

SPECIFICATIONS

Receiver unit (A-911/L)

Amplifier section

Rated power output

35 watts per channel minimum RMS, both channels driven, at 6 Ω from 40 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion (FTC)

(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
 at 6 Ω 40 W + 40 W
 at 8 Ω 37 W + 37 W
 (DIN) 1 kHz, at 6 Ω 43 W + 43 W
 1 kHz, at 8 Ω 38 W + 38 W
 (IHF'66) From 40 Hz to 20 kHz, 0.09% T.H.D.
 at 6 Ω 39 W + 39 W
 (EIAJ) Maximum useful power output
 at 6 Ω 50 W + 50 W

Total harmonic distortion 0.09% at rated power
 0.04% at 1 kHz, 1/2 rated power

Frequency response
 MAIN IN 40 Hz - 70 kHz, +1.5 dB, -1.5 dB
 Signal to noise ratio (IHF'66)
 MAIN IN 100 dB
 Input sensitivity/Impedance
 MAIN IN 150 mV/47 k Ω
 N.B. circuit (-30 dB VOLUME level) +22 dB (at 60 Hz)
 Output level/Impedance
 SUB WOOFER OUT 1.0 V/3.6 k Ω

Power consumption 1.5 A (for U.S.A. and Canada)
 200 W (IEC)
 Dimensions W: 270 mm (10-5/8")
 H: 120 mm (4-3/4")
 D: 292 mm (11-1/2")
 Weight (Net) 5.4 kg (11.88 lb)

A-911L FM tuner section
 Tuning frequency range 87.5 MHz - 108 MHz
 Usable sensitivity (DIN at 75 Ω)
 MONO 0.8 μ V
 MONO 0.2% (65.2 dBf input)
 STEREO 0.3% (65.2 dBf input)
 Signal to noise ratio (DIN weighted at 1 kHz)
 MONO 68 dB (65.2 dBf input)
 STEREO 63 dB (65.2 dBf input)
 Stereo separation (DIN)
 1 kHz 40 dB
 Frequency response 30 Hz - 15 kHz, +0.5 dB, -3.5 dB

Note:

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

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KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

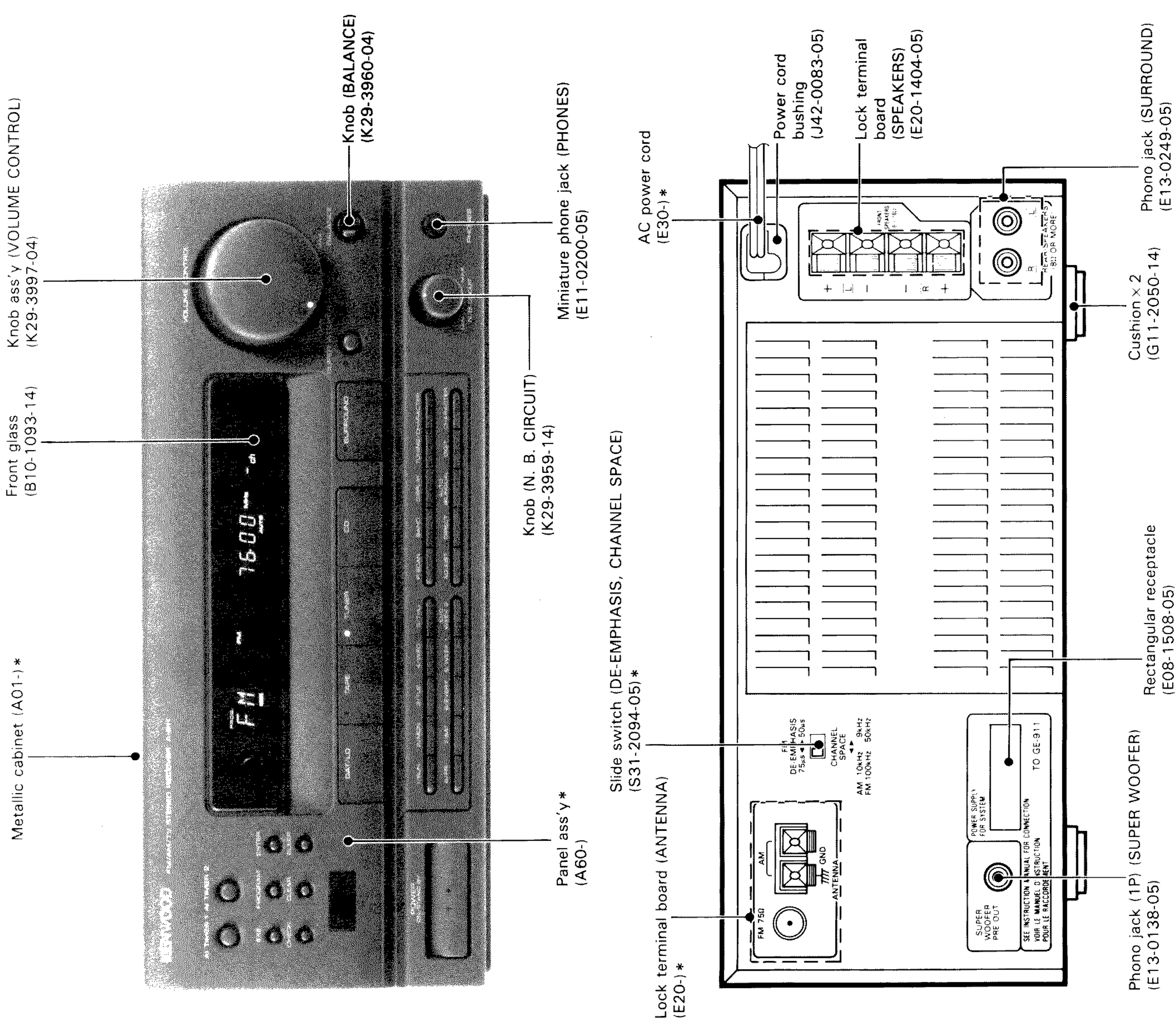
KENWOOD strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

A-911/911L

SERVICE MANUAL

(COMPACT HI-FI SYSTEM UD-9)
 (UD COMPONENT SYSTEM)

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A-911 : Y, M, X type
A-911L : T, E type

*Refer to parts list on page 44.
 Photo is A-911.

Refer to the NOTES REGARDING SERVICES OF THIS UNIT AND FEATURES OF SYSTEM on page 2 before repair.

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NOTES REGARDING SERVICES OF THIS UNIT AND FEATURES OF SYSTEM

1. Be sure to refer to the instruction manual of UD-9 of this system for the operation.

2. This unit is the receiver that is mounted with tuner and amplifier. However, as INPUT SELECTOR IC is incorporated into the graphic equalizer (GE-911), signal system goes through the graphic equalizer. Therefore, radio waves cannot be received with this unit alone.

When you listen to radio waves with this unit alone, connection must be made by the following method:

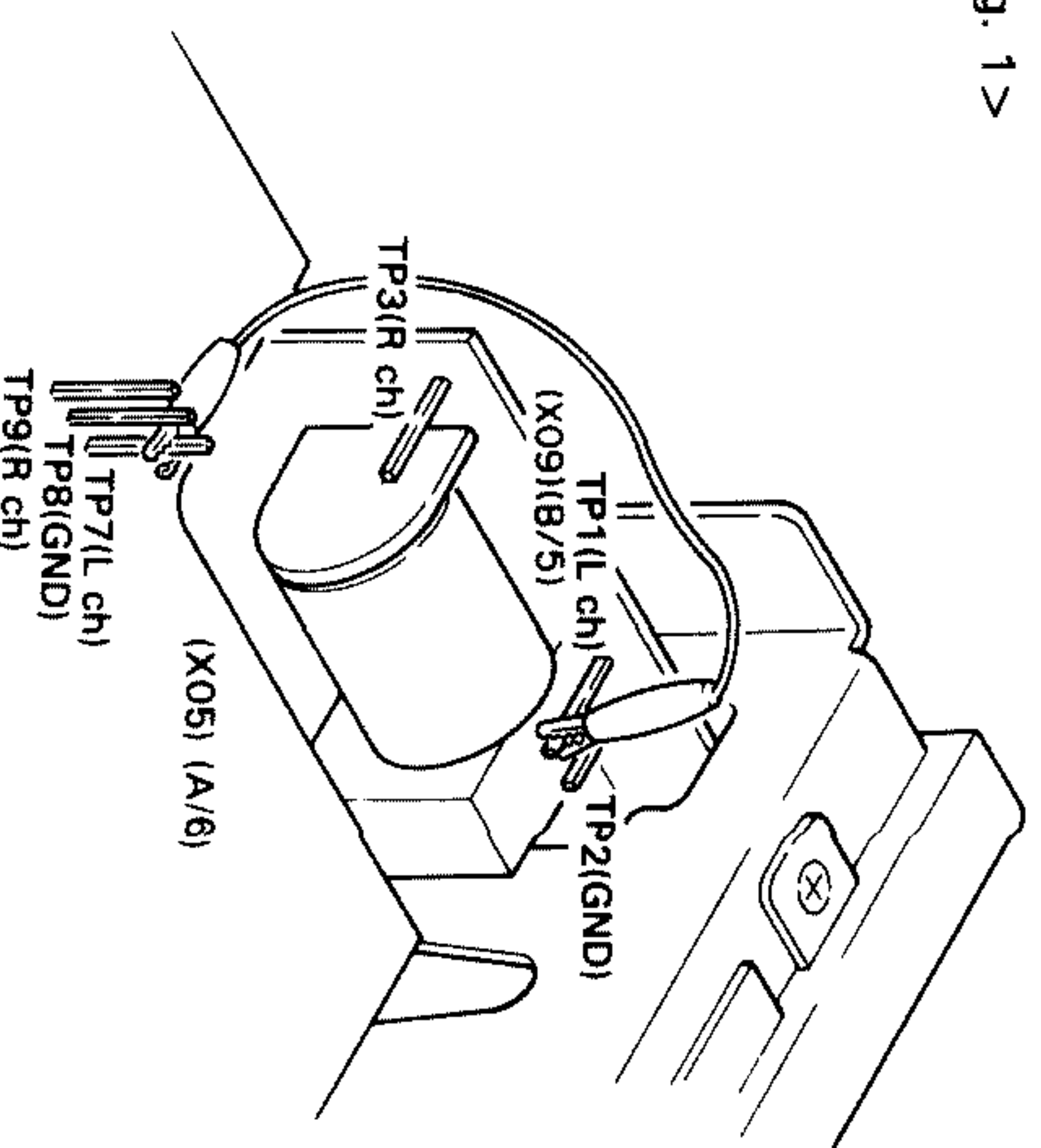
a) Facilitated connection method, b) Regular connection method, or c) Using jig.

(Instead of tuner output, AG output can also be connected to X09 side)

a) **Facilitated connection method (It can be connected at once after case is opened)**

Connect the output pin TP7(Lch) and TP9(Rch) of the tuner board (X05, A/6) with the test pin TP1(Lch) and TP3(Rch) of main board (X09) (B/5). <Fig. 1> (Output decreases partly because of the relation with Input Impedance)

<Fig. 1>



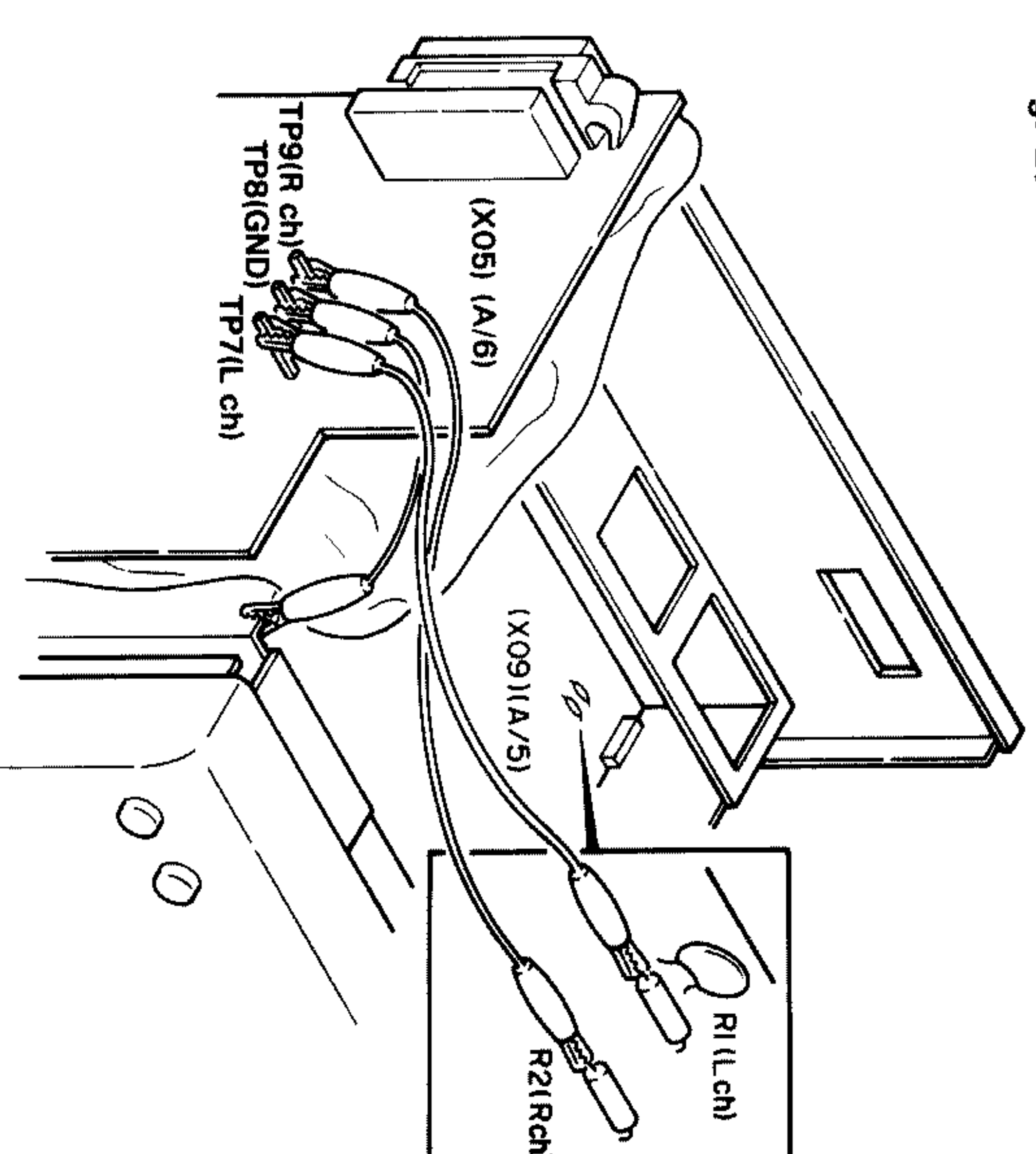
b) **Regular connection method (Refer to disassembling method for repair)**

Connect the output pin TP7(Lch) and TP9(Rch) of the tuner board (X05, A/6) which stands against the rear wall with lead wire (for input) of R1(Lch) and R2(Rch) of main board (X09) (A/5) which is installed below the tuner board. With this operation, action of the surround circuit which cannot be checked with procedures of a) for output can be checked.

<Fig. 2> (Be sure to connect the GND of tuner board (X05, A/6) for activating the microprocessor normally with GND of chassis this time)

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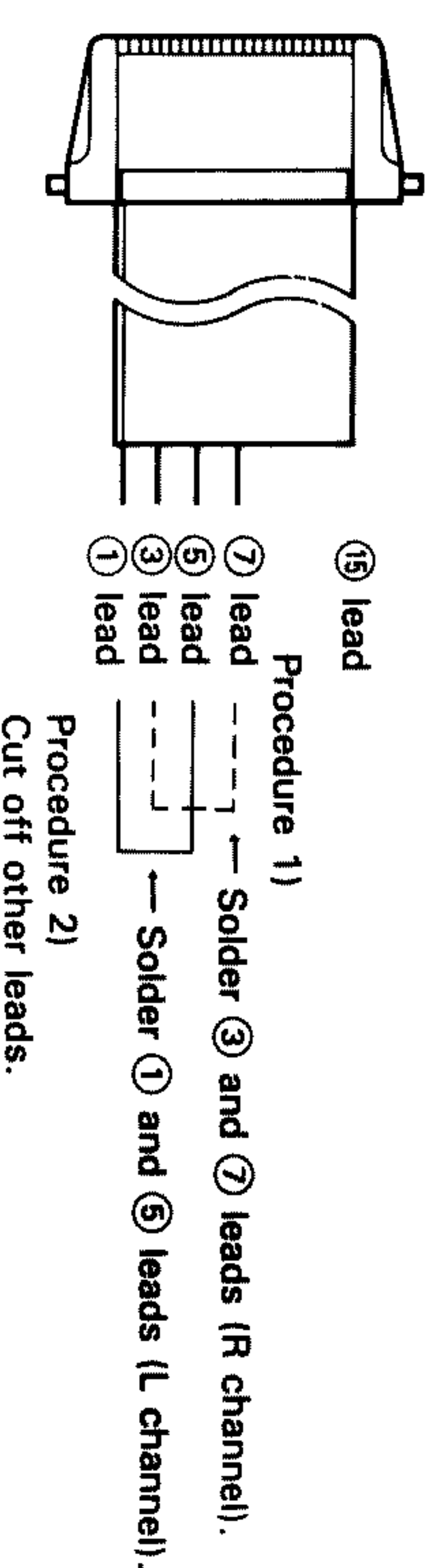
<Fig. 2>



c) **Using jig**

Solder the leads of 15-pin connector (red) cable (Parts No. E30-2624-05) <Fig. 3> and connect it as a short-plug to the 15-pin terminal at the rear.

<Fig. 3>



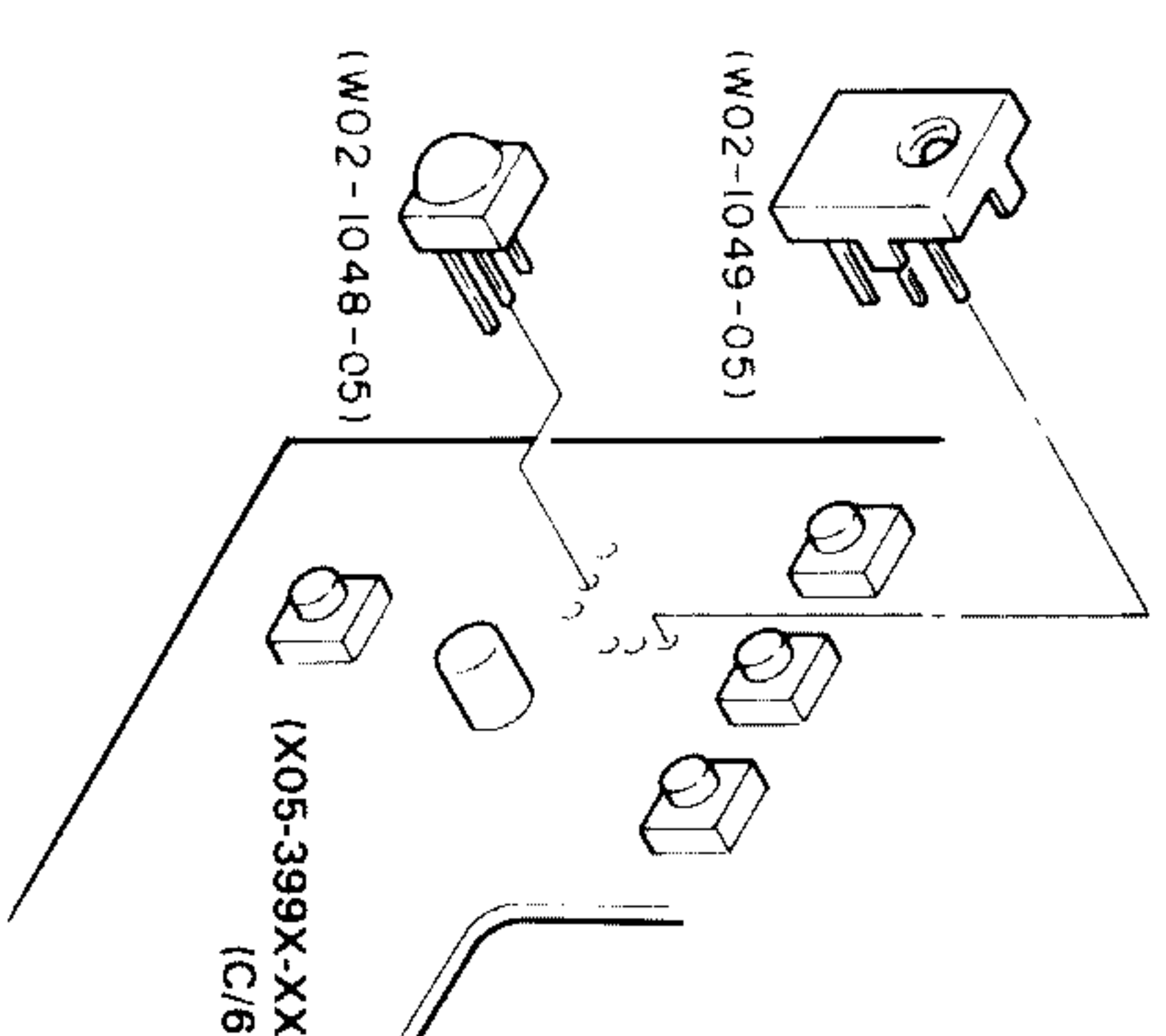
3. The radiator cover is attached to this unit. Use it to check power transistors and so on by removing it. In addition, the main board can be checked by removing the bottom board after detaching the case from the unit. (For further detail, refer to the disassembly method for repair)

4. As a new function, one pattern of graphic equalizer has become able to be selected and stored into memory at each INPUT SELECTOR. The memory can be conducted by GE microprocessor. The REC level set by CRLS at each INPUT SELECTOR (excluding TAPE) can also be stored into memory. The memory can be conducted by DECK microprocessor.

NOTES REGARDING SERVICES OF THIS UNIT AND FEATURES OF SYSTEM

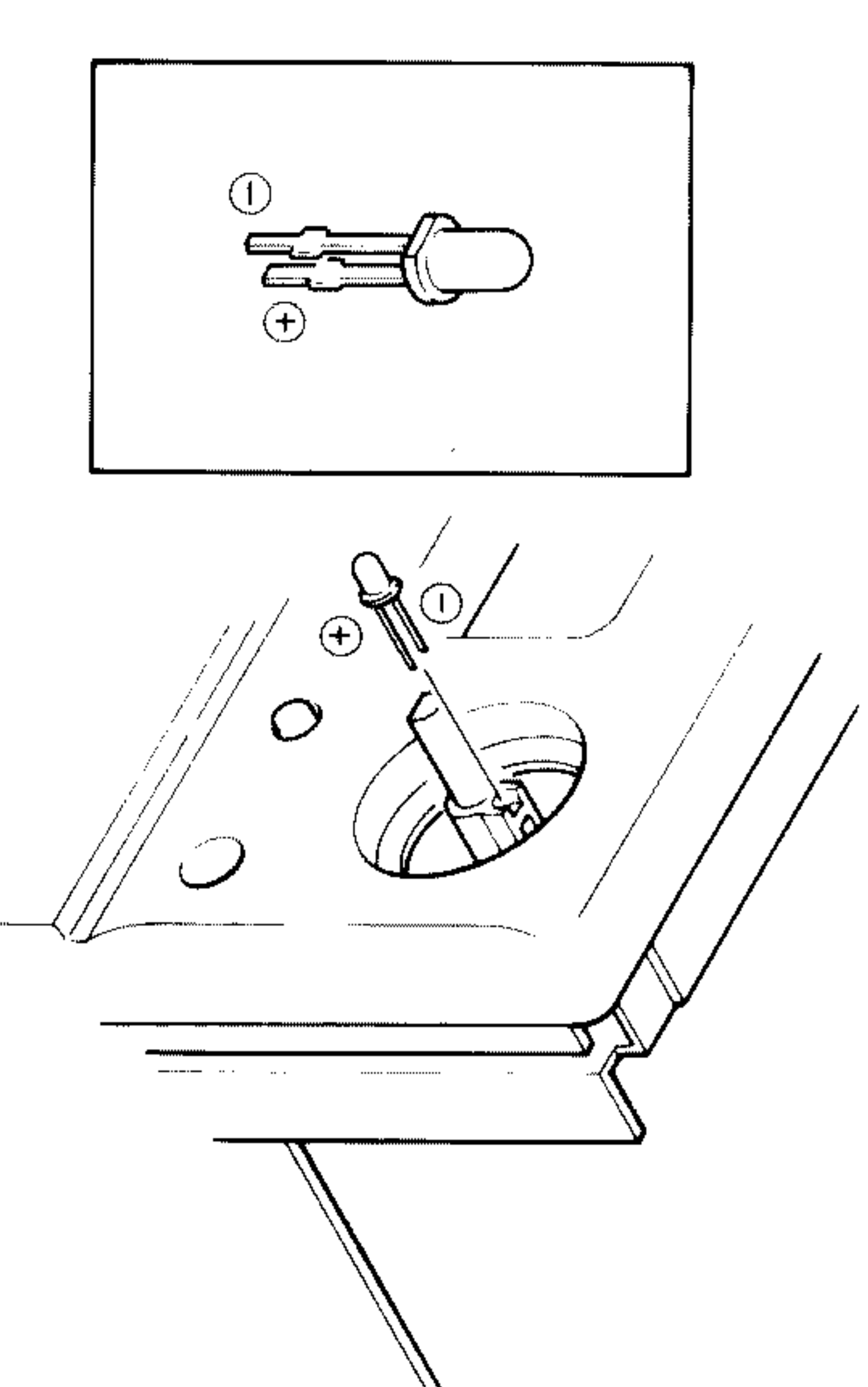
- AI TIMER1, timer for wake-up, increases its volume every 30 seconds at three stages. Although its main microprocessor is the GE microprocessor, it functions in connection with the tuner and amplifier of unit. (This time, AI LOUDNESS of GE is not subject to operation)
- AI TIMER2, timer for wake-up, plays back the first and second track of CD, then receives the radio broadcast-ing automatically.

6. The A1, sensor for remote-control light receptor, of X05 uses W02-1049-05 or W02-1048-05. They can be installed on printed board even though their shapes and the location of terminals are different from each other.



