL grid terminal 5G)
53	T3	4G	O	H	FL grid drive terminal (FL grid terminal 4G)
54	T2	3G	O	H	FL grid drive terminal (FL grid terminal 3G)
55	T1	2G	O	H	FL grid drive terminal (FL grid terminal 2G)
56	T0	1G	O	H	FL grid drive terminal (FL grid terminal 1G)
57	VFD				FL-ve power supply (-28.5V).
58	INT2		I	H	Not used. Connected to VDD.
59	INT1	DATAI	I	H	System control DATA input.
60	XTAL	CL1	—	—	Clock oscillator terminals. X'tal 4.194304MHz.
61	EXTAL	CL2	—	—	
62	RST	RESET	I	H	Reset signal input. H: NORMAL L: RESET
63	PY0		O	H	Not used. Open (On the PC board, make it capable of being pulled up.).
64	VDD				+B terminal (5V).

FL1: FIP12PM7 (X05-3672-70)

Fluorescent indicator tube

Terminal connection



** Function only in KT-07L

*** Does not function

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12										
Electrode	F	F	P(i)	8G	P(j)	P(n)	7G	P(o)	P(k)	P(m)	6G	P(l)										
Pin No.	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
Electrode	5G	P(n)	P(k)	P(i)	P(j)	5G	4G	4G	3G	P(o)	P(p)	P(A5)	P(A4)	3G	NP	2G	P(A3)	P(A2)	P(A1)	P(h)		
Pin No.										33	34	35	36	37	38	39	40	41	42	43	44	
Electrode										P(d)	2G	P(e)	P(c)	1G	P(g)	P(f)	P(b)	1G	P(a)	F	F	

Notes F: Filament P: Anode G: Grid NP: No pin

Caution: Pins 3 and 16 (i segment), pins 5 and 17 (j segment), pins 6 and 14 (n segment), pins 8 and 22 (o segment) and pins 9 and 15 (k segment) are not internally connected to each other.

Please connect each pair externally (by means of a PC board, for example).

CIRCUIT DESCRIPTION

Operating Specifications

● Tuner Control (corresponding PLL IC: LM7001)

- ① Auto tuning
 - Auto Up/Down :After scanning starts, once a certain broadcasting frequency is tuned to, that will be held.
- ② Manual tuning
 - Manual Up/Down :Tapping the UP or DOWN key once moves the receiving frequency up or down one step. If the key is kept pressed for about 0.5 seconds or more, the frequency will be changed continuously and quickly until the key is released.
- ③ Preset memory recall
 - Non-station name indication mode :20 Randomly selected stations for FM/AM. (Up to 10 stations for A and B.)
 - Station name indication mode :12 Randomly selected stations for FM/AM. (Up to 6 stations for A and B.)
- ④ Preset scan
 - Sequentially receives all of the preset stations for a fixed amount of time, in numerical order from the [A]-1 station. When one of the preset channel stations is being received, preset scanning starts from the next channel station.
- ⑤ Direct tuning
 - Any broadcasting station can be directly tuned by inputting the frequency of the required station with the numeric keypad.
- ⑥ Station name indication
 - Up to 4 alphanumeric characters can be specified and stored in memory for each preset channel. The available characters are A to Z, a, *, +, -, /, and 0 to 9. When this function is used, up to 6 stations can be stored in preset memory for both A and B. Thus a total of 12 stations can be preset.

● Clock Function

- ① Indication system
 - To indicate a 24-hour clock, the colon which shows counting the seconds will not blink.
 - When power is initially turned ON, or when of power is turned ON after interruption, all when of the clock display section will blink to show that the clock is not operating.

● Timer Function

- ① Programmable timer
 - The provided two-line "EVERY DAY" timers allow the user to set the ON-time, OFF-time and receiving preset channel separately for each line. With the timer engaged, when the preset ON-time is reached, the tuner is turned ON to receive the desired preset channel, and when the preset OFF-time is reached, the tuner is turned OFF

automatically. Time can be engaged for [1] and [2] independently.

② Sleep timer

- This is a 60-minute "auto-off" timer. When the set time has expired, the power to the tuner is turned OFF automatically. The time can be set in 10-minute steps.

● Serial Communication Function

8-Bit serial data transmission/reception function is provided. It allows the user to easily operate the unit with the remote control.

● Display Control

The 8-Grid, 16-segment multi-column display is directly controlled to show the frequency, station name, frequency band and timer, etc.

● Station Name ON/OFF Set Switch

This switch determines whether of the station indication or the clock indication is required. This switch should only be changed when the AC power is turned OFF. When the switch is changed with AC ON, the function itself will not change until the AC power is turned OFF and ON again. When this switch is changed, all of the data stored in memory (preset frequencies, timer, clock, etc.) will be cleared.

Station indication ON/OFF switch	Station indication	Number of preset channels
0	Station name ON	Up to 6 stations for A and B. Total of 12 stations.
1	Station name OFF	Up to 10 stations for A and B. Total of 20 stations.

Q1 is switched over by S1, and the setting of the station name indication is detected by the activation of D7.

● Setting to Test Mode

With the TEST port (pin (29)) grounded, when the AC power is turned ON, the unit enters the TEST mode.

● Contents of Test Mode

- ① Indication

When the AC power is turned ON for TEST mode, all segments, except for "STEREO", "TUNED" and "BILINGUAL" will light. Since these three indicators are turned ON by the tuner circuit, they have nothing to do with the TEST mode. To resume the previous indication, press the POWER button to ON.
- ② Setting the test points

When the indications as described in ① are lit, the frequencies shown in the figure on page 9 are automatically set in the preset memory. In TEST mode, the tuner is set for 20 preset stations, without station name, regardless of the ON/OFF setting of the station name indication.

● Memory Clear

If the CLEAR key is pressed when the AC power is turned ON, all of the data in memory (preset frequencies, timer, clock, etc.) will be cleared, regardless of the presence of backed-up data.

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: FM MODE/AUTO							
1	BAND EDGE (1)	—	Connect a DC voltmeter between TP4(VT) and TP5(GND).	87.5MHz	L7 (Front end)	2.5V	(a)
2	BAND EDGE (2)	—	Connect a DC voltmeter between TP4(VT) and TP5(GND).	108.0MHz	TC1 (Front end)	8.0V	(a)
Repeat alignments 1 and 2 several times.							
3	RF ALIGNMENT	(A) 98.0MHz 1kHz, ± 75 kHz dev	(B)	MONO 98.0MHz	L2,3,5 (Front end)	Maximum amplitude and symmetry of the oscilloscope display.	
4	DISCRIMINATOR	(A) 98.0MHz 1kHz, ± 75 kHz dev 60dB μ (ANT input)	Connect a DC voltmeter between TP9 and TP10.	MONO 98.0MHz	L4,5	0V	(b)
5	VCO	(A) 98.0MHz 0 dev 60dB μ (ANT input)	Connect a 330k Ω resistor to TP8. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR4	19.00kHz	(c)
6	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ± 68.25 kHz dev Selector: L or R 60dB μ (ANT input)	(B)	98.0MHz	L6 (Front end)	Minimum distortion. (L or R)	
7	SEPARATION (E.T only)	(C) 98.0MHz 1kHz, ± 68.25 kHz dev Selector: L or R 60dB μ (ANT input)	(B)	98.0MHz	VR5	Minimum crosstalk.	
8	TUNING LEVEL	(A) 98.0MHz 0 dev 18dB μ (ANT input)	—	98.0MHz	VR2	Adjust VR1 so that FL1(TUNED) goes off. Then, adjust VR1 and stop at the point where FL1(TUNED) goes on.	
AM-MW SECTION Keep the AM loop antenna installed. SELECTOR: AM or MW							
(1)	BAND EDGE (1)	—	Connect a DC voltmeter between TP4(VT) and TP5(GND).	530kHz (531kHz)	L12	1.5V	(a)
(2)	BAND EDGE (2)	—	Connect a DC voltmeter between TP4(VT) and TP5(GND).	1610kHz (1602kHz)	TC4	8.0V	(a)
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	L10	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	TC2	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							
AM-LW SECTION Keep the AM loop antenna installed. SELECTOR: LW							
(5)	BAND EDGE (1)	—	Connect a DC voltmeter between TP4(VT) and TP5(GND).	153kHz	L11	1.5V	(a)
(6)	BAND EDGE (2)	—	Connect a DC voltmeter between TP4(VT) and TP5(GND).	281kHz	TC3	8.0V	(a)
Repeat alignments (5) and (6) several times.							
(7)	RF ALIGNMENT (1)	(D) 162kHz 400Hz, 30% mod	(B)	162kHz	L9	Maximum amplitude and symmetry of the oscilloscope display.	
(8)	RF ALIGNMENT (2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	TC1	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (7) and (8) several times.							
(9)	TUNING LEVEL	(A) 1000(999)kHz 0 dev 25dB μ (ANT input)	—	1000(999)kHz	VR1	Adjust VR2 so that FL1(TUNED) goes off. Then, adjust VR4 and stop at the point where FL1(TUNED) goes on.	

