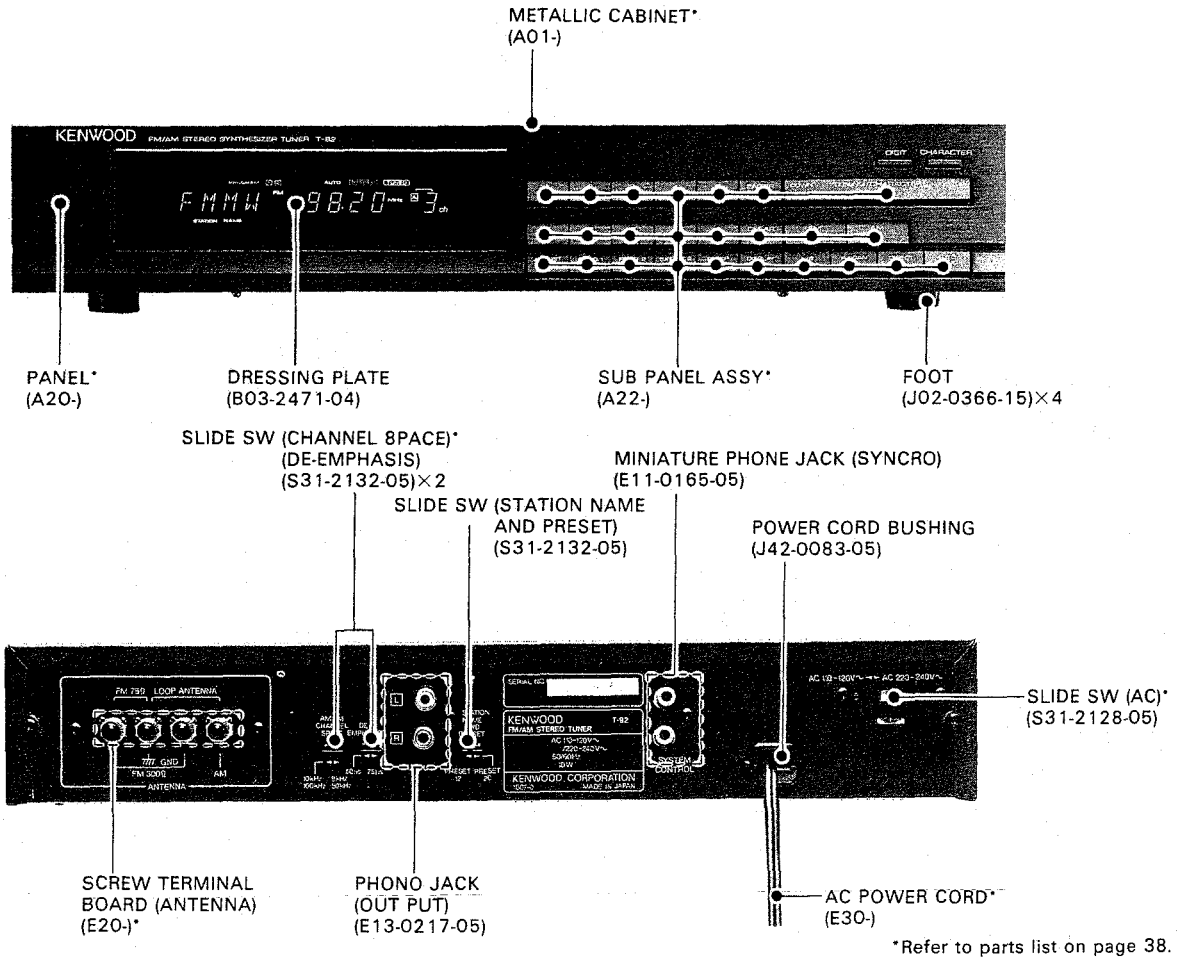
FM/AM STEREO SYNTHESIZER TUNER

T-92/92L

SERVICE MANUAL

KENWOOD

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B51-3612-00 (G) 2,663



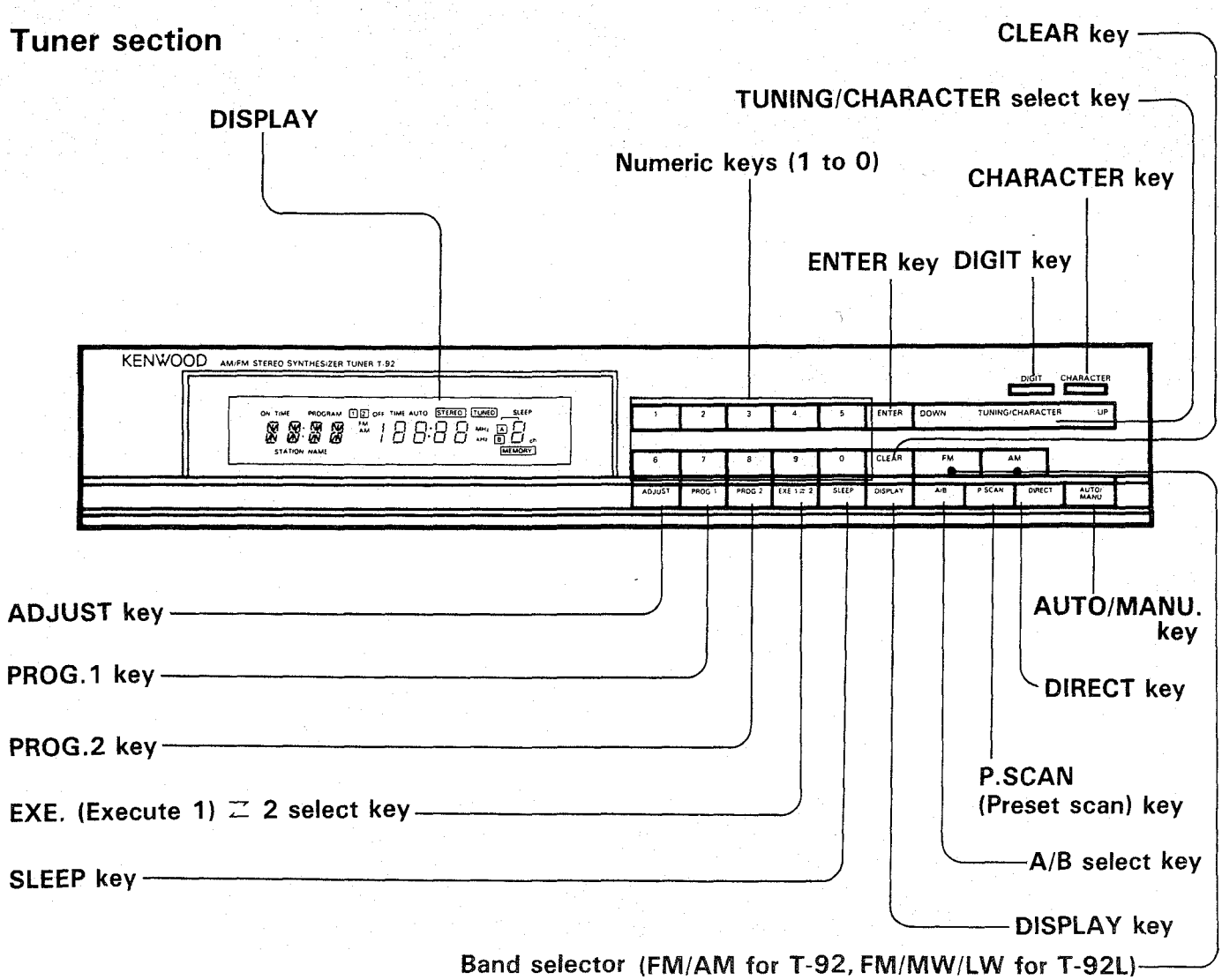
*Refer to parts list on page 38.

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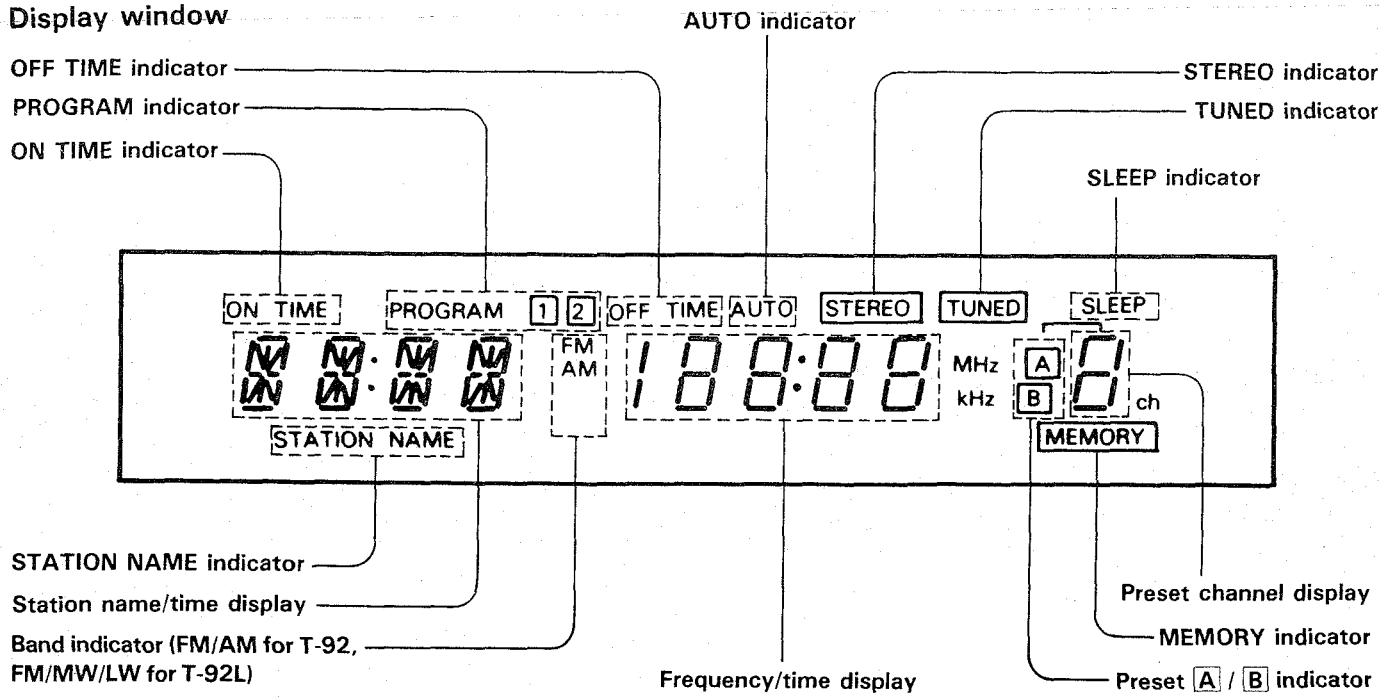
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CONTROLS AND INDICATORS

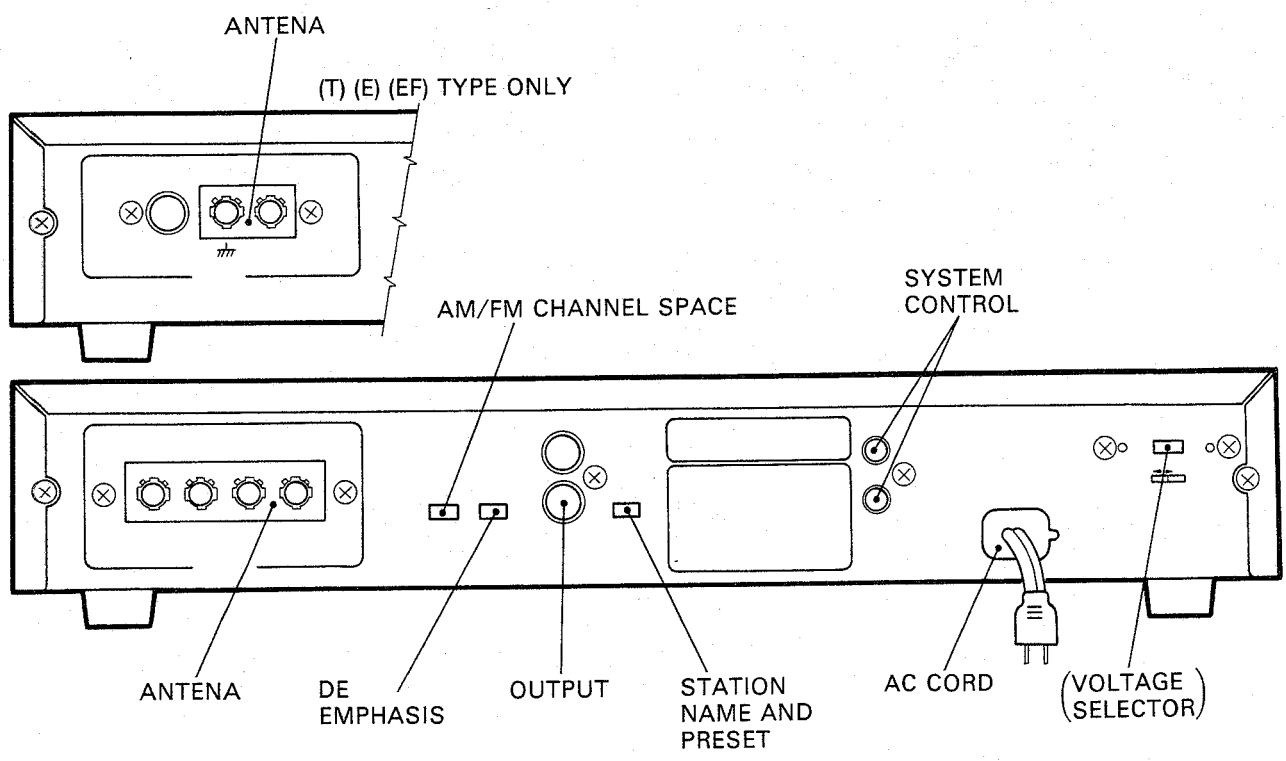
Tuner section



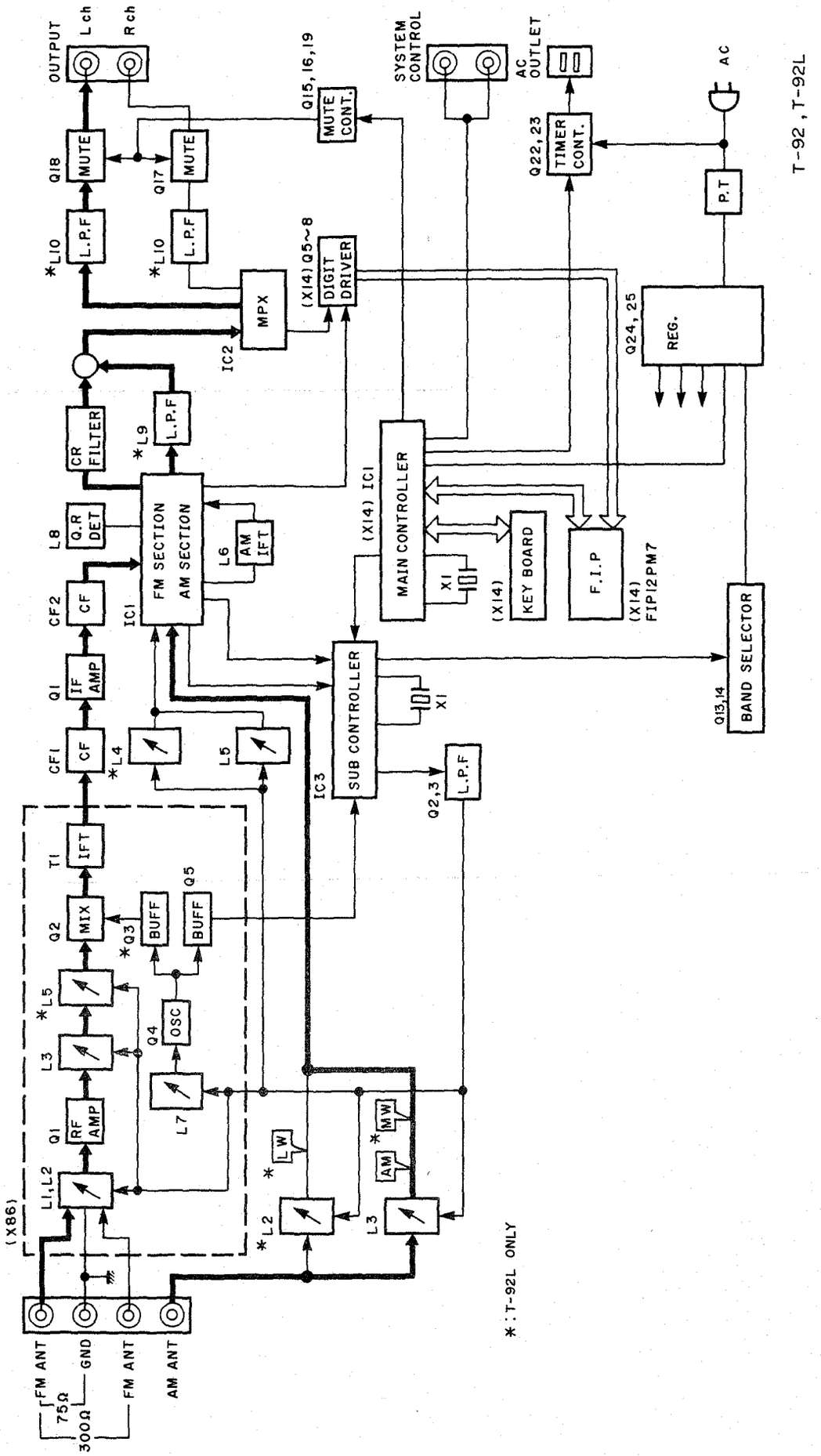
Display window



CONTROLS AND INDICATORS



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Function of components
Tuner unit (X05-3580-10)

Component	Purpose, Function	Operation, Condition, Interchangeability
IC1 (LA1265)	FM/AM system IC	FM IF amplification, detection and control. AM MIX, IF amplification and detection.
IC2 (AN7470)	MPX IC	MPX demodulation.
IC3 (LM7001)	Frequency synthesizer PLL IC	PLL synthesizer.
Q1	FM IF amplifier	10.7 MHz amplifier.
Q2,3	L.P.F.	LPF for the PLL.
Q4	LPF switching	Time-constant switching during LW reception.
Q5	FM-AM switching	IC1 mode switching. OFF during AM reception.
Q6	LPF control	Q4 control, OFF for LW reception.
Q7,8	AM RF switching	Electronic RF switching for LW and MW.
Q9,10	AM OSC switching	Electronic OSC switching for LW and MW.
Q11	Buffer	Impedance conversion.
Q12	Inverter amplifier	Auto Stop control.
Q13,14	Tuner band switching	FM/MW/LW band switching
Q15,16	Mute control	Operates during function switching.
Q17,18	Mute switching	Activates muting during function switching.
Q19	Mute driver	Operates during function switching.
Q20	Constant voltage	Regulation of +12V.
Q22	Power driver	+12V power supply ON/OFF.
Q23	Power control	Power ON/OFF control.
Q24	Constant voltage	Regulation of +5V.
Q25	Constant voltage	CE control, regulation of +5V.
Q26	Tuner band switching	FM/MW/LW band switching. (T-92L ONLY)

CIRCUIT DESCRIPTION

Display unit (X14-2390-11) IC1 : CXP5016-210S
(X14-2430-11) IC1 : CXP5016-311Q

Component	Purpose, Function	Operation, Condition, Interchangeability
IC1 (CXP5016-210S)	Microprocessor	System control.
Q1	Channel switching	FM-AM channel space switching, or LW channel switching.
Q2	Preset switching	Switching between 20 ch presets and 12 ch presets, station name switching.
Q4	FIP driver	Based on signals from the microprocessor.
Q5	FIP control	Supply of +5V to Q6 at power ON.
Q6	FIP driver	TUNED indicator.
Q7	FIP driver	STEREO indicator.
Q8	FIP driver	FIP display driver.
Q9	Inverter amplifier	Reset control.