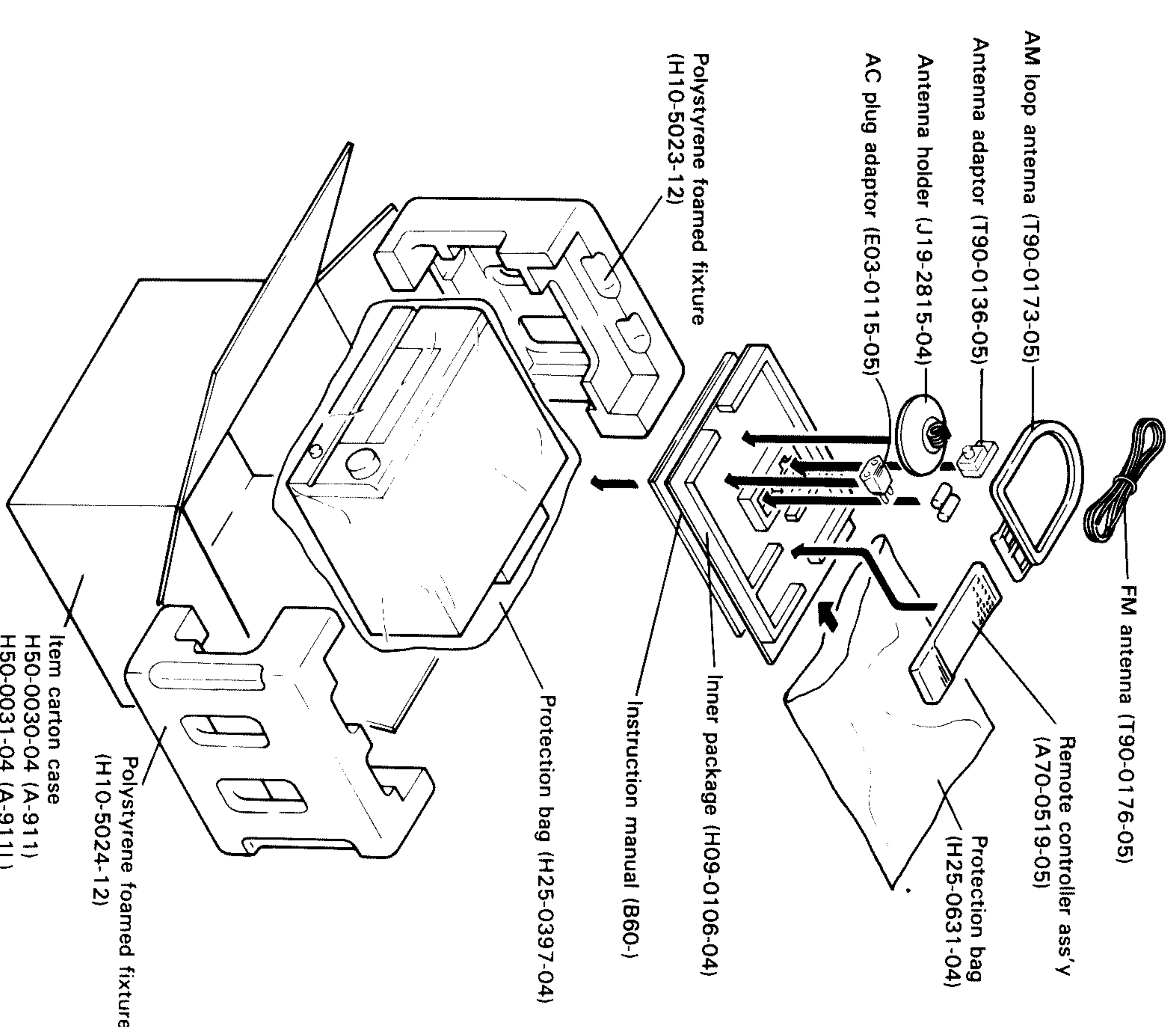
7. LED for VOLUME (Part number: B30-1284-08)

It is basically the LED for volume, which serves as one part of master VOL ass'y (R29-5042-05). However, the LED can be easily removed with tweezers after removing the volume thumbscrew when LED malfunctions.



8. Exchange the fuse resistance mounted on the printed board of power-source transformer for a new one after removing the transformer and putting it on the side of the set.

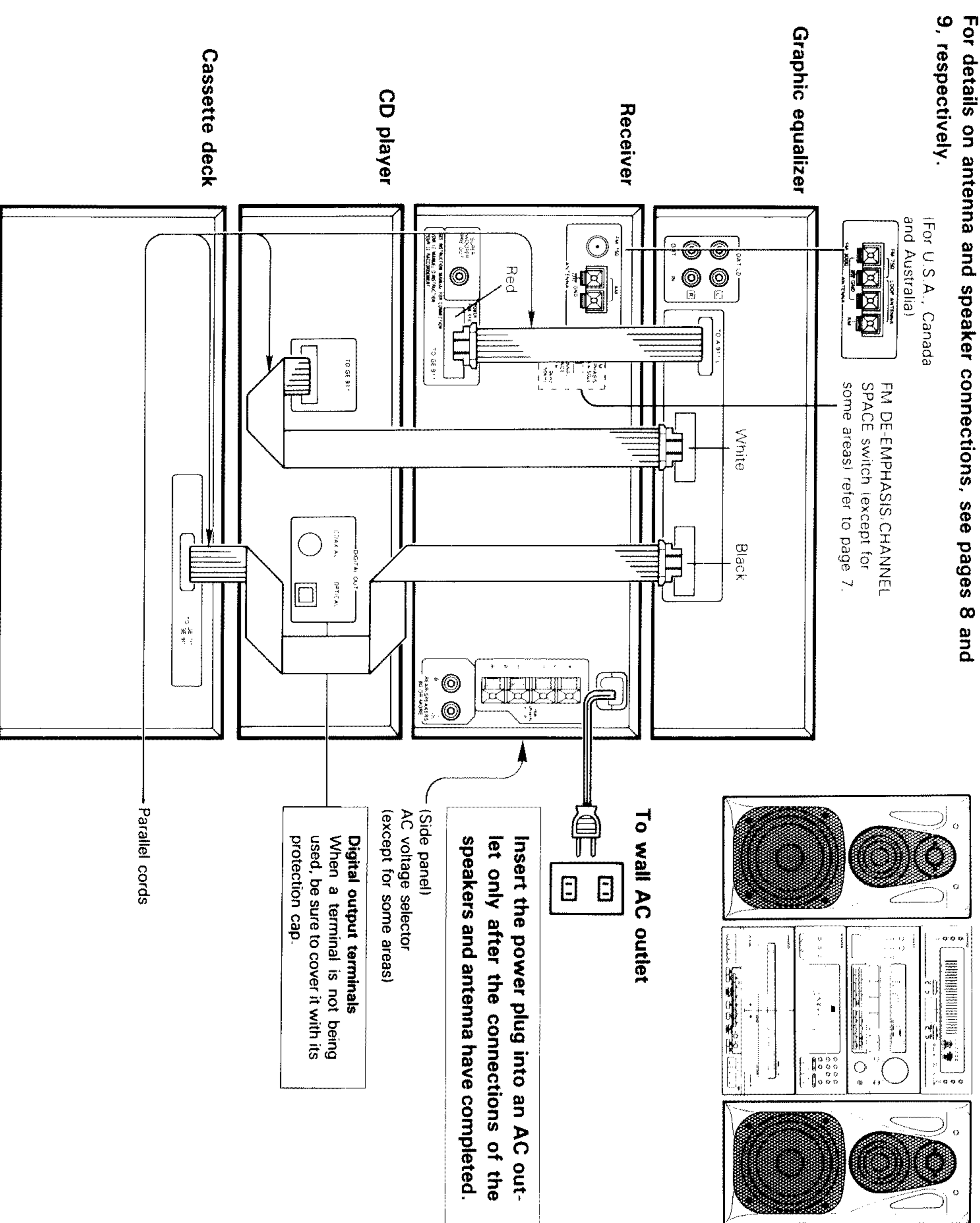
PACKING



System connections

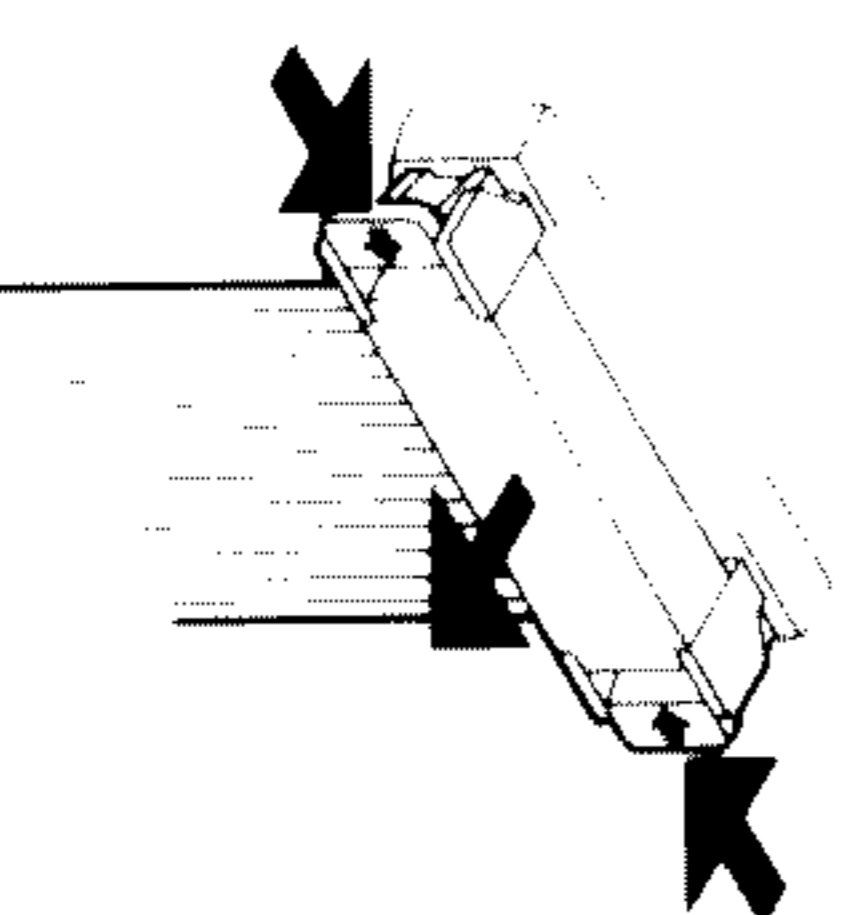
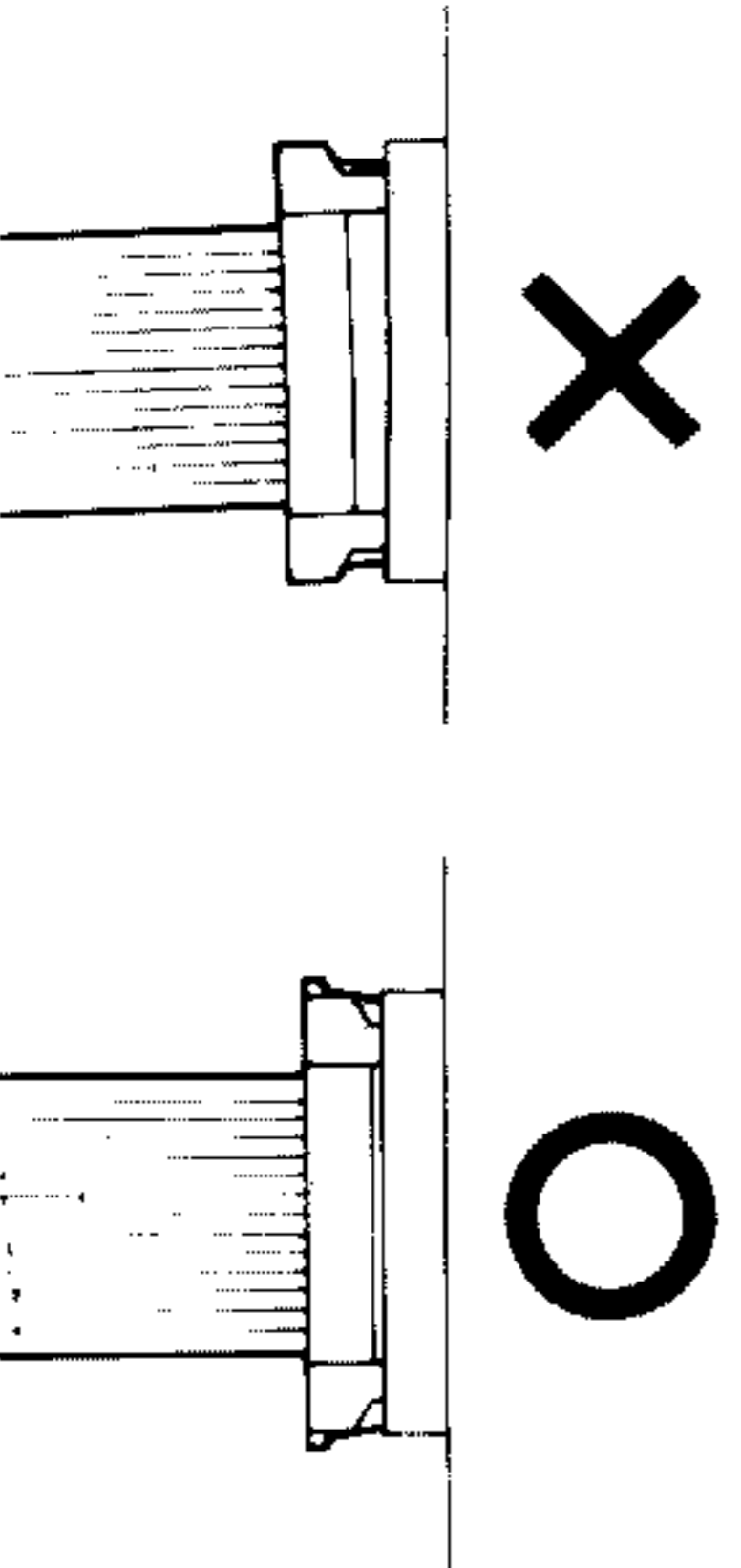
Make connection as shown below. When connecting the related system components, refer also to the instruction manuals of the related components.

When connecting the parallel cord, be sure to match the colors of the sockets. Do not plug in the power lead until all connections are completed. For details on antenna and speaker connections, see pages 8 and 9, respectively.



Connection of parallel cord

- Hold the connector of the parallel cord in parallel with the socket on the rear panel, and insert securely until it clicks.
- Connect the parallel cord by matching the colors of the connector and socket.
- When unplugging the parallel cord, push and hold the two ends of the connector and pull the connector straight from the rear panel socket.

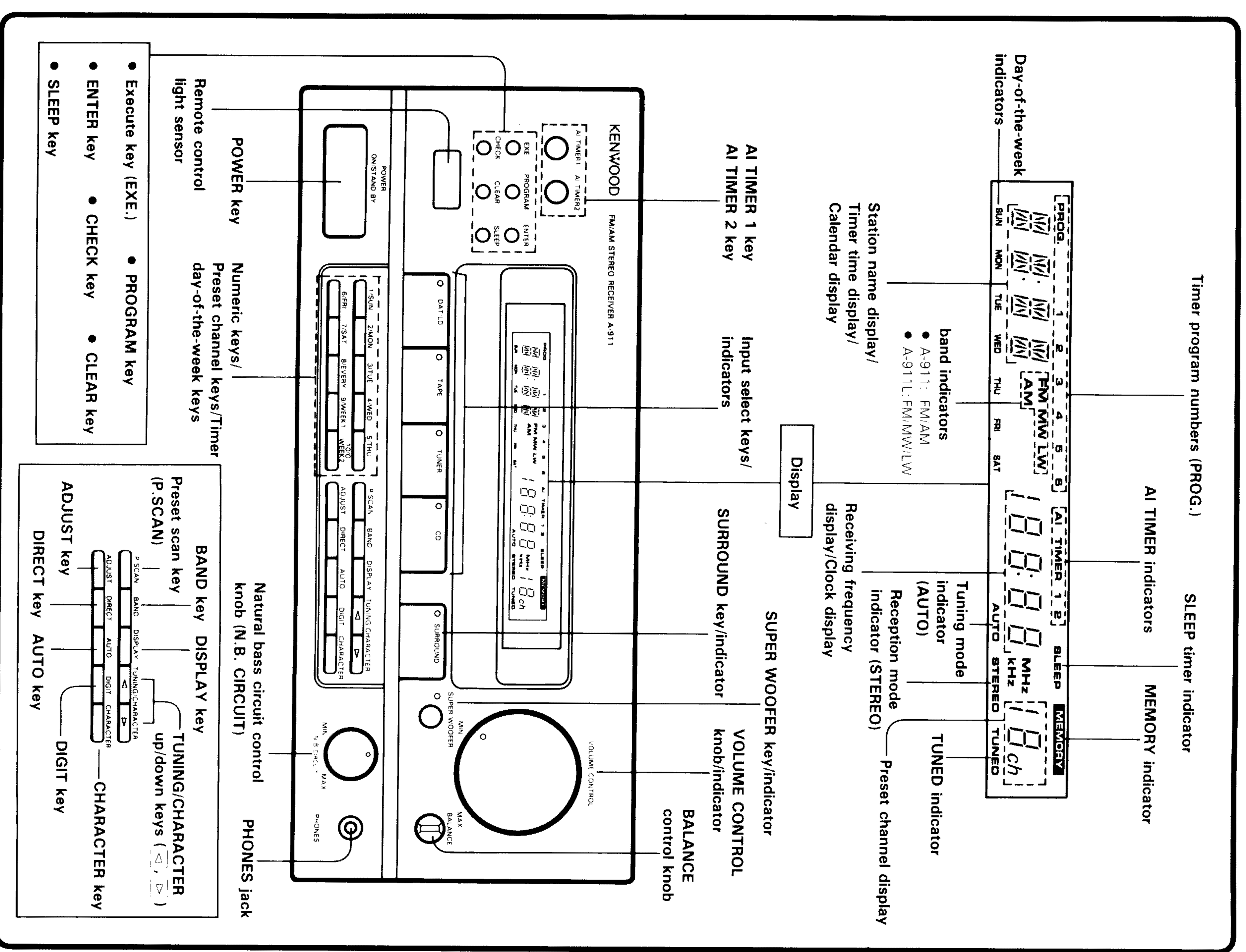


Notes:

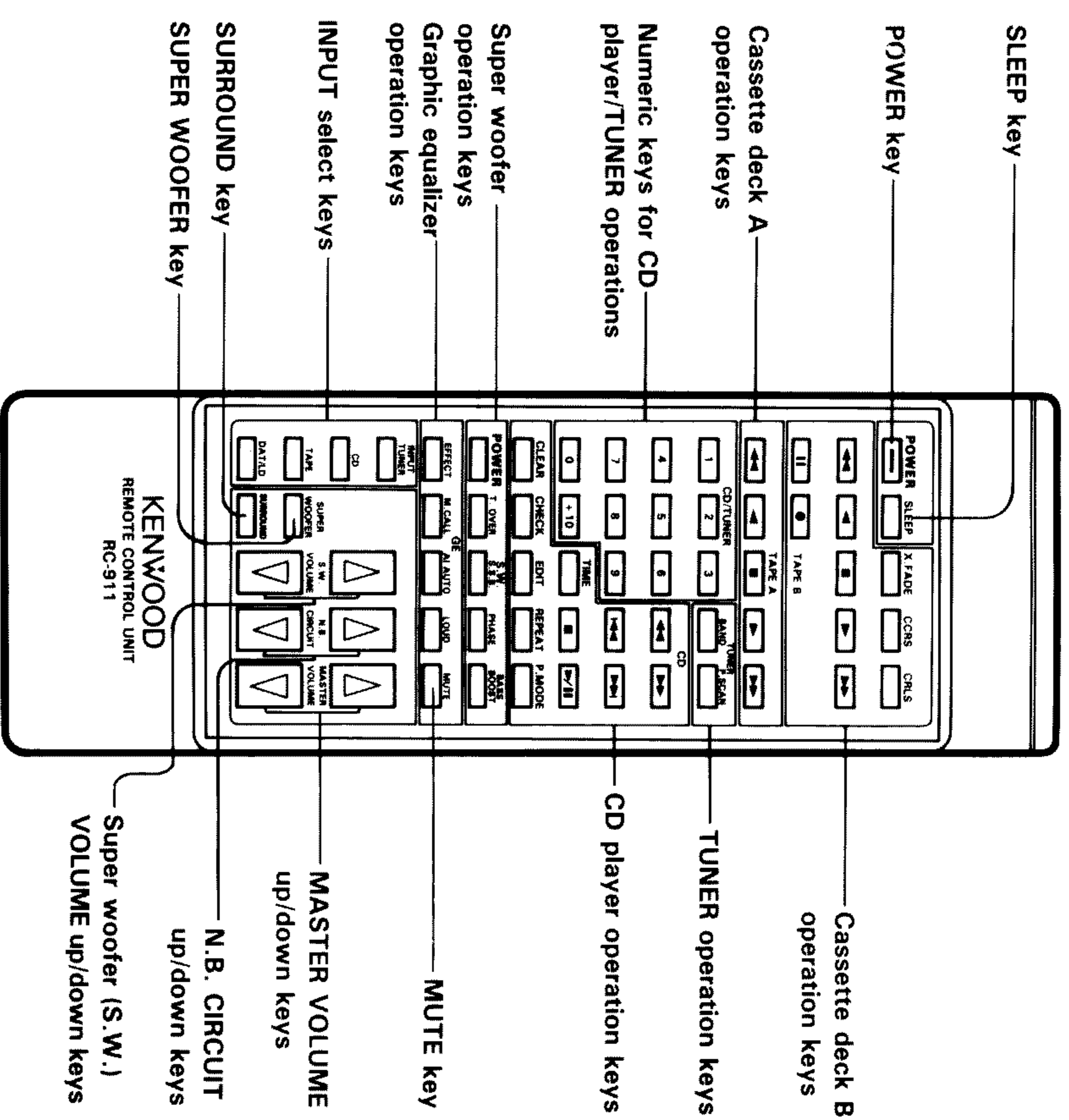
1. Connect all cords firmly. If connections are loose there could be loss of sound or noise produced.
2. When plugging and unplugging connection cords without removal of the power cord can cause malfunctions or damage to the unit.

Controls and indicators

Receiver

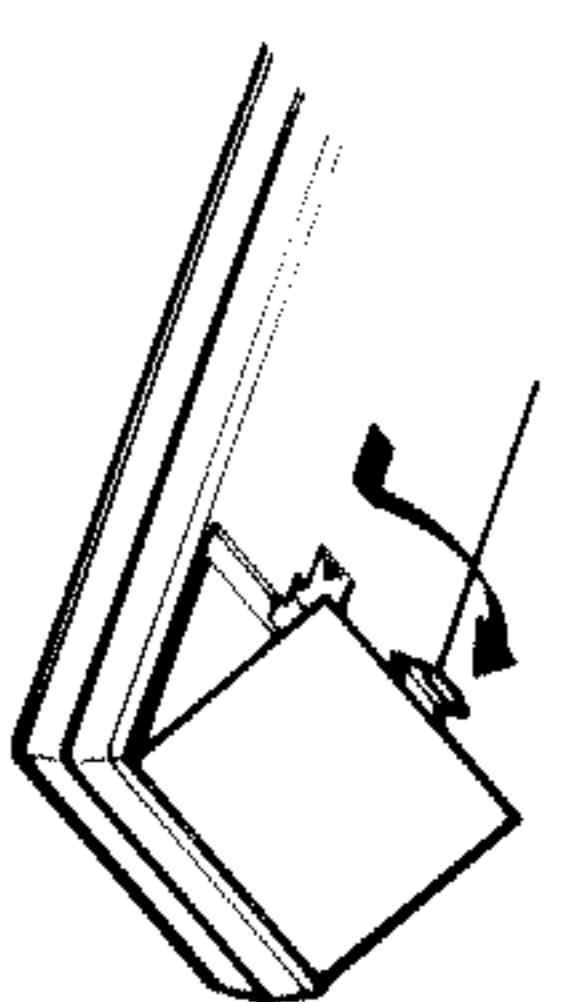


Operation of remote control unit

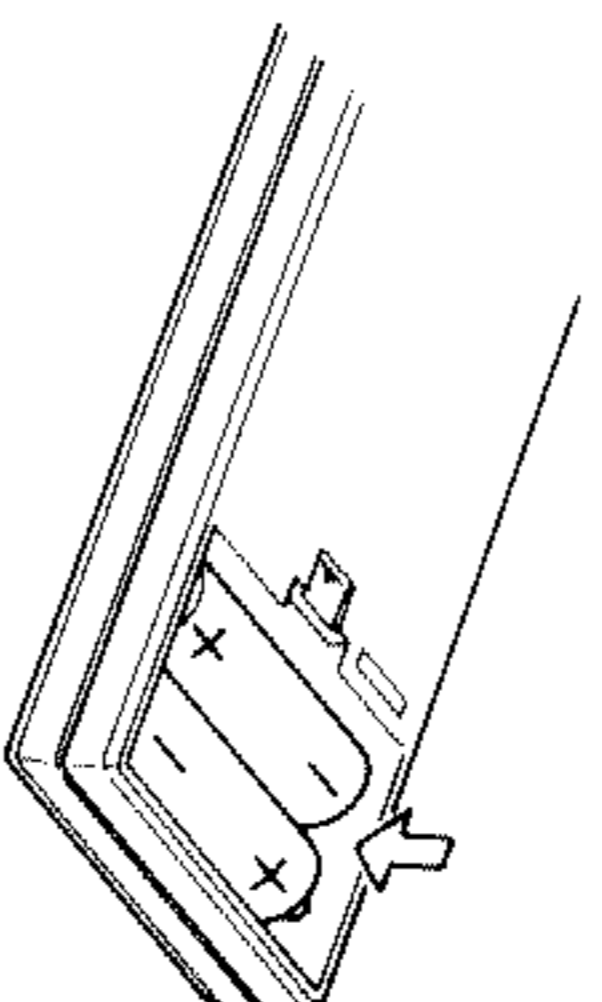


■ Loading batteries

1 Remove the cover.

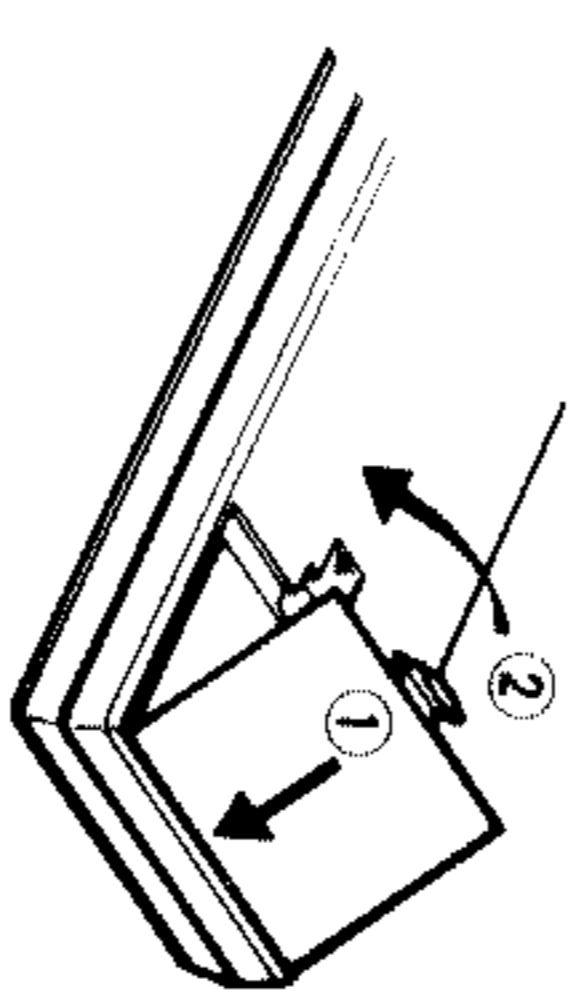


2 Insert batteries.



Insert two AA-size (R6/SUM-3) batteries as indicated by the polarity marking.