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR: FM MODE: FM MODE/AUTO							
1	BORD DE BANDE (1)	—	Relier un voltmètre CC entre les TP4(VT) et TP5(GND).	87,5MHz	L7 (Contrôle)	2,5V	(a)
2	BORD DE BANDE (2)	—	Relier un voltmètre CC entre les TP4(VT) et TP5(GND).	108,0MHz	TC1 (Contrôle)	8,0V	(a)
Répéter les points 1 et 2 plusieurs fois.							
3	ALIGNEMENT HT	(A) 98,0MHz 1kHz. ±75kHz dév	(B)	MONO 98,0MHz	L2.3.5 (Contrôle)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
4	DISCRIMINATEUR	(A) 98,0MHz 1kHz. ±75kHz dév 60dBμ(Entrée ANT)	Relier un voltmètre CC entre les TP9 et TP10.	MONO 98,0MHz	L4,5	0V	(b)
5	VCO	(A) 98,0MHz 0 dév 60dBμ(Entrée ANT)	Relier une résistance de 330kΩ à TP8. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,0MHz	VR4	19,00kHz	(c)
6	DISTORSION (STEREO)	(C) 98,0MHz 1kHz. ±68,25kHz dév Selection: L ou R 60dBμ(Entrée ANT)	(B)	98,0MHz	L6 (Contrôle)	Distorsion minimale. (L ou R)	
7	SEPARATION	(C) 98,0MHz 1kHz. ±68,25kHz dév Selection: L ou R 60dBμ(Entrée ANT)	(B)	98,0MHz	VR5	Diaphonie minimale.	
8	NIVEAU D'ACORDER	(A) 98,0MHz 0 dév 18dBμ(Entrée ANT)	—	98,0MHz	VR2	Ajuster VR1 que FL1(TUNED) est non allumé. Alors, ajuster VR1 et arrêter le mouvement de VR1 au moment où le FL1(TUNED)s'allume.	
SECTION MA							
Laisser l'antenne bouche MA installée. SELECTEUR: AM ou MW							
(1)	BORD DE BANDE (1)	—	Relier un voltmètre CC entre les TP4(VT) et TP5(GND).	530kHz (531kHz)	L12	1,5V	(a)
(2)	BORD DE BANDE (2)	—	Relier un voltmètre CC entre les TP4(VT) et TP5(GND).	1610kHz (1602kHz)	TC4	8,0V	(a)
Répéter les points (1) et (2) plusieurs fois.							
(3)	ALIGNEMENT HT (1)	(D) 630kHz 400Hz. 30% mod	(B)	630kHz	L10	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT HT (2)	(D) 1440kHz 400Hz. 30% mod	(B)	1440kHz	TC2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (3) et (4) plusieurs fois.							
SECTION GO							
Laisser l'antenne bouche MA installée. SELECTEUR: LW							
(5)	BORD DE BANDE (1)	—	Relier un voltmètre CC entre les TP4(VT) et TP5(GND).	153kHz	L11	1,5V	(a)
(6)	BORD DE BANDE (2)	—	Relier un voltmètre CC entre les TP4(VT) et TP5(GND).	281kHz	TC3	8,0V	(a)
Répéter les points (5) et (6) plusieurs fois.							
(7)	ALIGNEMENT HT (1)	(D) 162kHz 400Hz. 30% mod	(B)	162kHz	L9	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(8)	ALIGNEMENT HT (2)	(D) 270kHz 400Hz. 30% mod	(B)	270kHz	TC1	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les point (7) et (8) plusieurs fois.							
(9)	NIVEAU D'ACORDER	(A) 1000(999)kHz 0 dév 25dBμ(Entrée ANT)	—	1000(999)kHz	VR1	Ajuster VR2 que FL1(TUNED) est non allumé. Alors, ajuster VR2 et arrêter le mouvement de VR4 au moment où le FL1(TUNED)s'allume.	

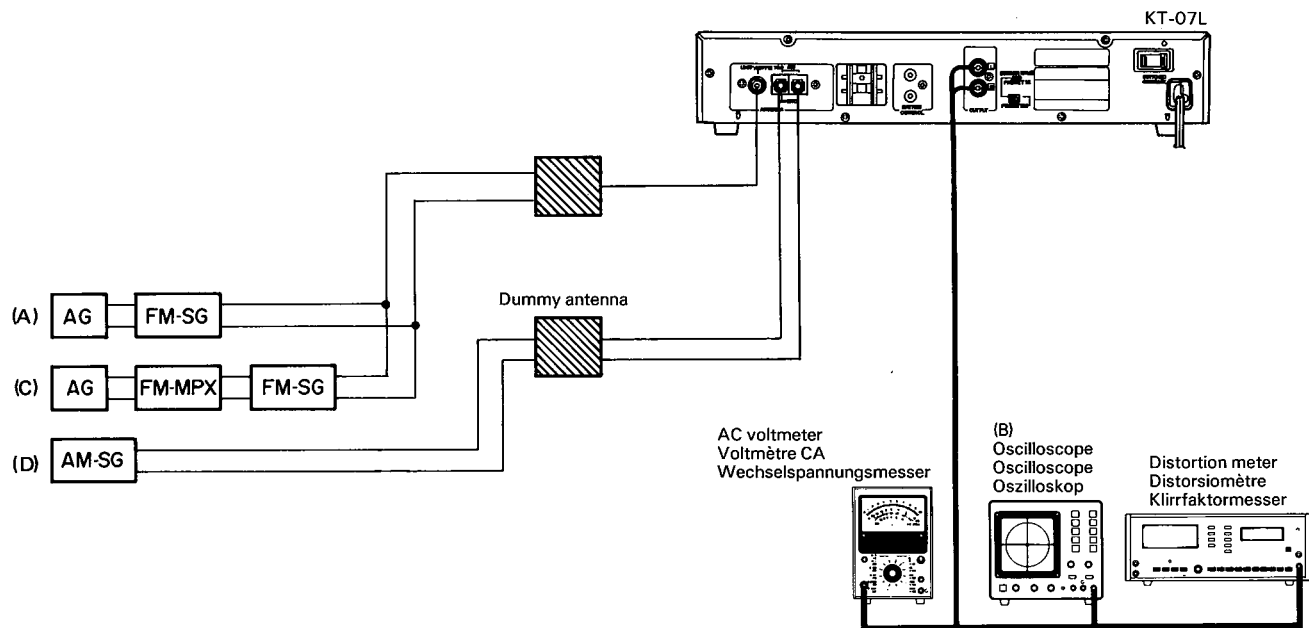
ABGLEICH

KT-07L

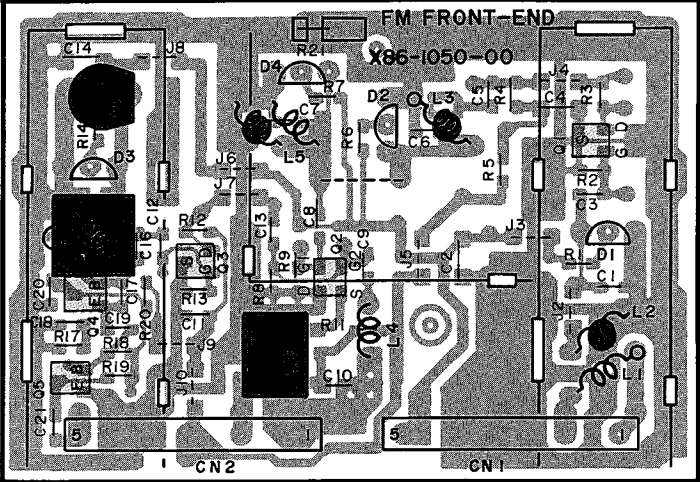
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPfangSABTEILUNG Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SELECTOR: FM MODE:FM MODE/AUTO							
1	BANDKANTE (1)	—	Einen Gleichspannungsmesser zwischen TP4(VT) und TP5(GND) anschließen.	87,5MHz	L7 (Eingangsstufe)	2,5V	(a)
2	BANDKANTE (2)	—	Einen Gleichspannungsmesser zwischen TP4(VT) und TP5(GND) anschließen.	108,0MHz	TC1 (Eingangsstufe)	8,0V	(a)
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	EMPFANGS-BEREICH-ABSTIMMUNGEN	(A) 98,0MHz 1kHz.±75kHz Hub	(B)	MONO 98,0MHz	L2.3.5 (Eingangsstufe)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
4	DISKRIMINATOR	(A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(Ant-Eingang)	Einen Gleichspannungsmesser zwischen TP9 und TP10 anschließen.	MONO 98,0MHz	L4.5	0V	(b)
5	SPANNUNGSGEREGLTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dBμ(Ant-Eingang)	Einen 330kΩ Widerstand zu TP8 anschließen. Einen Frequenzzähler über einen Wechselspannungsmesser an den Widerstand anschließen.	98,0MHz	VR4	19,00kHz	(c)
6	KLIRRFACtor (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler: L oder R 60dBμ(Ant-Eingang)	(B)	98,0MHz	L6 (Eingangsstufe)	Minimal Klirrfactor (L oder R)	
7	STEREO KANAL TRENNUNG	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler: L oder R 60dBμ(Ant-Eingang)	(B)	98,0MHz	VR5	Minimal Übersprechen.	
8	ABSTIMM PEGEL	(A) 98,0MHz 0 Hub 18dBμ(Ant-Eingang)	—	98,0MHz	VR2	Den Pegelwiderstand VR1 so einstellen, daß der FL1(TUNED)anzeiger nicht leuchtet. Dann der Pegelwiderstand aufdrehen, und dem VR1 Halt geben wobei den FL1(TUNED)anzeiger leuchtet wird.	
MW-EMPfangSABTEILUNG Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM oder MW							
(1)	BANDKANTE (1)	—	Einen Gleichspannungsmesser zwischen TP4(VT) und TP5(GND) anschließen.	530kHz (531kHz)	L12	1,5V	(a)
(2)	BANDKANTE (2)	—	Einen Gleichspannungsmesser zwischen TP4(VT) und TP5(GND) anschließen.	1610kHz (1602kHz)	TC4	8,0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	L10	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
LW-EMPfangSABTEILUNG Die LW-Rahmenantenne angebracht lassen. SELECTOR: LW							
(5)	BANDKANTE (1)	—	Einen Gleichspannungsmesser zwischen TP4(VT) und TP5(GND) anschließen.	153kHz	L11	1,5V	(a)
(6)	BANDKANTE (2)	—	Einen Gleichspannungsmesser zwischen TP4(VT) und TP5(GND) anschließen.	281kHz	TC3	8,0V	(a)
Abstimmungen (5) und (6) mehrere Male wiederholen.							
(7)	HF-ABGLEICH (1)	(D) 162kHz 400Hz.30% mod	(B)	162kHz	L9	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(8)	HF-ABGLEICH (2)	(D) 270kHz 400Hz.30% mod	(B)	270kHz	TC1	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (7) und (8) mehrere Male wiederholen.							
(9)	ABSTIMM PEGEL	(A) 1000(999)kHz 0 Hub 25dBμ(Ant-Eingang)	—	1000(999)kHz	VR1	Den Pegelwiderstand VR2 so einstellen, daß der FL1(TUNED)anzeiger nicht leuchtet. Dann der Pegelwiderstand aufdrehen, und dem VR2 Halt geben wobei den FL1(TUNED)anzeiger leuchtet wird.	