Front-end unit (X86-1040-10): T-92

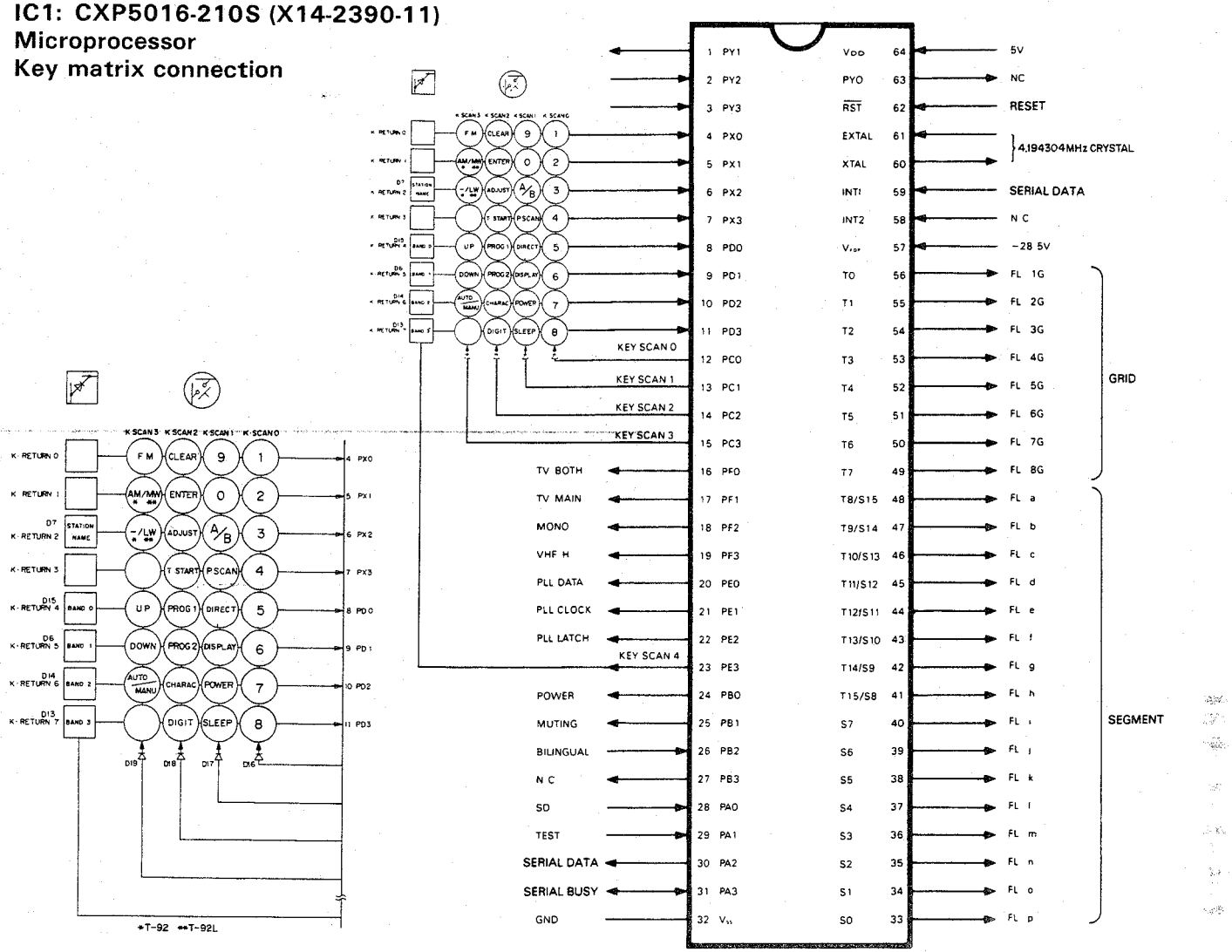
Component	Purpose, Function	Operation, Condition, Interchangeability
Q1	RF amplifier	
Q2	FM mixer	
Q4	OSC buffer	
Q5	OSC	

Front-end unit (X86-1052-70): T-92L

Component	Purpose, Function	Operation, Condition, Interchangeability
Q1	RF amplifier	
Q2	FM mixer	
Q3	Tuned buffer	
Q4	OSC buffer	
Q5	OSC	

CIRCUIT DESCRIPTION

IC1: CXP5016-210S (X14-2390-11)
Microprocessor
Key matrix connection



Functions of diodes and switches

(0: Without diode, 1: With diode)

Destination Type	Set Switches B3	B2	B1	B0	Band	Receiving Frequency Range	Inter-Channel Space	Intermediate Frequency	PLL IC1 (LM7001) PLL Reference Frequency	PLL Input Terminal	PLL Port BO2⑧	BO3⑨	μ-Com IC Port YHFH⑲	Auto Tuning
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					FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	50kHz	FMIN	H	L	L	o
	1	1	0	1	MW	531kHz-1602kHz	9kHz	+450kHz	9kHz	AMIN	L	H	L	o
					LW	153kHz-281kHz	1kHz	+450kHz	1kHz	AMIN	H	H	L	o
E3					FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	50kHz	FMIN	H	L	L	o
	1	1	**1	1	MW	531kHz-1602kHz	9kHz	+450kHz	9kHz	AMIN	L	H	L	o
					LW	153kHz-281kHz	1kHz	+450kHz	1kHz	AMIN	H	H	L	**x

* The T-92 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 T-92L (France made), a diode (ISS133) 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 registor.
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.
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.
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)

TV bilingual multiplexed audio mode control terminals.

Mode \ Port	PF0 ⑯	PF1 ⑰
MAIN	L	H
SUB	H	L
BOTH	H	H

Band selection control terminal.
Selects the band by the combination with BO2 ⑧ and BO3 ⑨ of PLL IC.

Mode \ Port	BO2 ⑧	BO3 ⑨	PF3 ⑲
FM	H	L	L
AM	L	H	L
LW	H	H	L

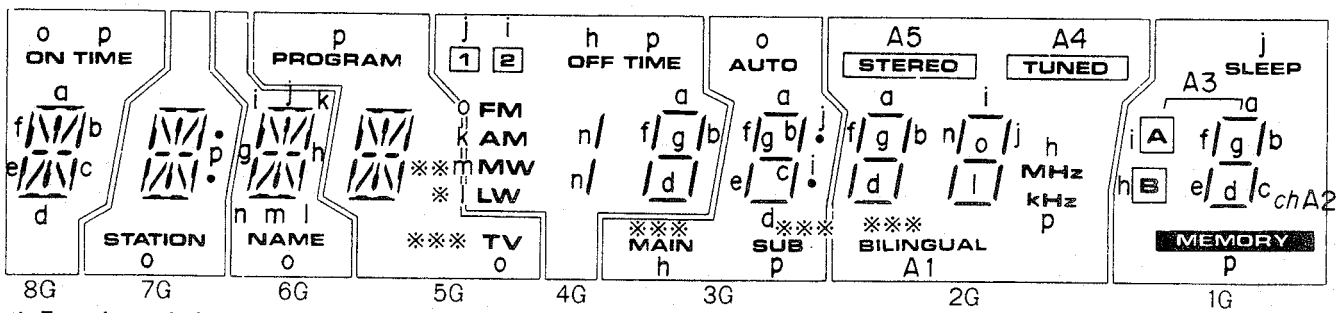
CIRCUIT DESCRIPTION

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	VFDP				FL-ve power supply (-28.5V).
58	INT2		I	H	Not used. Connected to V_{DD}.
59	INT1	DATAI	I	H	System control DATA input.
60	XTAL	CL1	—	—	Clock oscillator terminals. X'tal 4.194304MHz.
61	EXTAL	CL2	—		
62	$\overline{RST}$	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 (X14-2390-11)
(X14-2430-11)

Fluorescent indicator tube

Terminal connection



※ Function only in T-92, ※※ Function only in T-92L

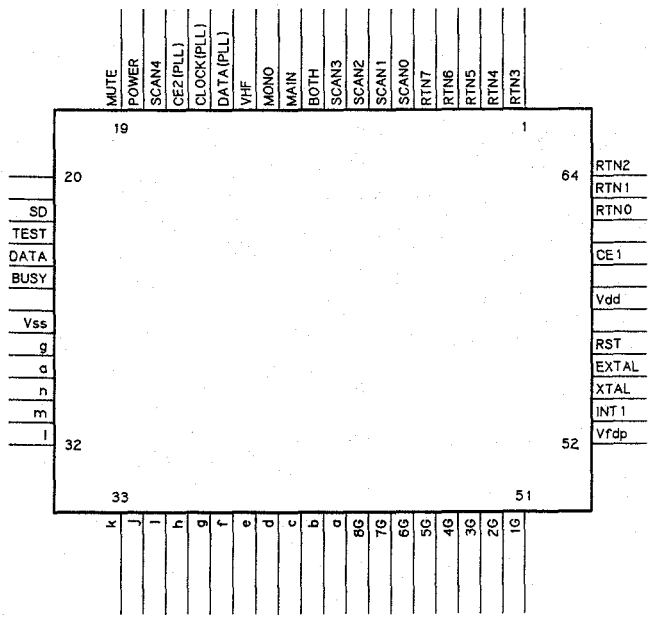
※※※ Does not function

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



Terminal description CPX5016-311Q (X14-2430-00)

Terminal No.	Symbol	Name	I/O	H/L	Function
1 ~ 5	PX3 ~ PD3	KEY RETURN 3 ~ 7	I	H	Key return input. All pulled down (10k to 100k) — H: AC ON, L: AC OFF
6 ~ 9	PC0 ~ PC3	KEY SCAN 0 ~ 3	O	H	Key scanning signals.
10	PF0	TV BOTH	O	H/L	TV bilingual multiplexed audio mode control terminals.
11	PF1	TV MAIN	O	H/L	
12	PF2	MONO	O	H	Mono/Auto stereo control terminal. Permanently L during TV bilingual reception. — H: MONO, L: AUTO STEREO
13	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.
14	PE0	PLL DATA	O	H	PLL IC data output. Connected to LM7001 DATA ⑤ terminal.
15	PE1	PLL CLOCK	O	H	PLL IC clock output. Connected to LM7001 CLK ④ terminal.
16	PE2	PLL LATCH	O	H	PLL IC latch output. Connected to LM7001 CE ③ terminal.
17	PE3	KEY SCAN 4	O	H	Key scanning signal.
18	PB0	POWER	O	H	Relay control terminal. — H: POWER ON, L: POWER OFF
19	PB1	MUTING	O	H	Muting control during band switching, frequency scanning, etc. — H: MUTE ON, L: MUTE OFF
20	PB2	BIL	I	H	
21	PB3	N.C.	O	—	Not used. Pull down with a resistor.
22	PA0	SD	I	H	Stop signal input for auto tuning. — H: TUNE, L: NO SIGNAL
23	PA1	TEST	I	L	Test mode setting input. — H: NORMAL, L: TEST
24	PA2	SDATA	O	H	System control DATA output.
25	PA3	SBUSY	I/O	H	System control BUSY input/output.
26	—	N.C.	—	—	————

TV bilingual multiplexed audio mode control terminals.

Mode \ Port	PFO ⑯	PF1 ⑰
MAIN	L	H
SUB	H	L
BOTH	H	H

Band selection control terminal. Selects the band by the combination with BO2 ⑧ and BO3 ⑨ of PLL IC.

Mode \ Port	BO2 ⑧	BO3 ⑨	PF3 ⑲
FM	H	L	L
AM	L	H	L
LW	H	H	L

CIRCUIT DESCRIPTION

Terminal No.	Symbol	Name	I/O	H/L	Function
27	Vss	GND	—	—	GND terminal.
28	S0	p	O	H	FL segment drive terminal (FL segment terminal p)
29	S1	o	O	H	FL segment drive terminal (FL segment terminal o)
30	S2	n	O	H	FL segment drive terminal (FL segment terminal n)
31	S3	m	O	H	FL segment drive terminal (FL segment terminal m)
32	S4	l	O	H	FL segment drive terminal (FL segment terminal l)
33	S5	k	O	H	FL segment drive terminal (FL segment terminal k)
34	S6	j	O	H	FL segment drive terminal (FL segment terminal j)
35	S7	i	O	H	FL segment drive terminal (FL segment terminal i)
36	T15/S8	h	O	H	FL segment drive terminal (FL segment terminal h)
37	T14/S9	g	O	H	FL segment drive terminal (FL segment terminal g)
38	T13/S10	f	O	H	FL segment drive terminal (FL segment terminal f)
39	T12/S11	e	O	H	FL segment drive terminal (FL segment terminal e)
40	T11/S12	d	O	H	FL segment drive terminal (FL segment terminal d)
41	T10/S13	c	O	H	FL segment drive terminal (FL segment terminal c)
42	T9/S14	b	O	H	FL segment drive terminal (FL segment terminal b)
43	T8/S15	a	O	H	FL segment drive terminal (FL segment terminal a)
44	T7	8G	O	H	FL grid drive terminal (FL grid terminal 8G)
45	T6	7G	O	H	FL grid drive terminal (FL grid terminal 7G)
46	T5	6G	O	H	FL grid drive terminal (FL grid terminal 6G)
47	T4	5G	O	H	FL grid drive terminal (FL grid terminal 5G)
48	T3	4G	O	H	FL grid drive terminal (FL grid terminal 4G)
49	T2	3G	O	H	FL grid drive terminal (FL grid terminal 3G)
50	T1	2G	O	H	FL grid drive terminal (FL grid terminal 2G)
51	T0	1G	O	H	FL grid drive terminal (FL grid terminal 1G)
52	VFDP				FL-ve poewr supply (−28.5V)
53	INT1	DATA1	I	H	System control DATA input.
54	XTAL	CL1	—	—	Clock oscillator terminals. X'tal 4.194304MHz.
55	EXTAL	CL2	—		
56	RST	RESET	I	H	Reset signal input. H: NORMAL L: RESET
57	PY0		O	H	Not used. Open (On the PC board, make it capable of being pulled up.)
58	VDD				+B terminal (5V).
59	PY1	N.C.	O	H	Not used. On the PC board, make it capable of being pulled up using a registor.
60	PY2	C.E.	I	H	Backup (AC OFF) detection terminal. H: AC ON When L level is detected, the backup condition is set and the clock is stopped. L: AC OFF Note: The rise from L to H shall be faster than the rise of reset.
61	PY3	N.C.	I	—	Not used. On the PC board, make it capable of being pulled up using a register.
62 ~ 64	PX0 ~ PX2	KEY RETURN 0 ~ 2	I	H	KEY RETURN INPUT

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 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 TP10(VT) and TP11(GND).	87.5MHz	L7 (Front end)	2.5V	(a)
2	BAND EDGE (2)	–	Connect a DC voltmeter between TP10(VT) and TP11(GND).	108.0MHz	TC1 (Front end)	8.0V	(a)
		Repeat alignments 1 and 2 several times.					
3	RF ALIGNMENT	(A) 98.0MHz 1kHz,±75kHz dev	(B)	MONO 98.0MHz	L2,3,5 (Front end)	Maximum amplitude and symmetry of the oscilloscope display.	
4	DISCRIMINATOR	(A) 98.0MHz 1kHz,±75kHz dev 60dBμ(ANT input)	Connect a DC voltmeter between TP1 and TP2.	MONO 98.0MHz	L8	0V	(b)
5	VCO	(A) 98.0MHz 0 dev 60dBμ(ANT input)	Connect a 330kΩ resistor to TP8. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR3	19.00kHz	(c)
6	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25kHz dev Selector:L or R 60dBμ(ANT input)	(B)	98.0MHz	T1 (Front end)	Minimum distortion. (L or R)	
7	SEPARATION (E,T only)	(C) 98.0MHz 1kHz,±68.25kHz dev Selector:L or R 60dBμ(ANT input)	(B)	98.0MHz	VR4 ※	Minimum crosstalk.	
8	TUNING LEVEL	(A) 98.0MHz 0 dev 18dBμ(ANT input)	–	98.0MHz	VR1	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(T-92) or MW(T-92L)			
(1)	BAND EDGE (1)	–	Connect a DC voltmeter between TP10(VT) and TP11(GND).	530kHz (531kHz)	L5	1.5V	(a)
(2)	BAND EDGE (2)	–	Connect a DC voltmeter between TP10(VT) and TP11(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	L3	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(T-92L only)		Keep the AM loop antenna installed.		SELECTOR: LW			
(5)	BAND EDGE (1)	–	Connect a DC voltmeter between TP10(VT) and TP11(GND).	153kHz	L4	1.5V	(a)
(6)	BAND EDGE (2)	–	Connect a DC voltmeter between TP10(VT) and TP11(GND).	281kHz	TC3	8.0V	(a)
		Repeat alignments (5) and (6) several times.					
(7)	RF ALIGNMENT (1)	(D) 162kHz 400Hz,30% mod	(B)	162kHz	L2	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 25dBμ(ANT input)	–	1000(999)kHz	VR2	Adjust VR2 so that FL1(TUNED) goes off. Then, adjust VR4 and stop at the point where FL1(TUNED) goes on.	