3 Close the cover.



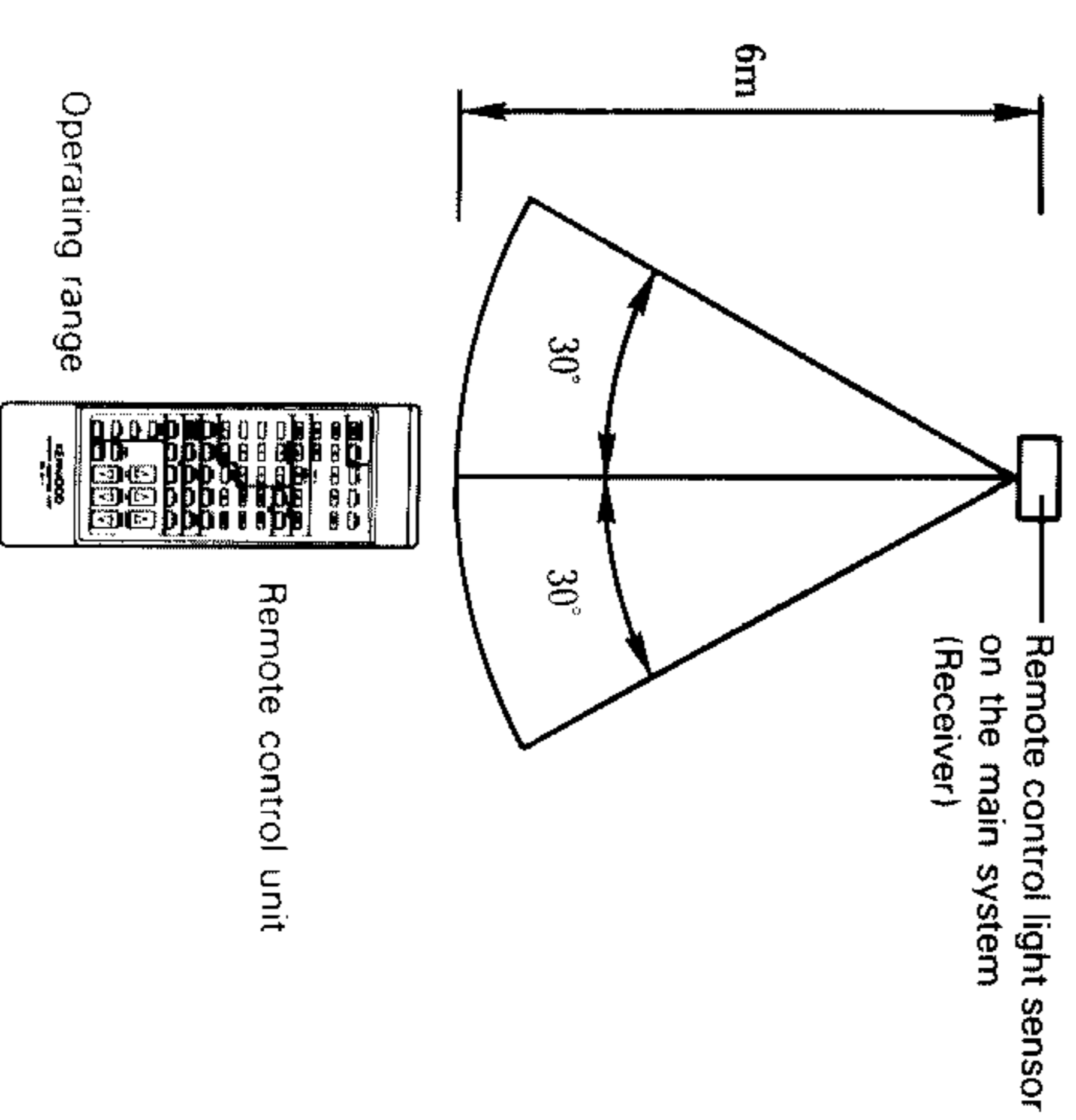
Model: RC-911
infrared system

■ Operation procedure

Plug the power cord of the system into an AC wall outlet, and press the POWER key on the remote control unit to turn the power on.

When the power is turned on, press the key of the source component to be operated.

- When two operation keys on the remote control unit are pressed successively, press each key securely/reserving an interval of more than 1 second for each press.



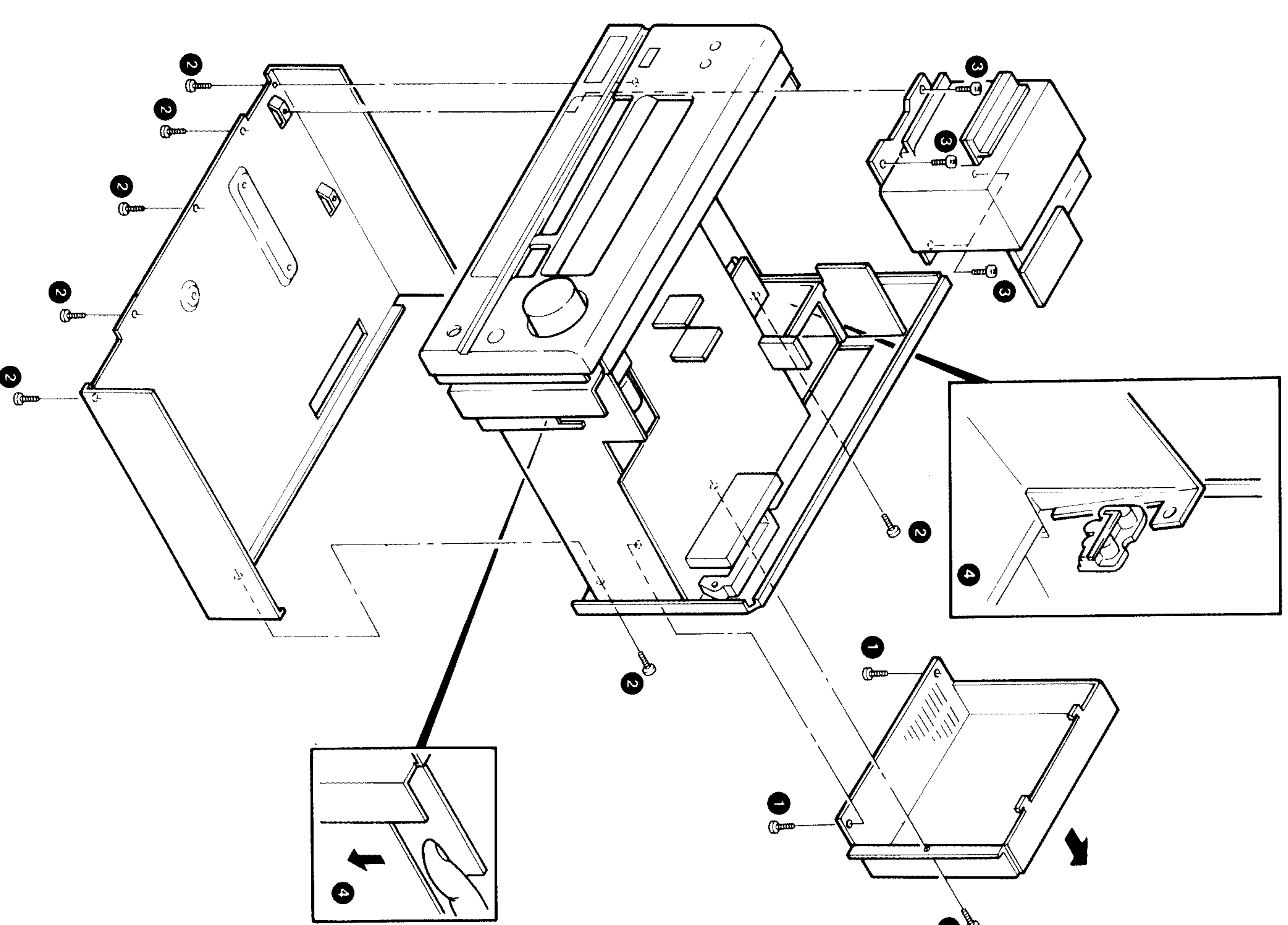
Notes:

- The supplied batteries are intended for use in operation checks. Therefore, their lives may be shorter than ordinary batteries.
- When the remote-controllable distance gets shorter than before, replace both batteries with new ones.
- Malfunction may occur if direct sunlight or the light of a high-frequency lighting fluorescent lamp enters the remote control light sensor. In such a case, change the system installation position to prevent the malfunction.

DISASSEMBLY FOR REPAIR

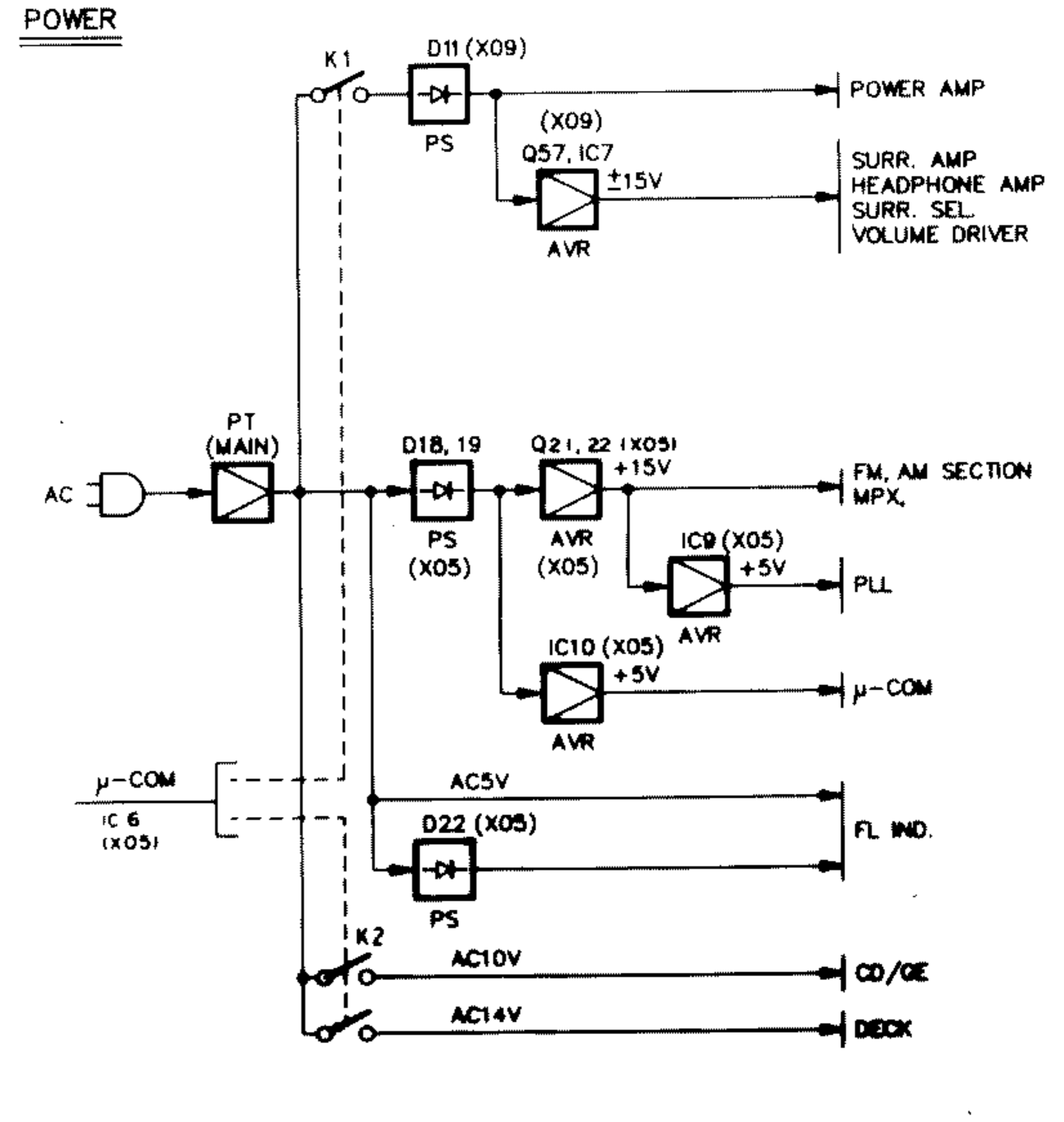
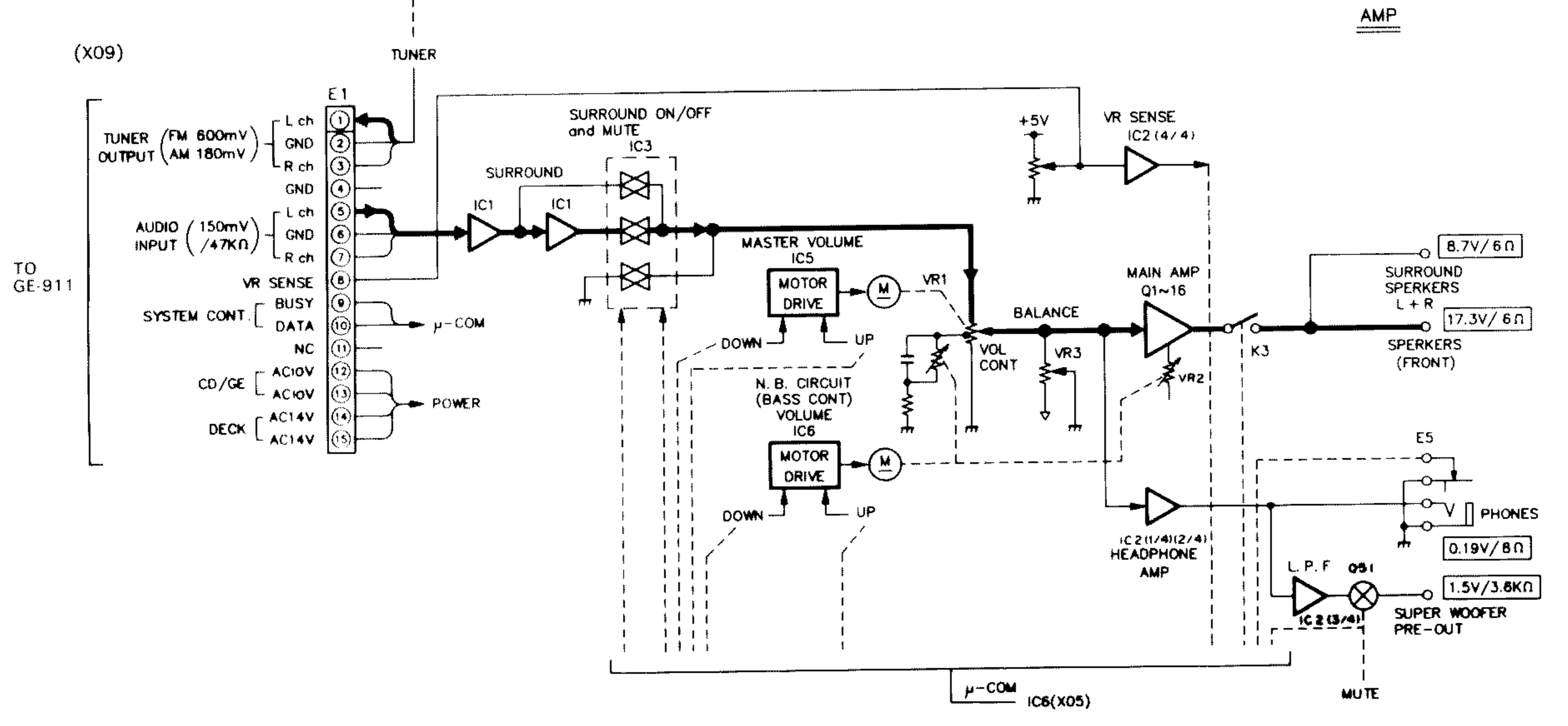
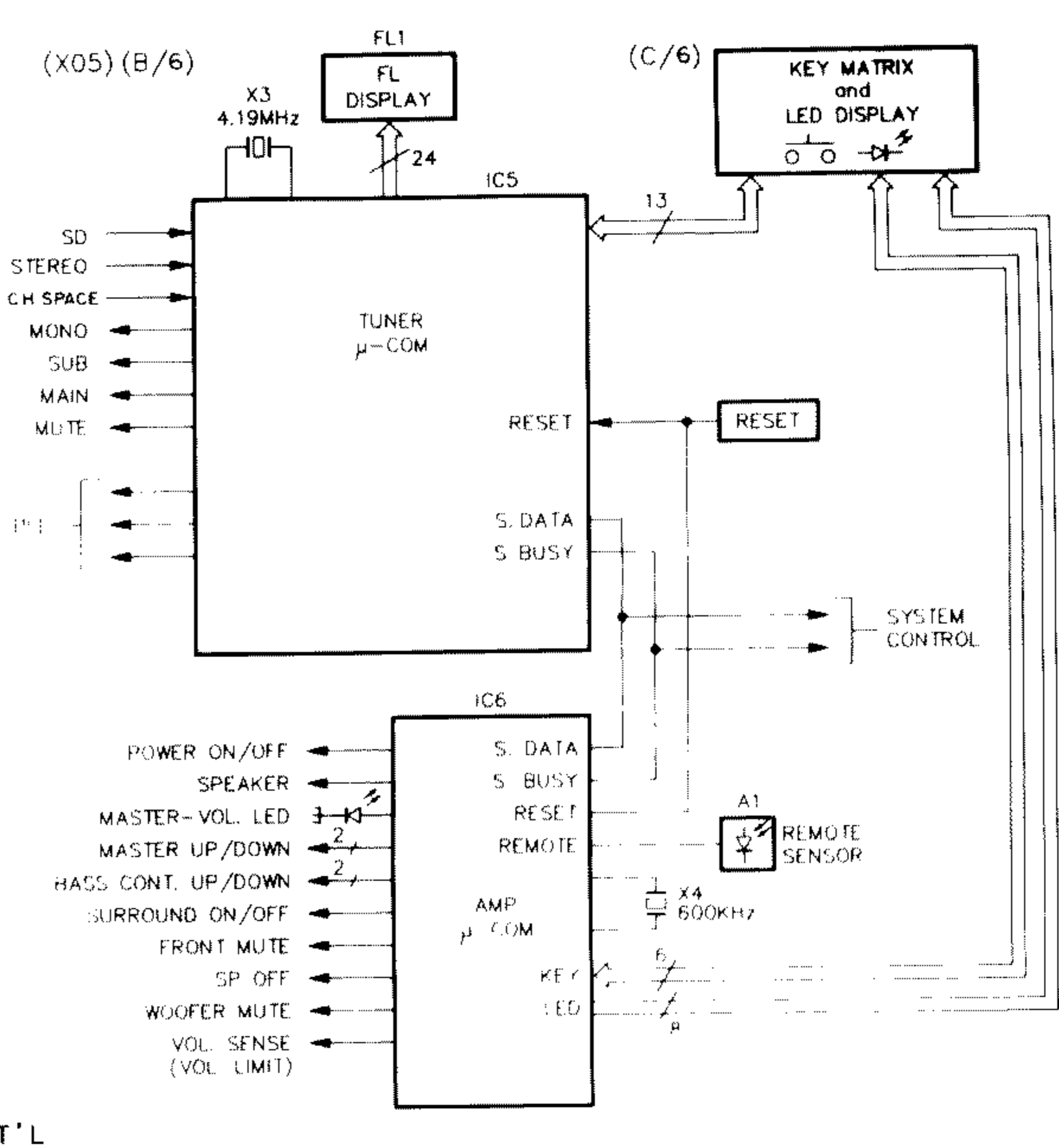
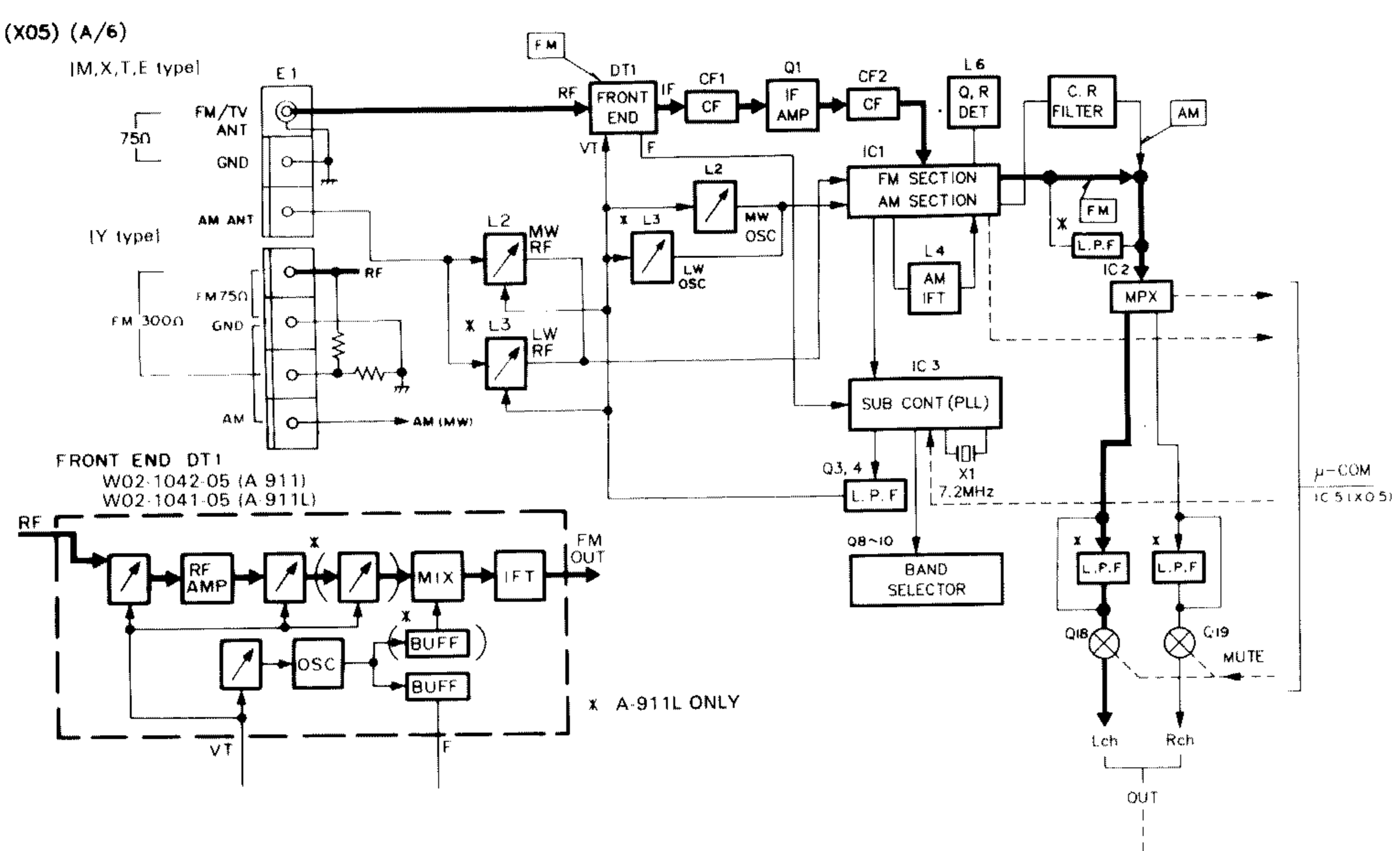
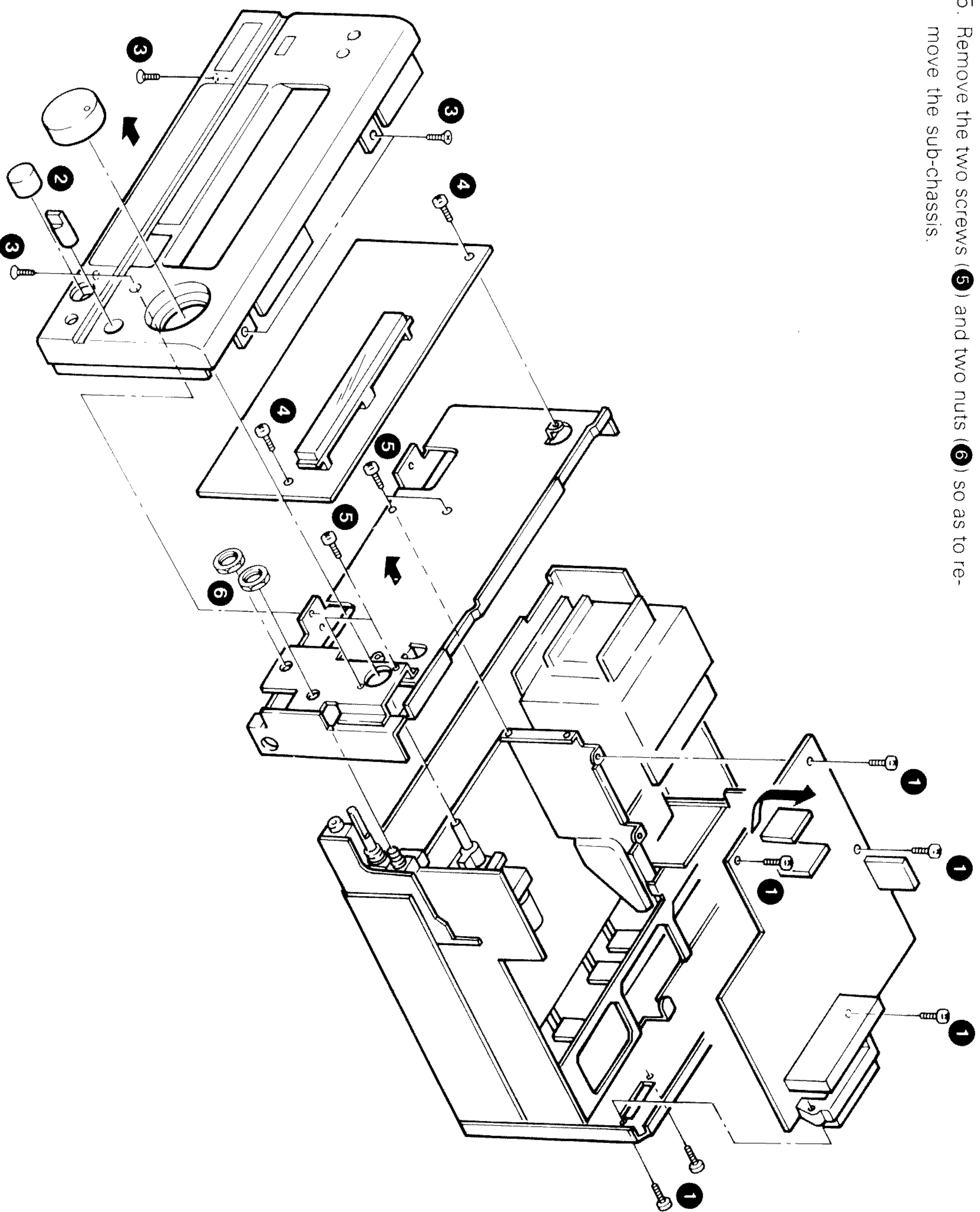
How to remove the chassis of bottom board

- Detach the radiator cover by removing the three screws (1) from the cover of rear side. (It is used for check and so on of power transistor)
- Remove seven screws (2) of chassis of added bottom board.
- Remove four screws (3) of the transformer.
- Remove the chassis of bottom board from the right side of front panel by paying attention not to hook it with surround terminals. (4)



DISASSEMBLY FOR REPAIR

- How to remove tuner board and front panel**
1. Remove six screws (1), then detach the tuner board from the front side.
 2. Remove the three thumbscrews (2).
 3. Remove four screws (3) so as to remove the panel.
 4. Remove two screws (4) so as to remove the indication board.
 5. Remove the two screws (5) and two nuts (6) so as to re-



BLOCK DIAGRAM

CIRCUIT DESCRIPTION

Function of components
Tuner unit (X05-3992-71)