ADJUSTMENT/REGLAGE/ABGLEICH

System connections/Raccordements du système/System-Anschlüsse



PC BOARD (Component Side View)



TUNER UNIT (X05-3672-70)

Ref. No	IC	Q	Address	Ref. No	IC	Q	Address
1		1	3F	8		5J	
2		2	2G	10		2J	
3		3	2G	12		3I	
4		4	4F	13		1K	
5		5	3E	14		2K	
6		6	5G				
7		7	3F				
8		8	5H				
9		9	4I				
10		10	2J				
11		11	4I				
12		12	5F				
13		13	5F				
14		14	5F				
15		15	5E				
16		16	5E				
18		18	4K				
19		19	2J				
20		20	1K				
21		21	1K				
22		22	1K				
23		23	1K				
24		24	2K				
25		25	2K				
26		26	2K				
28		28	4J				
29		29	3I				
30		30	4I				
31		31	2I				
32		32	2I				
33		33	2I				
34		34	1I				
35		35	3J				
36		36	1G				
37		37	2G				
38		38	1K				
1		1	1H				
2		2	3H				
3		3	2H				
4		4	4F				

FRONT-END (X86-1052-70)

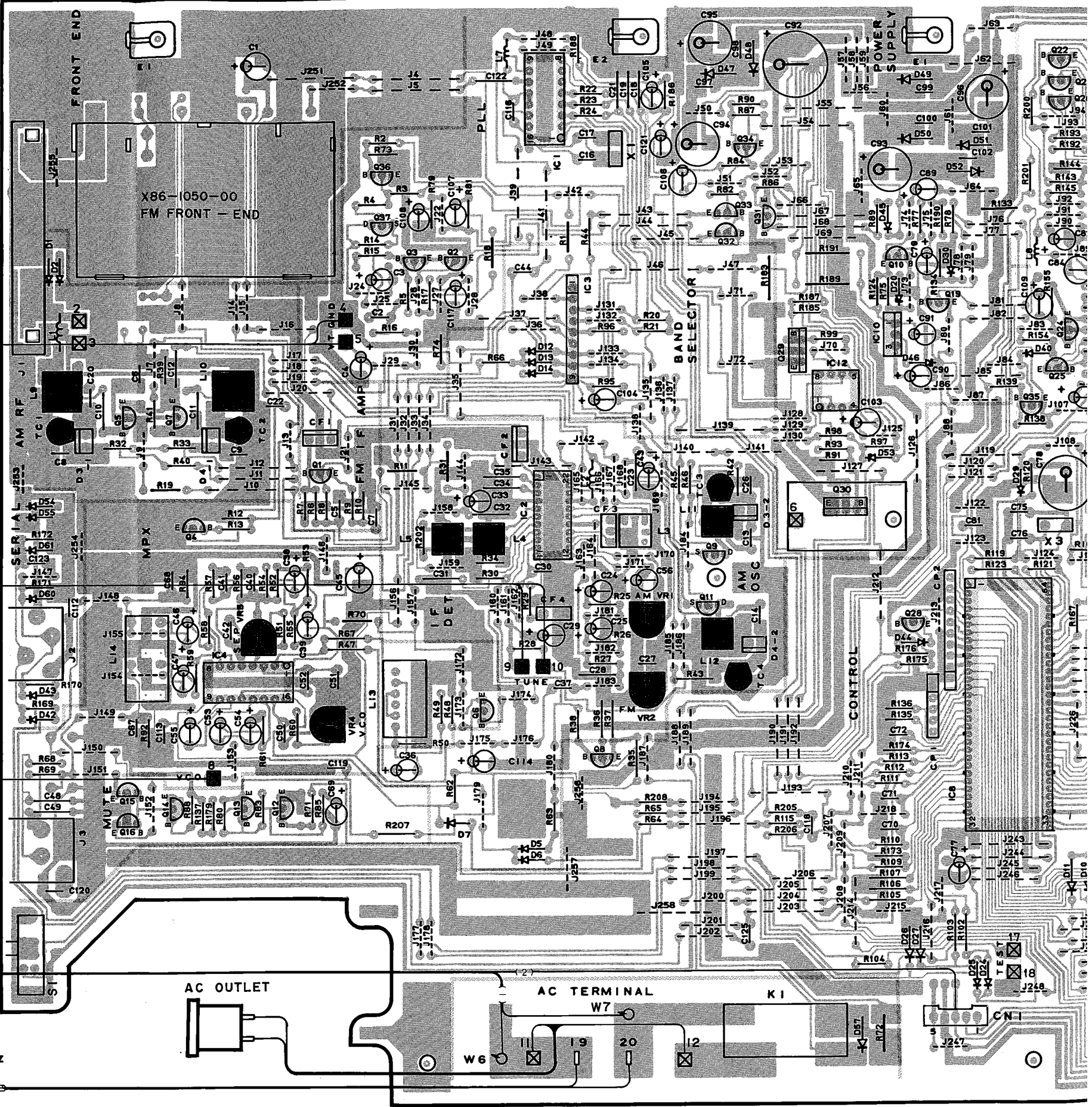
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3		3	2B
4		4	2B
5		5	2B

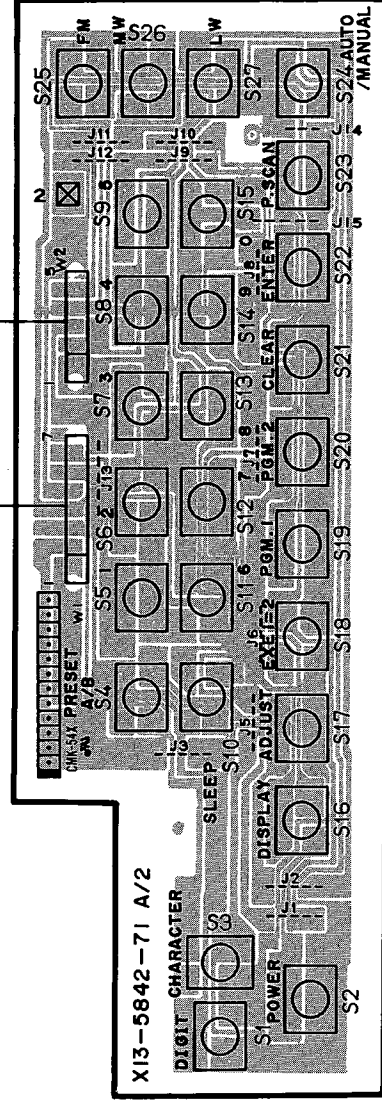
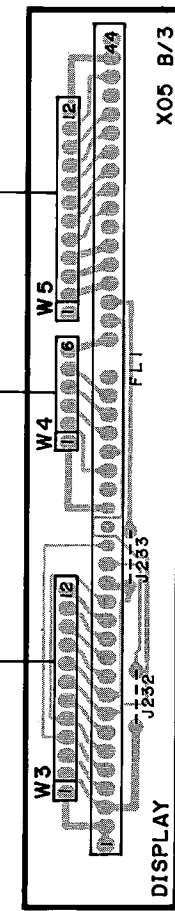
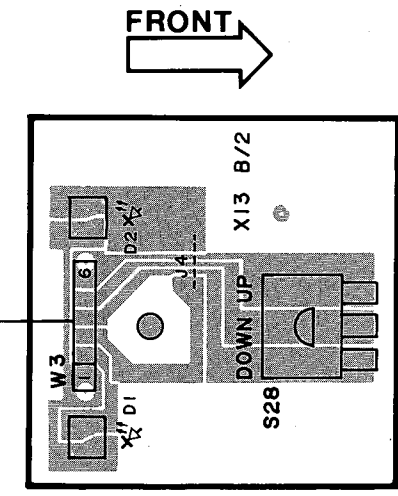
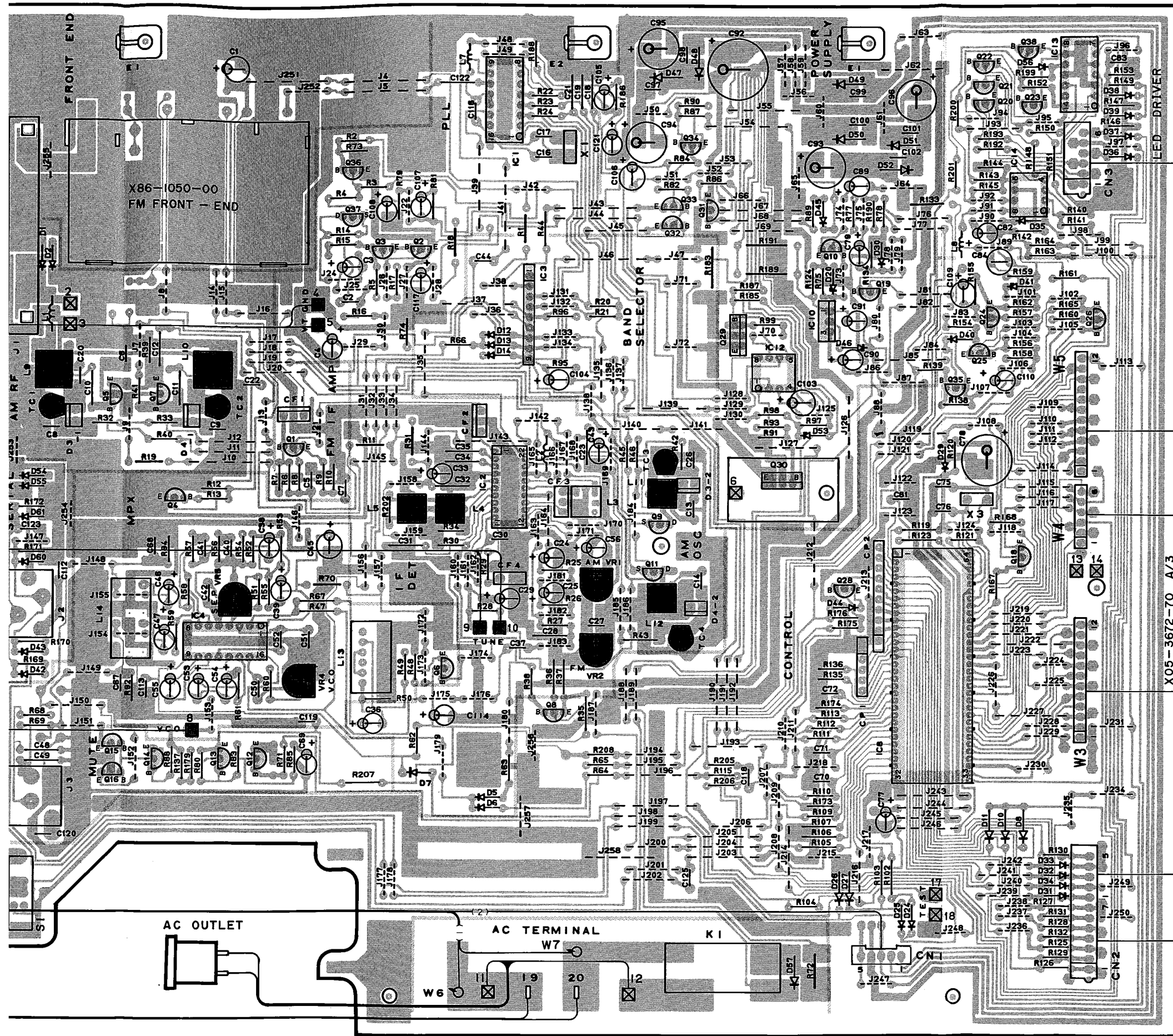
a) BAND EDGE
DC Voltmeter
FM 2.5 V (87.5 MHz)
8.0 V (108.0 MHz)
AM-MW 1.5 V (530 kHz)
8.0 V (1610 kHz)
AM-LW 1.5 V (153 kHz)
8.0 V (281 kHz)