※ VR4: T-92L only

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 TP10(VT) et TP11(GND).	87,5MHz	L7 (Contrôle)	2,5V	(a)
2	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP10(VT) et TP11(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 TP1 et TP2.	MONO 98,0MHz	L8	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	VR3	19,00kHz	(c)
6	DISTORSION (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz dév Selection:L ou R 60dBμ(Entrée ANT)	(B)	98,0MHz	T1 (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	VR4 ※	Diaphonie minimale.	
8	NIVEAU D'ACCORDER	(A) 98,0MHz 0 dév 18dBμ(Entrée ANT)	–	98,0MHz	VR1	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(T-92) ou MW(T-92L)					
(1)	BORD DE BANDE (1)	–	Relier un voltmètre CC entre les TP10(VT) et TP11(GND).	530kHz (531kHz)	L5	1,5V	(a)
(2)	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP10(VT) et TP11(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	L3	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(T-92L seulement)		Laisser l'antenne bouche MA installée. SELECTEUR: LW					
(5)	BORD DE BANDE (1)	–	Relier un voltmètre CC entre les TP10(VT) et TP11(GND).	153kHz	L4	1,5V	(a)
(6)	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP10(VT) et TP11(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	L2	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'ACCORDER	(A) 1000(999)kHz 0 dév 25dBμ(Entrée ANT)	–	1000(999)kHz	VR2	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.	

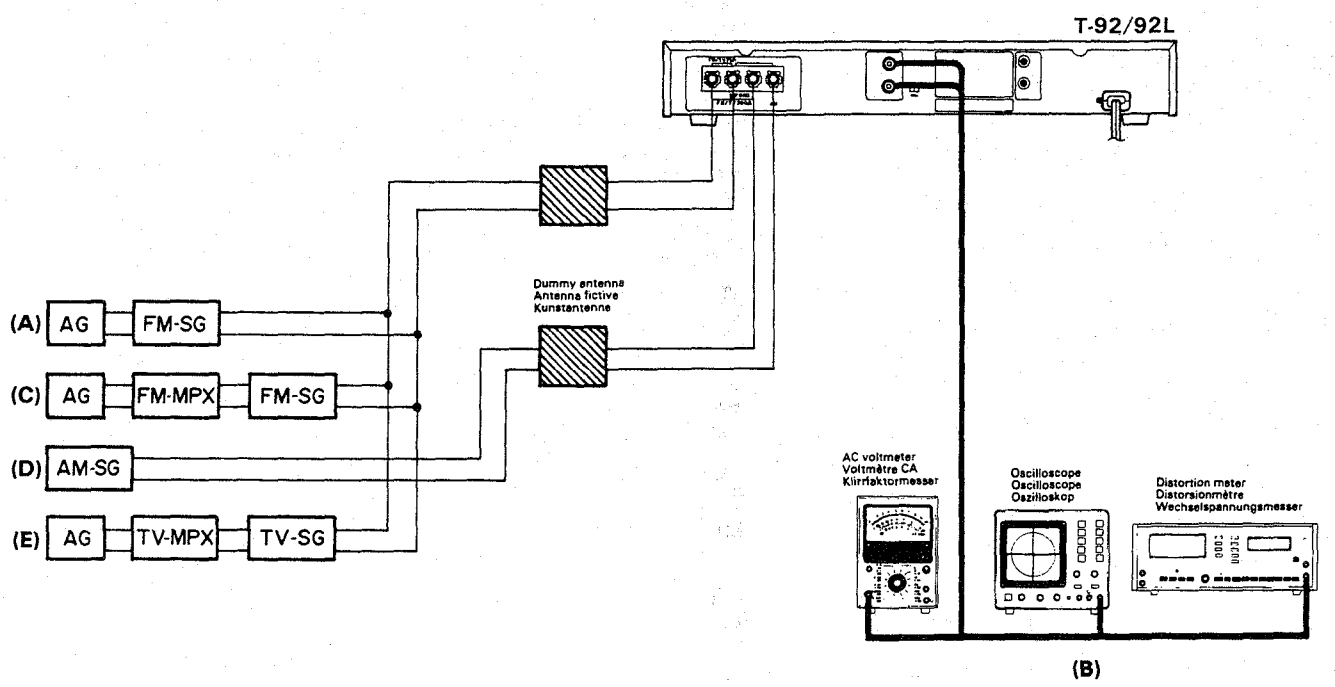
※ VR4: T-92L seulement

ABGLEICH

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 Gleichspannungs-messer zwischen TP10(VT) und TP11(GND) anschließen.	87,5MHz	L7 (Eingangs-stufe)	2,5V	(a)
2	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP10(VT) und TP11(GND) anschließen.	108,0MHz	TC1 (Eingangs-stufe)	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 (Eingangs-stufe)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
4	DISKRIMINATOR	(A) 98,0MHz 1kHz, ±75kHz Hub 60dBμ(ANT Eingang)	Einen Gleichspannungs-messer zwischen TP2 und TP1 anschließen.	MONO 98,0MHz	L8	0V	(b)
5	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dBμ(ANT Eingang)	Einen 330kΩ Wider-standen zu TP8 anschließen. Einen Frequenzzähler über einen Wechselspannungs messer an den Wider-stand anschließen.	98,0MHz	VR3	19,00kHz	(c)
6	KLIRRFACTOR (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz Hub Wähler: L oder R 60dBμ(ANT-Eingang)	(B)	98,0MHz	T1 (Eingangs-stufe)	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	VR4 ※	Minimal Übersprechen.	
8	ABSTIMM PEGEL	(A) 98,0MHz 0 Hub 18dBμ(ANT-Eingang)	–	98,0MHz	VR1	Den Pegel widerstand VR1 so einstellen, deß der FL1(TUNED)anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen. und dem VR1 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	
MW-EMPFANGSABTEILUNG		Die MW-Rahmenantenne angebracht lassen.				SELECTOR: AM(T-92) oder MW(T-92L)	
(1)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP10(VT) und TP11(GND) anschließen.	530kHz (531kHz)	L5	1,5V	(a)
(2)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP10(VT) und TP11(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	L3	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		(nur T-92L) Die MW-Rahmenantenne angebracht lassen.				SELECTOR: LW	
(5)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP10(VT) und TP11(GND) anschließen.	153kHz	L4	1,5V	(a)
(6)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP10(VT) und TP11(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	L2	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	VR2	Den Pegel widerstand VR2 so einstellen, deß der FL1(TUNED)anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen, und dem VR2 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	

※ VR4: nur T-92L

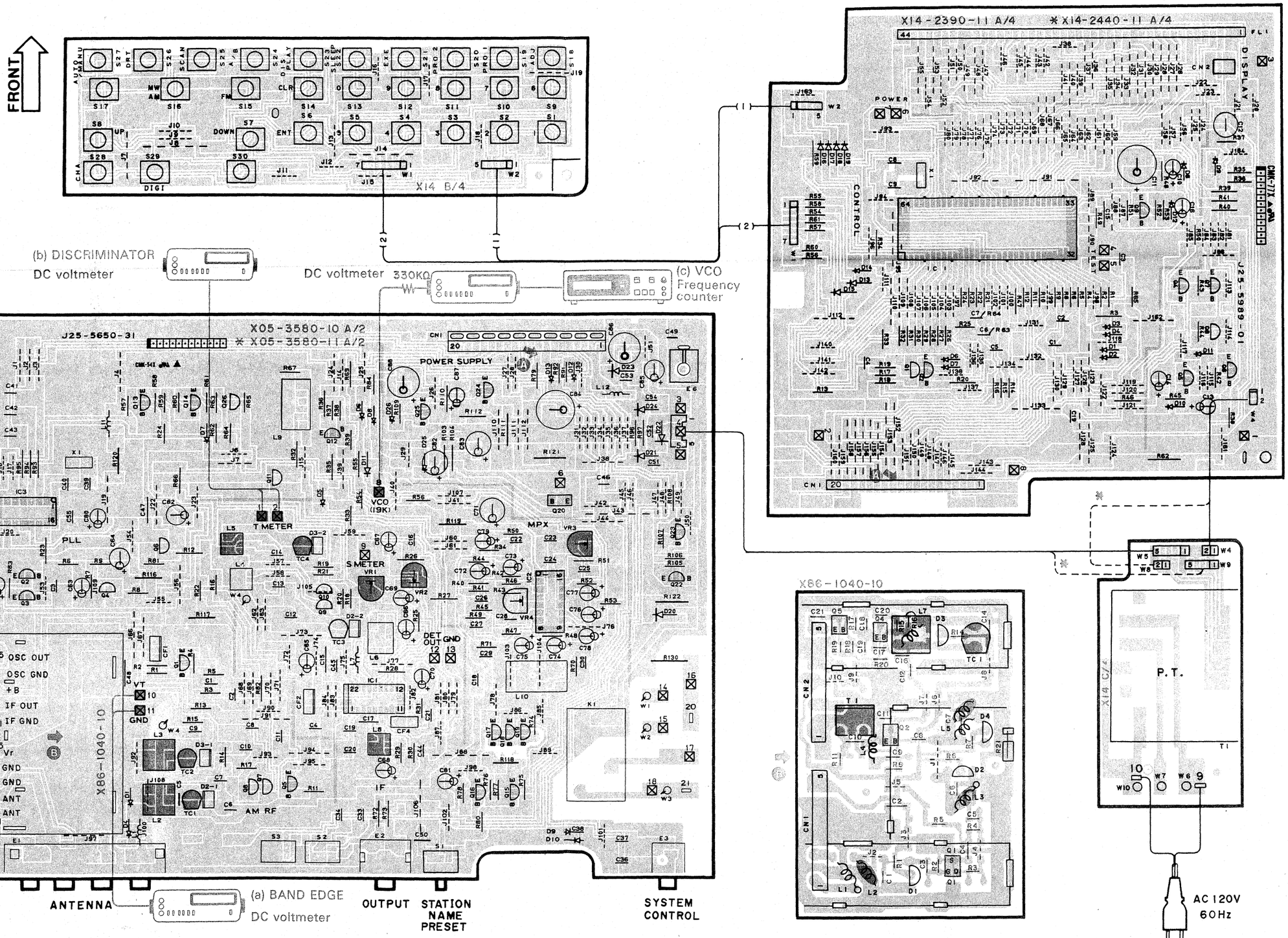
ADJUSTMENT/REGLAGES/ABGLEICH

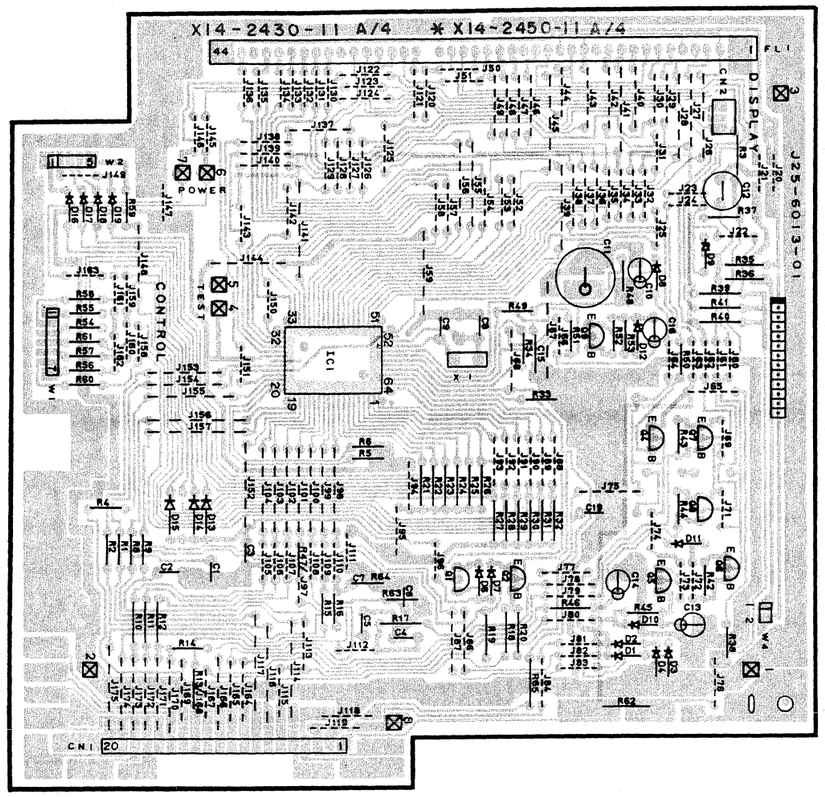


※ When switching the power ON, short-circuit TP6 and TP7 on the X14-board.

PC BOARD

COMPONENT SIDE VIEW





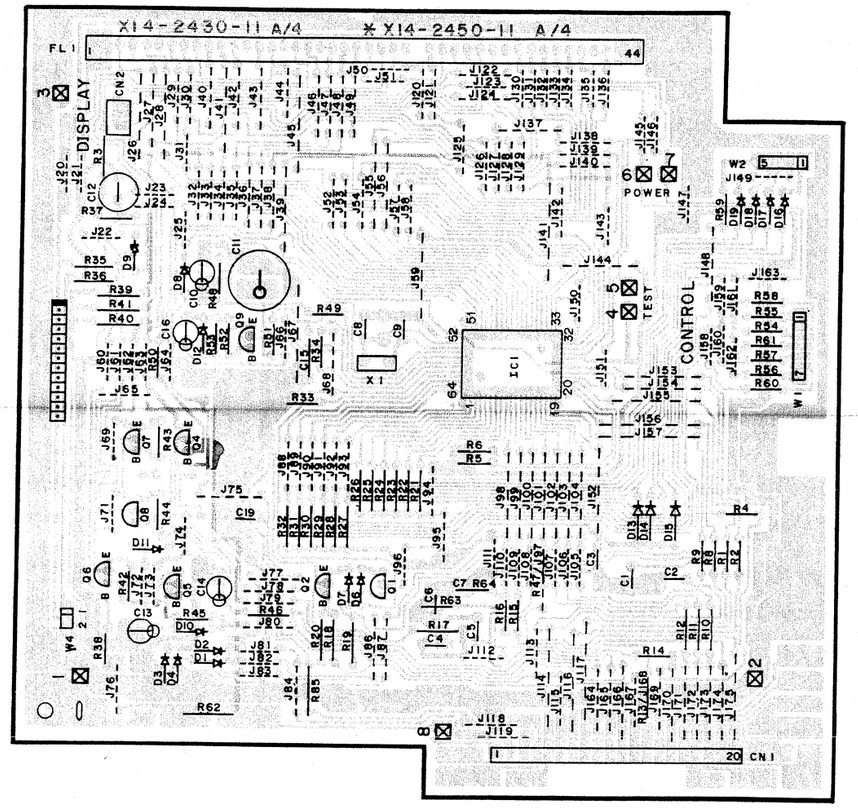
* SINGAPORE MADE

Refer to the schematic diagram for the values of resistors and capacitors.