Ref No.	Components	Use/Function	Operation/Condition
IC1	LA1265	FM/AM system IC	FM IF amplification, FM detection, AM MIX, AM IF amplification and AM detection.
IC2	AN7470	Audio demodulation (AM, FM)	FM stereo multiplex
IC3	LM7001	PLL IC	PLL
IC5	CXP60112-127Q	Tuner microprocessor	Tuner control, timer operation and control of others.
IC6	μ PD7538ACU-232	Amplifier microprocessor	Amplifier control.
IC7	PST529D	Reset IC	Generates the reset power source.
IC9	μ PC7805HF or AN7805F	+5V 3-terminal regulator	+5V rectification
IC10	μ PC7805HF or AN7805F	+5V 3-terminal regulator	+5V rectification
O1	ZSC1923(R,O)	IF amplification	IF amplification of FM
O2	ZSK163(L,M)	PLL time constant conversion SW	At the time of LW reception: OFF
O3	ZSC945(A)(Q,P) or ZSC1740S(Q,R)	L.P.F.	L.P.F. for PLL (integration type)
O4	ZSC1845(F,E)	L.P.F.	L.P.F. for PLL (integration type)
O5	ZSC945(A)(Q,P) or ZSC1740S(Q,R)	MW/LW conversion	At the time of MW: ON
O6	ZSC945(A)(Q,P) or ZSC1740S(Q,R)	MW/LW conversion	At the time of LW: ON
O7	ZSC945(A)(Q,P) or ZSC1740S(Q,R)	Buffer	Buffer for FM detecting output (for L.P.F. matching)
O8	ZSA733(A)(Q,P) or ZSA933S(Q,R)	FM + B conversion	At the time of receiving FM: ON
O9	ZSA733(A)(Q,P) or ZSA933S(Q,R)	LW + B conversion	At the time of receiving LW: ON
O10	ZSA733(A)(Q,P) or ZSA933S(Q,R)	MW + B conversion	At the time of receiving MW: ON
O11	ZSC945(A)(Q,P) or ZSC1740S(Q,R)	Deemphasis conversion	$\left(\begin{array}{l} 50 \mu\text{sec.} \leftrightarrow 75 \mu\text{sec.} \\ \text{At the time of Tr. ON: } 75 \mu\text{sec.} \end{array} \right)$
O12	ZSC945(A)(Q,P) or ZSC1740S(Q,R)	Deemphasis conversion	
O13	ZSC945(A)(Q,P) or ZSA1740S(Q,R)	Reversing circuit	Controls reset circuit (Tuner μ -COM)
O14	ZSA733(A)(Q,P) or ZSA933S(Q,R)	Reversing circuit	Controls reset circuit (Amplifier μ -COM)
O15	ZSA733(A)(Q,P) or ZSA933S(Q,R)	Reversing circuit	Reverses the mute signal from the amplifier microprocessor.
O16	ZSA733(A)(Q,P) or ZSA933S(Q,R)	Reversing circuit	Reverses the mute signal from the tuner microprocessor.
O17	ZSA733(A)(Q,P) or ZSA933S(Q,R)	Destination Conversion SW	Converts deemphasis and channel space.
O18	ZSD1302(S,T)	Mute	Mute SW of Lch.
O19	ZSD1302(S,T)	Mute	Mute SW of Rch.
O21	ZSD1266(Q,P)	+14V rectification	Generates the stabilized power source for 14V.
O22	ZSC945(A)(Q,P) or ZSC1740S(Q,R)		
O23	ZSC945(A)(Q,P) or ZSC1740S(Q,R)		

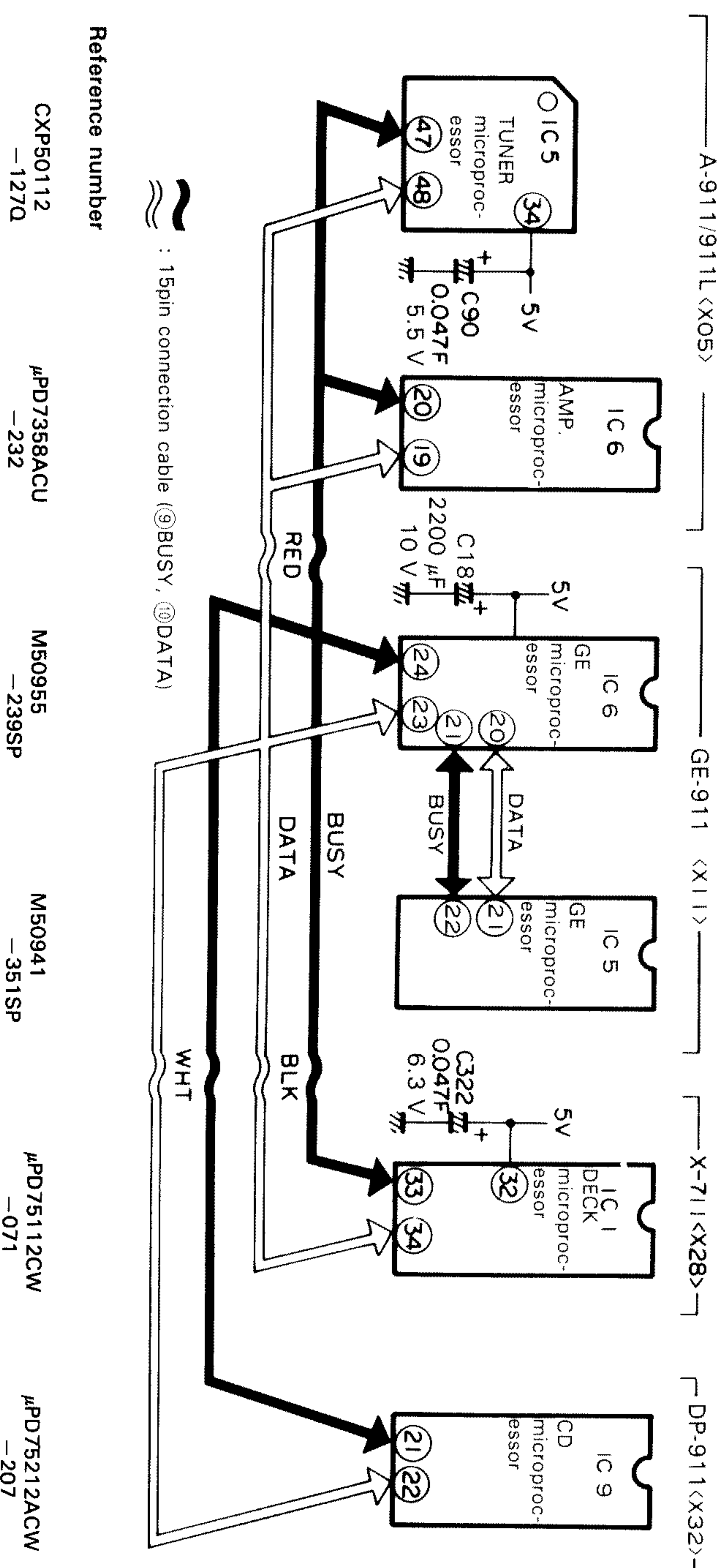
Function of components
Audio unit (X09-3142-72)

CIRCUIT DESCRIPTION

Ref No.	Components	Use/Function	Operation/Condition
IC1	NJM2058D	Surround	Surround buffer
IC2	NJM2058D	Headphone amplifier, Super woofer buffer, VR detecting comparator	IC2 (1/4) (2/4) headphone amplifier, IC2 (3/4) super-woofer buffer, IC2 (4/4) comparator
IC3	TC9215P	Surround selector	Surround is turned ON/OFF with the pin No. 23 of IC6 <X05>. H: ON, L: OFF
		Mute	MUTE is turned ON/OFF with the pin No. 13 of IC6 <X05>. H: ON, L: OFF
IC4	μ PC1237HA	Protection	
IC5	TA8409S	Main volume drive	MAIN VOL. is turned DOWN/UP with the pin Nos. 6 and 7 of IC6 <X05>.
IC6	TA8409S	N.B.C. volume drive	N.B.C. VOL is turned DOWN/UP with the pin Nos. 10 and 11 of IC6 <X05>.
IC7	μ PC7915HF	-15V stabilizing power source	3-terminal regulator
O1~4	ZSA992(F,E)	For the 1st stage A class	
O5, 6	ZSA992(F,E)	For the 2nd stage A class	
O7~10	ZSC1845(F,E)	For the 2nd stage A class	
O11, 12	ZSC4137(F19(V,W))	For temperature compensation	
O13, 14	ZSD2255BT*5	Final Tr.	
O15, 16	ZSB1493BT*5	Final Tr.	
O17, 18	ZSC2631(R,S)	For detecting overloading.	
O51	ZSC2878(B)	For super woofer muting	It is turned ON by turning on O52.
O52	ZSA733(A)(Q,P) or ZSA933S(Q,R)	Super woofer muting drive	It is turned ON by lowering pin No. 9 of IC6 (X05).
O53	ZSA733(A)(Q,P) or ZSA933S(Q,R)	Ripple filter	
O54	ZSA992(F,E)	For protection	
O55	ZSC3666	AC relay drive	It drive AC relay K1, 2 with the pin No.14 of IC6 (X05).
O56	ZSC1740S(Q,R) or ZSC945(A)(Q,P)	Speaker relay drive	It drives the SP relay K3 with the pin No.16 of IC6 (X05).
O57	ZSD1266(Q,P)	+15V stabilizing, power source	
D1,2	HSS104 or 1SS133	For A class	
D3,4	HSS104A or 1SS131	For protection	
D11	RBV-602LFA	For rectification	
D12	HZS15S(B) or RD15JS(B)	+15V stabilizing, power source	
D13	HZS15S(B) or RD15JS(B)	For +15V stabilizing power source A class	
D14, 15	HZS5.1N(B2) or RD5.1ES(B2)	For VR detection	
D16	HZS4.7N(B) or RD4.7ES(B)	For muting	
D17~22, 34, 35	HSS104 or 1SS133	For protection of static electricity	
D23	HSS104 or 1SS133	For removing headphone shock noise	
D24	HSS104 or 1SS133	For removing selector shock noise	
D25, 26	HSS104 or 1SS133	For relay	
D27	HSS104A or 1SS131	For relay	
D28	HSS104A or 1SS131	For detecting protection AC	
D29	S5566B	For rectifying AC relay power source	
D32	HSS104 or 1SS133	For mute	
D33	HSS104 or 1SS133	For VR LED	
D34 or 35	HSS104 or 1SS133	For protection of static electricity	

CIRCUIT DESCRIPTION

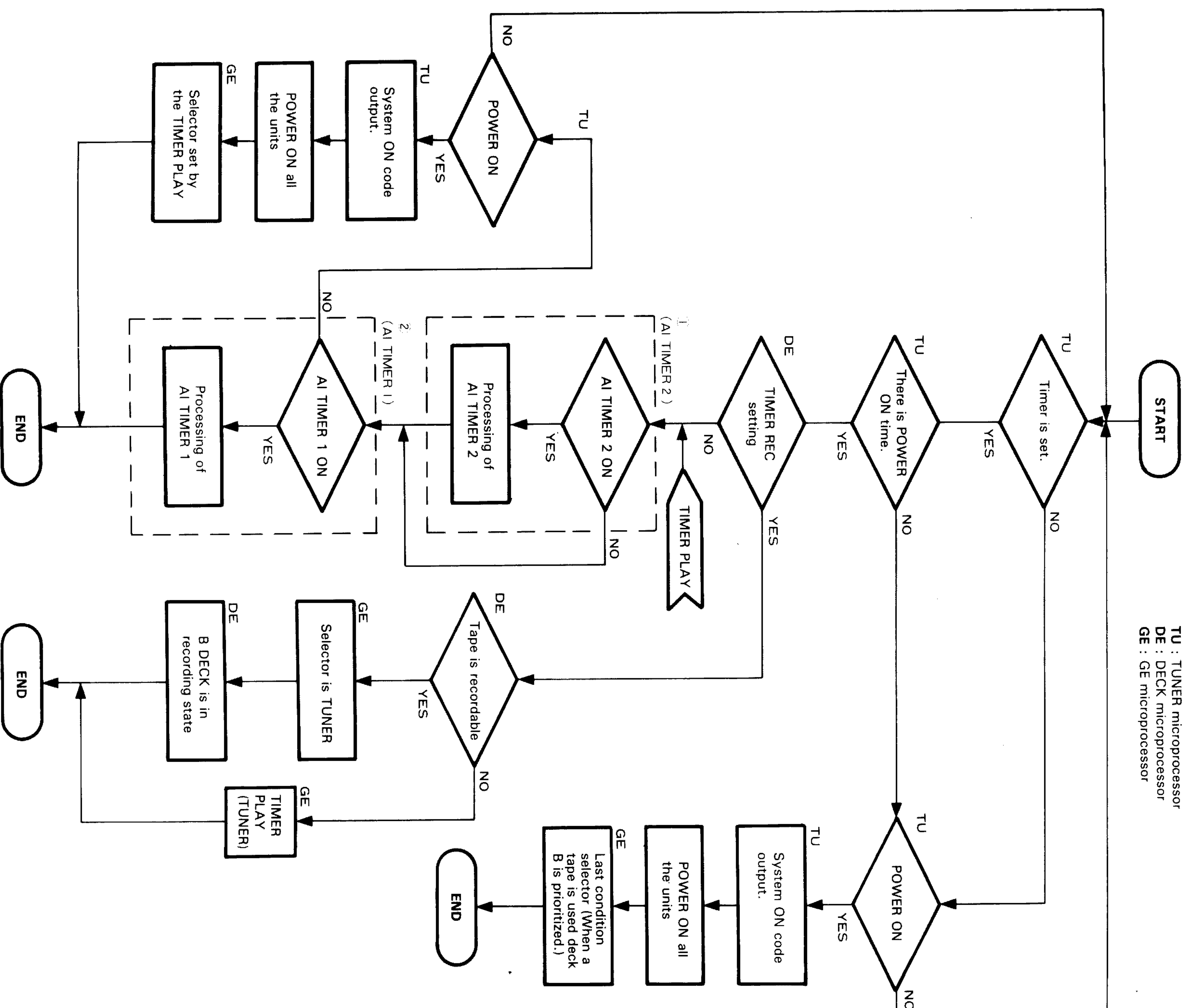
Microprocessor and back-up condenser of this unit



Initialization (reset) of each microprocessor and test mode		A-911/911L	GE-911	X-711	DP-911
	TUNER microprocessor IC5 (X05)	AMP. microprocessor IC6 (X05)	GE microprocessor IC5, 6 (X11)	DECK microprocessor IC1 (X28)	CD microprocessor IC9 (X32)
Back-up Condenser	(X05) C90 0.047F 5.5V	None	(X11) C18 2200μF 10V	(X28) C322 0.047F 6.3V	None
Initialization (Reset)	Insert the AC plug to the outlet while pressing the "ENTER" key.	Pull out the AC plug from the outlet and then insert again.	Turn on AC while pressing the "ENTER" and "MEMO" keys of GE.	Keep pressing the "CRLS" key for more than three seconds per selector (turns out to be -15 dB).	Turn AC off once.
Operation	While simultaneously pressing the selector "CD" and tuning "DOWN" keys, insert AC plug into the outlet and simultaneously touch off the keys.		(1) Turn on AC while pressing the "FLAT" key. (2) There is also the selector test mode.	For details, see the service manual of X-711.	There is the adjustment test mode. For details, see the service manual of DP-911.
Release	Press either one of ten keys, "BAND" or "UP/DOWN" keys.		Turn AC on and off without pressing any key.		
Contents	(1) Turns on all the FL tubes. For details, see the service manuals of various equipment.				

Test mode

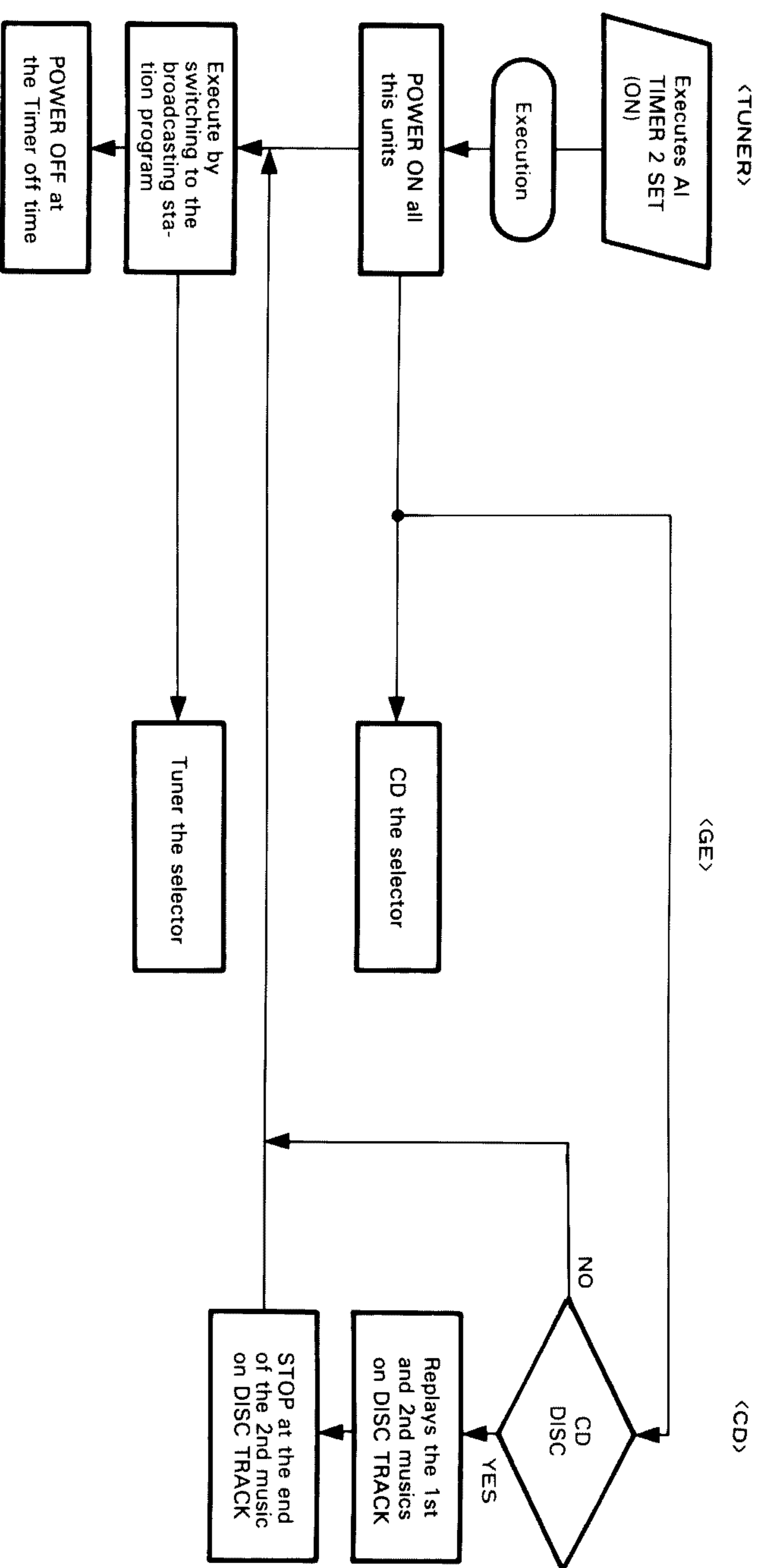
Operation of UD-9 system
The flow chart from power on through sound generation



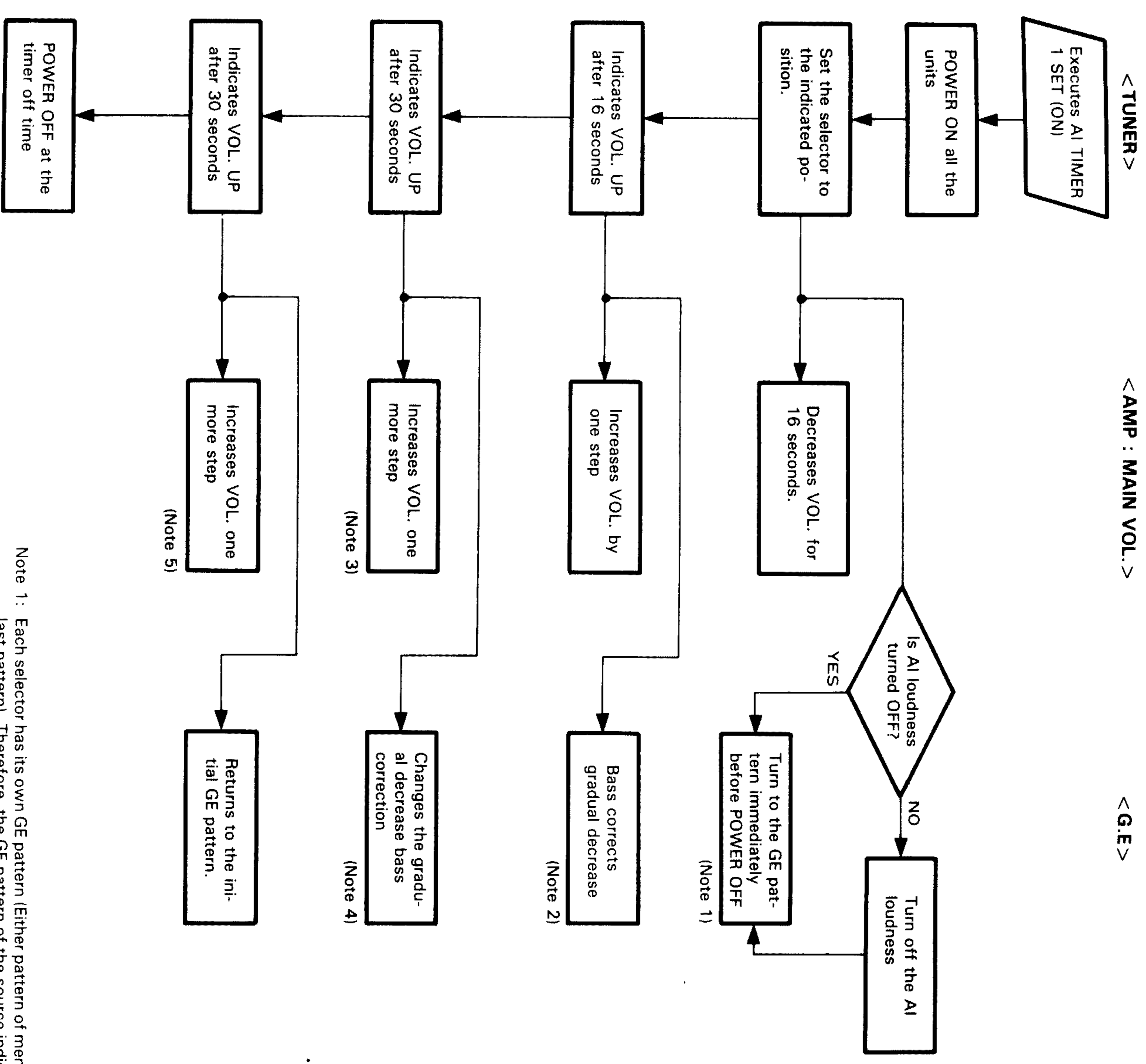
CIRCUIT DESCRIPTION

CIRCUIT DESCRIPTION

① Flow chart of AI TIMER 2

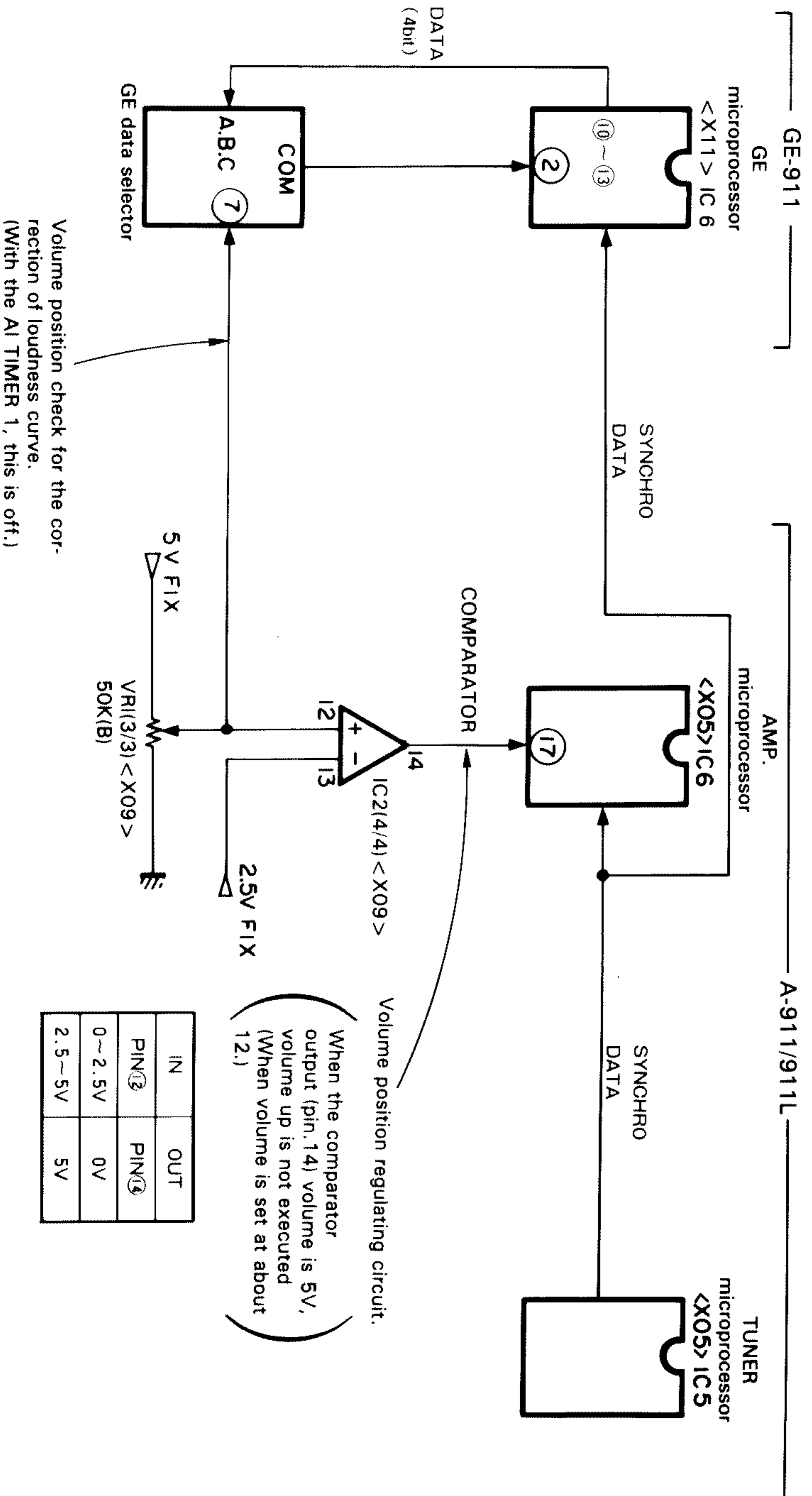


② Indication flow of AI TIMER 1



- Note 1: Each selector has its own GE pattern (Either pattern of memory and last pattern). Therefore, the GE pattern of the source indicated by the timer appears.
- Note 2: Shifts to the pattern which has the loudness effect (There are two patterns of the gradual decrease bass correction of AI TIMER 1).
- Note 3: The three steps of increase volume can be selected.
- Note 4: Decrease correction volume is lowered in accordance with VR UP.
- Note 5: Same as Note 3. However, the VR position is limited at the position of 12.

Operation of AI TIMER 2



CIRCUIT DESCRIPTION

Function description

- a) AI TIMER 1**
- With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 1 is activated if the AI TIMER 1 is set to ON (the FL indicator is lit).
 - When the AI TIMER 1 is turned ON, first playback starts with the minimum volume level, then the volume level is increased in three steps.
 - The third-step volume level (the maximum volume level) can be selected among the three types of the volume levels (VOL. 1-3). Each time the AI TIMER 1 key is pressed, the maximum volume level is changed in order from VOL. 1 to VOL. 3 and TIMER OFF setting cyclically.