b) DISCRIMINATOR: 0V
DC Voltmeter

c) VCO: 19.00 kHz
Frequency counter
AC Voltmeter
330K Ω

AC220V 50Hz

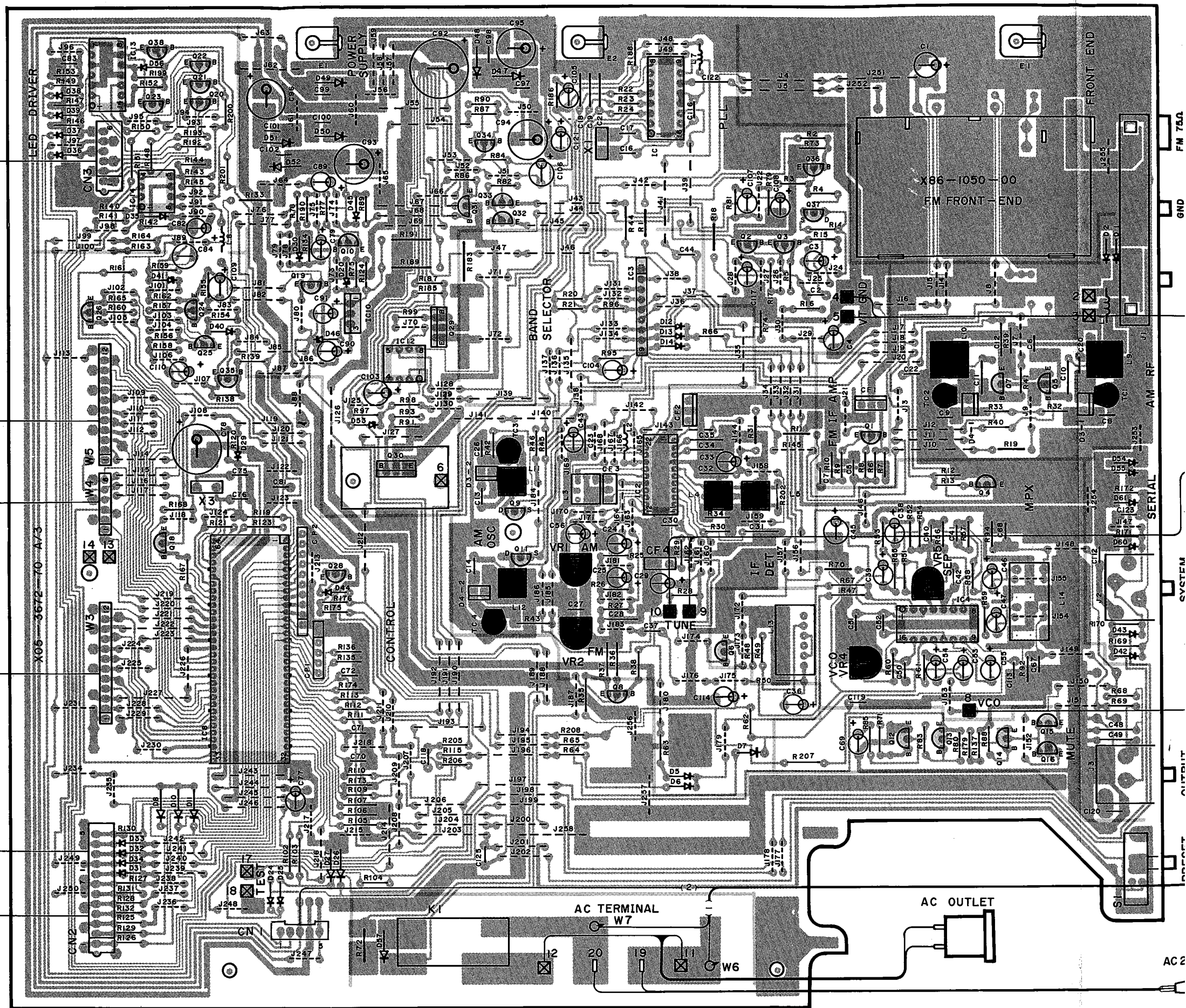
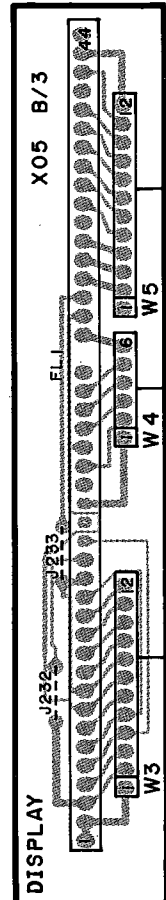
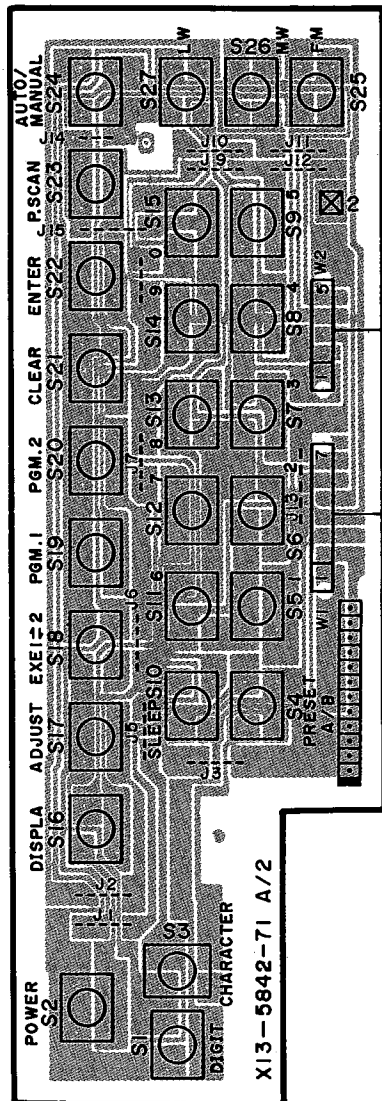
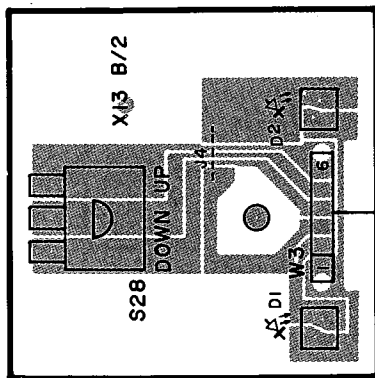