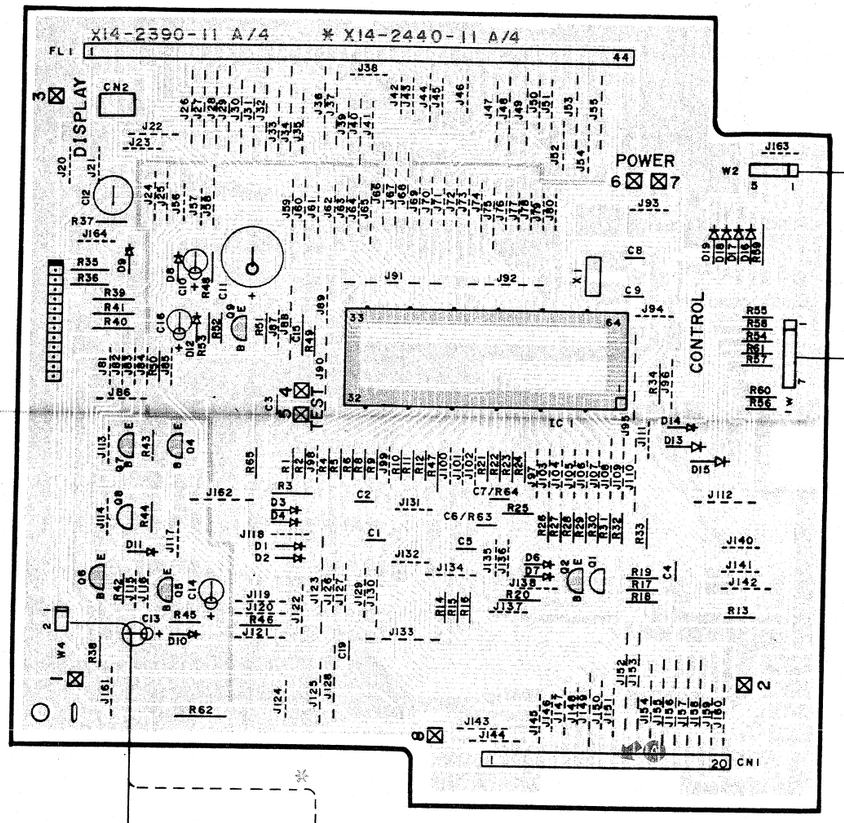
T-92(K)

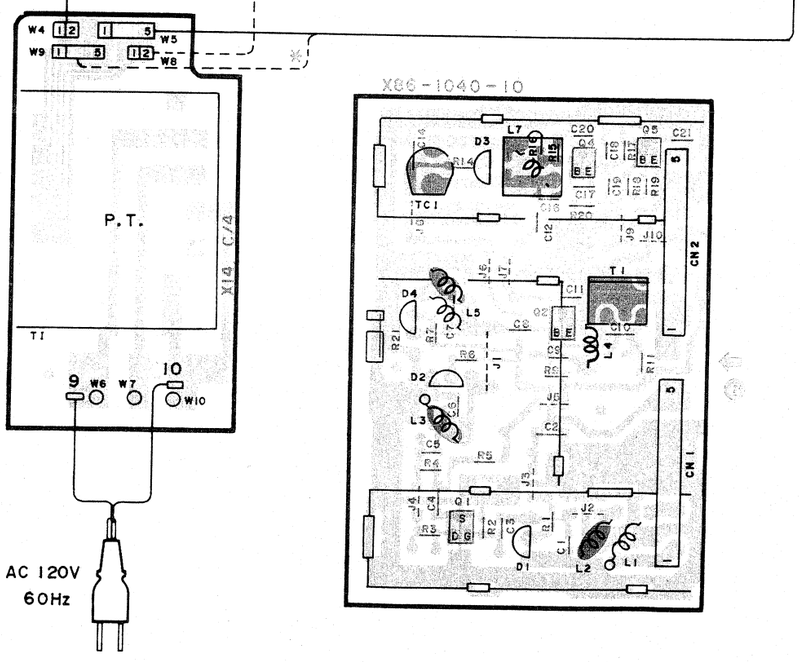
PC BOARD

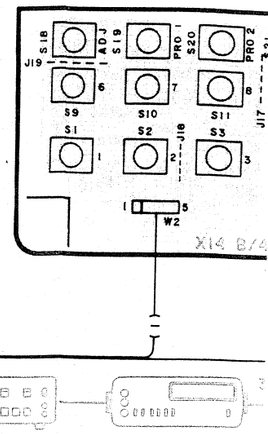
FOIL SIDE VIEW



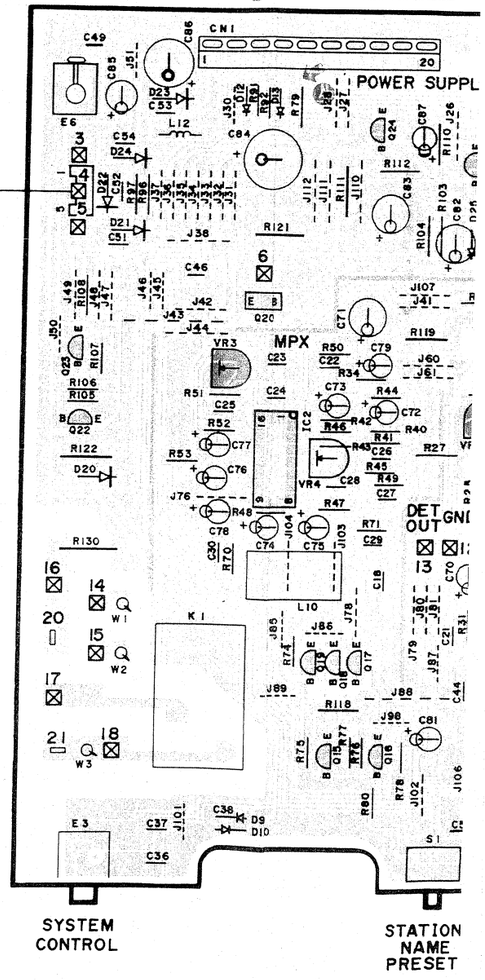
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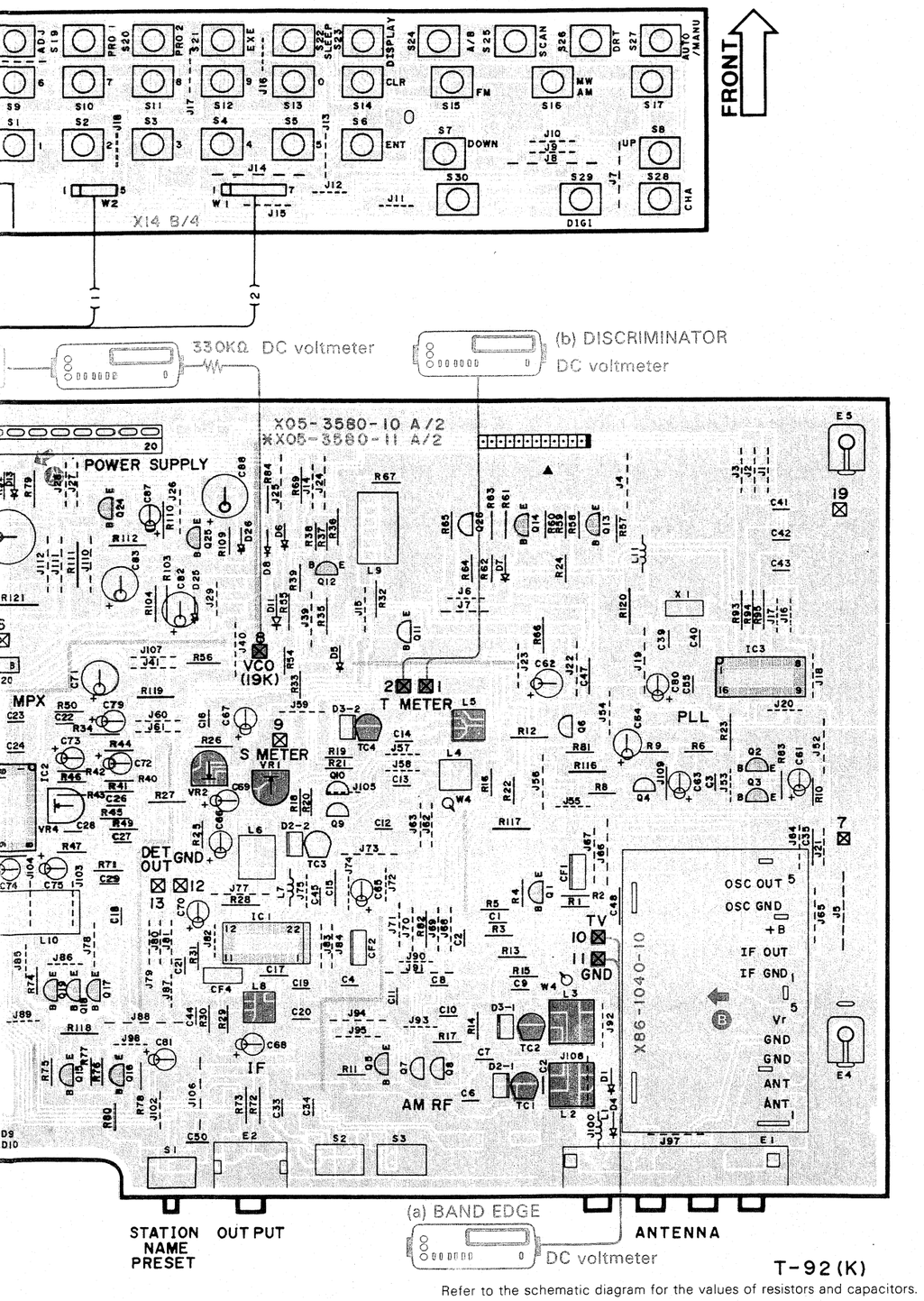


(c) VCO Frequency counter



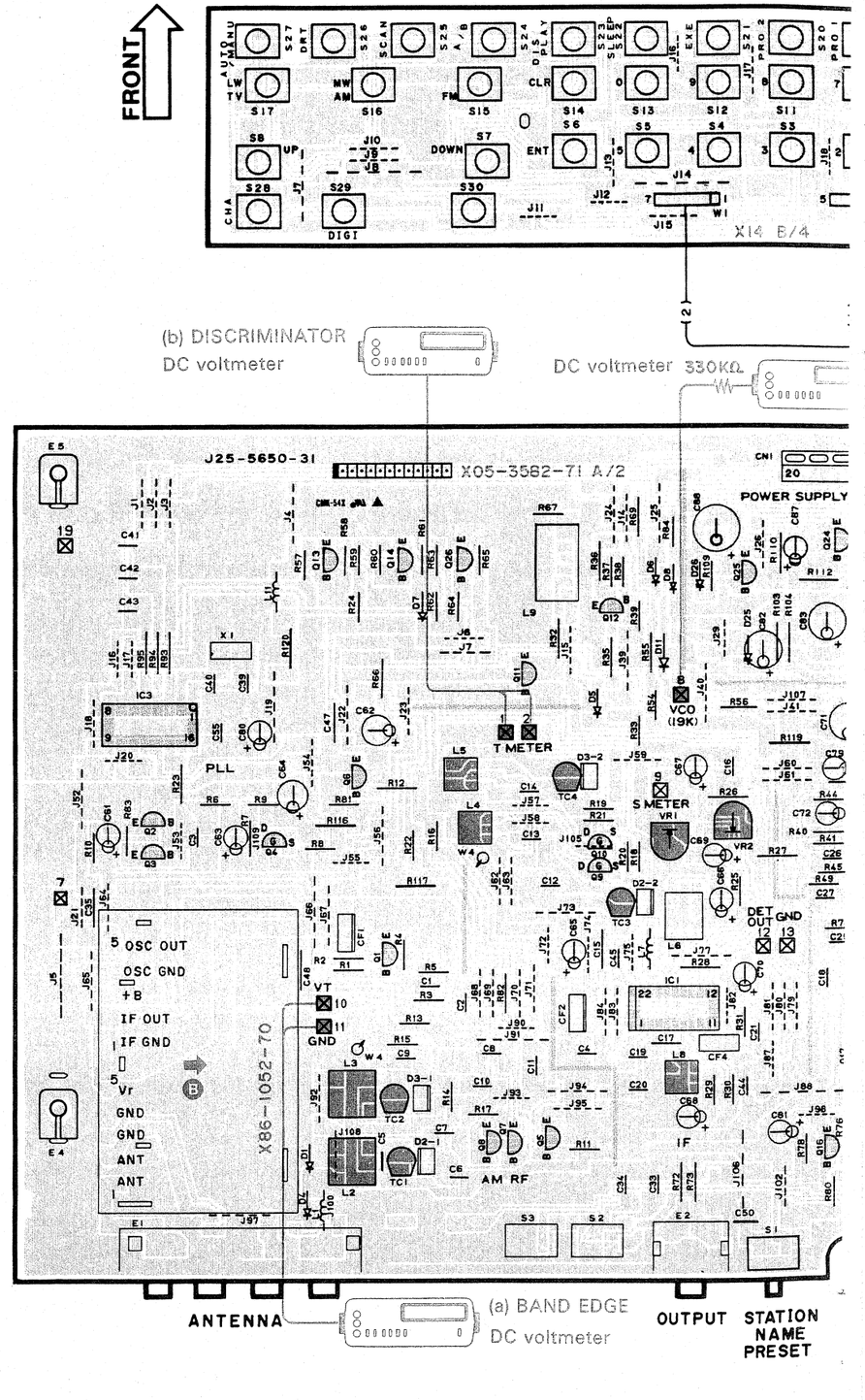
PC BOARD

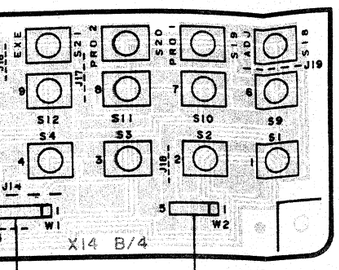
COMPONENT SIDE VIEW

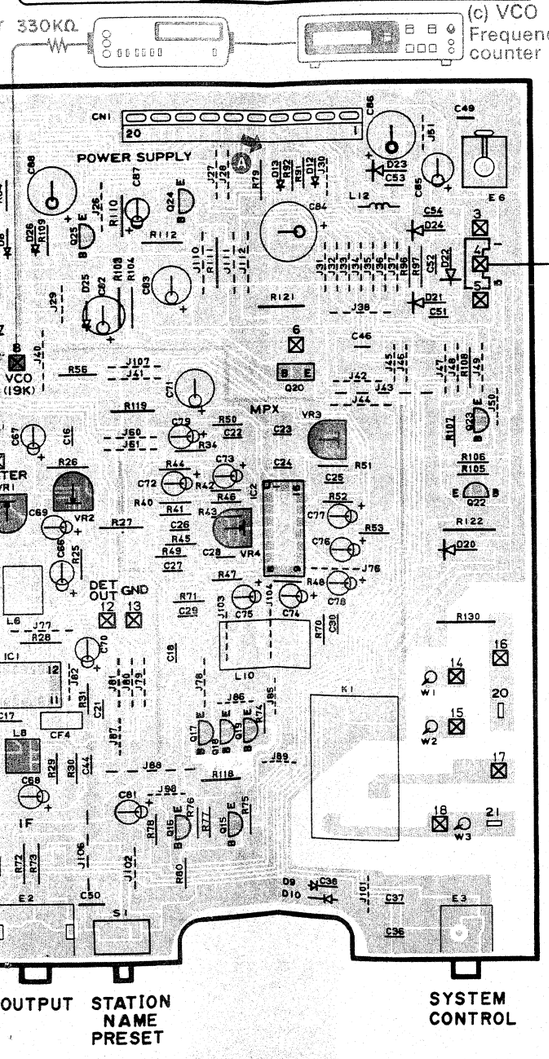


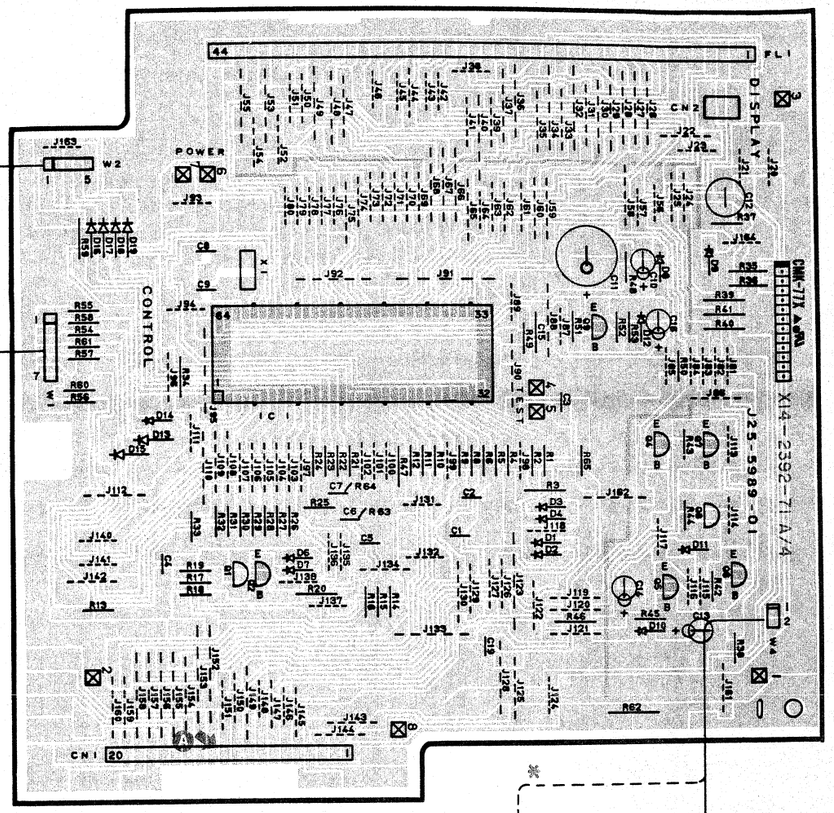
T-92(K)

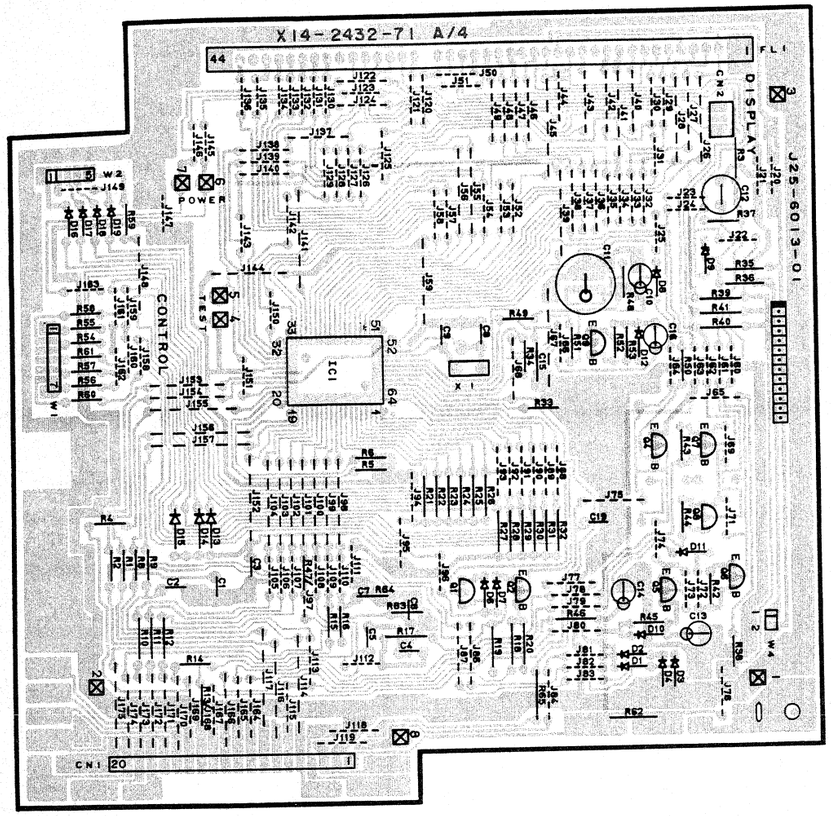
Refer to the schematic diagram for the values of resistors and capacitors.