① When the key is pressed with the AI TIMER 1 is OFF (FL indicator is not lit):

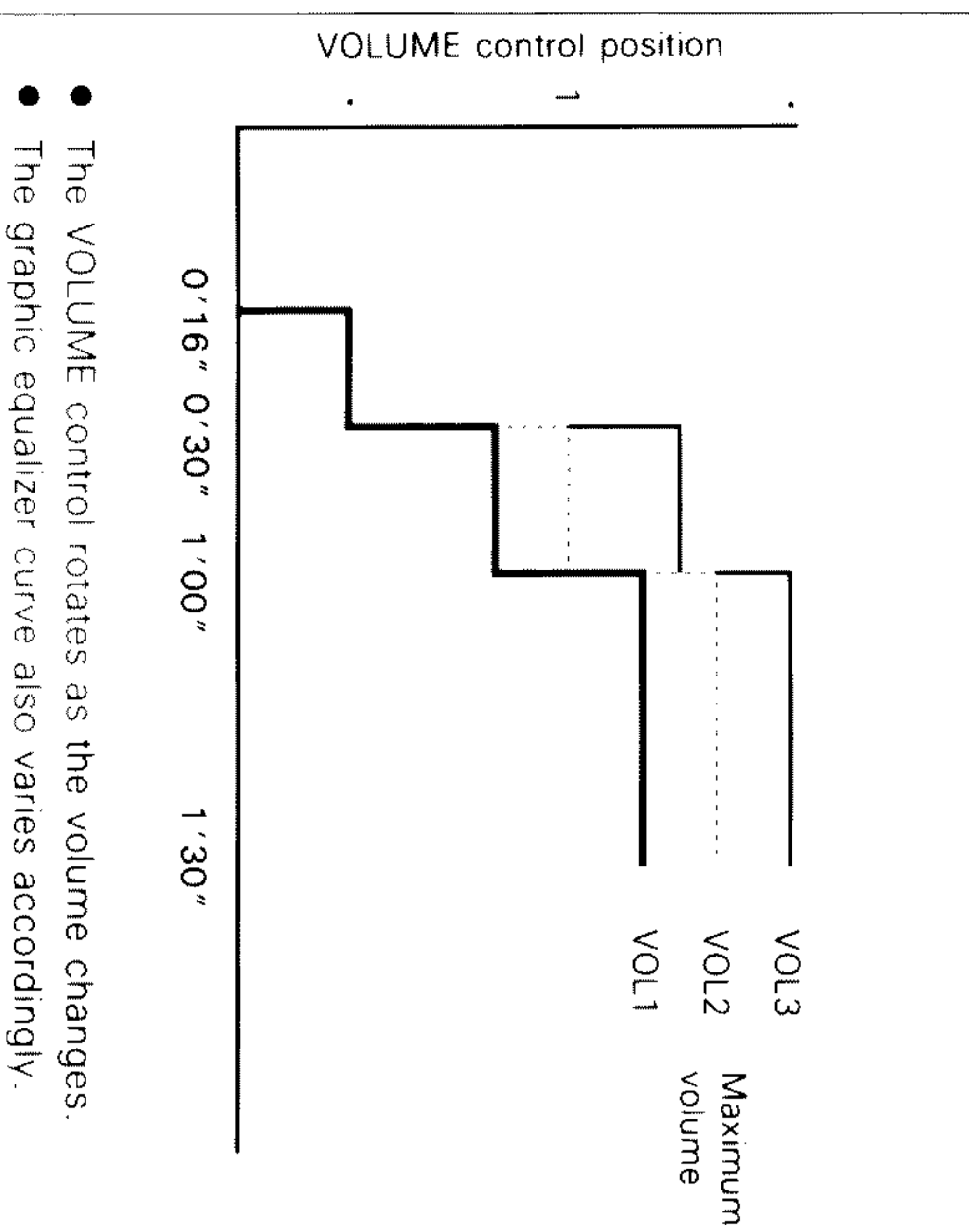
OFF → VOL. 1 → VOL. 2 → VOL. 3

② When the key is pressed in the volume setting mode (FL indicator is lit):

Example: When VOL. 2 is selected

VOL. 2 → VOL. 3 → OFF → VOL. 1

Reference for volume selection



b) AI TIMER 2

- With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 2 is activated if the AI TIMER 2 is set to ON (FL indicator is lit).
- When the AI TIMER 2 is turned ON, if the disc is loaded in the CD player, the two tracks on the disc is played regardless whether the other source is set for play. Then, the playback source is changed to tuner automatically.
- Each time the AI TIMER 2 key is pressed, the timer setting is changed alternately.

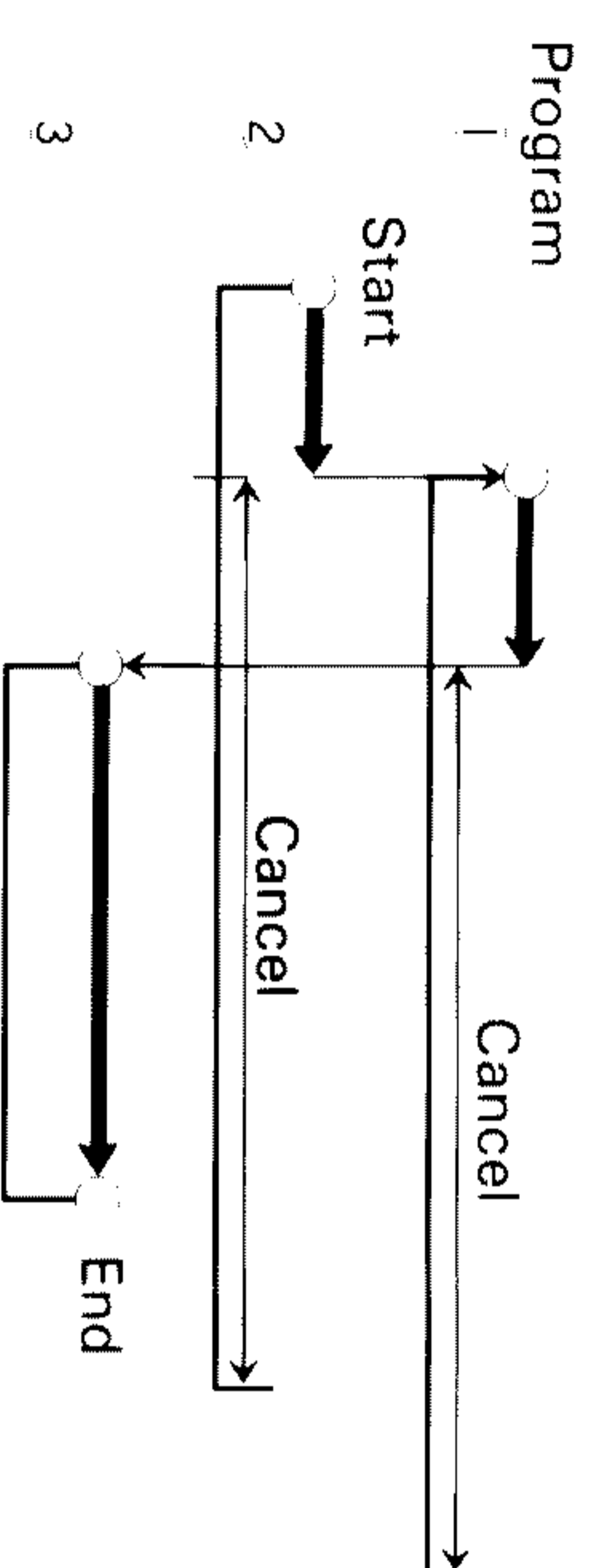
CIRCUIT DESCRIPTION

Timer program operation

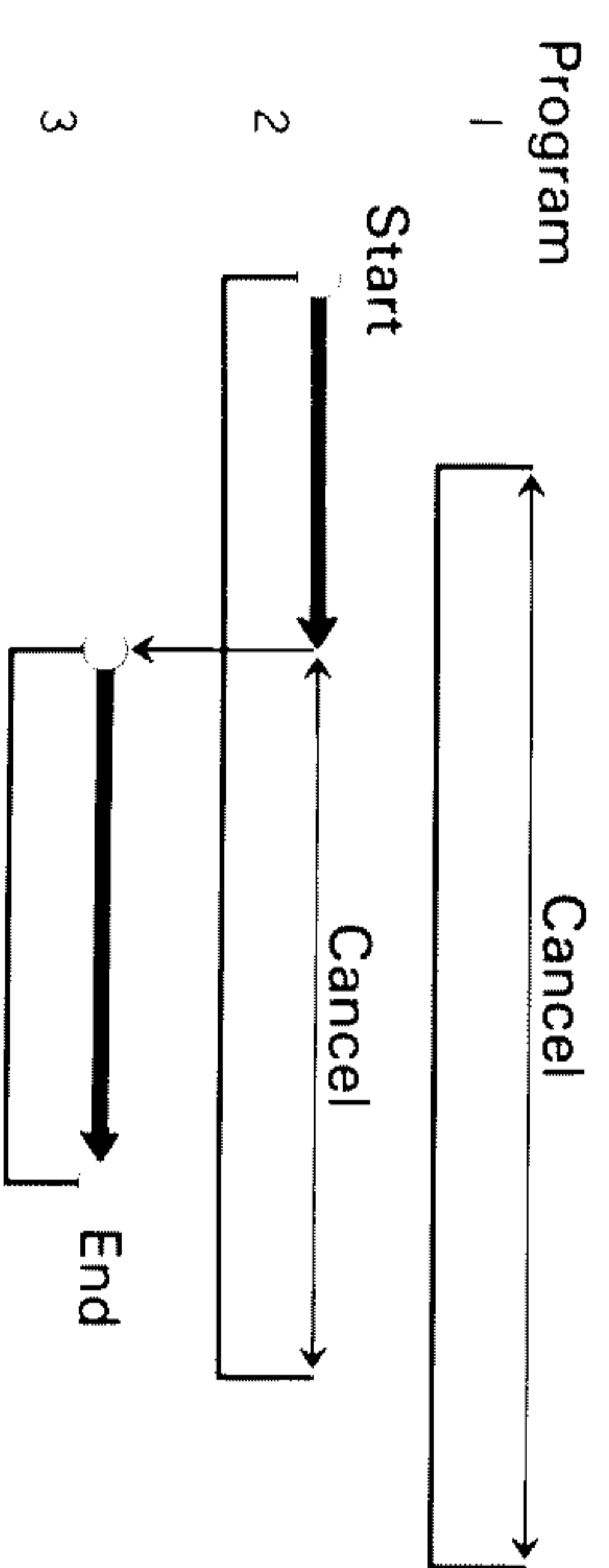
< When the program settings are registered within the same period >

- When the two or more program settings are to be started at the same time: The program having the least number is activated and others will be cancelled.
- When the setting time for two or more programs differ: First, the program with the earliest setting time is activated. Then, if the same mode (REC mode or PLAY mode) has been designated for the other program, the operation is changed to the program in which the same mode as the first one is designated and the end time for the above program will be cancelled. If another mode is set for of other programs, the contents will be cancelled.

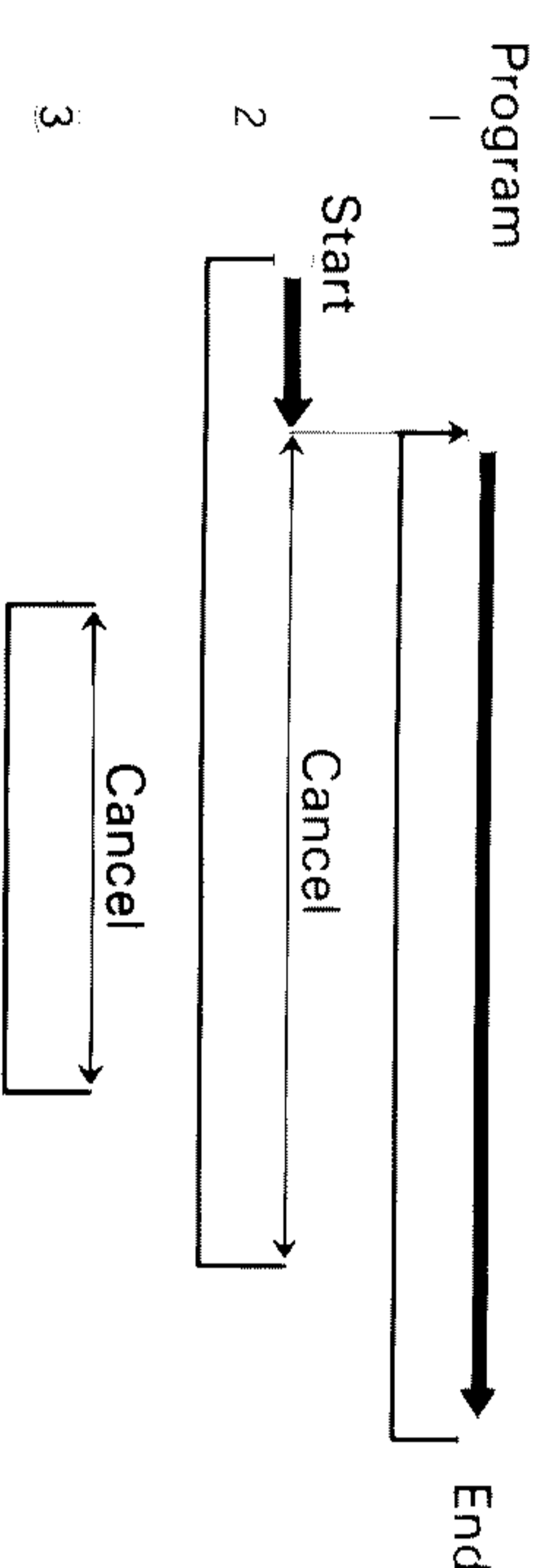
Example 1: When the operation modes for all three programs are set to PLAY:



Example 2: When the operation modes for programs ①, ② are set to PLAY and that for the program ③ is set to REC:



Example 3: When the operation mode for programs ①, ② are set to REC and that for program ③ is set to PLAY:



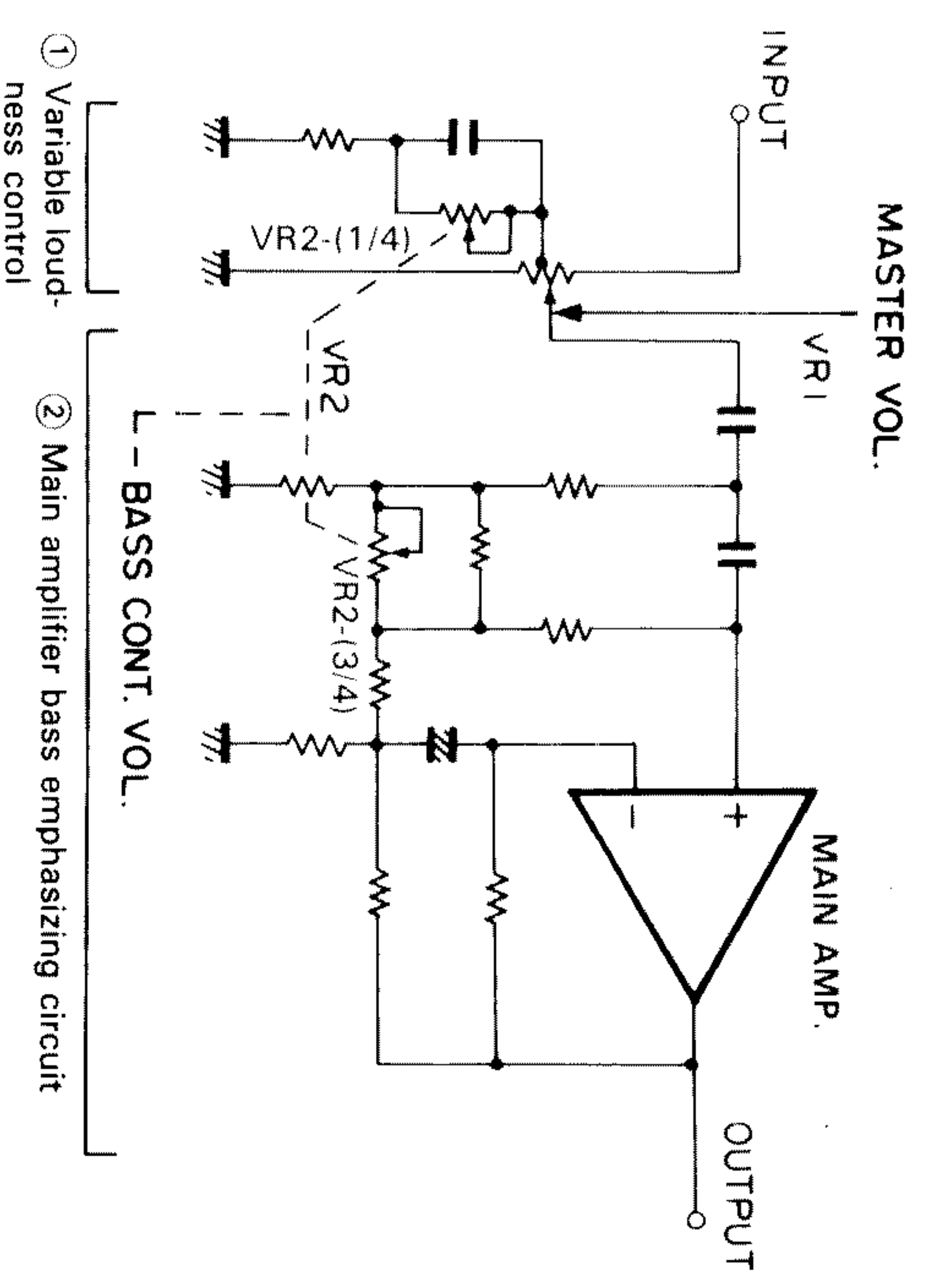
The program end is determined by the OFF time of the program which is activated at the last.

N.B. CIRCUIT (X09-3142-72 (B/5))

The N.B. of N.B. CIRCUIT stands for Natural Bass, and it is the circuit to create further natural bass sound.

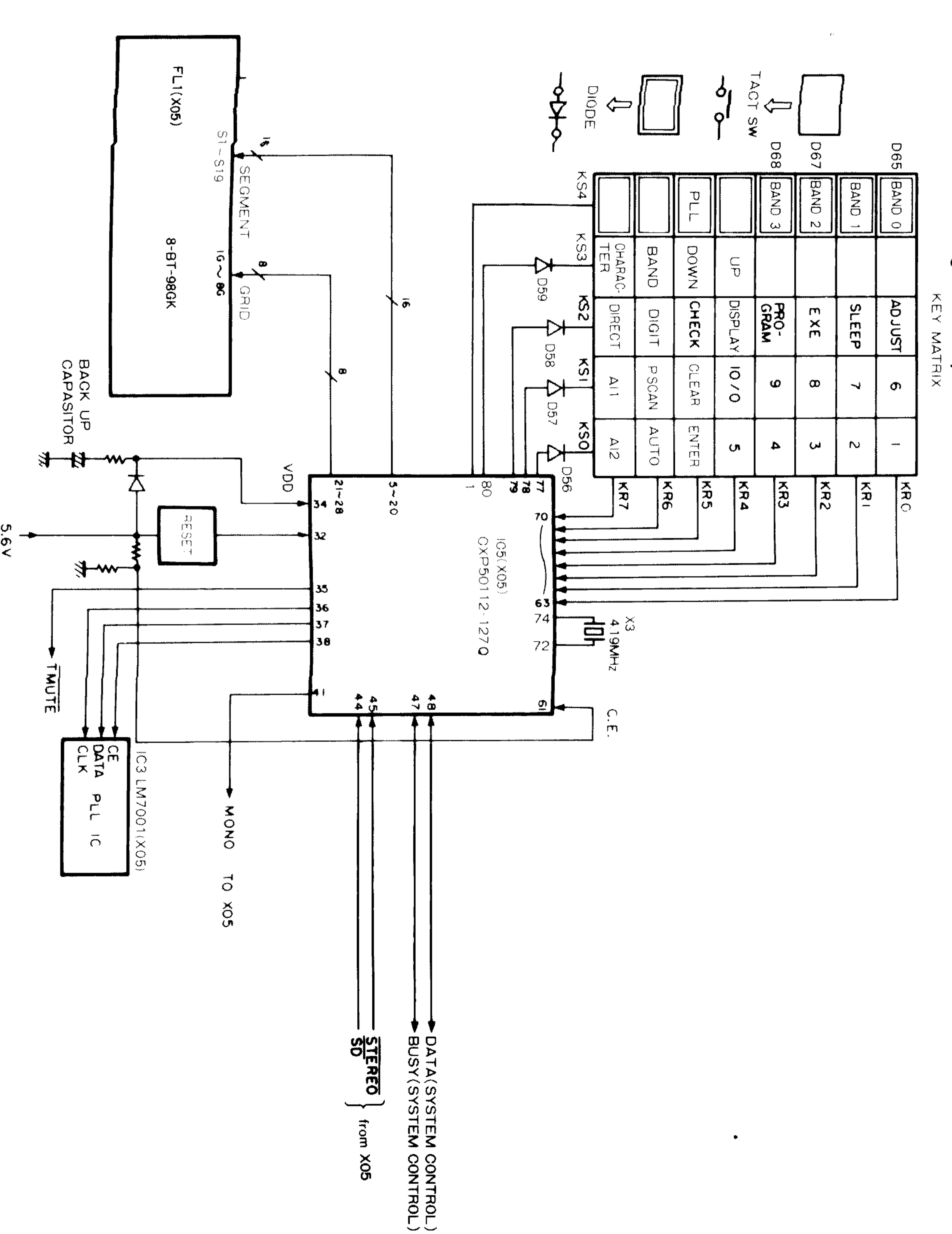
It is roughly composed of ① Variable loudness control and ② Main amplifier bass emphasizing circuit showed in the chart. The ① Variable loudness control in the chart has become able to vary the level of loudness control by mounting the traditional loudness control variable VR (VR2, 1/4) onto itself. The ② main amplifier bass emphasizing circuit can boost up the desired frequency with the fixed number of C.R. parts for input and returning C.R. parts of main amplifier. It has also become able to vary these boost levels by mounting VR2, (3/4) onto it. The fixed number of this A-911/911L has been set so as to boost up 60 Hz.

The action of this circuit results from the combination of aforementioned ① and ②, which also can vary the boost level of bass sound at the same time.



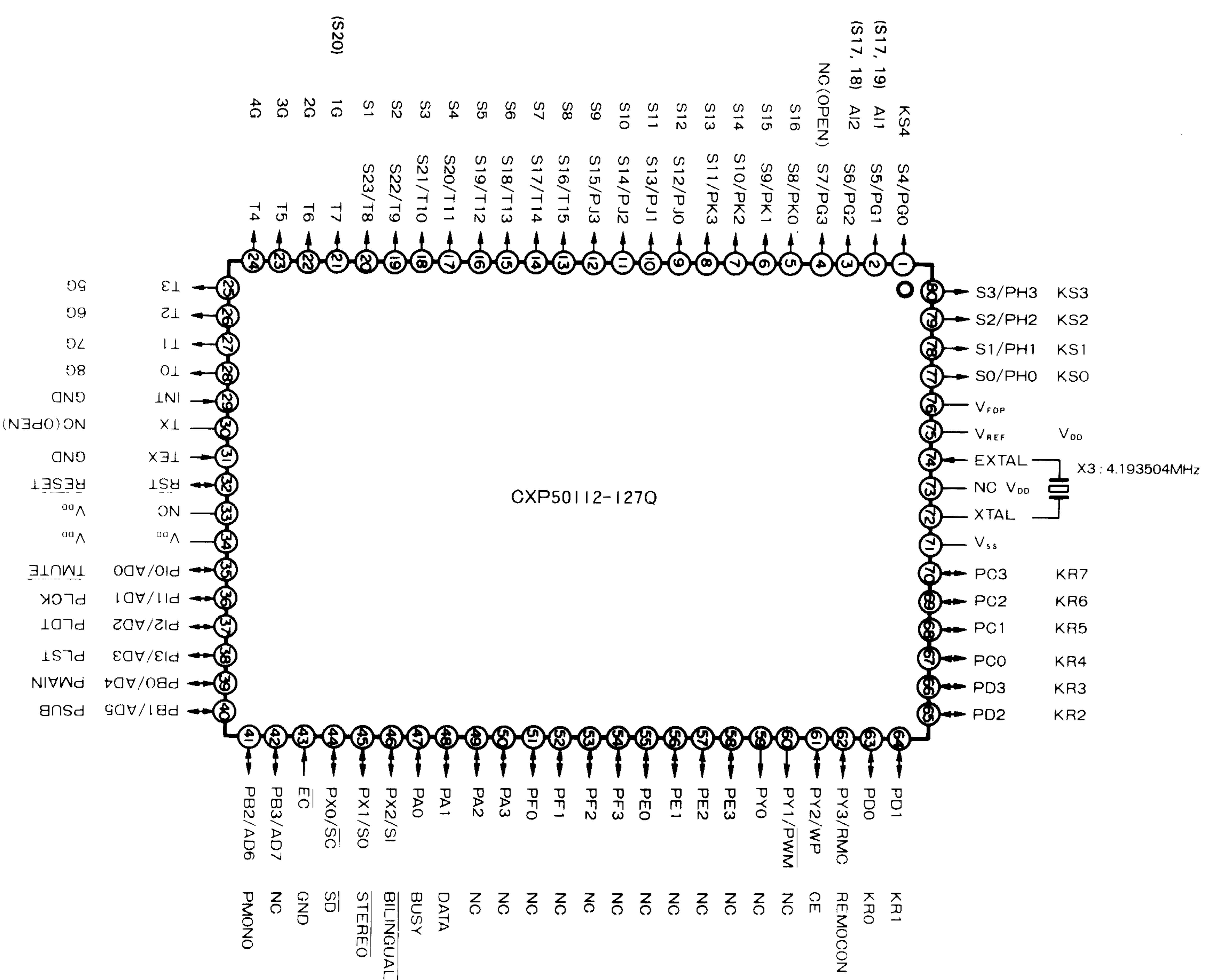
IC5: CXP50112-1270 (X05-3992-71) TUNER microprocessor

Terminal connection diagram & key matrix connection



CIRCUIT DESCRIPTION

Pin connections



CIRCUIT DESCRIPTION

Pin functions

Pin No.	Pin name	I/O	Symbol	Description
1	S4/P/G0	0	KS4	Key scan output
2	S5/P/G1	0	A11	A11 ON/OFF FL segment output (S17,19)
3	S6/P/G2	0	A12	A12 ON/OFF FL segment output (S17,18)
4	S7/P/G3		NC	
5	S8/P/K0	0	S8	FL segment output
6	S9/P/K1	0	S9	FL segment output
7	S10/P/K2	0	S10	FL segment output
8	S11/P/K3	0	S11	FL segment output
9	S12/P/J0	0	S12	FL segment output
10	S13/P/J1	0	S13	FL segment output
11	S14/P/J2	0	S14	FL segment output
12	S15/P/J3	0	S15	FL segment output
13	S16/T15	0	S16	FL segment output
14	S17/T14	0	S17	FL segment output
15	S18/T13	0	S18	FL segment output
16	S19/T12	0	S19	FL segment output
17	S20/T11	0	S20	FL segment output
18	S21/T10	0	S21	FL segment output
19	S22/T9	0	S22	FL segment output
20	S23/T8	0	S23	FL segment output
21	T7	0	T7	FL grid output
22	T6	0	T6	FL grid output
23	T5	0	T5	FL grid output
24	T4	0	T4	FL grid output
25	T3	0	T3	FL grid output
26	T2	0	T2	FL grid output
27	T1	0	T1	FL grid output
28	T0	0	T0	FL grid output
29	INT	1	INT	External interrupt pin ... unused
30	TX	0	TX	Timer oscillation pin ... unused
31	TEX	1	TEX	Timer oscillation pin ... unused
32	RST	1	RESET	Reset input
33	NC		NC	
34	VDD			Power supply pin
35	PI0/AD0	0	TMUTE	Mute output
36	PI1/AD1	0	PLCK	Clock to PLL or extension IC
37	PI2/AD2	0	PLDT	Data output to PLL or extension IC
38	PI3/AD3	0	PLST	Chip enable output for PLL
39	PB0/AD4	0	PMMAIN	TV sound MPX selection output
40	PB1/AD5	0	PSUB	TV sound MPX selection output
41	PB2/AD6	0	PMONO	Stereo/monaural selection
42	PB3/AD7	0	NC	
43	EC	1	EC	Event counter input ... unused
44	PX0/SC	1	SD	Tuning signal input
45	PX1/SO	1	ST	Stereo signal input

CIRCUIT DESCRIPTION

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Symbol	Description
46	PX2/SI	I	BIL	Bilingual signal input H: NORMAL L: BILINGUAL
47	PA0	I/O	BUSY	System control busy
48	PA1	I/O	DATA	System control data
49	PA2	O	NC	
50	PA3	O	NC	
51	PF0	O	NC	
52	PF1	O	NC	
53	PF2	O	NC	
54	PF3	O	NC	
55	PE0	O	NC	
56	PE1	O	NC	
57	PE2	O	NC	
58	PE3	O	NC	
59	PV0	O	NC	
60	PY1/PWM	O	NC	
61	PY2/WP	I	CE	AC ON/OFF detection input H: ON L: OFF
62	PY3/RMC	I	RMCN	Remote control input
63	PDO	I	KR0	Key return input H: With input L: Without input
64	PD1	I	KR1	Key return input H: With input L: Without input
65	PD2	I	KR2	Key return input H: With input L: Without input
66	PD3	I	KR3	Key return input H: With input L: Without input
67	PC0	I	KR4	Key return input H: With input L: Without input
68	PC1	I	KR5	Key return input H: With input L: Without input
69	PC2	I	KR6	Key return input H: With input L: Without input
70	PC3	I	KR7	Key return input H: With input L: Without input
71	VSS			GND pin
72	XTAL	O	XTAL	For oscillator
73	NC			
74	EXTAL	I	EXTAL	For oscillator
75	VREF			For voltage detection reset... unused
76	VfDP		VfDP	FL terminal pull-down resistor power supply
77	SO/PH0	O	KS0	Key scan output H: ON L: OFF
78	S1/PH1	O	KS1	Key scan output H: ON L: OFF
79	S2/PH2	O	KS2	Key scan output H: ON L: OFF
80	S3/PH3	O	KS3	Key scan output H: ON L: OFF

Test mode

(1)Setting method

While pressing the "DOWN" key, insert the AC plug into the outlet and simultaneously touch off the key.