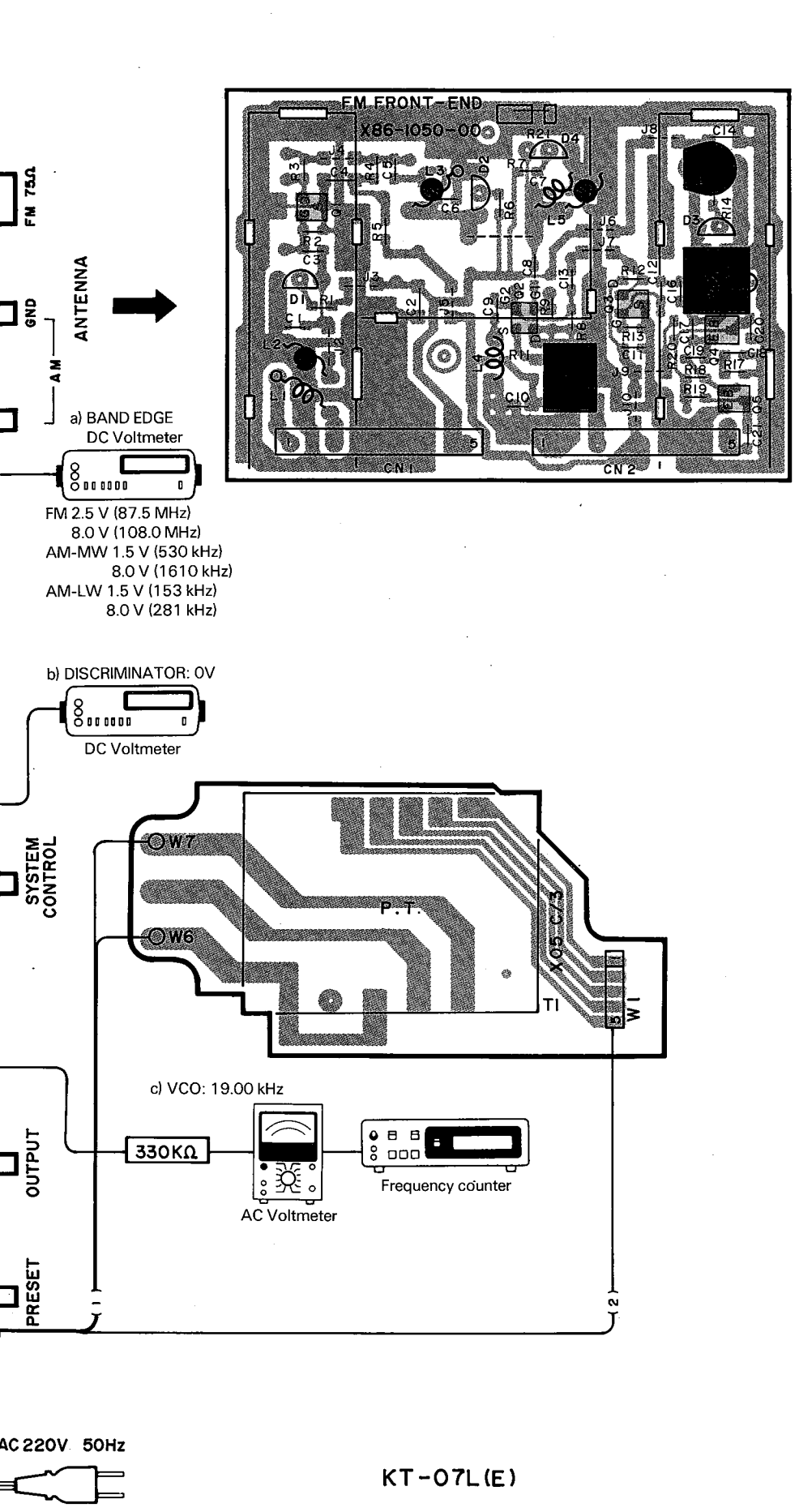
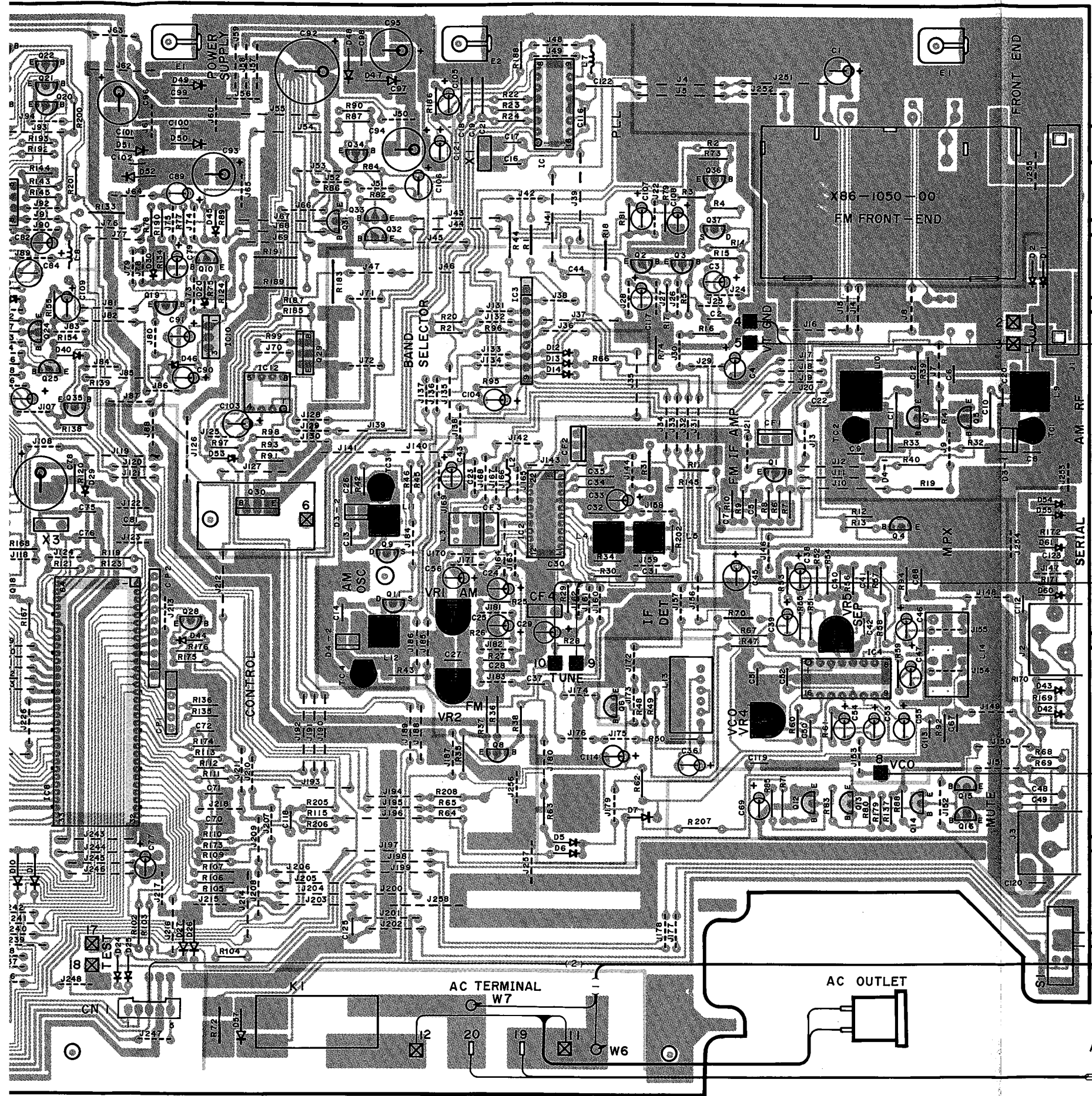


KT-07L(E)

PC BOARD (Foil Side View)

FRONT





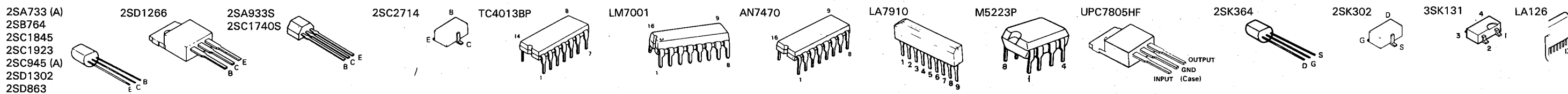
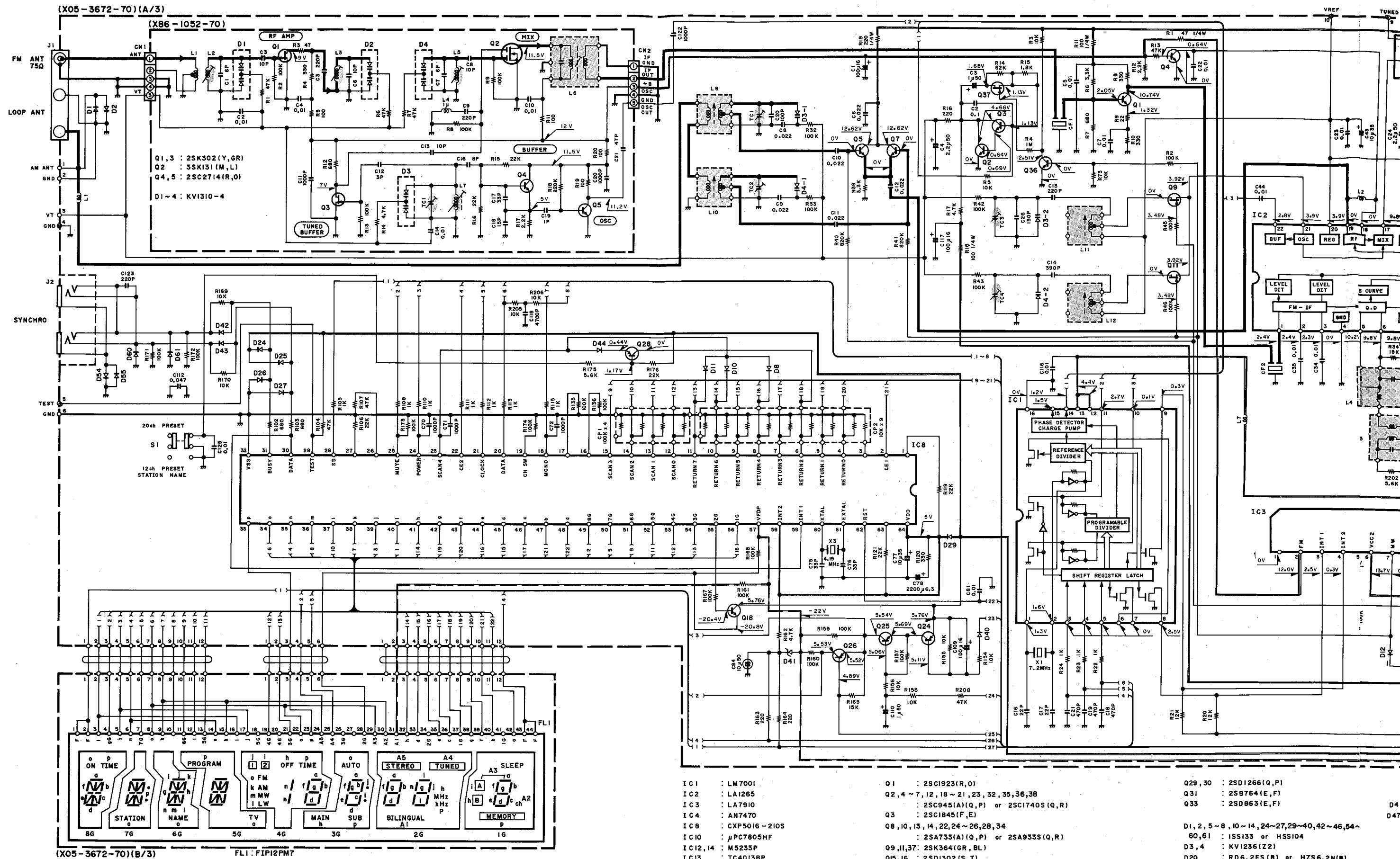
**TUNER UNIT
(X05-3672-70)**