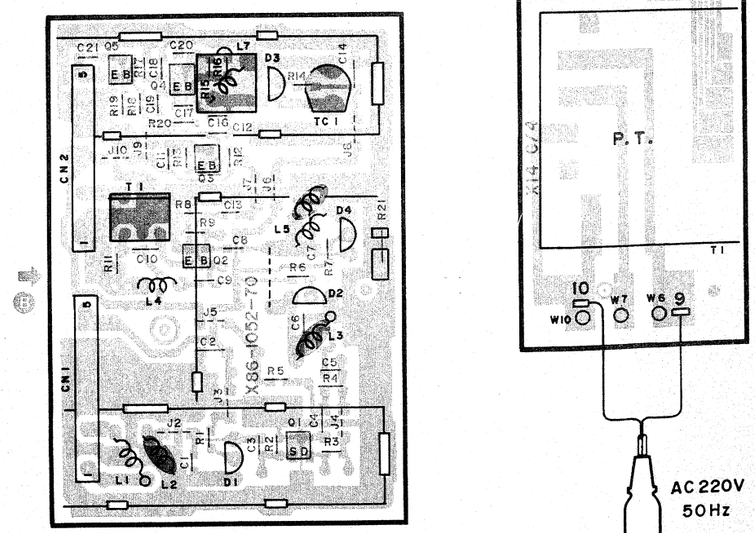










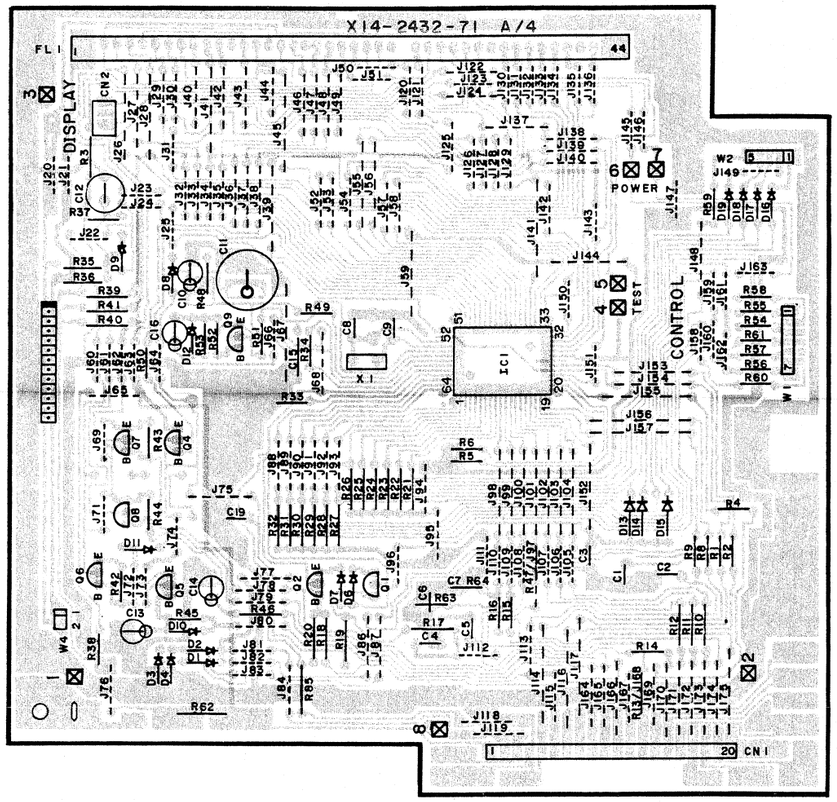


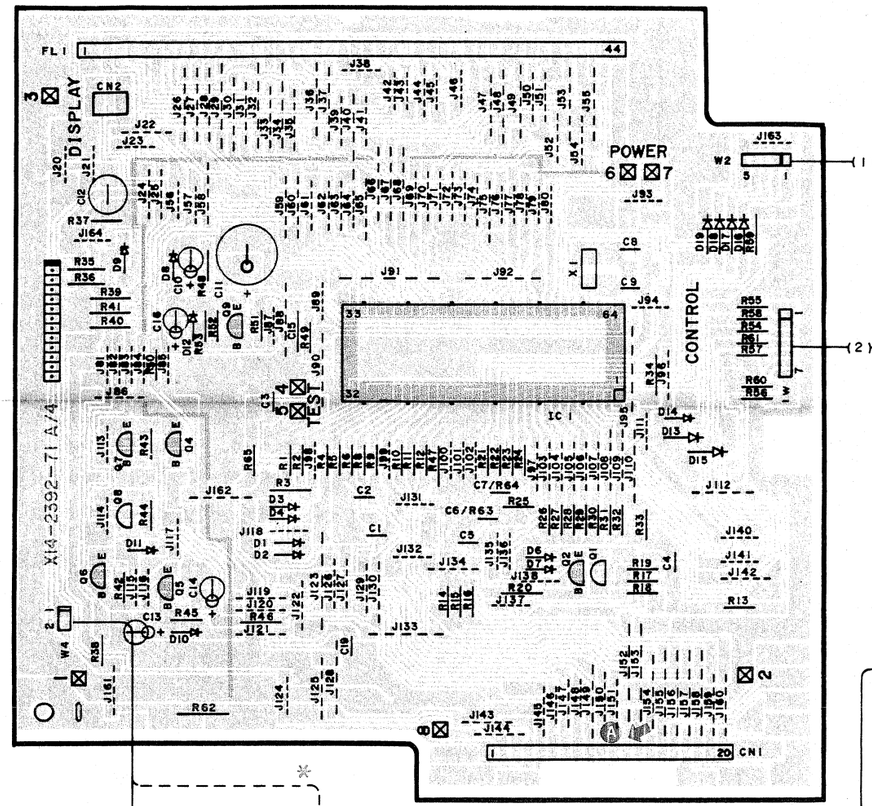
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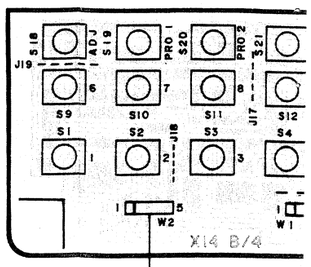
Refer to the schematic diagram for the values of resistors and capacitors.

C BOARD

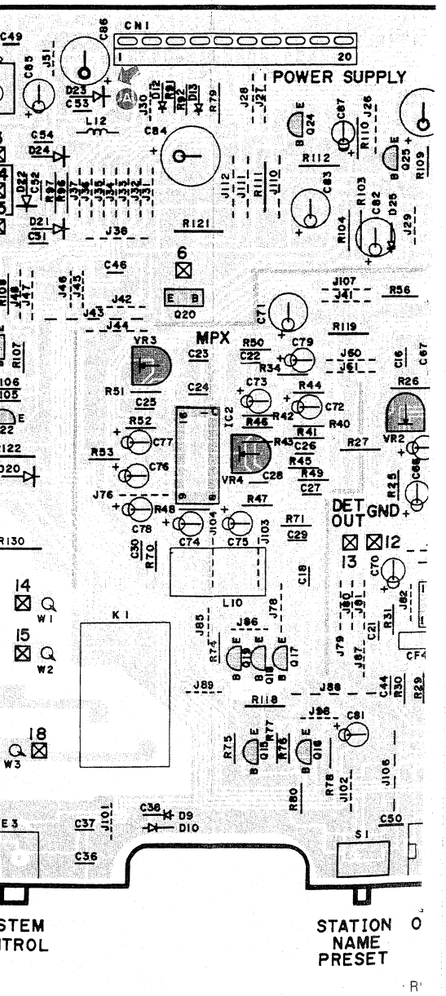
OIL SIDE VIEW

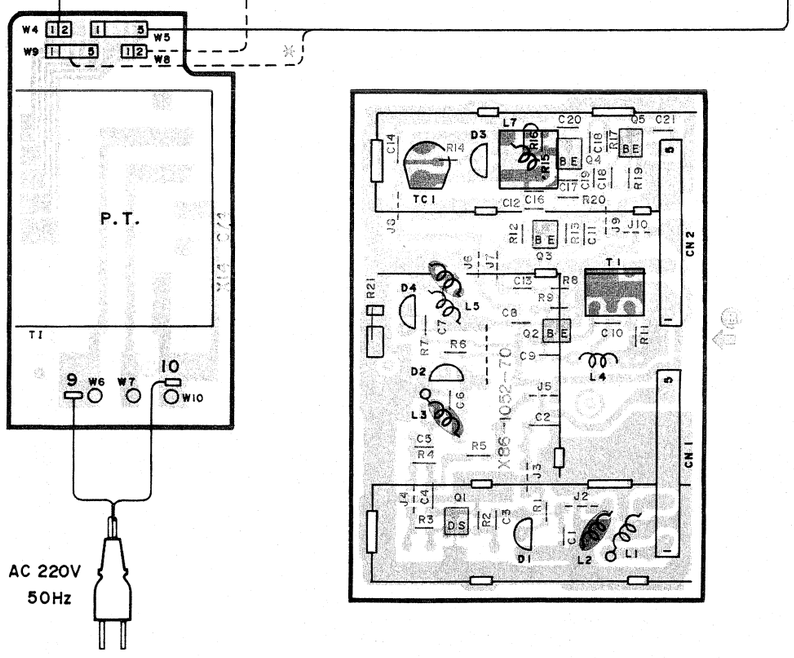


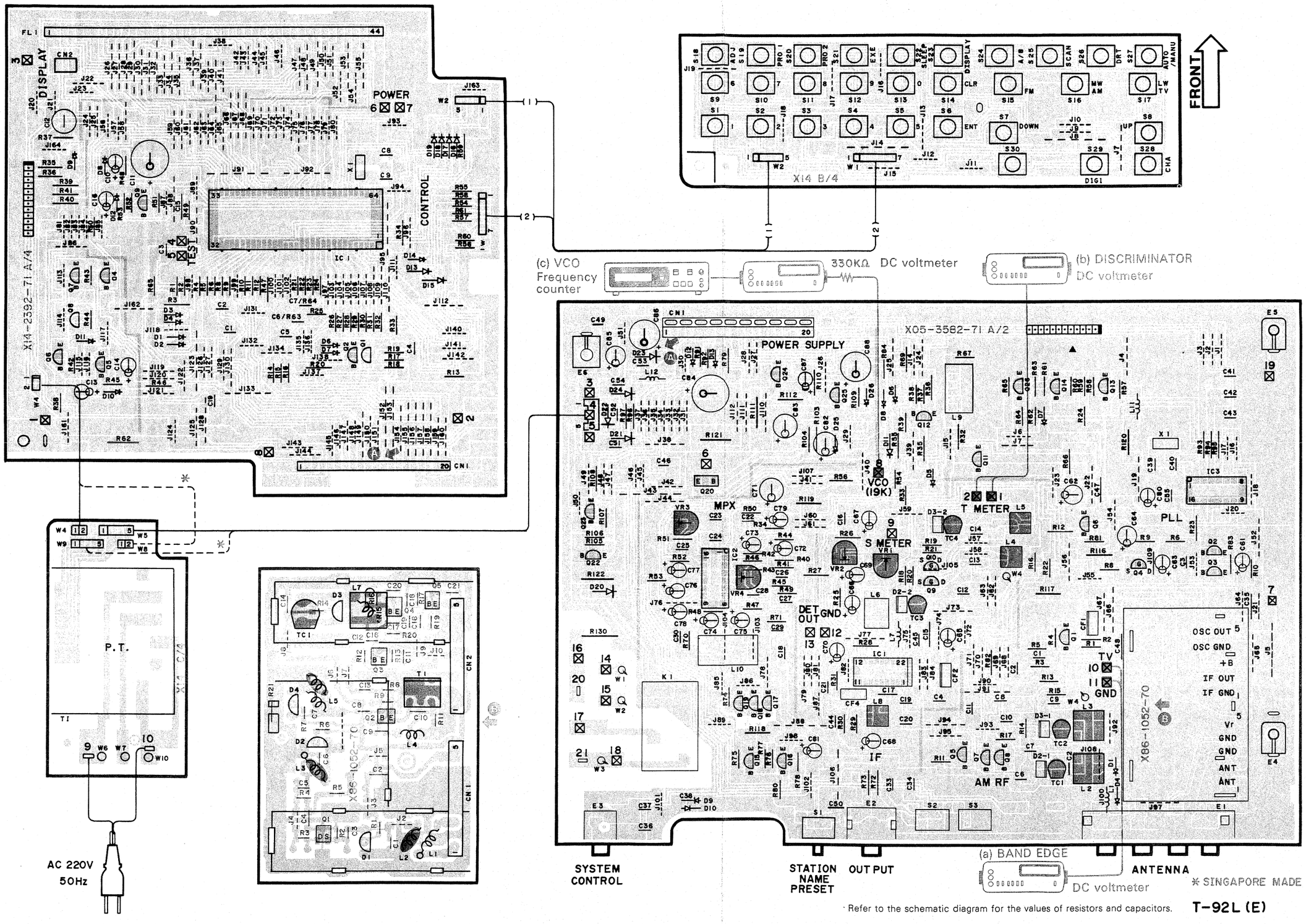




(c) VCO Frequency counter

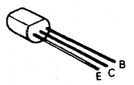




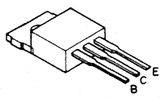


· Refer to the schematic diagram for the values of resistors and capacitors.