(2)Contents

POWER ON

FL all lit

Test Frequency Setting (Table 1)

(3)Clearing method

The FL all lit state is canceled due to ten keys, BAND key, UP/DOWN key or POWER key.

Setting of initial conditions (reset)

(1)Method

While pressing ENTER key, turn the AC ON.

(2)Contents

Clears all the memory and returns to the initial conditions. However, the test frequency is newly memorized in the preset memory at this time. (The same as when the backup data is NG.)

Destination	Band	Pch	J		K,P,Y,M,X	T,E
			Band	space		
AM	1	76.0 MHz	100 kHz	-10.75 MHz	25 kHz	
	2	78.0 MHz	9 kHz	+450 kHz	9 kHz	
	3	80.0 MHz	6 MHz	-10.75 MHz	25 kHz	
	4	82.0 MHz	100 kHz	+10.7 MHz	50 kHz	
	5	83.0 MHz	100 kHz	+10.7 MHz	50 kHz	
	6	83.5 MHz	9 kHz	+450 kHz	10 kHz	
	7	86.0 MHz	100 kHz	+10.7 MHz	50 kHz	
	8	88.0 MHz	102.0 MHz	+450 kHz	9 kHz	
	9	89.1 MHz	106.0 MHz	+10.7 MHz	50 kHz	
	10	90.0 MHz	108.0 MHz	+450 kHz	9 kHz	
TV/LW	1	531 kHz	62ch	-	-	
	2	630 kHz	1ch	-	153 kHz	
	3	990 kHz	3ch	-	162 kHz	
	4	8ch	4ch	-	216 kHz	
	5	12ch	8ch	-	270 kHz	
	6	13ch	12ch	-	281 kHz	
	7	35ch	13ch	-	-	
	8	62ch	35ch	-	-	

Conditions by destination

(Table 1)

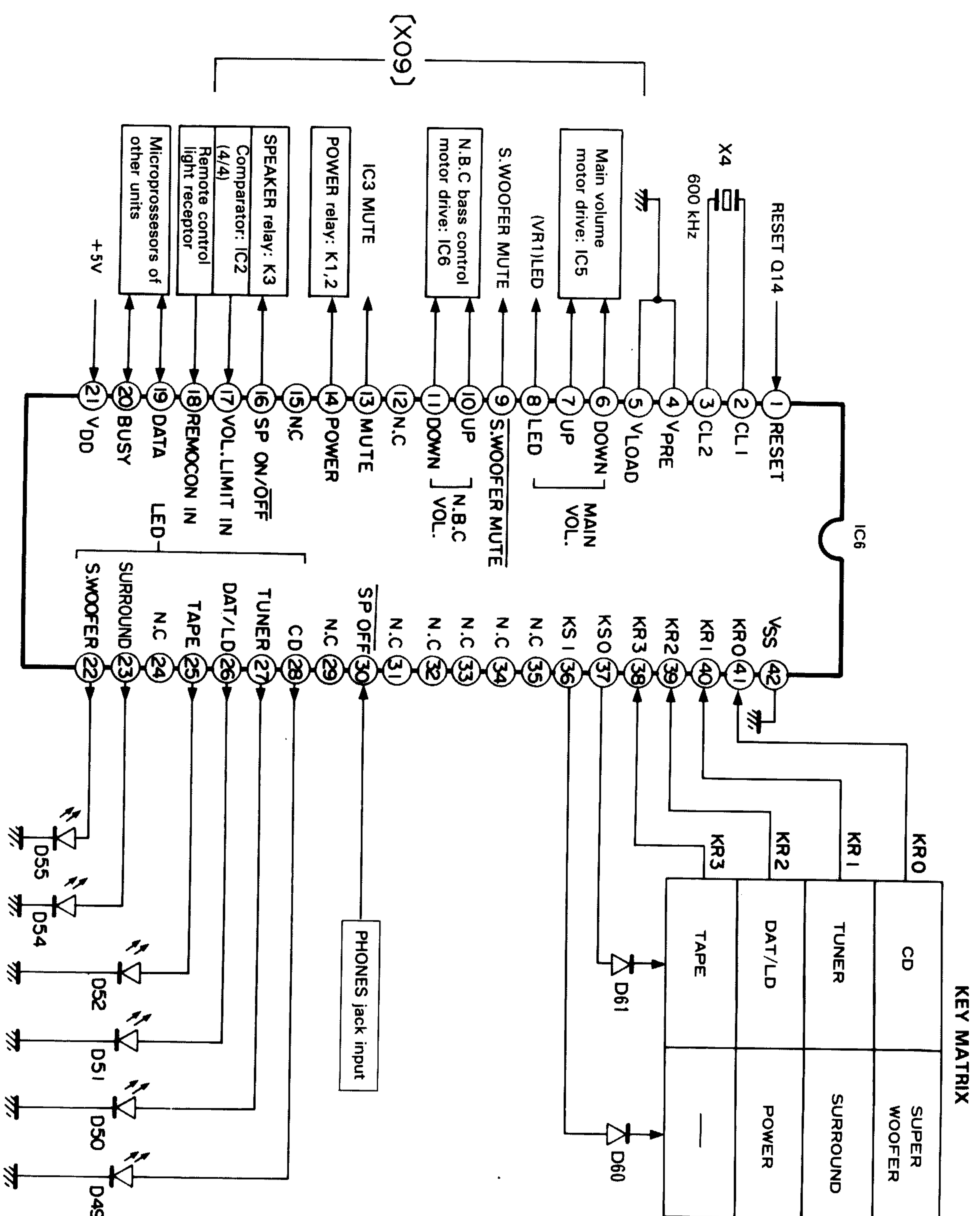
Desti- nation type	Destination switches				Band	Receiving frequency range	Inter-channel space	Intermediate frequency	PLL reference frequency
	B3	B2	B1	B0					
J	0	0	0	0	FM	76.0~90.0 MHz	100 kHz	-10.75 MHz	25 kHz
					AM	531~1602 kHz	9 kHz	+450 kHz	9 kHz
M,Y	1	1 or 0	0	0	TV	1~62ch	6 MHz	-10.75 MHz	25 kHz
					FM	87.5~108.0 MHz	100 kHz	+10.7 MHz	50 kHz
K,P	1	0	0	0	AM	531~1602 kHz	9 kHz	+450 kHz	10 kHz
					FM	87.5~108.0 MHz	100 kHz	+10.7 MHz	50 kHz
X	1	1	0	0	AM	531~1602 kHz	9 kHz	+450 kHz	9 kHz
					FM	87.5~108.0 MHz	50 kHz	+10.7 MHz	50 kHz
T,E	1	1	0	1	MW	531~1602 kHz	9 kHz	+450 kHz	9 kHz
					LM	153~281 kHz	1 kHz	+450 kHz	1 kHz

(1: With diode, 0: Without diode)

CIRCUIT DESCRIPTION

IC6: μ PD7538ACU-232 (X05-3992-71)
AMP. microprocessor

Terminal connection diagram & key matrix connection



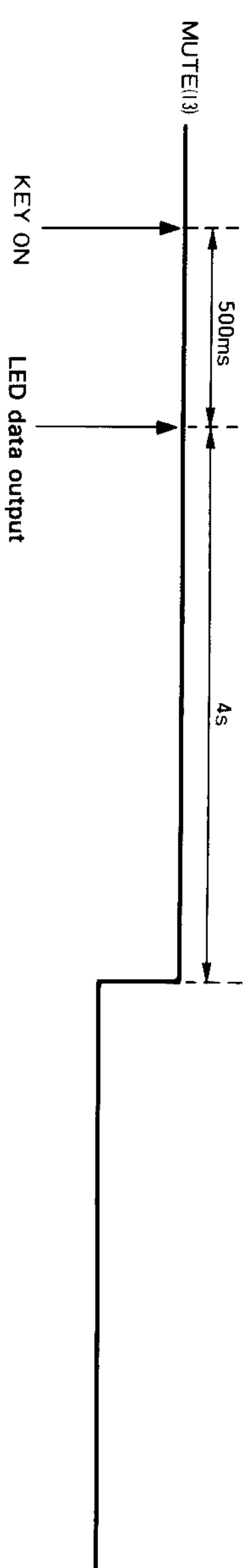
KEY MATRIX

Pin functions

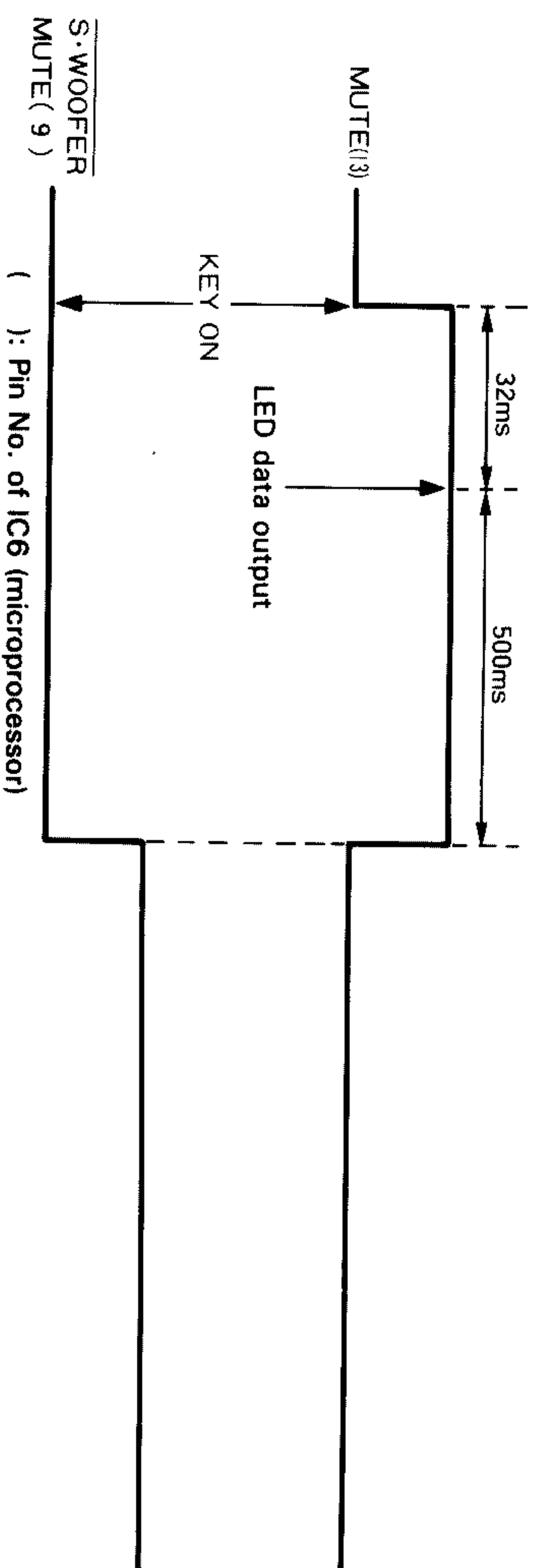
Pin No.	Pin name	I/O	Symbol	Description
1	RESET	I	RESET	Reset input (H: Reset)
2	CL1	-	-	System clock terminal
3	CL2	-	-	System clock terminal
4	VPRE	-	-	No use. (GND)
5	VLOAD	-	-	No use. (GND)
6	PS3	0	VOL. DOWN	Motor volume down drive
7	PS2	0	VOL. UP	Motor volume up drive
8	PS1	0	VOL. LED	Volume indicator LED drive
9	PS0	0	S.WOOFER	Super woofer mute
10	P23	0	BASS UP	N.B. circuit volume up drive
11	P22	0	BASS DOWN	N.B. circuit volume down drive
12	P21/PTOUT	-	-	No use. (OPEN)
13	P103	0	MUTE	Mute
14	P102	0	POWER	Power relay drive
15	P101	-	-	No use. (GND)
16	P100	0	SP ON/OFF	Speaker ON/OFF conversion
17	P113	I	VOL LIMIT IN	Volume position detection input
18	P112	I	REMOCON IN	Remote control input
19	P111	I/O	DATA	Serial data input/output
20	P110	I/O	BUSY	Serial busy input/output
21	VDD	-	-	Power supply pin
22	P93	0	S.WOOFER	Super woofer LED drive
23	P92	0	SURROUND	Surround ON/OFF and LED drive
24	P91	-	-	No use. (OPEN)
25	P90	0	TAPE	TAPE LED drive
26	P83	0	DAT/LD	DAT/LD LED drive
27	P82	0	TUNER	TUNER LED drive
28	P81	0	CD	CD LED drive
29	P80	-	-	No use. (OPEN)
30	P43	I	SP OFF	Speaker OFF detection input
31	P42	-	-	No use. (GND)
32	P41	-	-	No use. (GND)
33	P40	-	-	No use. (GND)
34	P33	-	-	No use. (OPEN)
35	P32	-	-	No use. (OPEN)
36	P31	0	KS1	Key scan output signal 1
37	P30	0	KSO	Key scan output signal 0
38	P03/SI	I	KR3	Key return input signal 3
39	P02/SO	I	KR2	Key return input signal 2
40	P01/SCK	I	KR1	Key return input signal 1
41	P00/INTO	I	KR0	Key return input signal 0
42	VSS	-	-	GND pin

*Turn SP OFF when "L" signal is input.

Timing chart
(1) POWER KEY ON



(2) SELECTOR, SURROUND, SUPER WOOFER KEY ON



* When the switching of POWER ON/OFF or selector is executed in the condition of SUPER WOOFER ON, S-WOOFER MUTE will have the same timing as MUTE (The logic is reverse).

Test mode

a) Setting method

While pressing the "CD" key and tuning "DOWN" key, insert the AC plug into the outlet and simultaneously touch off the key, then the amplifier and tuner simultaneously enter the TEST MODE. When you wish to enter only the amplifier into the TEST MODE, pull out the AC plug from the outlet in the POWER ON condition and insert the AC plug into the outlet while pressing the "CD" key.

b) Clearing method

In order to simultaneously clear the amplifier and tuner, press either the ten keys, "BAND" key or "UP/DOWN" key. In order to clear the amplifier, press either "TUNER" key or pull out the AC from the outlet. In order to clear the tuner, refer to the tuner microprocessor (page. 21).

c) Contents of operation

- ① POWER is turned ON and all the LEDs are lit on.
- ② By pressing "S-WOOFER", both the VOLUME and N.B. CIRCUIT are simultaneously up, and remain to be UP for 12 seconds. Then, they go DOWN and STOPS after about 12 seconds.
- ③ Even if the "CD", "TAPE", "DAT/LD", "SURROUND" and "POWER" keys are pressed, they are not accepted.

Item	Condition
INPUT	TUNER
SURROUND	OFF
SUPER WOOFER	OFF
POWER	OFF (STAND BY)
MUTE	ON
MOTOR VOLUME CONTROL	OFF
LED	OUT LIGHTS

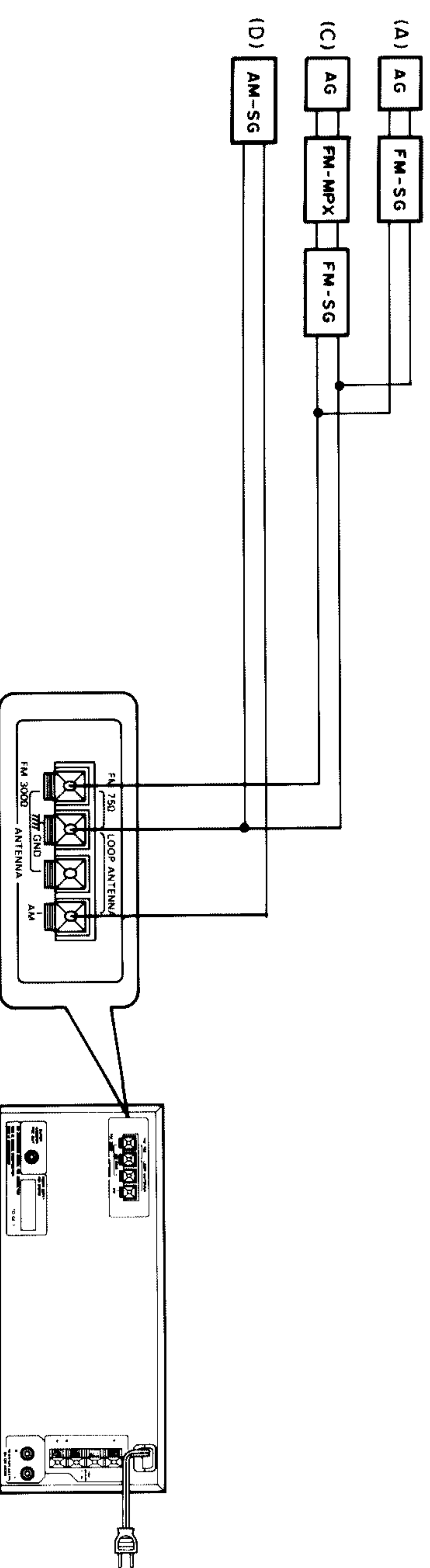
Initialization: Pull the AC plug from the outlet and then insert again.

Tuner unit

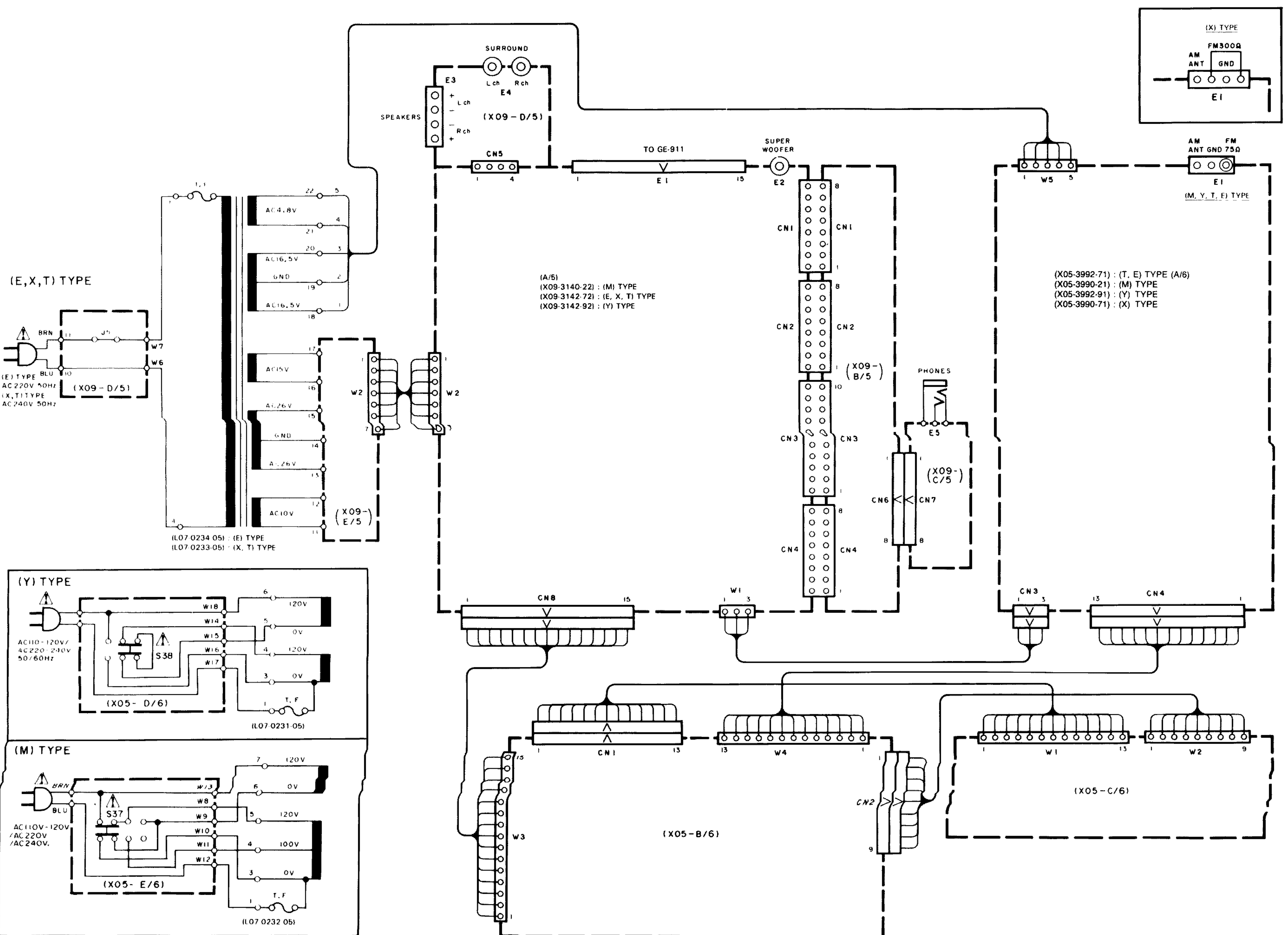
If alignment point is "...", confirm the value.
If not, replace the frontend pack and IC(X05-FLL).

No.	ITEM	INPUT SETTINGS	SELECTOR, FM	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	BAND EDGE (1)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	87.5mV	-	-	1.6V	(a)
2	BAND EDGE (2)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	108.0mV	-	-	8.0V	(a)
3	DISCRIMINATOR	(A) 98.0mV 1kHz: ±75mV dev 60dBc(Ant input)	Connect a DC voltmeter between TP11 and TP12.	AUTO or MONO 98.0mV	L5 (X05-)	-	0V	(b)
4	VCO	(C) 98.0mV 0 dev 100dBc(Ant input)	Connect a frequency counter between TP5 and GND.	AUTO 98mV	VR2 (X03-)	-	19.00kHz	(c)
5	DISTORTION (STEREO)	(C) 98.0mV 1kHz: ±68.25mV dev Selector: L or R Pilot: ±6.75mV dev 60dBc(Ant input)	(d)	98.0mV	IFT (X02-)	-	Minimum distortion.	-
6	SEPARATION (E.T type only)	(A) 98.0mV Stereo signal 60dBc(Ant input)	(d)	AUTO 98.0mV	VR3 (X05-)	-	Minimum crosstalk.	-
7	TUNING LEVEL	(A) 98.0mV 0 dev 14dBc(Ant input) 750	(d)	AUTO or MONO 98.0mV	VR1 (X05-)	-	Adjust VR1 and stop at the point where FLI(TUNED) goes on.	-
AM - MW SELECT ION								
(1)	BAND EDGE (1)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	530kHz (531kHz)	-	-	1.3V	(a)
(2)	BAND EDGE (2)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	1610kHz (1602kHz)	-	-	7.0V	(a)
(3)	RF ALIGNMENT	(D) 990kHz 400Hz: 30% mod 24dBc(Ant input)	(d)	990kHz	L2 BLACK (X05-)	-	Maximum amplitude and symmetry of the oscilloscope display.	-
AM - LW SELECT ION (E.T type only)								
(4)	BAND EDGE (1)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	153kHz	-	-	2.3V	(a)
(5)	BAND EDGE (2)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	281kHz	-	-	7.0V	(a)
Repeat alignments (4) and (5) several times.								
(6)	RF ALIGNMENT	(D) 216kHz 400Hz: 30% mod 32dBc(Ant input)	(d)	216kHz	L3 BLACK (X05-)	-	Maximum amplitude and symmetry of the oscilloscope display.	-