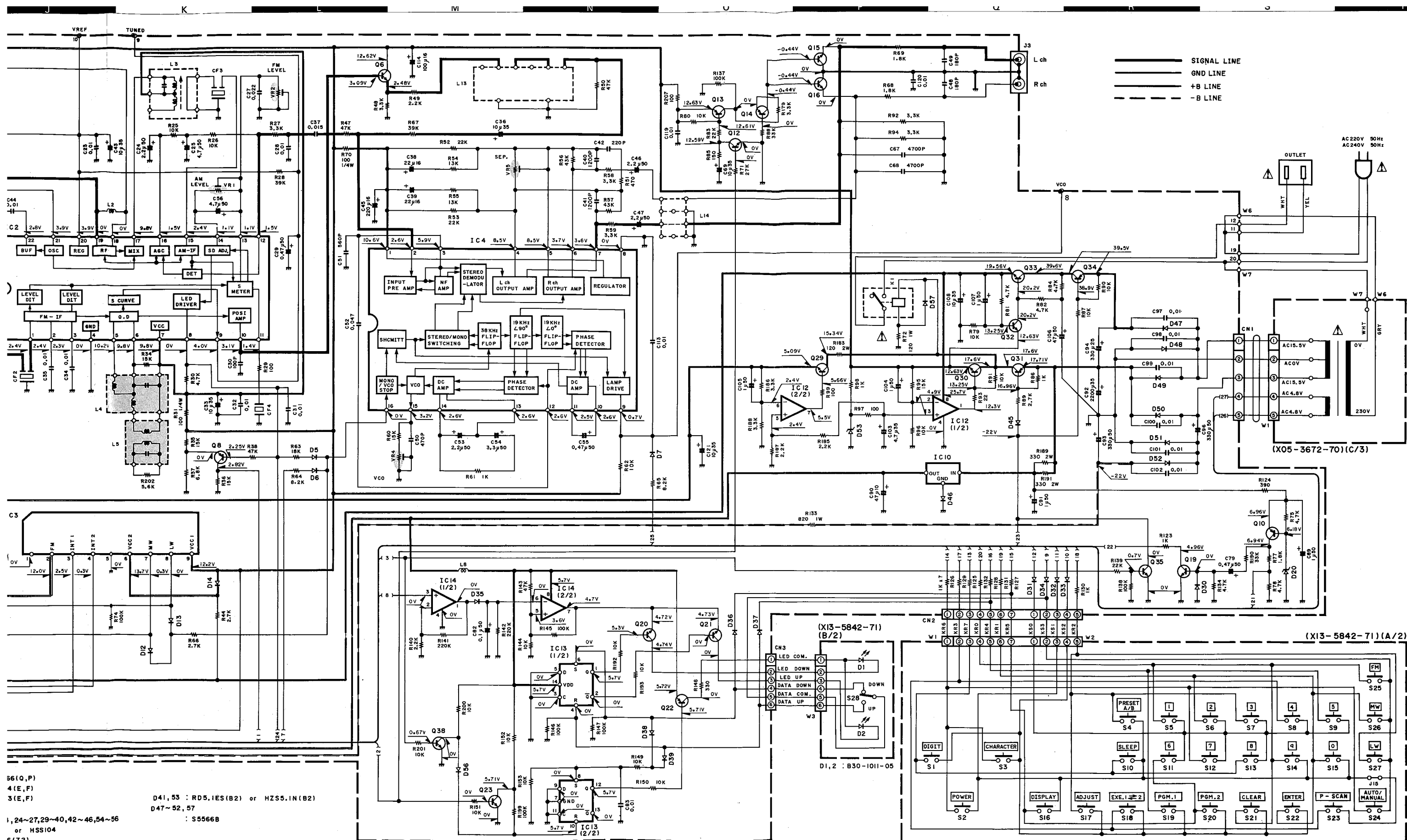
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7	3Y	
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9	4V	
10	2U	
11	4V	
12	5X	
13	5Y	
14	5Y	
15	5Y	
16	5Y	
18	4T	
19	2U	
20	1T	
21	1T	
22	1T	
23	1T	
24	2T	
25	3T	
26	2T	
28	4U	
29	3V	
30	3U	
31	2V	
32	2V	
33	2V	
34	1V	
35	3T	
36	2X	
37	2X	
38	1T	
1	1W	
2	3W	
3	2W	
4	4Y	
8	5T	
10	2U	
12	3U	
13	1T	
14	2T	

**FRONT-END UNIT
(X86-1052-70)**

Ref. No	Q	Address
IC		
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2	2AB	
3	2AC	
4	2AC	
5	2AC	

KT-07L(E)



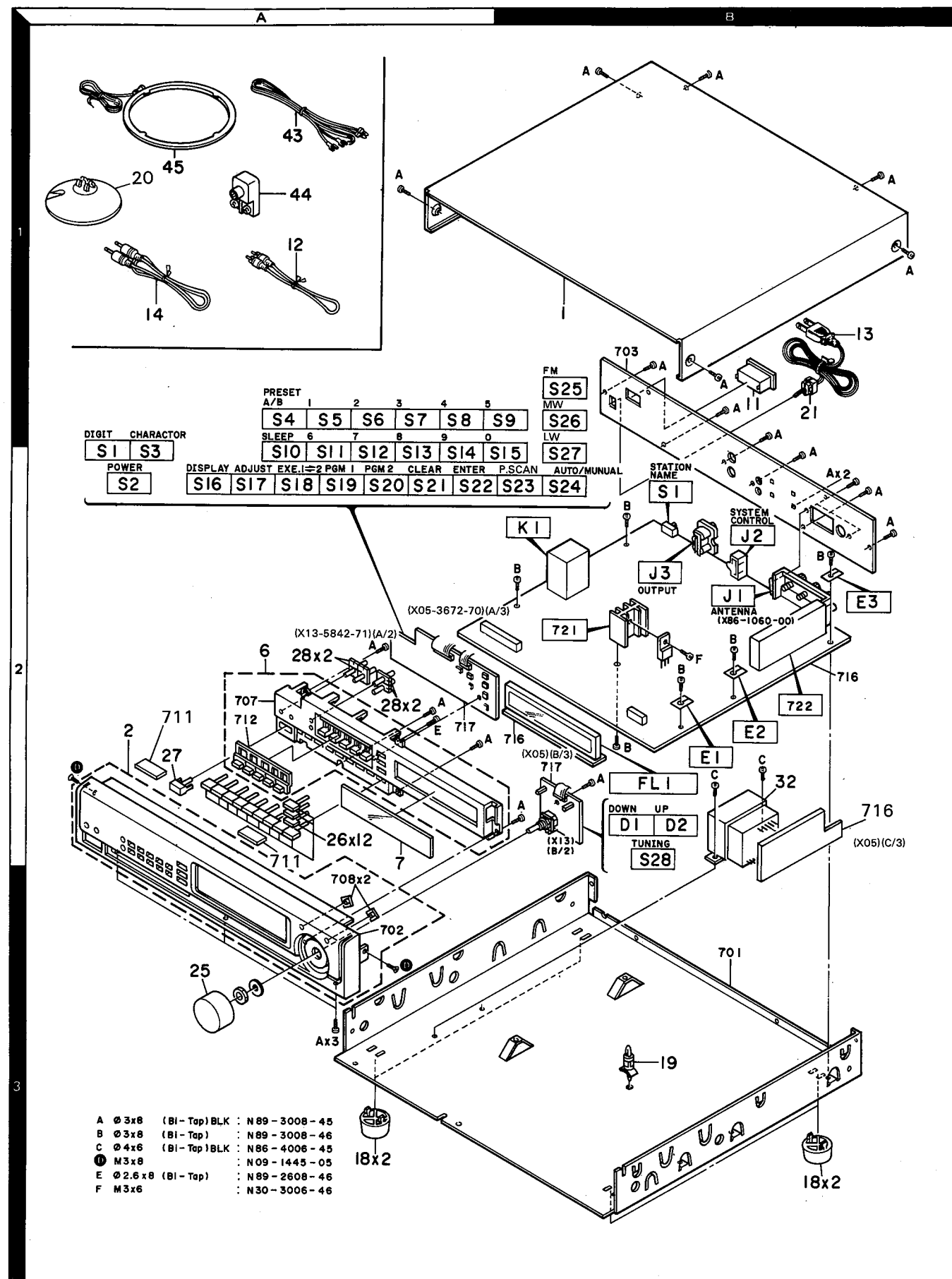


KT-07L (E)