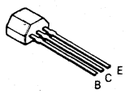
T-92L (E)



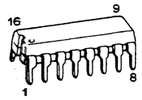
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JC501
2SA733 (A)
2SA999
2SC1845
2SC1923
2SC2003
2SC945 (A)
2SD1302



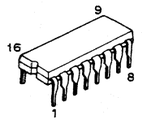
2SD1266



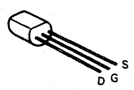
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2SC1740S



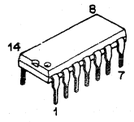
LM7001



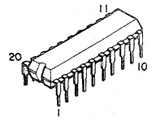
AN7470



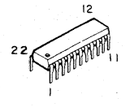
2SK364



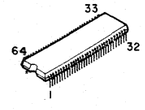
2SK302



3SK131



LA1265



CXP5016-210S
CXP5016-311Q

(X05-358X-**)(A/2)
(X86-1040-10)

Q1 : 2SK302(Y,GR)
Q2 : 2SC2714(O)
Q4,5 : 2SC2714(R,O)
D1~3 : KV1310-3

(X05-358X-**)
IC1 : LA1265
IC2 : AN7470
IC3 : LM7001

Q1 : 2SC1923(R,O)
Q2,5,12,16,23 : 2SC945(A)(Q,P) or 2SC1740S(Q,R)
Q3 : 2SC1845(F,E)
Q13~15,19,25 : 2SA733(A)(Q,P) or 2SA933S(Q,R)

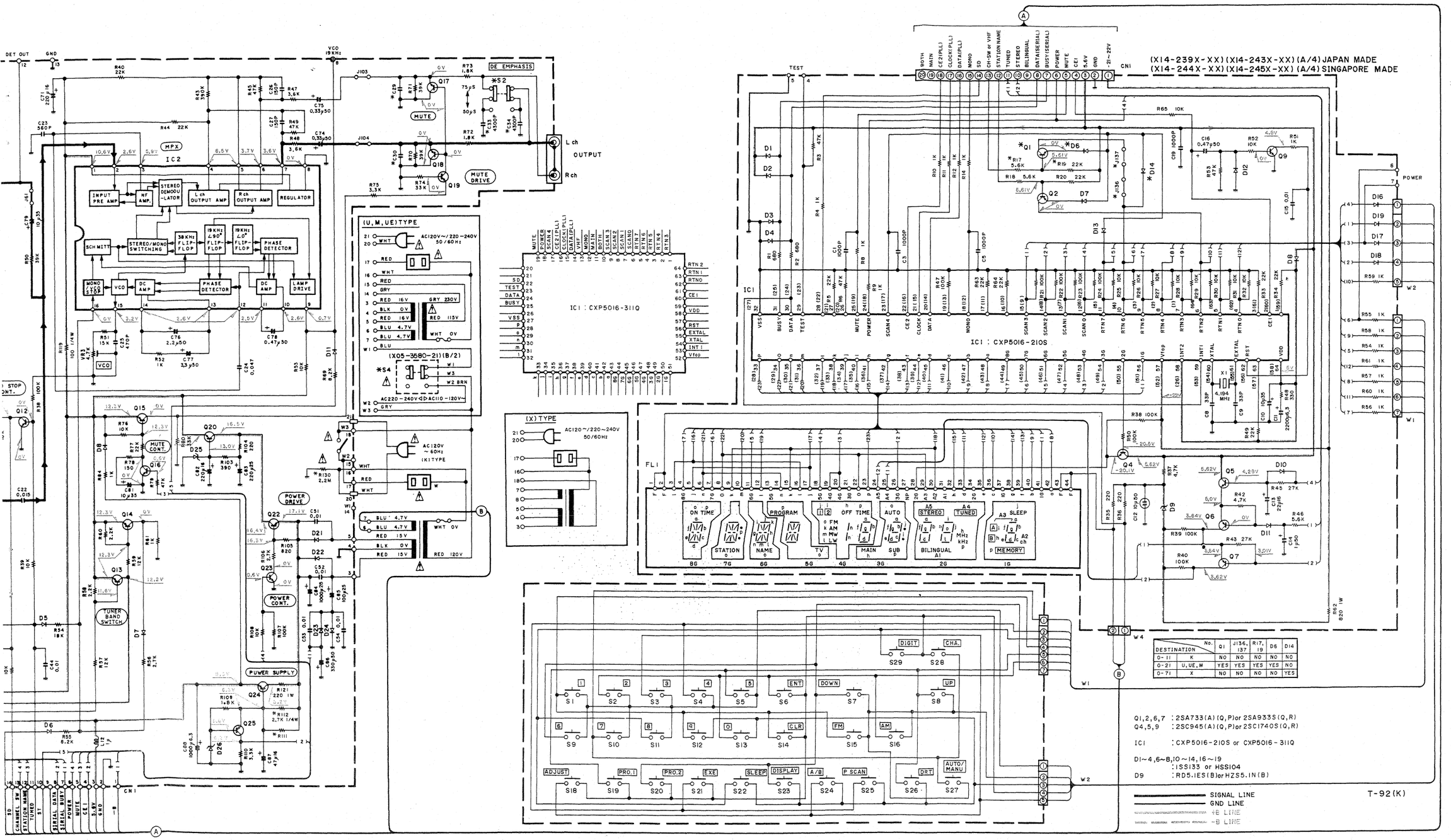
Q17,18 : 2SD1302(S,T)
Q20 : 2SD1266(Q,P)
Q22 : 2SA999(E,F)
Q24 : 2SC2003(L,K)

D1,4~8,11~13 : ISS133 or HSS104
D3 : KV1236(Z2)
D20~24 : DSM1A1
D25 : RD13ES(B2) or HZS13N(B2)
D26 : RD5.6ES(B2) or HZS5.6N(B2)

(X05-358X-**)

DESTINATION	No.		R28	R111	R112	R130	C29,30	C33,34	C48	S2	S3	S4	J27,33,45
0-11	0-10	K	12K	680 1W	NO	YES	0.022	NO	YES	NO	NO	NO	NO
0-22	0-21	U,M,UE	39K	560 1W	YES	NO	0.015	YES	NO	YES	YES	YES	YES
0-72	0-71	X	39K	560 1W	NO	NO	0.015	NO	NO	NO	NO	NO	NO
SINGAPORE MADE	JAPAN MADE												

CAUTION : For c
only with manufac
⚠ Indicates safet
electric shock, leak
carried out (exposé
circuit) before the



DESTINATION	No.	Q1	J136, 137	R17, 19	D5	D14
0-11	K	NO	NO	NO	NO	NO
0-21	U,UE,M	YES	YES	YES	YES	NO
0-71	X	NO	NO	NO	NO	YES

CAUTION : For condition safty, replace safty critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the resk of electric shock, leakage-current or resistance measurements shall be carried out (exopsed parts are acceptably insulated from the supply circuit) before the appliance is returend to the customer.

DC voltages are measured with a high impedance voltmeter, during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units.

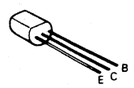
Les tensions c.c. doivent être measurées avec un voltmètre á haute impédance pendant la réception d'un signal de programme FM (avec un force der signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrunt von Unterschieden zwischen einzelnen Instrumenten oder Geräten U. geringfügig.

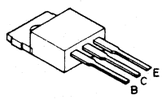
Y07-3100-11

T-92

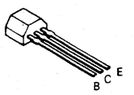
KENWOOD



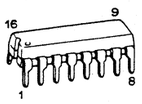
JA101
JC501
2SA733 (A)
2SA999
2SC1845
2SC1923
2SC2003
2SC945 (A)
2SD1302



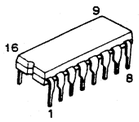
2SD1266



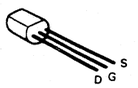
2SA933S
2SC1740S



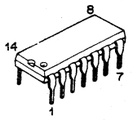
LM7001



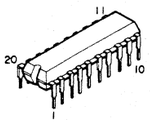
AN7470



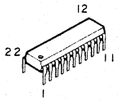
2SK364



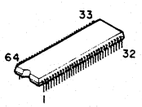
2SK302



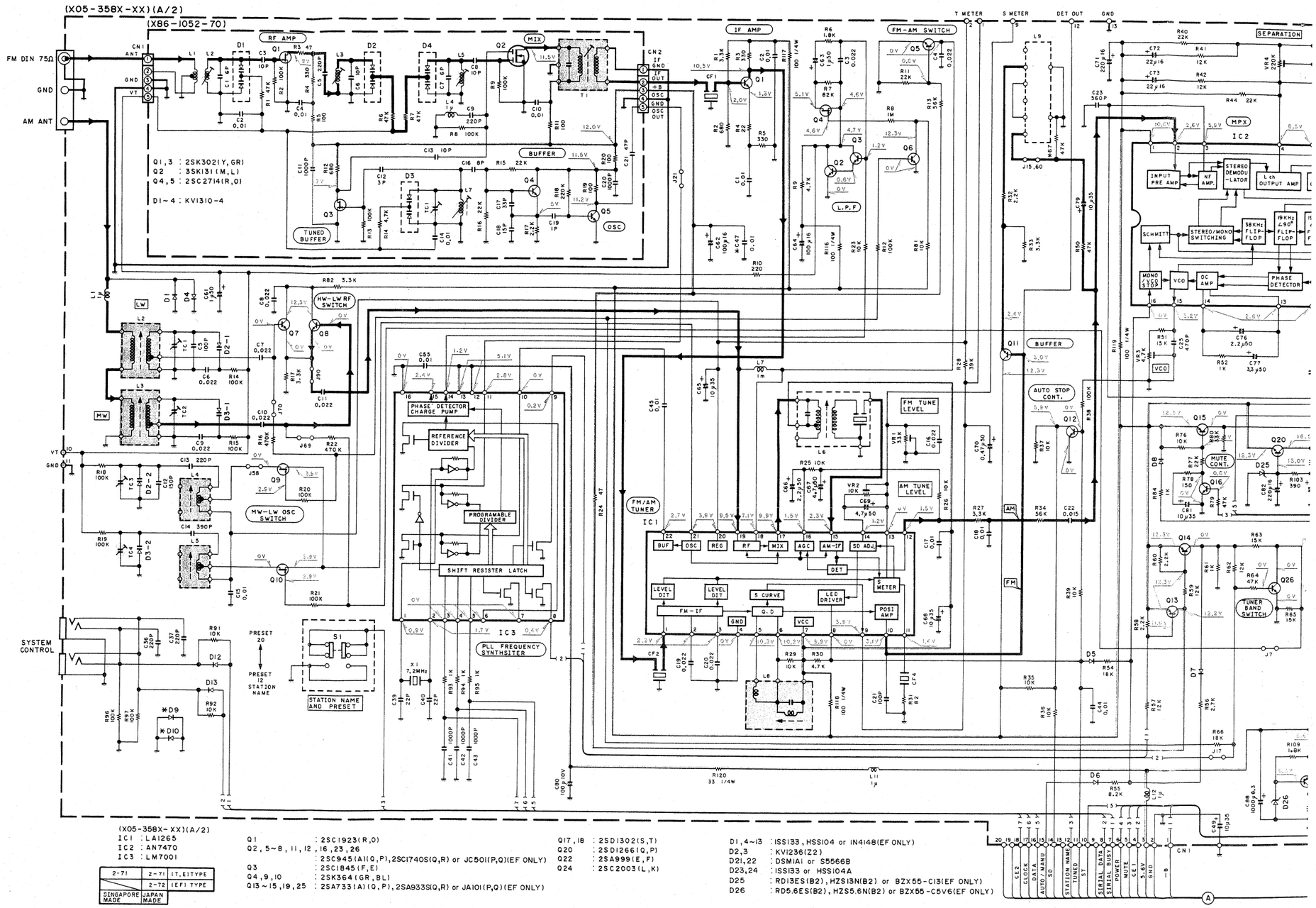
3SK131



LA1265



CXP5016-210S
CXP5016-311Q



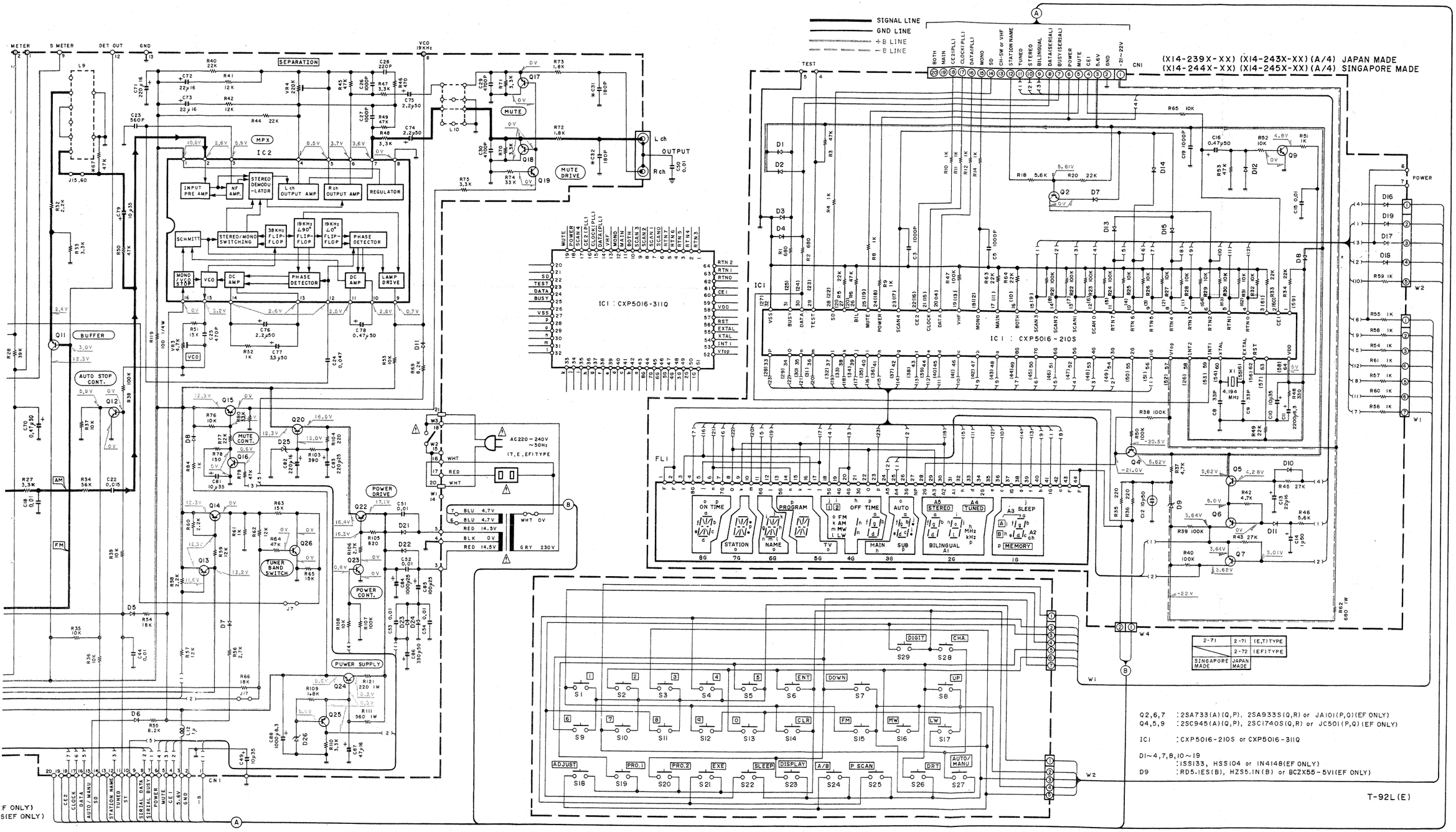
(X05-358X-XX)(A/2)
IC1 : LA1265
IC2 : AN7470
IC3 : LM7001

2-71	2-71 (T,E)TYPE
	2-72 (EF) TYPE
SINGAPORE MADE	JAPAN MADE

Q1 : 2SC1923(R,O)
Q2,5~8,11,12,16,23,26 : 2SC945(A)(Q,P),2SC1740S(Q,R) or JC501(P,Q)(EF ONLY)
Q3 : 2SC1845(F,E)
Q4,9,10 : 2SK364(GR,BL)
Q13~15,19,25 : 2SA733(A)(Q,P),2SA933S(Q,R) or JA101(P,Q)(EF ONLY)
Q17,18 : 2SD1302(S,T)
Q20 : 2SD1266(Q,P)
Q22 : 2SA999(E,F)
Q24 : 2SC2003(L,K)

D1,4~13 : ISS133,HSS104 or IN4148(EF ONLY)
D2,3 : KV1236(Z2)
D21,22 : DSM1A1 or S5566B
D23,24 : ISS133 or HSS104A
D25 : RD13ES(B2),HZS13N(B2) or BZX55-C13(EF ONLY)
D26 : RD5.6ES(B2),HZS5.6N(B2) or BZX55-C5V6(EF ONLY)

CAUTION : For condition safty, r
only with manufacturer's recomn
⚠ Indicates safety critical comp
electric shock, leakage-current or
carried out (exopsed parts are acc
circuit) before the appliance is re



CAUTION : For condition safty, replace safty critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the resk of electric shock, leakage-current or resistance measurements shall be carried out (exopsed parts are acceptably insulated from the supply circuit) before the appliance is returend to the customer.