Connection



WIRING DIAGRAM



PARTS LIST

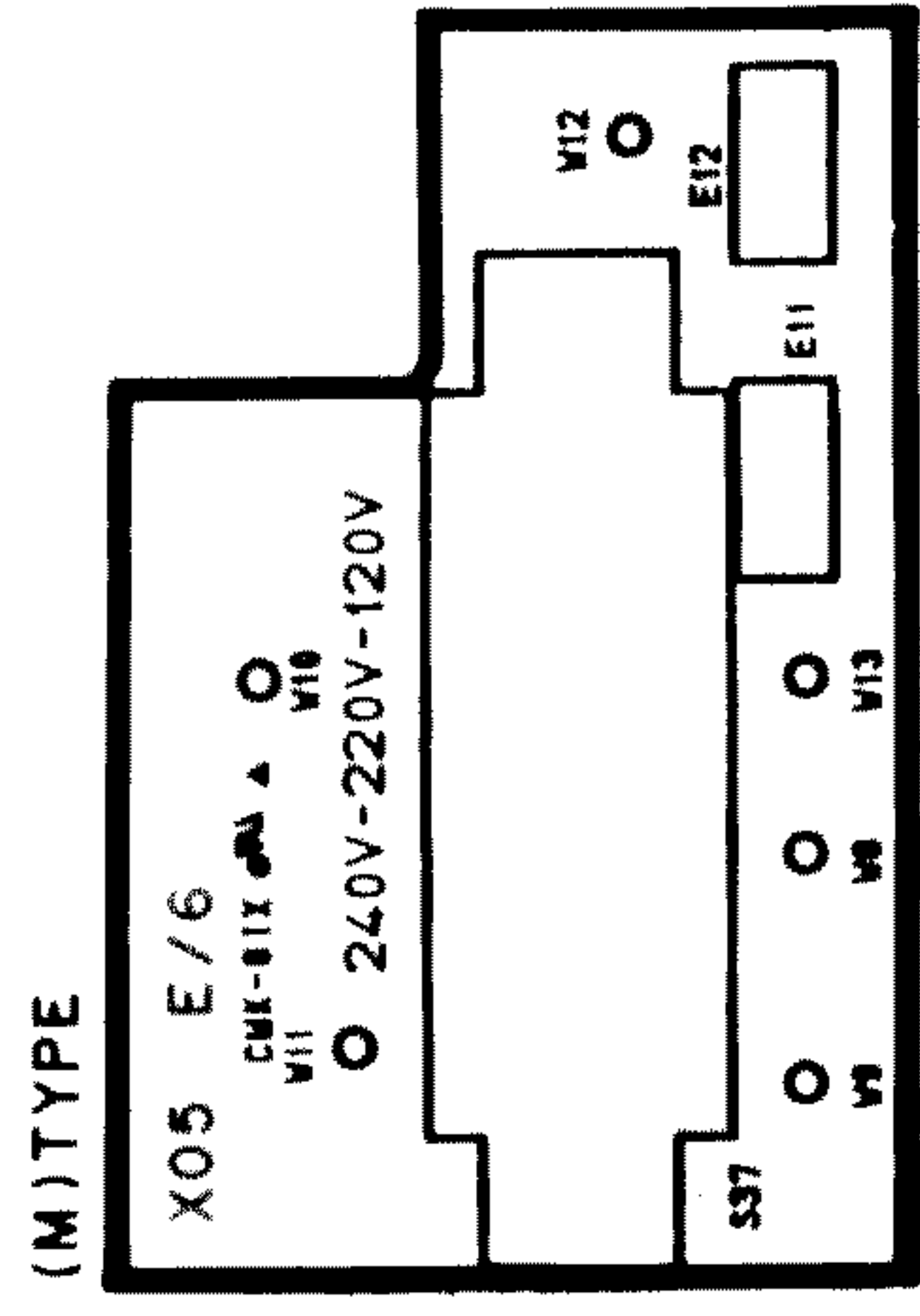
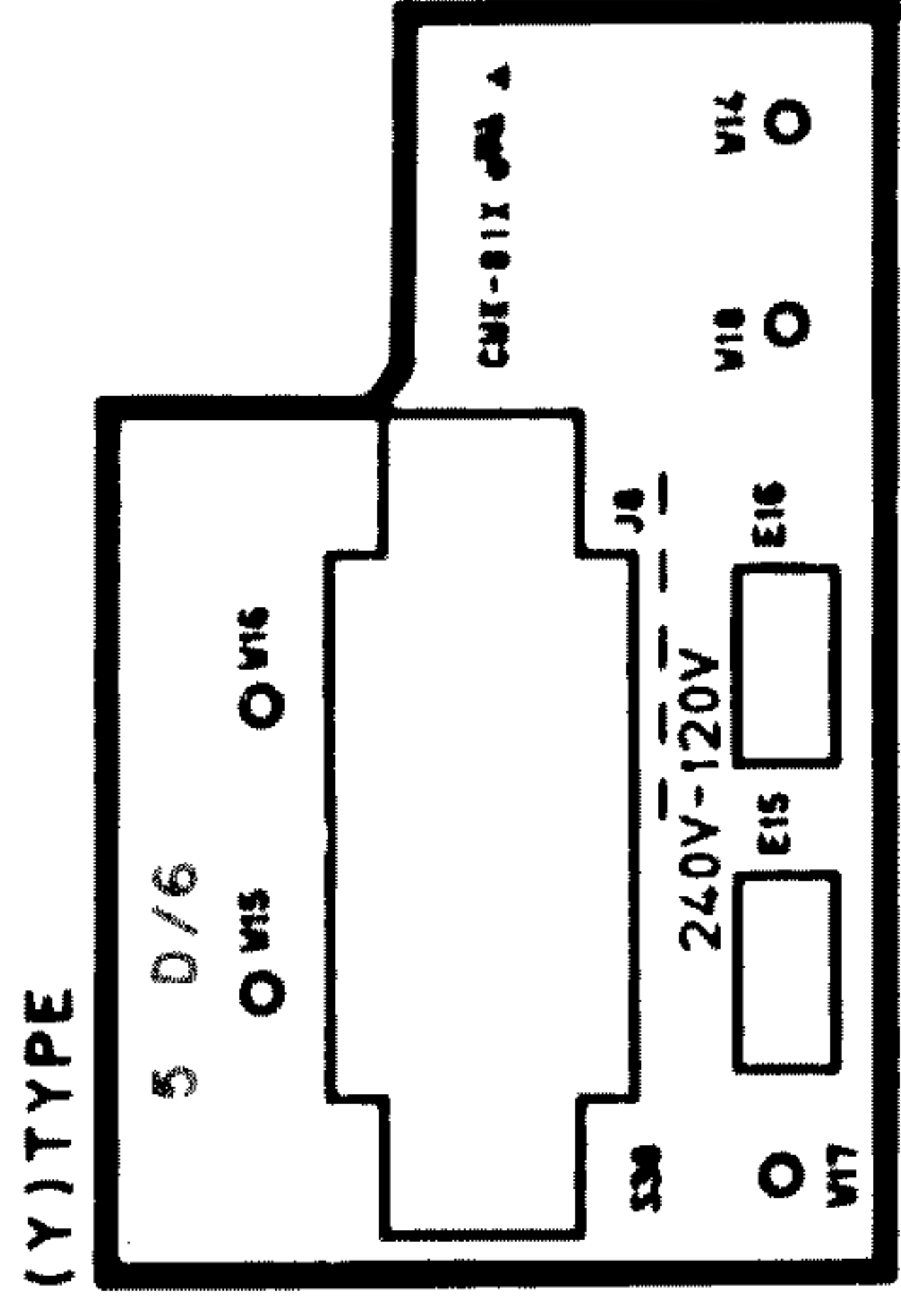
* New Parts
 Parts without Parts No. are not supplied.
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.
 Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 向	Re- marks 備考
Q56 Q56 Q57			2SC1740S(Q,R) 2SC945(A)(Q,P) 2SD1266(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR		

E: Scandinavia & Europe K: USA P: Canada W: Europe
 Y: PK(Far East, Hawaii) T: England M: Other Areas
 Y: AAFES(Europe) X: Australia

△ indicates safety critical components.

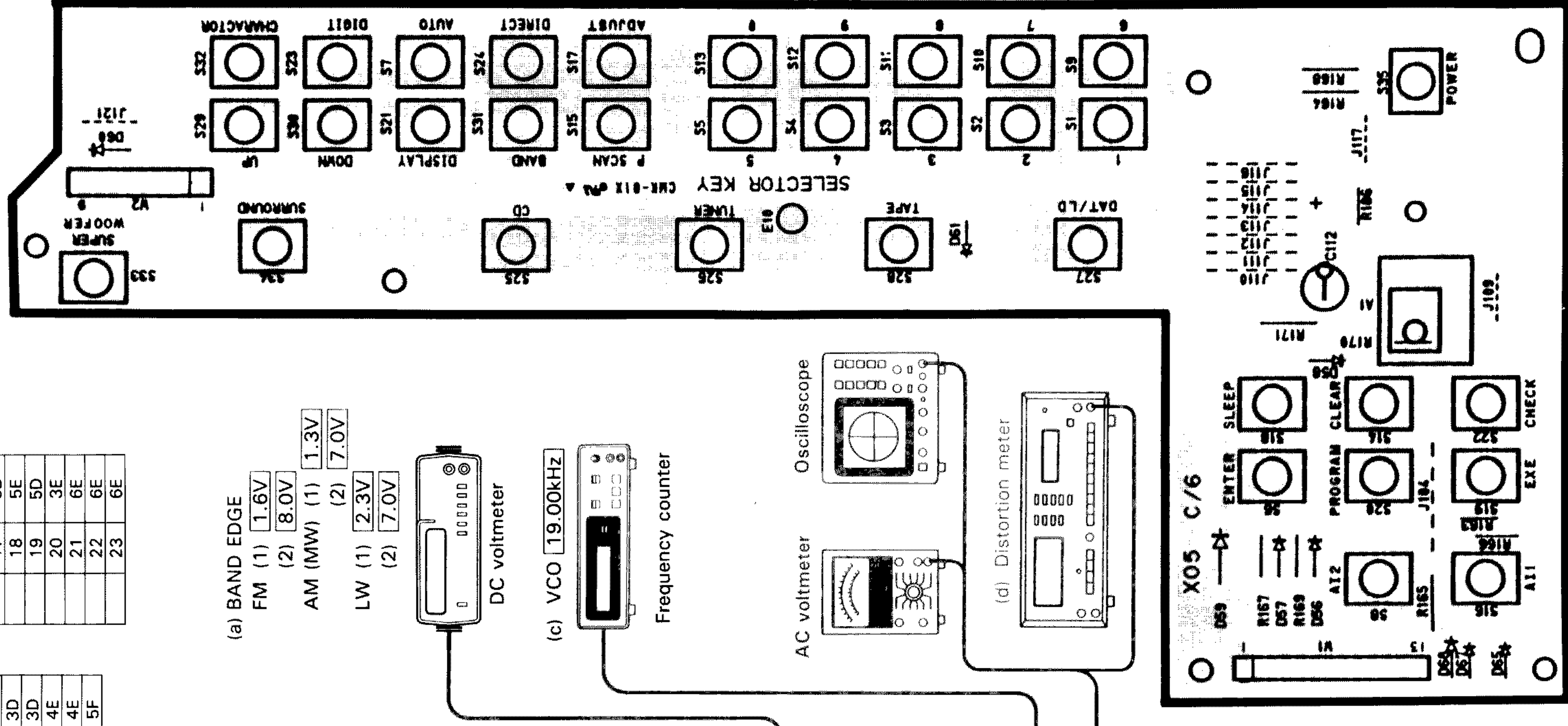
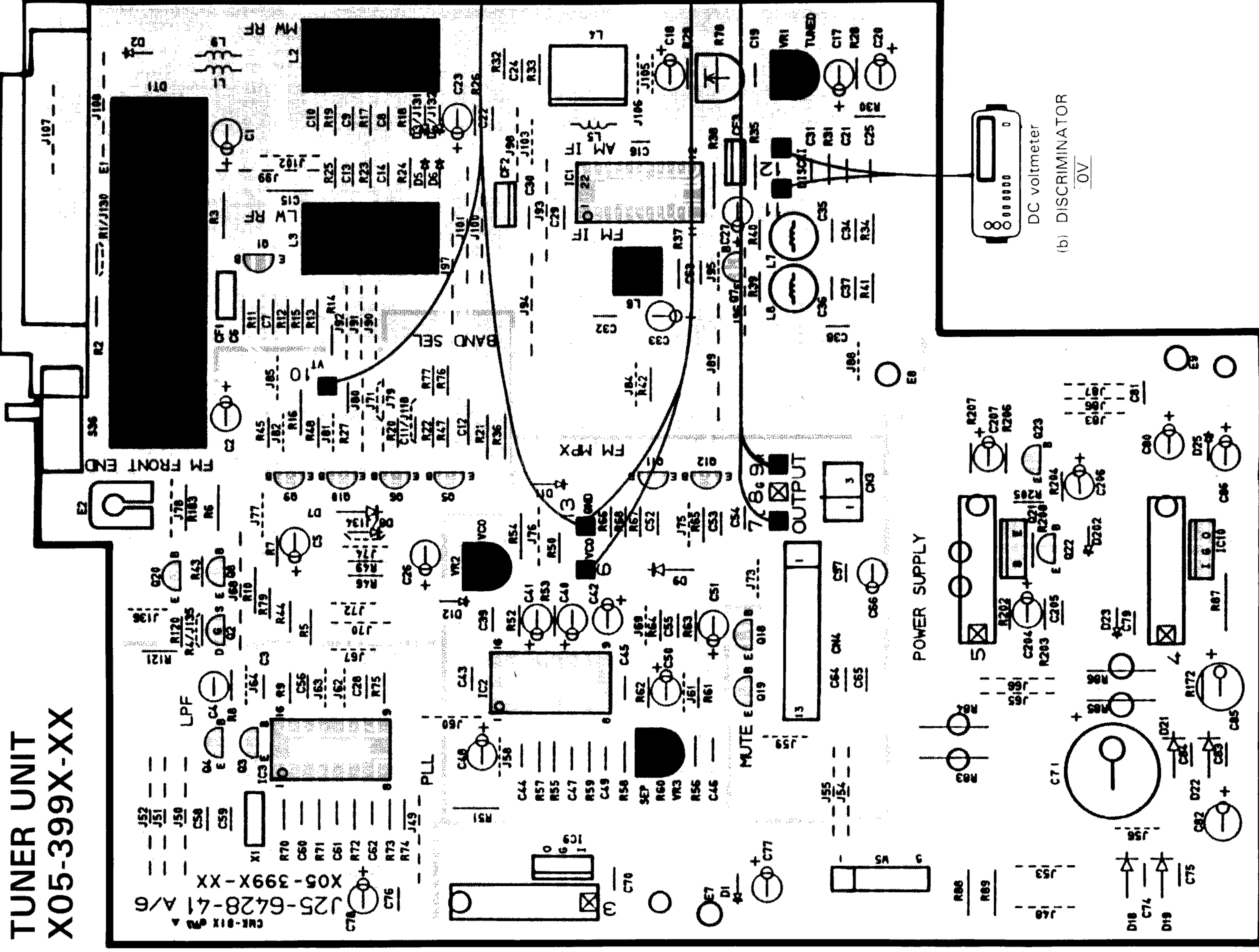
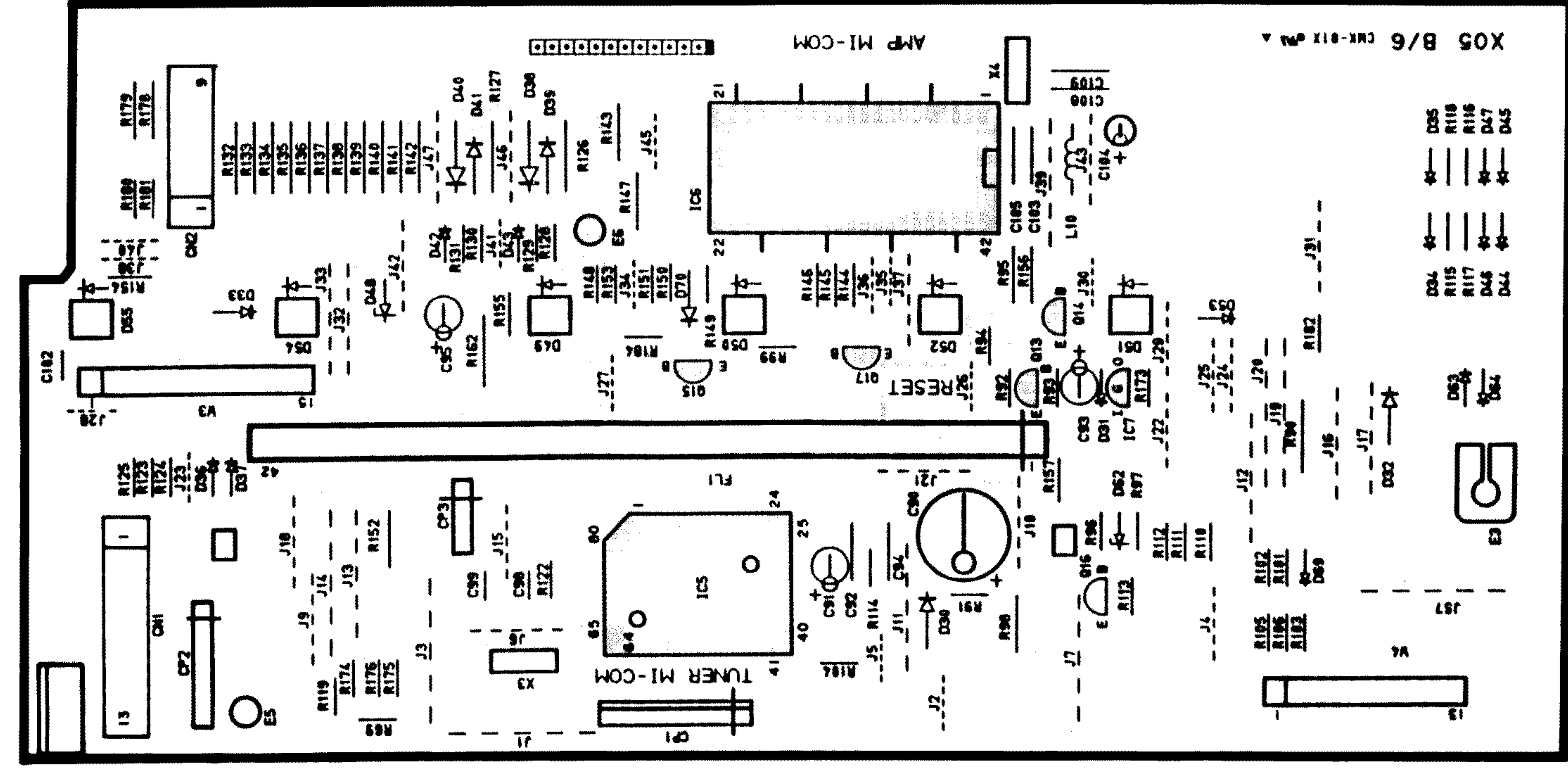
PC BOARD (Component side view)



TUNER UNIT (X05-399X-XX)

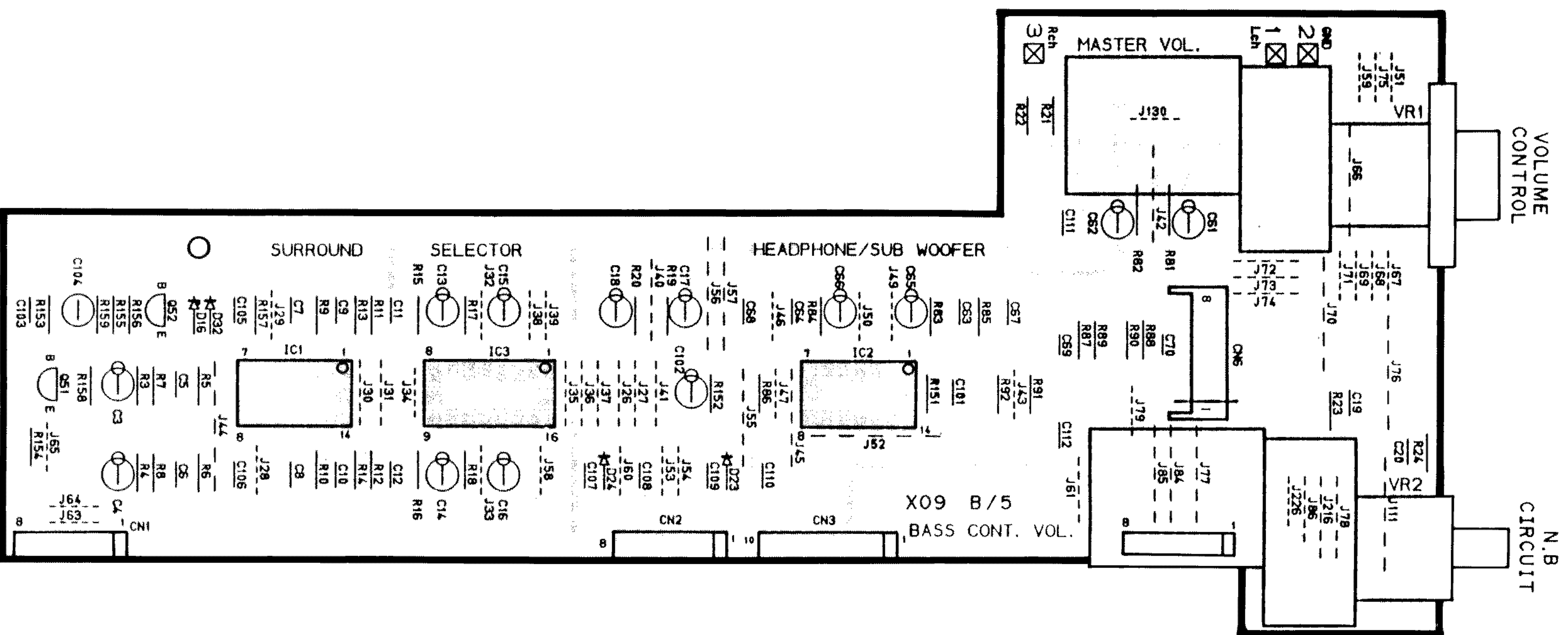
Ref. No.	Address
IC 1	5F
2	3E
3	4D
4	4E
5	5E
6	5C
7	6B
8	7E
9	3F
10	3E
11	5E
12	5C
13	6B
14	7E
15	5B
16	6B
17	5B
18	5E
19	5D
20	3E
21	6E
22	6E
23	6E

Ref. No.	Address
IC Q	
3	4D
4	4E
5	5E
6	5C
7	6B
8	7E
9	3F
10	3E
11	5E
12	5C
13	6B
14	7E
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18	5E
19	5D
20	3E
21	6E
22	6E
23	6E

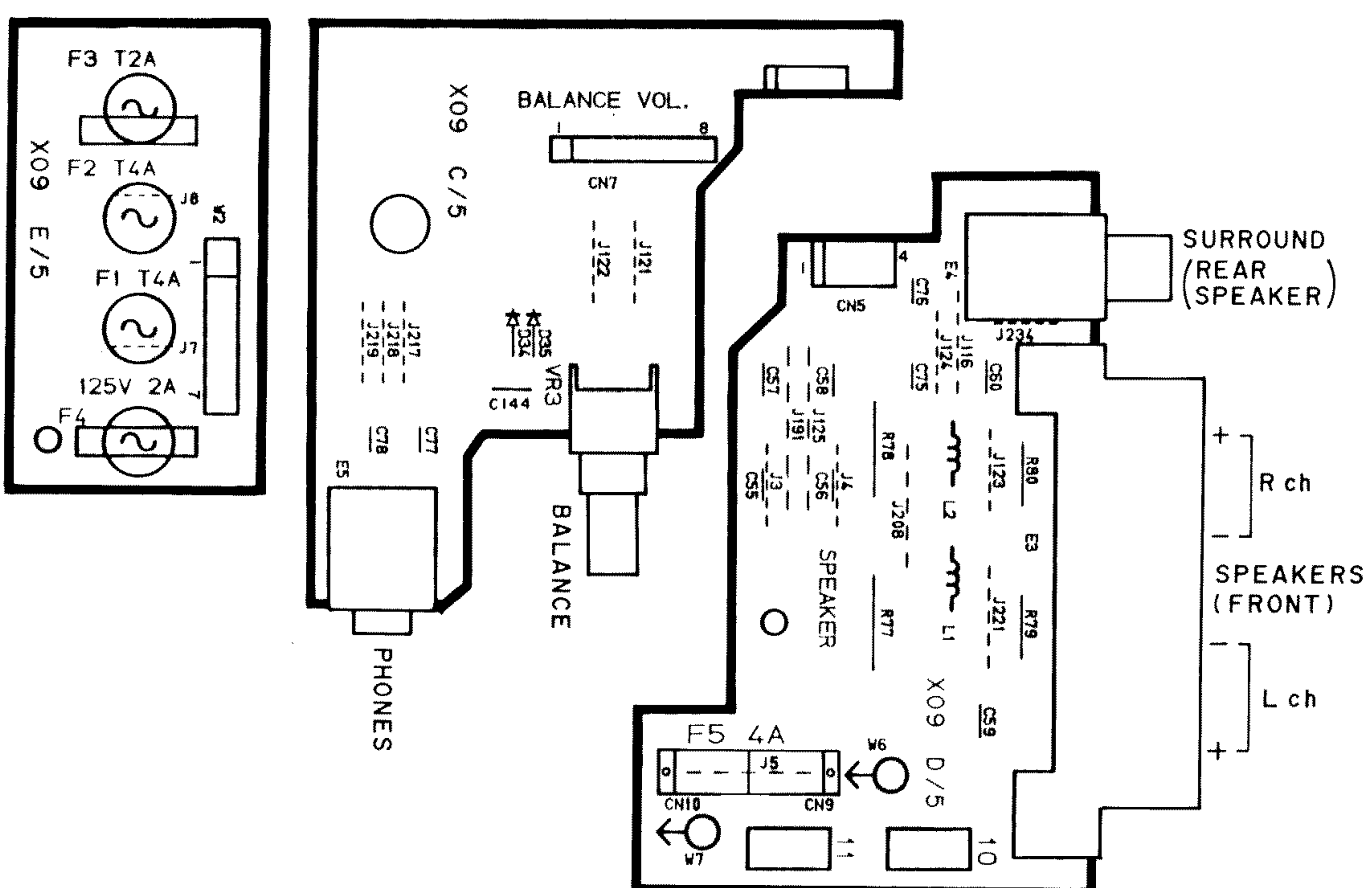
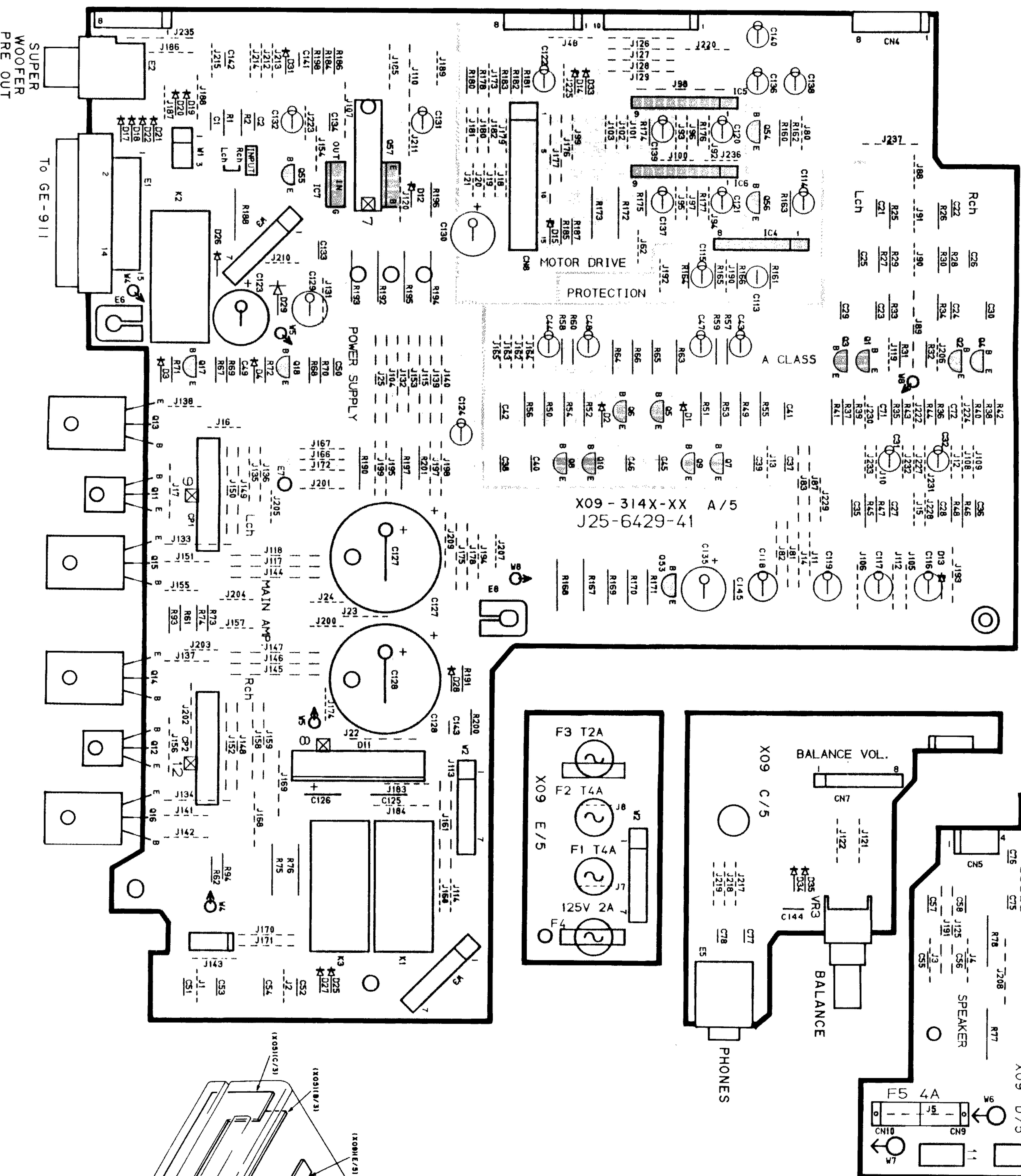


- (a) BAND EDGE
FM (1) 1.6V (2) 8.0V
AM (MW) (1) 1.3V (2) 7.0V
LW (1) 2.3V (2) 7.0V
- DC voltmeter
- (c) VCO 19.00KHZ
Frequency counter
- AC voltmeter
- Oscilloscope
- (d) Distortion meter