KT-07L
KENWOOD

Y07-2982-71

EXPLODED VIEW



PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Destination	Remarks
参照番号	位置	新	部品番号	部品名 / 規格	仕向	備考
KT-07L						
1	1B	*	A01-1623-01	METALLIC CABINET	T	
2	2A	*	A20-5817-03	PANEL ASSY		
6	2A	*	B42-1546-04	STICKER		
7	3A	*	B07-1792-03	ESCUTCHEON ASSY		
		*	B10-0922-04	FRONT GLASS		
		*	B46-0122-13	WARRANTY CARD		
		*	B46-0143-03	WARRANTY CARD		
		*	B50-9480-08 10	INSTRUCTION MANUAL (ENGLISH)		
		*	B50-9677-08 10	INSTRUCTION MANUAL (FRANCH (X05-3672-70))		
		*	B50-9679-08	INSTRUCTION MANUAL (ITALY)		
		*	B58-0803-13	CAUTION CARD	E E T E T	
11	1B	*	E03-0055-05	AC OUTLET		
11	1B	*	E03-0085-05	AC OUTLET		
12	1A	*	E30-0505-05	AUDIO CORD		
13	1B	*	E30-0459-05	AC POWER CORD		
13	1B	*	E30-1416-05	AC POWER CORD		
14	1A	*	E30-1392-05	CORD WITH PLUG		
		*	H01-8446-04	ITEM CARTON CASE		
		*	H10-3543-02/2	POLYSTYRENE FOAMED FIXTURE		
		*	H10-3544-02/2	POLYSTYRENE FOAMED FIXTURE		
		*	H25-0181-04	PROTECTION BAG (150X260X0.05)		
		*	H25-0223-04	PROTECTION BAG (750X350X0.03)		
		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
18	3A, 3B	*	J02-0366-15	FOOT		
19	3B	*	J19-0514-05	UNIT HOLDER		
20	1A	*	J19-2815-04	ANTENNA HOLDER		
21	1B	*	J42-0083-05	POWER CORD BUSHING		
		*	J61-0307-05	WIRE BAND		
25	3A	*	K29-2911-04	KNOB (TUNING)		
26	2A	*	K29-2912-04	KNOB (DISPLAY, ADJUST)		
27	2A	*	K29-2913-04	KNOB (POWER)		
28	2A	*	K29-2915-04	KNOB (DIGIT, CHAR, PRESET)		
D	2A, 3A	*	N09-1445-05	SET SCREW (M3X8)		
43	1A	*	T90-0132-05	T TYPE ANTENNA		
44	1A	*	T90-0136-05	ANTENNA ADAPTOR		
45	1A	*	T90-0138-15	LOOP ANTENNA		
TUNER UNIT (X05-3672-70)						
C1			CE04KW1C101M	ELECTRO	100UF	16WV
C2			CF92FV1H104J	MF	0.10UF	J
C3			CE04KW1H010M	ELECTRO	1.0UF	50WV
C4			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C5			CK45FF1H103Z	CERAMIC	0.010UF	Z
C6			CK45FF1H223Z	CERAMIC	0.022UF	Z
C7			CK45FF1H103Z	CERAMIC	0.010UF	Z
C8 ,9			CK45FF1H223Z	CERAMIC	0.022UF	Z
C10 -12			C91-0085-05	CERAMIC	0.022UF	N
C13			CC93FCH1H221J	CERAMIC	220PF	J
C14			CC93FCH1H391J	CERAMIC	390PF	J
C16 ,17			CC45FCH1H220J	CERAMIC	22PF	J
C18 ,19			C91-0753-05	CHIP C	470PF	K
C20			CC45FTH1H101J	CERAMIC	100PF	J

E: Scandinavia & Europe K: USA

P: Canada

U: PX(Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

⚠ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C21			C91-0753-05	CHIP C 470PF K		
C22			CK45FF1H103Z	CERAMIC 0.010UF Z		
C23			C91-0769-05	CERAMIC 0.01UF M		
C24			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C25			CE04KW1H4R7M	ELECTR0 4.7UF 50WV		
C26			CC45FCH1H151J	CERAMIC 150PF J		
C27			CK45FF1H223Z	CERAMIC 0.022UF Z		
C28			C91-0769-05	CERAMIC 0.01UF M		
C29			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C30			CC45FSL1H101J	CERAMIC 100PF J		
C31 ,32			C91-0769-05	CERAMIC 0.01UF M		
C33			CE04KW1V100M	ELECTR0 10UF 35WV		
C34 ,35			C91-0769-05	CERAMIC 0.01UF M		
C36			CE04KW1V100M	ELECTR0 10UF 35WV		
C37			CF92FV1H153J	MF 0.015UF J		
C38 ,39			CE04KW1C220M	ELECTR0 22UF 16WV		
C40 ,41			CF92FV1H122J	MF 1200PF J		
C42			CC45FSL1H221J	CERAMIC 220PF J		
C43			CE04KW1V100M	ELECTR0 10UF 35WV		
C44			CK45FF1H103Z	CERAMIC 0.010UF Z		
C45			CE04KW1C221M	ELECTR0 220UF 16WV		
C46 ,47			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C48 ,49			C91-0748-05	CERAMIC 180PF K		
C50			CC93FCH1H471J	CERAMIC 470PF J		
C51			CC45FSL1H561J	CERAMIC 560PF J		
C52			CF92FV1H473J	MF 0.047UF J		
C53			CE04KW1H2R2M	ELECTR0 2.2UF 50WV		
C54			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		
C55			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C56			CE04KW1H4R7M	ELECTR0 4.7UF 50WV		
C67 ,68			CK45FF1H472Z	CERAMIC 4700PF Z		
C69			CE04KW1V100M	ELECTR0 10UF 35WV		
C70 -72			CK45FB1H102K	CERAMIC 1000PF K		
C75 ,76			CC45FCH1H330J	CERAMIC 33PF J		
C77			CE04KW1V100M	ELECTR0 10UF 35WV		
C78			CE04KW0J222M	ELECTR0 2200UF 6.3WV		
C79			CE04KW1HR47M	ELECTR0 0.47UF 50WV		
C81			CK45FF1H103Z	CERAMIC 0.010UF Z		
C82			CE04KW1HOR1M	ELECTR0 0.1UF 50WV		
C83			CK45FF1H103Z	CERAMIC 0.010UF Z		
C84			C90-1400-05	NP-ELEC 10UF 50WV		
C89			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C90			CE04KW1A470M	ELECTR0 47UF 10WV		
C91			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C92			CE04KW1V222M	ELECTR0 2200UF 35WV		
C93			CE04KW1H331M	ELECTR0 330UF 50WV		
C94			CE04KW1E331M	ELECTR0 330UF 25WV		
C95 ,96			CE04KW1H331M	ELECTR0 330UF 50WV		
C97 -102			CK45FF1H103Z	CERAMIC 0.010UF Z		
C103			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		
C104 ,105			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C106			CE04KW1H470M	ELECTR0 47UF 50WV		
C107			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C108			CE04KW1V100M	ELECTR0 10UF 35WV		
C109			CE04KW1C101M	ELECTR0 100UF 16WV		

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C110			CE04KW1H010M	ELECTR0 1.0UF 50WV		
C112			CK45FF1H473Z	CERAMIC 0.047UF Z		
C113			CK45FF1H103Z	CERAMIC 0.010UF Z		
C114			CE04KW1C101M	ELECTR0 100UF 16WV		
C116			CK45FF1H103Z	CERAMIC 0.010UF Z		
C117			CE04KW1C101M	ELECTR0 100UF 16WV		
C118			CK45FF1H472Z	CERAMIC 4700PF Z		
C119 ,120			CK45FF1H103Z	CERAMIC 0.010UF Z		
C121			CE04KW1V100M	ELECTR0 10UF 35WV		
C122			C91-0757-05	CERAMIC 1000PF K		
C123			CC45FSL1H221J	CERAMIC 220PF J		
C125			CK45FF1H103Z	CERAMIC 0.010UF Z		
TC1			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF		
TC2			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
TC3			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF		
TC4			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
E1 -3	2B		E23-0149-05	TERMINAL		
J1			E20-0318-05	SCREW TERMINAL BOARD(2P)		
J2			E11-0188-05	MINIATURE PHONE JACK		
J3			E13-0235-05	PHONE JACK (2P)		
32	2B	*	L01-5742-05	POWER TRANSFORMER		
CF1 ,2			L72-0536-05	CERAMIC FILTER		
CF3			L72-0099-05	CERAMIC FILTER		
CF4			L72-0096-05	CERAMIC FILTER		
L1			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)		
L2			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L3			L30-0362-05	AM IFT		
L4			L30-0483-05	FM IFT		
L5			L30-0448-05	FM IFT		
L7			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)		
L8			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L9			L31-0499-05	LW-RF COIL		
L10			L31-0509-05	MW-RF COIL		
L11			L32-0288-05	LW OSCILLATING COIL		
L12			L32-0277-15	MW OSCILLATING COIL		
L13			L79-0125-05	LC FILTER		
L14			L79-0750-05	LC FILTER		
X1			L77-1122-05	CRYSTAL RESONATOR		
X3			L77-1118-05	CRYSTAL RESONATOR		
CP1			R90-0291-05	MULTI-COMP 100KX4 J 1/6W		
CP2			R90-0441-05	MULTI-COMP 10KX9 J 1/6W		
R1			RD14GB2E470J	FL-PROOF RD 47 J 1/4W		
R11			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R18			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R19			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R31			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R70			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R72			RS14KB3A121J	FL-PROOF RS 120 J 1W		
R133			RS14KB3A821J	FL-PROOF RS 820 J 1W		
R183			RS14KB3D121J	FL-PROOF RS 120 J 2W		
R189			RS14KB3D331J	FL-PROOF RS 330 J 2W		
R191			RS14KB3D331J	FL-PROOF RS 330 J 2W		
VR1			R12-3126-05	TRIMMING P0T. (AM LEVEL)		
VR2			R12-3130-05	TRIMMING P0T. (FM LEVEL)		