DC voltages are measured with a high impedance voltmeter. during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre á haute impédance pendant la réception d'un signal de programme FM (avec un force der signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

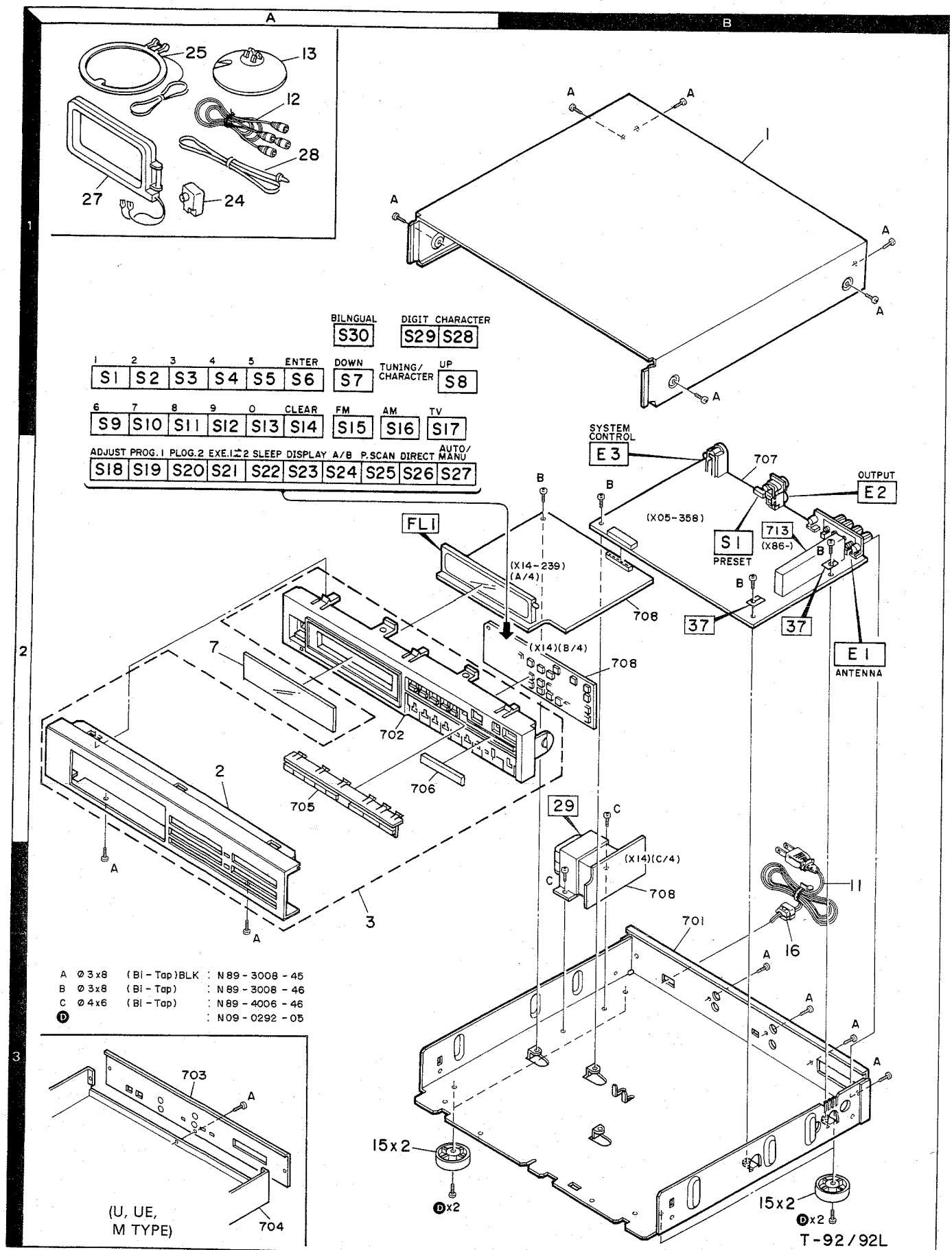
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrunt von Unterschieden zwischen einzelnen Instrumenten oder Geräten U. geringfügig.

Y07-3102-71

T-92

KENWO

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes 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	Destination 仕向	Remarks 備考
			T-92/92L			
1	1B		A01-1683-01	METALLIC CABINET	KUUEMX	J
1	1B		A01-1683-01	METALLIC CABINET	TE	J
1	1B	*	A01-1699-01	METALLIC CABINET	EF	J
1	1B	*	A01-1714-01	METALLIC CABINET		S
2	2A,3A	*	A20-5600-02	PANEL	KUUEMX	
2	2A,3A	*	A20-5601-02	PANEL	TEEF	
3	3A	*	A22-1022-02	SUB PANEL ASSY	KUUEMX	
3	3A	*	A22-1023-02	SUB PANEL ASSY	TEEF	
7	2A		B03-2471-04	DRESSING PLATE		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0096-13	WARRANTY CARD	X	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-03	WARRANTY CARD	T	
-		*	B50-9147-00	INSTRUCTION MANUAL	K	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
-			B58-0803-13	CAUTION CARD	EEF	
-			NO STOCK	B46-0139-03 (WARRANTY CARD)	EF	J
⚠ 11	3B		E30-0459-05	AC POWER CORD	EEF	
⚠ 11	3B		E30-0812-05	AC POWER CORD	UUEM	
⚠ 11	3B		E30-0996-05	AC POWER CORD	K	
⚠ 11	3B		E30-1341-05	AC POWER CORD	X	
⚠ 11	3B		E30-1416-05	AC POWER CORD	T	
12	1A		E30-0615-05	AUDIO CORD	KUUEMX	
12	1A		E30-0615-05	AUDIO CORD	TE	
12	1A		NO STOCK	E30-0505-05 (AUDIO CORD)	EF	J
-		*	H01-7981-04	ITEM CARTON CASE	KUUEMX	J
-		*	H01-7982-04	ITEM CARTON CASE	TE	J
-		*	H01-7992-04	ITEM CARTON CASE	KUUEMX	S
-		*	H01-7993-04	ITEM CARTON CASE	TE	S
-		*	H10-3702-02	POLYSTYRENE FOAMED FIXTURE		S
-			H10-3703-02	POLYSTYRENE FOAMED FIXTURE	KUUEMX	J
-			H10-3703-02	POLYSTYRENE FOAMED FIXTURE	TE	J
-			H25-0224-04	PROTECTION BAG (800X400X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	NO STOCK	H01-7983-04 (ITEM CARTON CASE)	EF	J
-		*	NO STOCK	H10-3742-02 (POLY FIXTURE)	EF	J
13	1A		J19-2815-04	ANTENNA HOLDER		
15	3B		J02-0366-15	FOOT		
⚠ 16	3B		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND	T	
D			N09-0292-05	STEPPED SCREW (3X19)	TEEFK	
24	1A		T90-0136-05	ANTENNA ADAPTOR	TEEF	
25	1A		NO STOCK	T90-0153-05 (LOOP ANTENNA)	EF	J
25	1A		T90-0138-15	LOOP ANTENNA	TE	
27	1A		T90-0104-25	LOOP ANTENNA	KUUEMX	
28	1A		T90-0121-05	T TYPE ANTENNA (FM)		S

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas J: Japan Made
UE: AAFES(Europe) X: Australia S: Singapore Made

⚠ indicates safety critical components.

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
28	1A		T90-0132-05	T TYPE ANTENNA (FM)		J
TUNER UNIT (X05-3580-10): J, (X05-3580-11): S						
C1 ,2			CK45FF1H103Z	CERAMIC 0.010UF Z		
C3			CK45FF1H473Z	CERAMIC 0.047UF Z	KUUEMX	
C3 ,4			CK45FF1H223Z	CERAMIC 0.022UF Z	TEEF	
C4			CK45FF1H223Z	CERAMIC 0.022UF Z	KUUEMX	
C5			CC45FTH1H101J	CERAMIC 100PF J	TEEF	
C6 -11			CK45FF1H223Z	CERAMIC 0.022UF Z	TEEF	
C9 ,10			CK45FF1H223Z	CERAMIC 0.022UF Z	KUUEMX	
C12			CC45FCH1H151J	CERAMIC 150PF J	TEEF	
C13			CC93FCH1H221J	CERAMIC 220PF J	TEEF	
C14			CC93FCH1H391J	CERAMIC 390PF J		
C15			C91-0769-05	CERAMIC 0.01UF M		
C16			CK45FF1H223Z	CERAMIC 0.022UF Z		
C17			C91-0769-05	CERAMIC 0.01UF M		
C18			CK45FF1H103Z	CERAMIC 0.010UF Z		
C19 ,20			CK45FF1H223Z	CERAMIC 0.022UF Z		
C21			CC45FSL1H101J	CERAMIC 100PF J		
C22			CF92FV1H153J	MF 0.015UF J		
C23			CK45FB1H561K	CERAMIC 560PF K		
C24			CF92FV1H473J	MF 0.047UF J		
C25			CC93FCH1H471J	CERAMIC 470PF J		
C26 ,27			CC45FSL1H151J	CERAMIC 150PF J	KUUEMX	
C26 ,27			CK45FB1H102K	CERAMIC 1000PF K	TEEF	
C28			CC45FSL1H221J	CERAMIC 220PF J	TEEF	
C29 ,30			CF92FV1H153J	MF 0.015UF J	UUEMX	
C29 ,30			CF92FV1H223J	MF 0.022UF J	K	
C29 ,30			CF92FV1H472J	MF 4700PF J	TEEF	
C31 ,32			CC45FSL1H181J	CERAMIC 180PF J	TEEF	
C33 ,34			CF92FV1H432J	MF 4300PF J	UUEM	
C36 ,37			CC45FSL1H221J	CERAMIC 220PF J		
C38			CK45FF1H473Z	CERAMIC 0.047UF Z		
C39 ,40			CC45FCH1H220J	CERAMIC 22PF J		
C41 -43			CK45FB1H102K	CERAMIC 1000PF K		
C44 ,45			CK45FF1H103Z	CERAMIC 0.010UF Z		
C47			C91-0769-05	CERAMIC 0.01UF M	TEEF	
C48			C91-0769-05	CERAMIC 0.01UF M	K	
C49			CE04KW1V100M	ELECTRO 10UF 35WV	TEEF	
C50			CK45F1H103Z	CERAMIC 0.010UF Z		
C51 -55			CK45FF1H103Z	CERAMIC 0.010UF Z		
C61			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C62			CE04KW1C101M	ELECTRO 100UF 16WV		
C63			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C64			CE04KW1C101M	ELECTRO 100UF 16WV		
C65			CE04KW1V100M	ELECTRO 10UF 35WV		
C66			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C67			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C68			CE04KW1V100M	ELECTRO 10UF 35WV		
C69			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C70			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C71			CE04KW1C221M	ELECTRO 220UF 16WV		
C72 ,73			CE04LW1C220M	ELECTRO 22UF 16WV	TEEF	
C74 -76			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	TEEF	
C74 ,75			CE04LW1HR33M	ELECTRO 0.33UF 50WV	KUUEMX	

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas J: Japan Made
UE: AAFES(Europe) X: Australia S: Singapore Made

⚠ indicates safety critical components.

PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C76			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	KUUEMX	
C77			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C78			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C79			CE04KW1V100M	ELECTRO 10UF 35WV		
C80			CE04KW1A101M	ELECTRO 100UF 10WV		
C81			CE04KW1V100M	ELECTRO 10UF 35WV		
C82			CE04KW1C221M	ELECTRO 220UF 16WV		
C83			CE04KW1E221M	ELECTRO 220UF 25WV		
C84			CE04EW1E102M	ELECTRO 1000UF 25WV		
C85			CE04KW1E101M	ELECTRO 100UF 25WV		
C86		*	CE04EW1H331M	ELECTRO 330UF 50WV		
C87			CE04KW1C470M	ELECTRO 47UF 16WV		
C88			CE04EWOJ102M	ELECTRO 1000UF 6.3WV		
TC1			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF	TEEF	
TC2			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
TC3			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF	TEEF	
TC4			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
37	2B		E23-0149-05	TERMINAL		
E1	2B		E20-0318-05	SCREW TERMINAL BOARD(2P)	TEEF	
E1	2B		E20-0449-05	SCREW TERMINAL BOARD(4P)ANT	KUUEMX	
E2	2B		E13-0217-05	PHONO JACK (2P)OUT PUT		
E3	2B		E11-0165-05	MINIATURE PHONE JACK(SYNCRO)		
CF1 ,2			L72-0531-05	CERAMIC FILTER	KUUEMX	
CF1 ,2			L72-0536-05	CERAMIC FILTER	TEEF	
CF4			L72-0096-05	CERAMIC FILTER		
L1			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)	TEEF	
L2			L31-0499-05	LW-RF COIL	TEEF	
L3			L31-0509-05	MW-RF COIL		
L4			L32-0288-05	LW OSCILLATING COIL	TEEF	
L5			L32-0277-15	MW OSCILLATING COIL		
L6			L30-0454-05	AM IFT		
L7			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L8			L30-0439-15	FM IFT		
L9			L79-0125-05	LC FILTER	TEEF	
L10			L79-0750-05	LC FILTER	TEEF	
L11 ,12			L40-1092-17	SMALL FIXED INDUCTOR(1UH,M)		
X1			L77-1122-05	CRYSTAL RESONATOR		
R111			RS14KB3A561J	FL-PROOF RS 560 J 1W	UUEMX	
R111			RS14KB3A561J	FL-PROOF RS 560 J 1W	TEEF	
R111			RS14KB3A681J	FL-PROOF RS 680 J 1W	K	
R116-119			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R120			RD14GB2E330J	FL-PROOF RD 33 J 1/4W		
R121			RS14KB3A221J	FL-PROOF RS 220 J 1W		
R130			R92-0173-05	RC 2.2M M 1/2W	K	
VR1			R12-3130-05	TRIMMING POT.		
VR2			R12-3126-05	TRIMMING POT.		
VR3			R12-1089-05	TRIMMING POT.		
VR4			R12-5060-05	TRIMMING POT.	TEEF	
S1			S31-2132-05	SLIDE SWITCH	KXTEEF	
S1 -3			S31-2132-05	SLIDE SWITCH	UUEM	
⚠ S4			S31-2128-05	SLIDE SWITCH (POWER TYPE)	UUEM	
D1		*	HSS104	DIODE	KUUEMX	J
D1		*	HSS104	DIODE	TE	J

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D1			1N4148	DIODE	EF	J
D1			1SS133	DIODE	KUUEMX	S
D1			1SS133	DIODE	TE	S
D2 ,3			KV1236(Z2)	VARIABLE CAPACITANCE DIODE	TEEF	
D3			KV1236(Z2)	VARIABLE CAPACITANCE DIODE	KUUEMX	
D4 -13		*	HSS104	DIODE	TE	J
D4 -13			1N4148	DIODE	EF	J
D4 -13			1SS133	DIODE	TE	
D4 -8		*	HSS104	DIODE	KUUEMX	
D4 -8			1SS133	DIODE	KUUEMX	
D11 -13		*	HSS104	DIODE	KUUEMX	J
D11 -13			1SS133	DIODE	KUUEMX	
D21 -24			1N4004	DIODE	EF	J
D21 ,22			S5566B	DIODE	TE	
D21 ,22			S5566B	DIODE	KUUEMX	
D23 ,24		*	HSS104A	DIODE	KUUEMX	J
D23 ,24		*	HSS104A	DIODE	TE	J
D23 ,24			1SS131	DIODE	KUUEMX	
D23 ,24			1SS131	DIODE	TE	
D25			BZX55-C13	DIODE	EF	
D25			HZS13N(B2)	ZENER DIODE	KUUEMX	
D25			HZS13N(B2)	ZENER DIODE	TE	
D25			RD13ES(B2)	ZENER DIODE	KUUEMX	
D25			RD13ES(B2)	ZENER DIODE	TE	
D26			BZX55-C5V6	DIODE	EF	J
D26			HZS5.6N(B2)	ZENER DIODE	KUUEMX	
D26			HZS5.6N(B2)	ZENER DIODE	TE	
D26			RD5.6ES(B2)	ZENER DIODE	KUUEMX	
D26			RD5.6ES(B2)	ZENER DIODE	TE	
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
Q1			2SC1923(R,Q)	TRANSISTOR		
Q2			JC501(P,Q)	TRANSISTOR	EF	J
Q2			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q2			2SC1740S(Q,R)	TRANSISTOR	TE	
Q2			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q2			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q3			2SC1845(F,E)	TRANSISTOR		
Q4			2SK364(GR,BL)	FET	TEEF	
Q5			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q5			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q5 -8			JC501(P,Q)	TRANSISTOR	EF	J
Q5 -8			2SC1740S(Q,R)	TRANSISTOR	TE	
Q5 -8			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q9 ,10			2SK364(GR,BL)	FET	TEEF	
Q11 ,12			JC501(P,Q)	TRANSISTOR	EF	J
Q11 ,12			2SC1740S(Q,R)	TRANSISTOR	TE	
Q11 ,12			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q12			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q12			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q13 -15			JA101(P,Q)	TRANSISTOR	E	J
Q13 -15			2SA733(A)(Q,P)	TRANSISTOR	KUUEMX	
Q13 -15			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q13 -15			2SA933S(Q,R)	TRANSISTOR	KUUEMX	

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Q13 -15			2SA933S(Q,R)	TRANSISTOR	TE	
Q16			JC501(P,Q)	TRANSISTOR	EF	J
Q16			2SC1740S(Q,R)	TRANSISTOR	TE	
Q16			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q16			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q16			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q17 ,18			2SD1302(S,T)	TRANSISTOR		
Q19			JA101(P,Q)	TRANSISTOR	EF	J
Q19			2SA733(A)(Q,P)	TRANSISTOR	KUUEMX	
Q19			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q19			2SA933S(Q,R)	TRANSISTOR	KUUEMX	
Q19			2SA933S(Q,R)	TRANSISTOR	TE	
Q20			2SD1266(Q,P)	TRANSISTOR		
Q22			2SA999(E,F)	TRANSISTOR		
Q23			JC501(P,Q)	TRANSISTOR	EF	J
Q23			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q23			2SC1740S(Q,R)	TRANSISTOR	TE	
Q23			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q23			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q24			2SC2003(L,K)	TRANSISTOR		
Q25			JA101(P,Q)	TRANSISTOR	EF	J
Q25			2SA733(A)(Q,P)	TRANSISTOR	KUUEMX	
Q25			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q25			2SA933S(Q,R)	TRANSISTOR	KUUEMX	
Q25			2SA933S(Q,R)	TRANSISTOR	TE	
Q26			JC501(P,Q)	TRANSISTOR	EF	J
Q26			2SC1740S(Q,R)	TRANSISTOR	TE	
Q26			2SC945(A)(Q,P)	TRANSISTOR	TE	

DISPLAY UNIT (X14-2390-11): J, (X14-2440-11): S (CXP5016-210S)