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VR4 VR5			R12-1089-05 R12-5060-05	TRIMMING POT. (VCO) TRIMMING POT. (SEPARATION)		
K1 S1	2B 2B		S51-1052-05 S31-2094-05	MAGNETIC RELAY SLIDE SWITCH (STATION NAME)		
D1 ,2 D1 ,2 D3 ,4 D5 -8 D5 -8			HSS104 1SS133 KV1236(Z2) HSS104 1SS133	DIODE DIODE VARIABLE CAPACITANCE DIODE DIODE DIODE		
D10 -14 D10 -14 D20 D20 D24 -27			HSS104 1SS133 HZS6.2N(B) RD6.2ES(B) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D24 -27 D29 -40 D29 -40 D41 D41			1SS133 HSS104 1SS133 HZS5.1N(B2) RDS.1ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D42 -46 D42 -46 D47 -52 D53 D53		*	HSS104 1SS133 S5566B HZS5.1N(B2) RDS.1ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D54 -56 D54 -56 D57 D60 ,61 D60 ,61		*	HSS104 1SS133 S5566B HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		
FL1 IC1 IC2 IC3 IC4	2B		FIP12PM7 LM7001 LA1265 LA7910 AN7470	FLUORESCENT INDICATOR TUBE IC(PLL FREQUENCY SYNTHESIZER) IC(FM/AM TUNER) IC(ELECTRON TV TUNER BAND SEL) IC(FM MPX)		
IC8 IC10 IC12 IC13 IC14			CXP5016-210S UPC7805HF M5223P TC4013BP M5223P	IC(MICROPROCESSOR) IC(VOLTAGE REGULATOR/ +5V) IC(OP AMP X2) IC(D FLIP-FLOP X2) IC(OP AMP X2)		
Q1 Q2 Q2 Q3 Q4 -7			2SC1923(R,θ) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SC1845(F,E) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q4 -7 Q8 Q8 Q9 Q10			2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SK364(GR,BL) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR FET TRANSISTOR		
Q10 Q11 Q12 Q12 Q13 ,14			2SA933S(Q,R) 2SK364(GR,BL) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P)	TRANSISTOR FET TRANSISTOR TRANSISTOR TRANSISTOR		

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Q13 ,14 Q15 ,16 Q18 -21 Q18 -21 Q22			2SA933S(Q,R) 2SD1302(S,T) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q22 Q23 Q23 Q24 -26 Q24 -26			2SA933S(Q,R) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q28 Q28 Q29 ,30 Q31 Q32			2SA733(A)(Q,P) 2SA933S(Q,R) 2SD1266(Q,P) 2SB764(E,F) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q32 Q33 Q34 Q34 Q35 ,36			2SC945(A)(Q,P) 2SD863(E,F) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q35 ,36 Q37 Q38 Q38			2SC945(A)(Q,P) 2SK364(GR,BL) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR FET TRANSISTOR TRANSISTOR		
SWITCH UNIT (X13-5842-71)						
D1 ,2 S1 -27 S28			B30-1011-05 S40-1064-05 S29-1149-05	LED(SLP-481C-50) PUSH SWITCH (DIGIT,POWER) ROTARY SWITCH (TUNING)		
FRONT-END UNIT (X86-1052-70)						
C1 C2 C3 C4 C5			CC41FSL1H060D C93-0012-05 CC41FSL1H100D C93-0012-05 CK41FB1H221K	CYLND CHIP C 6.0PF D CYLND CHIP C 0.01UF M CYLND CHIP C 10PF D CYLND CHIP C 0.01UF M CYLND CHIP C 220PF K		
C6 C7 C8 C9 C10			CC41FSL1H100D CC41FSL1H060D CC41FSL1H100D CK41FB1H221K C93-0012-05	CYLND CHIP C 10PF D CYLND CHIP C 6.0PF D CYLND CHIP C 10PF D CYLND CHIP C 220PF K CYLND CHIP C 0.01UF M		
C11 C12 C13 C14 C16		*	CK41FY1E102M CC41FSL1H030C CC41FSL1H100D C93-0012-05 CC41FSL1H080D	CYLND CHIP C 1000PF M CYLND CHIP C 3.0PF C CYLND CHIP C 10PF D CYLND CHIP C 0.01UF M CYLND CHIP C 8.0PF D		
C17 C18 C19 C20 C21			CC41FSL1H330J CC41FSL1H150J CC41FSL1H010C CK41FY1E102M CC41FSL1H470J	CYLND CHIP C 33PF J CYLND CHIP C 15PF J CYLND CHIP C 1.0PF C CYLND CHIP C 1000PF M CYLND CHIP C 47PF J		
TC1			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF)		
L1 L2 L3			L31-0551-05 L31-0552-05 L31-0553-05	FM-RF COIL FM-RF COIL FM-RF COIL		

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L4 L5 L6 L7		*	L40-1092-16 L31-0554-05 L30-0427-15 L32-0318-05	SMALL FIXED INDUCTOR(1UH,M) FM-RF COIL FM IFT FM OSCILLATING COIL		
J1 -4 R1 R2 R3			R92-0350-05 R92-0338-05 RD41FB2B473J RD41FB2B104J RD41FB2B470J	JUMPER WIRE (RESISTOR TYPE) CYLND CHIP R 0 OHM CYLND CHIP R 47K J 1/8W CYLND CHIP R 100K J 1/8W CYLND CHIP R 47 J 1/8W		
R4 R5 R6 ,7 R8 ,9 R11			RD41FB2B331J RD41FB2B101J RD41FB2B473J RD41FB2B104J RD41FB2B101J	CYLND CHIP R 330 J 1/8W CYLND CHIP R 100 J 1/8W CYLND CHIP R 47K J 1/8W CYLND CHIP R 100K J 1/8W CYLND CHIP R 100 J 1/8W		
R12 R13 R14 R15 ,16 R17			RD41FB2B681J RD41FB2B104J RD41FB2B472J RD41FB2B223J RD41FB2B222J	CYLND CHIP R 680 J 1/8W CYLND CHIP R 100K J 1/8W CYLND CHIP R 4.7K J 1/8W CYLND CHIP R 22K J 1/8W CYLND CHIP R 2.2K J 1/8W		
R18 R19 ,20			RD41FB2B224J RD41FB2B101J	CYLND CHIP R 220K J 1/8W CYLND CHIP R 100 J 1/8W		
D1 -4 Q1 Q2 Q3 Q4 ,5		*	KV1310-4 2SK302(Y,GR) 3SK131(M,L) 2SK302(Y,GR) 2SC2714(R,0)	VARIABLE CAPACITANCE DIODE FET FET FET TRANSISTOR		

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SPECIFICATIONS

[FM Tuner section]

Frequency range	87.5 MHz - 108 MHz
Sensitivity at 75 Ω	
MONO: S/N 26 dB,	
40 kHz Dev.	0.9 μ V
STEREO: S/N 46 dB,	
46 kHz Dev.	30 μ V
Limiting level	
at 75 Ω - 3 dB	
point, 40 kHz Dev. ...	0.7 μ V
Frequency response	
30 Hz - 15 kHz	± 1 dB
Total harmonic distortion	
MONO: 1 kHz, 40 kHz	
Dev.	0.08%
STEREO: 1 kHz,	
46 kHz Dev.	0.15%
Signal-to-Noise ratio	
unweighted	
MONO: 40 kHz Dev.:	
65.2 dBf input	65 dB (DIN)
STEREO: 46 kHz Dev.:	
65.2 dBf input	60 dB (DIN)
Signal-to-Noise ratio	
weighted	
MONO: 40 kHz Dev.:	
65.2 dBf input	69 dB (DIN)
STEREO: 46 kHz Dev.:	
65.2 dBf input	62 dB (DIN)
Capture ratio	2 dB
Alternate channel	
selectivity	70 dB (DIN: ± 300 kHz)
FM stereo separation:	
65.2 dBf input	
1 kHz	52 dB
6.3 kHz	37 dB
Image rejection ratio	
(98 MHz)	75 dB
IF rejection ratio	
(98 MHz)	90 dB
Spurious rejection ratio	
(98 MHz)	95 dB
AM suppression ratio ...	70 dB
Sub-carrier suppression	
ratio	
do. 19 kHz, 46 kHz,	
Dev.	65 dB
do. 38 kHz, 46 kHz,	
Dev.	65 dB
Output level/impedance	
at 1 kHz, 100% Dev. .	0.6 V/3.3 k Ω

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

[MW Tuner section]

Tuning frequency	
range:	531 kHz ~ 1602 kHz
Usable sensitivity:	10 μ V (600 μ V/m)
Signal-to-noise ratio:	50 dB
Total harmonic	
distortion:	0.3 %
Selectivity:	25 dB

[LW Tuner section]

Tuning frequency	
range:	153 kHz ~ 281 kHz
Usable sensitivity:	10 μ V (800 μ V/m)
Signal-to-noise ratio:	50 dB
Total harmonic	
distortion:	0.3 %
Selectivity:	30 dB

[Clock, timer section]

Timer type:	1 day, 2 programs
Timer set interval:	0 ~ 23 hr. 59 min.
Clock display:	24 hour display
Sleep timer display:	10 ~ 60 min. (10 min. intervals)

[General]

Power consumption:	12 W
Dimensions:	W: 360 mm (14-3/16")
	H: 65 mm (2-9/16")
	D: 340 mm (13-3/8")
Weight:	3.7 kg (8.1 lb)

Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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