C1			CK45FB1H102K	CERAMIC	1000PF	K	KUUEMX	
C3			CK45FB1H102K	CERAMIC	1000PF	K		
C5			CK45FB1H102K	CERAMIC	1000PF	K		
C8 ,9			CC45FCH1H330J	CERAMIC	33PF	J		
C10			CE04KW1V100M	ELECTRO	10UF	35WV		
C11			CE04KW0J222M	ELECTRO	2200UF	6.3WV		
C12			C90-1400-05	NP-ELEC	10UF	50WV		
C13			CE04KW1C220M	ELECTRO	22UF	16WV		
C14			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C15			C91-0769-05	CERAMIC	0.01UF	M		
C16			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C19			CK45FB1H102K	CERAMIC	1000PF	K		
⚠ 29	2B	*	L01-5451-05	POWER TRANSFORMER			K	
⚠ 29	2B	*	L01-5452-05	POWER TRANSFORMER			X	
⚠ 29	2B	*	L01-5452-05	POWER TRANSFORMER			TEEF	
⚠ 29	2B	*	L01-5454-05	POWER TRANSFORMER			UUEM	
⚠ 29	2B	*	L01-5651-05	POWER TRANSFORMER			K	S
29	2B	*	L01-5652-05	POWER TRANSFORMER			XTE	S
29	2B	*	L01-5654-05	POWER TRANSFORMER			UUEM	S
X1			L77-1118-05	CRYSTAL RESONATOR				
R62			RS14KB3A681J	FL-PROOF RS	680	J 1W	ETEF	
R62			RS14KB3A821J	FL-PROOF RS	820	J 1W	KUUEXM	
S1 -16			S40-1064-05	PUSH SWITCH			KUUEMX	
S1 -29			S40-1064-05	PUSH SWITCH			TEEF	

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S18 -29			S40-1064-05	PUSH SWITCH	KUUEMX	
D1 -4			HSS104	DIODE	KUUEMX	J
D1 -4			HSS104	DIODE	TE	J
D1 -4		*	1N4148	DIODE	EF	J
D1 -4		*	1SS133	DIODE	KUUEMX	
D1 -4			1SS133	DIODE	TE	
D6 -8		*	HSS104	DIODE	UUEM	J
D6 -8			1SS133	DIODE	UUEM	
D7 ,8		*	HSS104	DIODE	KX	
D7 ,8		*	HSS104	DIODE	TE	J
~~D7 ,8~~			~~1N4148~~	~~DIODE~~	EF	J
D7 ,8			1SS133	DIODE	KX	
D7 ,8			1SS133	DIODE	TE	
D9			BZX55-C5V1	DIODE	EF	J
D9			HZS5.1N(B)	ZENER DIODE	KUUEMX	
D9			HZS5.1N(B)	ZENER DIODE	TE	
D9			RD5.1ES(B)	ZENER DIODE	KUUEMX	
D9			RD5.1ES(B)	ZENER DIODE	TE	
D10 -13		*	HSS104	DIODE	KUUEM	J
D10 -13			1SS133	DIODE	KUUEM	
D10 -14		*	HSS104	DIODE	X	J
D10 -14			1SS133	DIODE	X	
D10 -19		*	HSS104	DIODE	TE	J
D10 -19			1N4148	DIODE	EF	J
D10 -19			1SS133	DIODE	TE	
D16 -19		*	HSS104	DIODE	KUUEMX	J
D16 -19			1SS133	DIODE	KUUEMX	
FL1	2A		FIP12PM7	FLUORESCENT INDICATOR TUBE		
IC1			CXP5016-210S	IC(MICROPROCESSOR)		
Q1 ,2			2SA733(A)(Q,P)	TRANSISTOR	UUEM	
Q1 ,2			2SA933S(Q,R)	TRANSISTOR	UUEM	
Q2			JA101(P,Q)	TRANSISTOR	EF	
Q2			2SA733(A)(Q,P)	TRANSISTOR	KX	
Q2			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q2			2SA933S(Q,R)	TRANSISTOR	KX	
Q2			2SA933S(Q,R)	TRANSISTOR	TE	
Q4 ,5			JC501(P,Q)	TRANSISTOR	EF	J
Q4 ,5			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q4 ,5			2SC1740S(Q,R)	TRANSISTOR	TE	
Q4 ,5			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q4 ,5			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q6 ,7			JA101(P,Q)	TRANSISTOR	EF	J
Q6 ,7			2SA733(A)(Q,P)	TRANSISTOR	KUUEMX	
Q6 ,7			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q6 ,7			2SA933S(Q,R)	TRANSISTOR	KUUEMX	
Q6 ,7			2SA933S(Q,R)	TRANSISTOR	TE	
Q9			JC501(P,Q)	TRANSISTOR	EF	J
Q9			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q9			2SC1740S(Q,R)	TRANSISTOR	TE	
Q9			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q9			2SC945(A)(Q,P)	TRANSISTOR	TE	
DISPLAY UNIT (X14-2430-11): J, (X14-2450-11): S (CXP5016-311Q)						
C3			CK45FB1H102K	CERAMIC 1000PF K		
C5			CK45FB1H102K	CERAMIC 1000PF K		

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T-92/92L

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C8 ,9			CC45FCH1H330J	CERAMIC 33PF J		
C10			CE04KW1V100M	ELECTRO 10UF 35WV		
C11			CE04KW0J222M	ELECTRO 2200UF 6.3WV		
C12			C90-1400-05	NP-ELEC 10UF 50WV		
C13			CE04KW1C220M	ELECTRO 22UF 16WV		
C14			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C15			C91-0769-05	CERAMIC 0.01UF M		
C16			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
⚠		*	L01-5451-05	POWER TRANSFORMER	K	
⚠		*	L01-5452-05	POWER TRANSFORMER	X	
⚠		*	L01-5452-05	POWER TRANSFORMER	TEEF	
⚠		*	L01-5454-05	POWER TRANSFORMER	UUEM	
		*	L01-5651-05	POWER TRANSFORMER	K	S
		*	L01-5652-05	POWER TRANSFORMER	XTE	S
		*	L01-5654-05	POWER TRANSFORMER	UUEM	S
X1			L77-1118-05	CRYSTAL RESONATOR		
R62			RS14KB3A681J	FL-PROOF RS 680 J 1W		
S1 -16			S40-1064-05	PUSH SWITCH	KUUEMX	
S1 -29			S40-1064-05	PUSH SWITCH	TEEF	
S18 -29			S40-1064-05	PUSH SWITCH	KUUEMX	
			FIP12PM7	FLUORESCENT INDICATOR TUBE		
D1 -4		*	HSS104	DIODE	KUUEMX	J
D1 -4		*	HSS104	DIODE	TE	J
D1 -4			1N4148	DIODE	E	J
D1 -4			1SS133	DIODE	KUUEMX	
D1 -4			1SS133	DIODE	TE	
D6 -8		*	HSS104	DIODE	UUEM	J
D6 -8			1SS133	DIODE	UUEM	
D7 ,8		*	HSS104	DIODE	KX	J
D7 ,8		*	HSS104	DIODE	TE	J
D7 ,8			1N4148	DIODE	E	J
D7 ,8			1SS133	DIODE	KX	
D7 ,8			1SS133	DIODE	TE	
D9			BZX55-C5V1	DIODE	E	J
D9			HZS5.1N(B)	ZENER DIODE	KUUEMX	
D9			HZS5.1N(B)	ZENER DIODE	TE	
D9			RD5.1ES(B)	ZENER DIODE	KUUEMX	
D9			RD5.1ES(B)	ZENER DIODE	TE	
D10 -13		*	HSS104	DIODE	KUUEM	J
D10 -13			1SS133	DIODE	KUUEM	
D10 -14		*	HSS104	DIODE	X	J
D10 -14			1SS133	DIODE	X	
D10 -19		*	HSS104	DIODE	TE	J
D10 -19			1N4148	DIODE	E	J
D10 -19			1SS133	DIODE	TE	
D16 -19		*	HSS104	DIODE	KUUEMX	J
D16 -19			1SS133	DIODE	KUUEMX	
IC1			CXP5016-311Q	IC(MICROPROCESSOR)		
Q1 ,2			2SA733(A)(Q,P)	TRANSISTOR	UUEM	
Q1 ,2			2SA933S(Q,R)	TRANSISTOR	UUEM	
Q2			JA101(P,Q)	TRANSISTOR	E	
Q2			2SA733(A)(Q,P)	TRANSISTOR	KX	
Q2			2SA733(A)(Q,P)	TRANSISTOR	TE	

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Q2			2SA933S(Q,R)	TRANSISTOR	KX	
Q2			2SA933S(Q,R)	TRANSISTOR	TE	
Q4 ,5			JC501(P,Q)	TRANSISTOR	E	J
Q4 ,5			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q4 ,5			2SC1740S(Q,R)	TRANSISTOR	TE	
Q4 ,5			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q4 ,5			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q6 ,7			JA101(P,Q)	TRANSISTOR	E	J
Q6 ,7			2SA733(A)(Q,P)	TRANSISTOR	KUUEMX	
Q6 ,7			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q6 ,7			2SA933S(Q,R)	TRANSISTOR	KUUEMX	
Q6 ,7			2SA933S(Q,R)	TRANSISTOR	TE	
Q9			JC501(P,Q)	TRANSISTOR	E	J
Q9			2SC1740S(Q,R)	TRANSISTOR	KUUEMX	
Q9			2SC1740S(Q,R)	TRANSISTOR	TE	
Q9			2SC945(A)(Q,P)	TRANSISTOR	KUUEMX	
Q9			2SC945(A)(Q,P)	TRANSISTOR	TE	
C1		*	CC41FSL1H060D	CYLND CHIP C 6.0PF D		
C2			C93-0012-05	CYLND CHIP C 0.01UF M		
C3		*	CC41FSL1H100D	CYLND CHIP C 10PF D		
C4			C93-0012-05	CYLND CHIP C 0.01UF M		
C5			CK41FB1H221K	CYLND CHIP C 220PF K		
C6		*	CC41FSL1H070D	CYLND CHIP C 7.0PF D	KUUEMX	
C6			CC41FSL1H100D	CYLND CHIP C 10PF D	TEEF	
C7			CC41FSL1H060D	CYLND CHIP C 6.0PF D	TEEF	
C8			CC41FSL1H020C	CYLND CHIP C 2.0PF C	KUUEMX	
C8			CC41FSL1H100D	CYLND CHIP C 10PF D	TEEF	
C9			CK41FB1H221K	CYLND CHIP C 220PF K		
C10			C93-0012-05	CYLND CHIP C 0.01UF M		
C11		*	CC41FSL1H080D	CYLND CHIP C 8.0PF D	KUUEMX	
C11			CK41FY1E102M	CYLND CHIP C 1000PF M	TEEF	
C12		*	CC41FSL1H010C	CYLND CHIP C 1.0PF C	KUUEMX	
C12		*	CC41FSL1H030C	CYLND CHIP C 3.0PF C	TEEF	
C13			CC41FSL1H100D	CYLND CHIP C 10PF D	TEEF	
C14			C93-0012-05	CYLND CHIP C 0.01UF M		
C16		*	CC41FSL1H080D	CYLND CHIP C 8.0PF D		
C17			CC41FSL1H330J	CYLND CHIP C 33PF J		
C18		*	CC41FSL1H150J	CYLND CHIP C 15PF J		
C19		*	CC41FSL1H010C	CYLND CHIP C 1.0PF C		
C20			CK41FY1E102M	CYLND CHIP C 1000PF M		
C21		*	CC41FSL1H470J	CYLND CHIP C 47PF J		
TC1			CD5-0302-05	CERAMIC TRIMMER CAPACITOR(11PF		
L1		*	L31-0551-05	FM-RF COIL		
L2		*	L31-0552-05	FM-RF COIL		
L3		*	L31-0553-05	FM-RF COIL		
L4			L40-1092-16	SMALL FIXED INDUCTOR(1UH,M)		
L5		*	L31-0554-05	FM-RF COIL	TEEF	
L7			L32-0318-05	FM OSCILLATING COIL		
T1		*	L30-0427-15	FM IFT (DISTORTION)		
-			R92-0338-05	CLYND CHIP R 0 OHM		
-			R92-0350-05	JUMPER WIRE (RESISTOR TYPE)		
R1			RD41FB2B473J	CYLND CHIP R 47K J 1/8W	TEEF	
R1 ,2			RD41FB2B473J	CYLND CHIP R 47K J 1/8W	KUUEMX	

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas J: Japan Made
UE: AAFES(Europe) X: Australia S: Singapore Made ⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes 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	Destination 仕向	Remarks 備考
R2			RD41FB2B104J	CYLND CHIP R 100K J 1/8W	TEEF	
R3		*	RD41FB2B470J	CYLND CHIP R 47 J 1/8W		
R4			RD41FB2B331J	CYLND CHIP R 330 J 1/8W		
R5			RD41FB2B101J	CYLND CHIP R 100 J 1/8W		
R6			RD41FB2B473J	CYLND CHIP R 47K J 1/8W		
R7			RD41FB2B473J	CYLND CHIP R 47K J 1/8W	TEEF	
R8 ,9			RD41FB2B104J	CYLND CHIP R 100K J 1/8W	TEEF	
R9			RD41FB2B105J	CYLND CHIP R 1.0M J 1/8W	KUUEMX	
R11			RD41FB2B101J	CYLND CHIP R 100 J 1/8W		
R12			RD41FB2B681J	CYLND CHIP R 680 J 1/8W	TEEF	
R13			RD41FB2B104J	CYLND CHIP R 100K J 1/8W	TEEF	
R14			RD41FB2B472J	CYLND CHIP R 4.7K J 1/8W		
R15 ,16			RD41FB2B223J	CYLND CHIP R 22K J 1/8W		
R17			RD41FB2B222J	CYLND CHIP R 2.2K J 1/8W		
R18			RD41FB2B224J	CYLND CHIP R 220K J 1/8W		
R19 ,20			RD41FB2B101J	CYLND CHIP R 100 J 1/8W		
D1		*	KV1310A-3	VARIABLE CAPACITANCE DIODE	KUUEMX	
D1 -4			KV1310-4	VARIABLE CAPACITANCE DIODE	TEEF	
Q1			2SK302(Y,GR)	FET		
Q2		*	2SC2714(O)	TRANSISTOR	KUUEMX	
Q2		*	3SK131(M,L)	FET	TEEF	
Q3			2SK302(Y,GR)	FET	TEEF	
Q4 ,5		*	2SC2714(R,O)	TRANSISTOR		

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UE: AAFES(Europe) X: Australia S: Singapore Made
⚠ indicates safety critical components.

T-92/92L

SPECIFICATIONS

Tuner (T-92/T-92L)

FM tuner section

Frequency range ..... 87.5 MHz — 108 MHz
Sensitivity at 75 ohms
MONO: S/N 26 dB, 40 kHz Dev. ..... 0.8 μV
STEREO: S/N 46 dB, 46 kHz DEV. ..... 28.1 μV
Limiting level at 75 ohms −3 dB point, 40 kHz dev. ..... 0.7 μV
Frequency responce 30 Hz — 15 kHz ..... +0.5 dB, −2.5 dB
Total harmonic distortion
MONO: 1 kHz, 40 kHz dev. 0.2%
STEREO: 1 kHz, 46 kHz dev. 0.5%
Signal-to-Noise ratio unweighted
MONO: 40 kHz dev.: 1 mV input ..... 67 dB (DIN)
STEREO: 46 kHz dev.: 1 mV input ..... 63 dB (DIN)
Signal-to-Noise ratio weighted
MONO: 40 kHz dev.: 1 mV input ..... 68 dB (DIN)
STEREO: 46 kHz dev.: 1 mV input ..... 62 dB (DIN)
Capture ratio ..... 1.8 dB
Alternate channel selectivity ..... 67 dB (DIN: ±300 kHz)
FM stereo separation: 1 mV input
1 kHz ..... 46 dB
6.3 kHz ..... 37 dB
Image rejection ratio (98 MHz) ..... 76 dB (Europe), 48 dB (Others)
IF rejection ratio (98 MHz) ..... 90 dB (Europe), 87 dB (Others)
Spurious rejection ratio (98 MHz) ..... 100 dB (Europe), 80 dB (Others)
AM suppression ratio ..... 68 dB (Europe), 65 dB (Others)
Sub-carrier suppression ratio
do. 19 kHz, 46 kHz, Dev. ..... 62 dB
do. 38 kHz, 46 kHz, Dev. ..... 70 dB
Output level/impedance at 1 kHz, 100% Dev. ..... 0.6 V/3.3 kohms

MW tuner section

Tuning Frequency Range ..... 531 kHz ~ 1602 kHz or 530 kHz ~ 1610 kHz
Usable sensitivity ..... 14 μV (500 μV/m)
Signal-to-Noise ratio (30% Mod, 1 mV input) ..... 49 dB
Total harmonic distortion 0.6%
Image rejection ratio ..... 40 dB
Selectivity (IHF) ..... 23 dB
Output level/impedance (400 Hz, 30% Mod.) ..... 0.18 V, 3.3 kohms

LW tuner section

Tuning frequency range ..... 153 kHz ~ 281 kHz
Usable sensitivity ..... 17 μV (800 μV/m)
Signal-to-Noise ratio (30% Mod, 1 mV input) ..... 47 dB
Total harmonic distortion 0.6%
Image rejection ratio ..... 37 dB
Selectivity (IHF) ..... 30 dB
Output level/impedance (400 Hz, 30% Mod.) ..... 0.18 V, 3.3 kohms

General

Power consumption ..... 10 W
Dimensions ..... W: 360 mm (14-3/16″)
H: 69 mm (2-11/16″)
D: 340 mm (13-3/8″)
Weight (Net) ..... 2.7 kg (5.94 lb)

Note

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) 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.

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