(b) DC voltmeter DISCRIMINATOR 0V

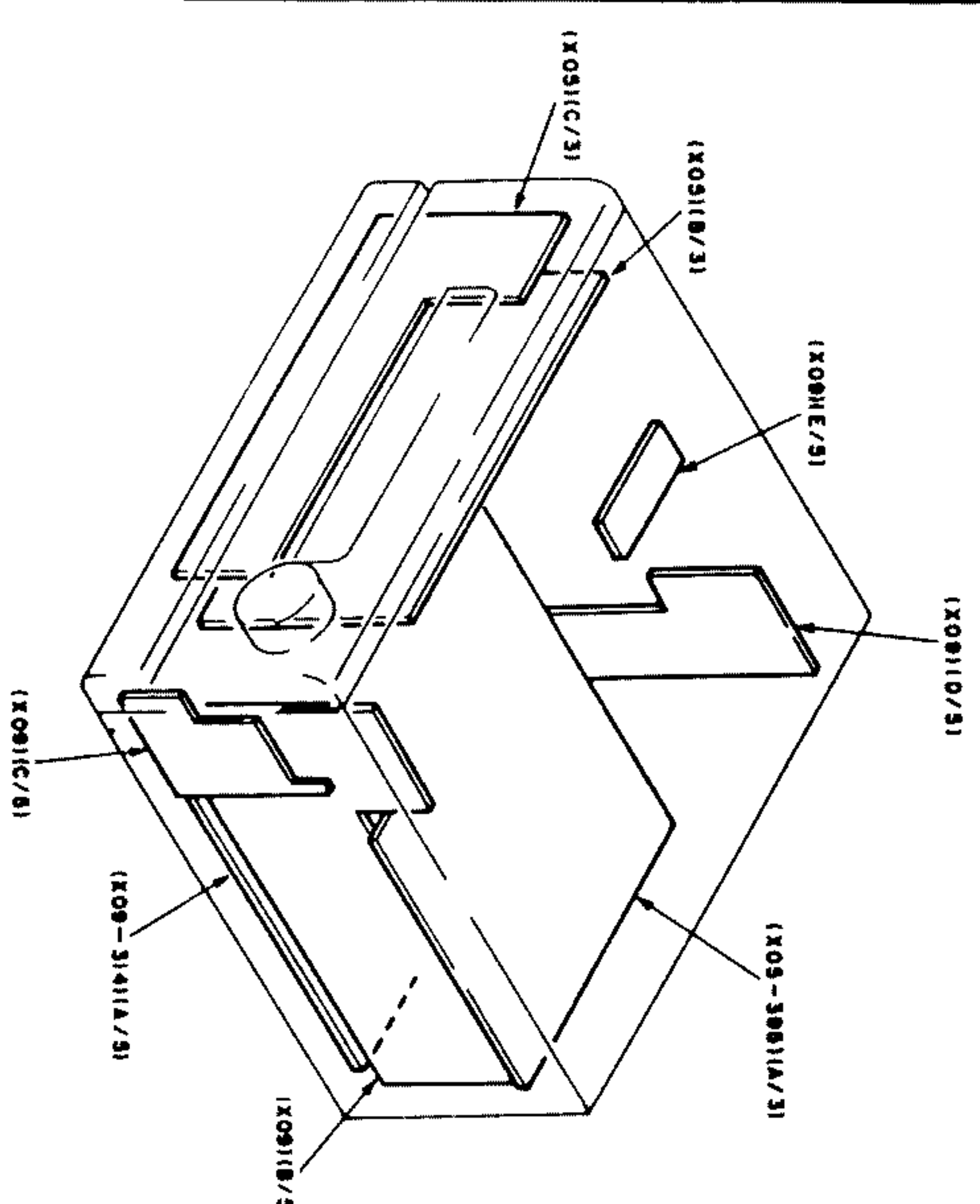


AUDIO UNIT
X09-314X-XX

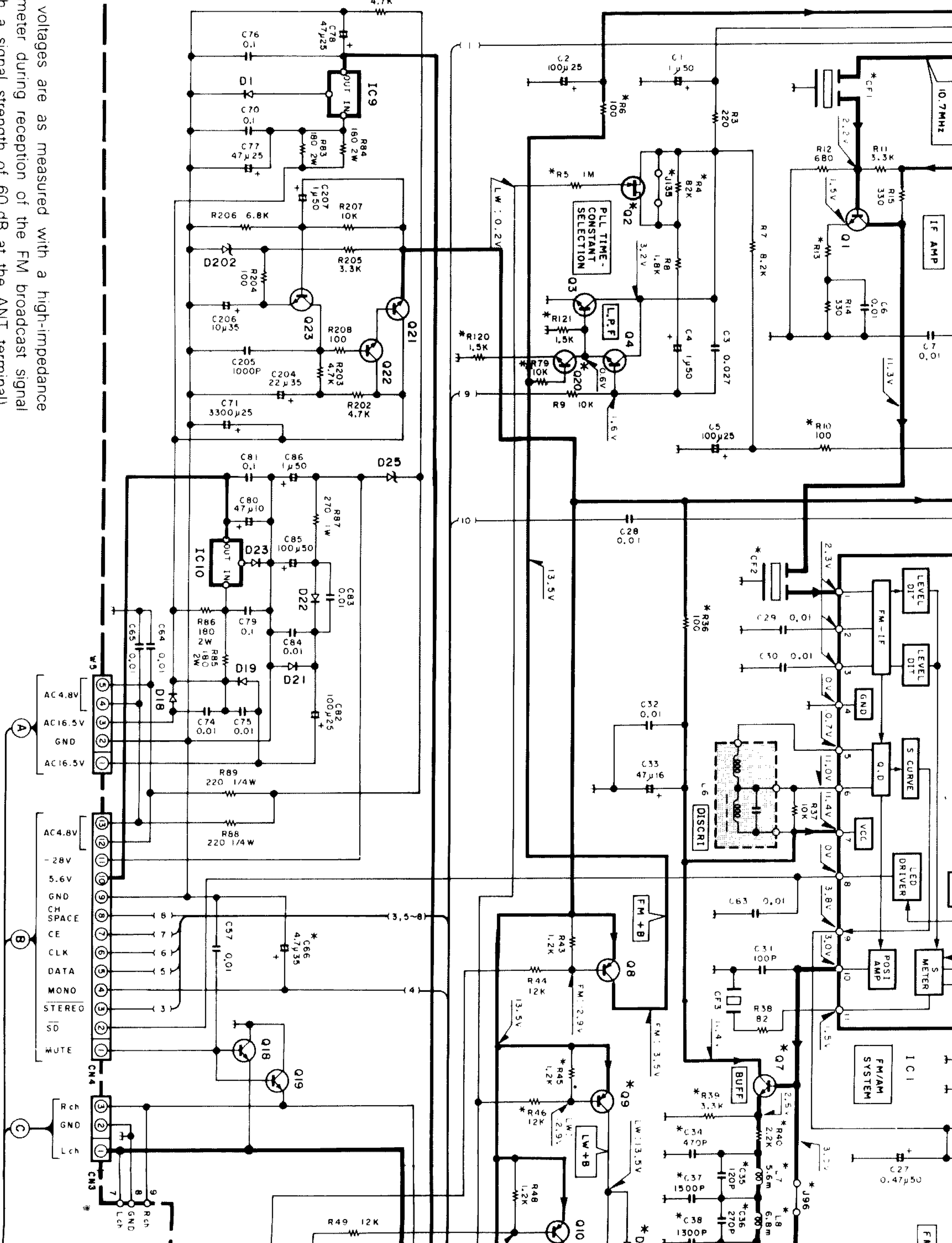
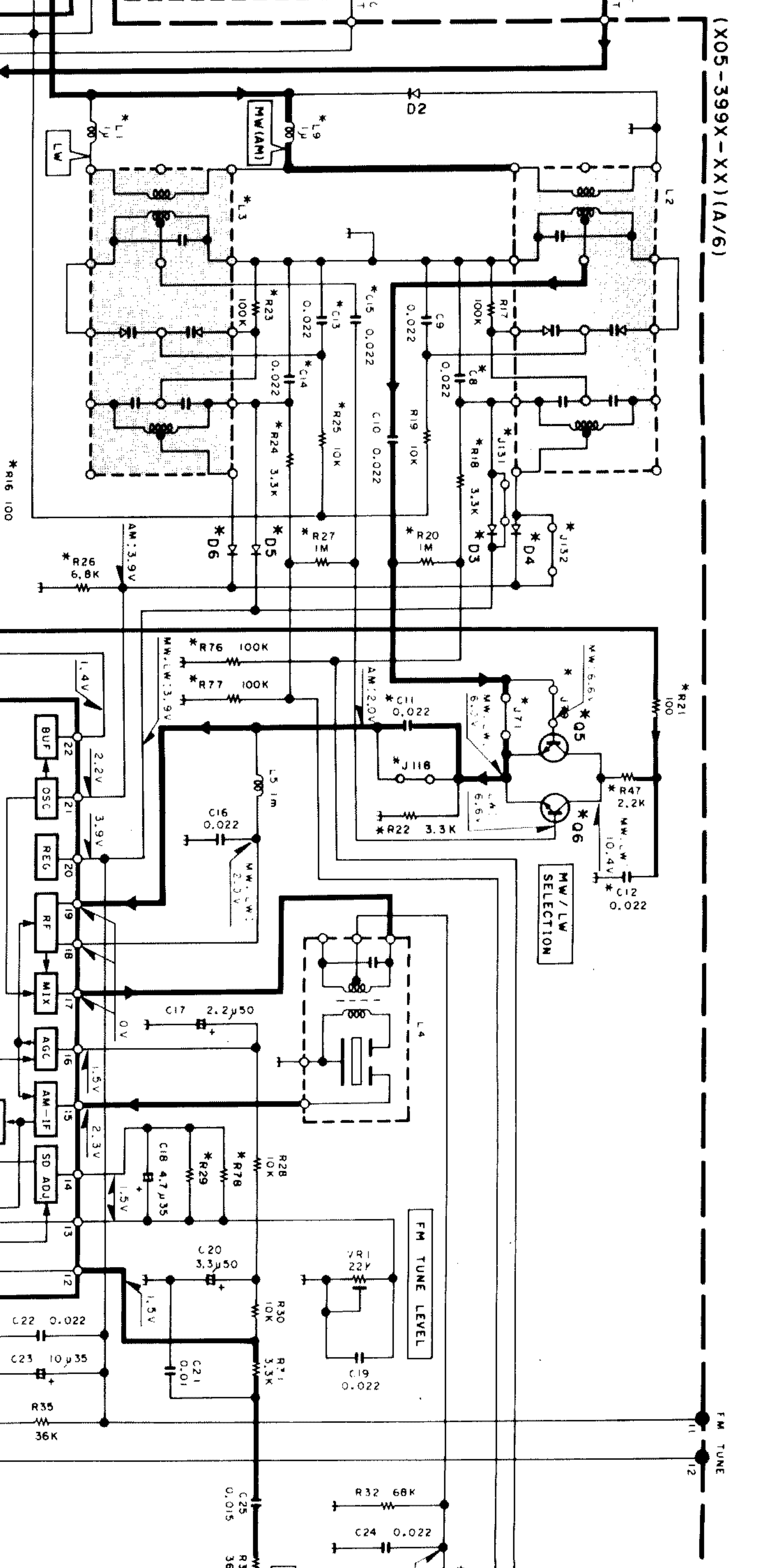
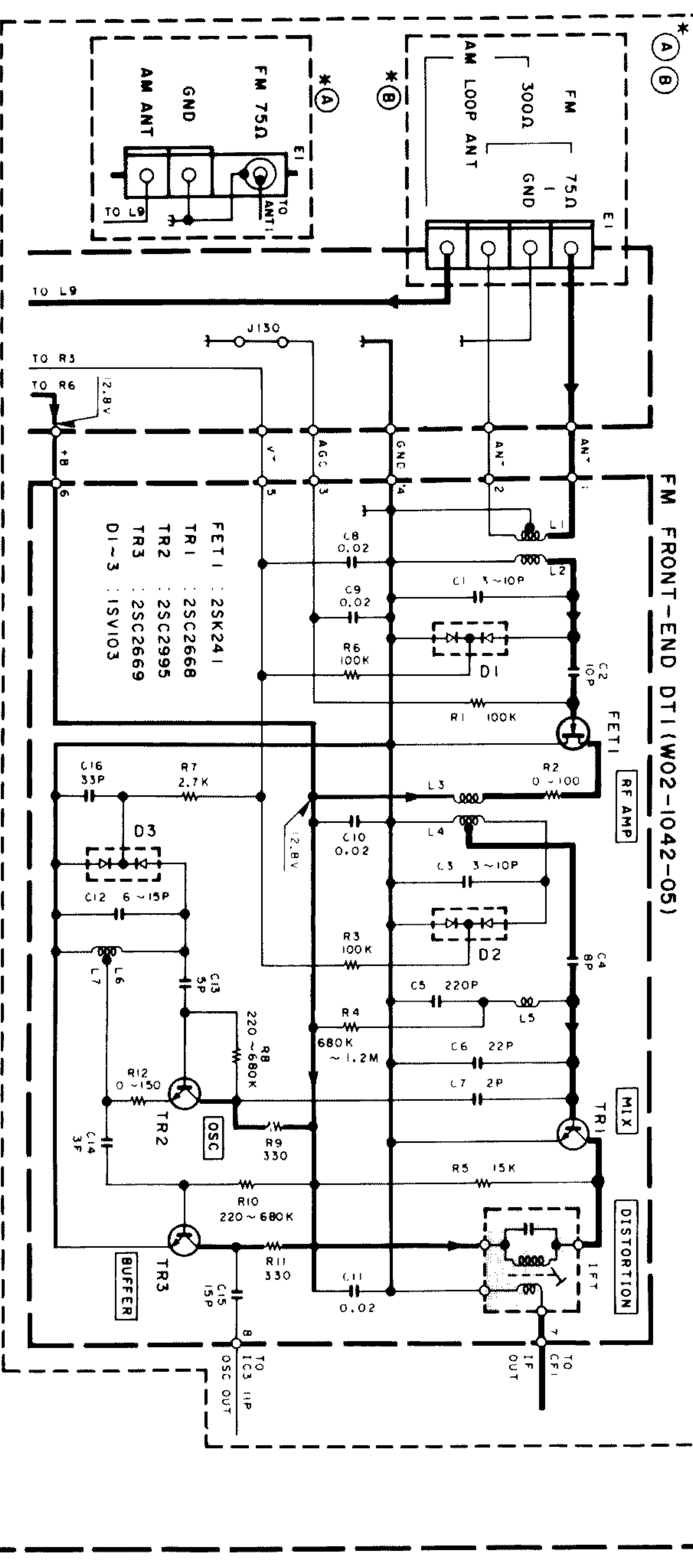
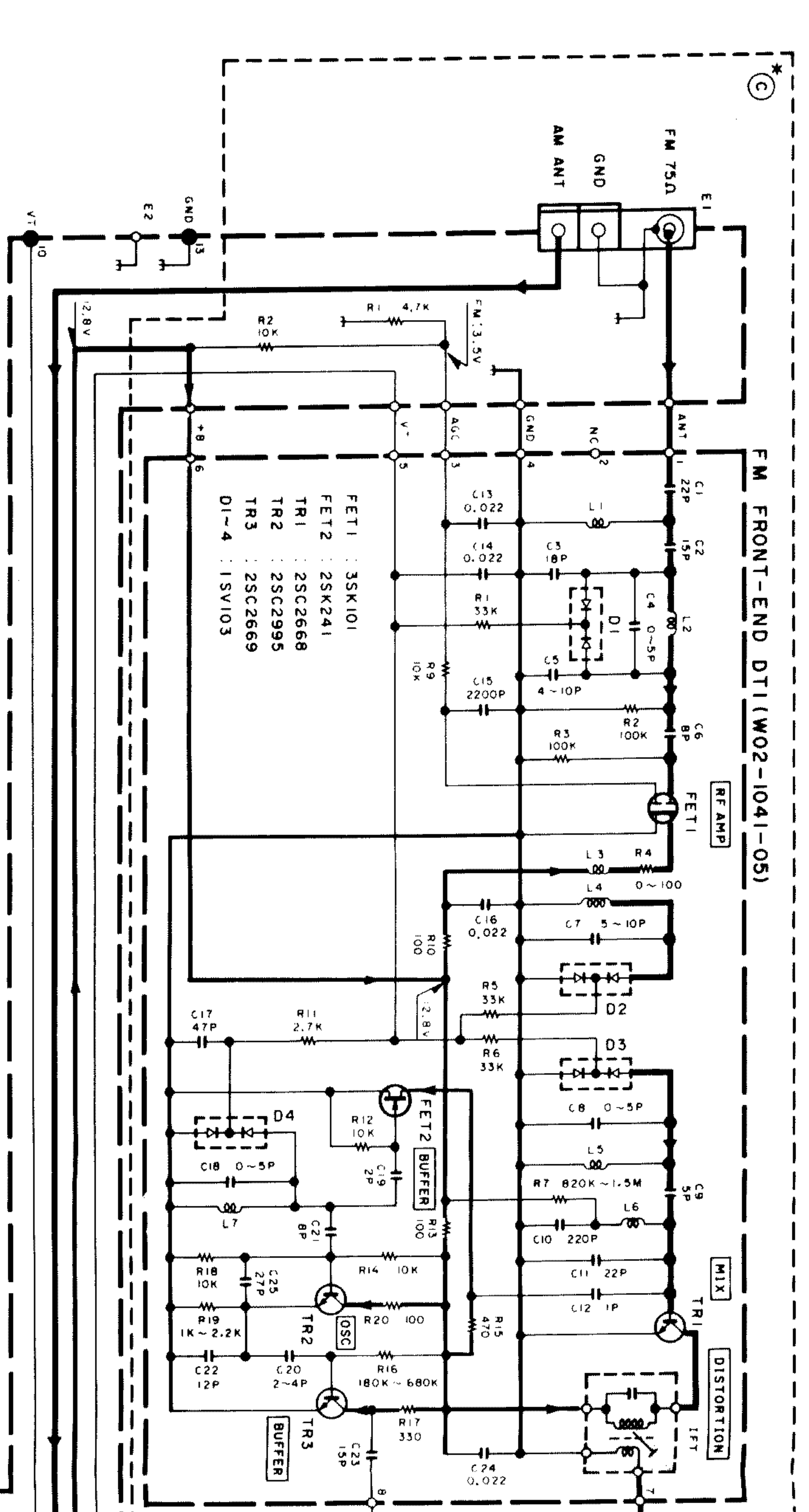


AUDIO UNIT
(X09-314X-XX)

Ref. No.	Address
1	5K
2	4K
3	5K
4	3M
5	4M
6	3M
7	5M
8	3M
9	4N
10	4N
11	6N
12	6P
13	6N
14	6N
15	6P
16	6P
17	6N
18	5N
51	6K
52	6K
53	4O
54	3M
55	5M
56	3M
57	5M



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



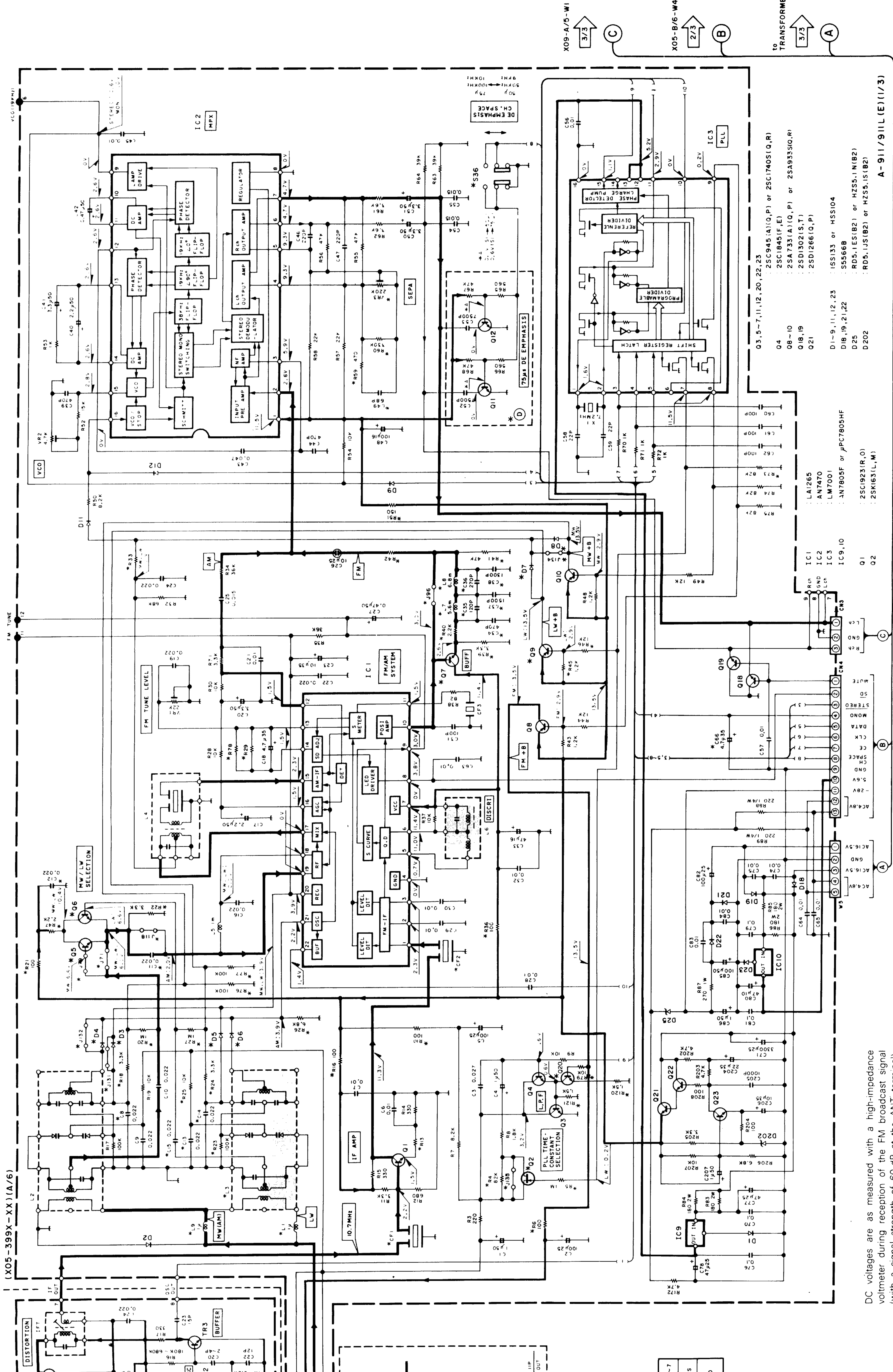
DESTINATION	UNIT NAME	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)
ENGLAND	T	X05-3992-71	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
AUSTRALIA	X	X05-3990-71	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
GENERAL MARKET	M	X05-3990-21	NO	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PK	T	X05-3992-51	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

DB	CF1,2	WR3	S36	96/108	J71	J79	R29	R76	R6,10,16,36	R51	MODEL NAME
YES	L72-0536-05	YES	NO	NO	YES	2.2K	11K	00/1/4W	50/1/4W	A-911L	
J134	L72-0531-05	NO	YES	NO	NO	2.4K	91K	100/1/6W	150/1/6W	A-911	

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

DC voltages are as 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. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

SIGNAL LINE
GND LINE
+B LINE
-B LINE



(X05-399X-XX) (A/6)

VCC(19PMH)

FM TUNE

MW/LW SELECTION

PLL TIME SELECTION

AM/FM

TO TRANSFORMER

X09-A/5-W1

X05-B/6-W4

3/3

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3/3

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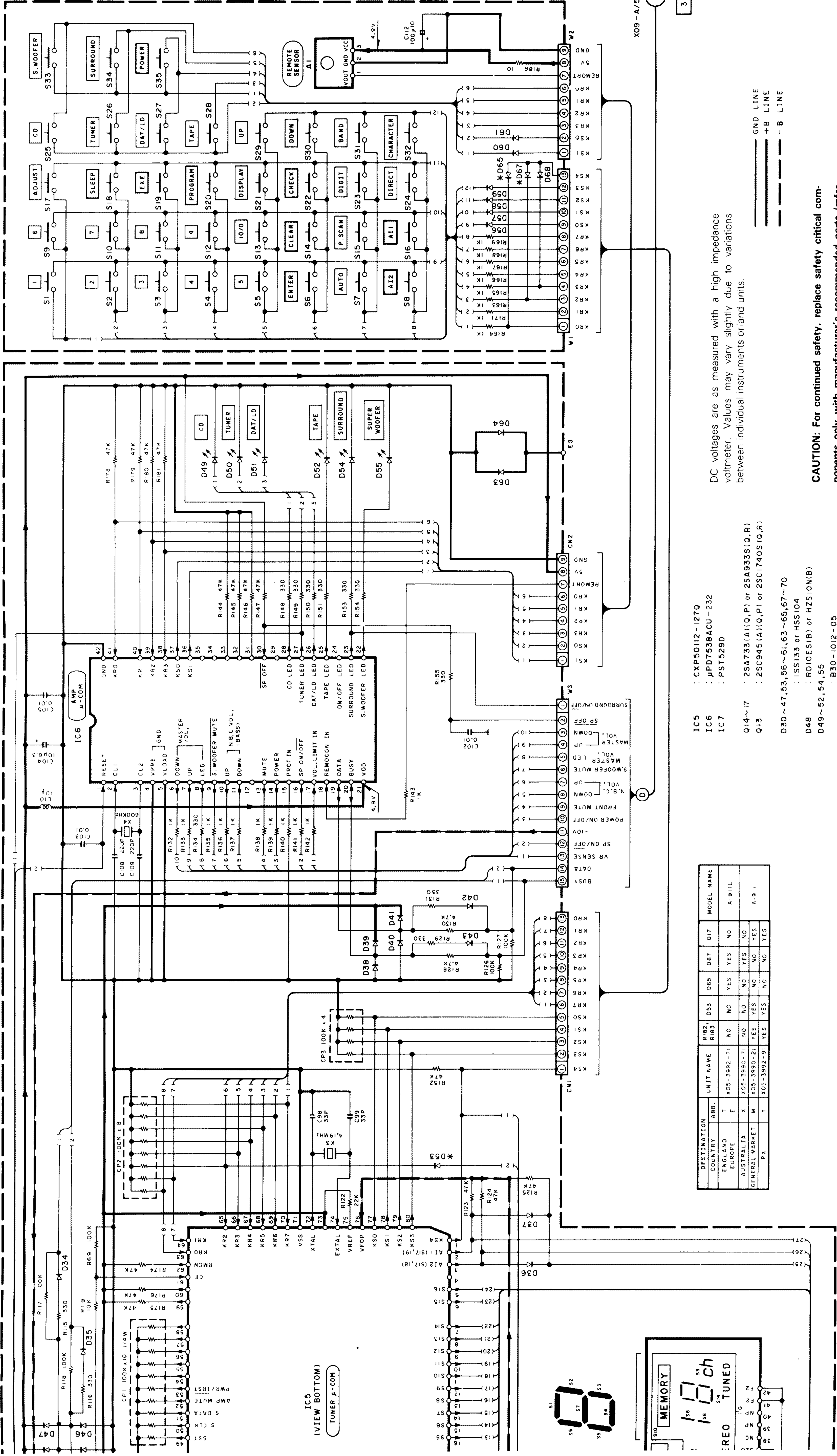
3/3

3/3

- IC1 : LA1265
- IC2 : AN7470
- IC3 : LM7001
- IC9,10 : AN7805F or μ PC7805SHF
- Q1 : 25C1923(R,0)
- Q2 : 25K163(L,M)
- Q3,5-7,11,12,20,22,23 : 25C945(A)(Q,P) or 25C1740S(Q,R)
- Q4 : 25C1845(F,E)
- Q8-10 : 25A733(A)(Q,P) or 25A935(S,Q,R)
- Q18,19 : 25D1302(S,T)
- Q21 : 25D1266(Q,P)
- D1-9,11,12,23 : 1SS133 or HSS104
- D18,19,21,22 : S5566B
- D25 : R05-1ES(B2) or HZ55-1(NIB2)
- D26 : R05-1US(B2) or HZ55-1S(B2)
- D202 : 0202

DC voltages are as 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. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

(X05-399X-XX)(C/6)



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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

- IC5 : CXP50112-1270
- IC6 : μ PD7588ACU-232
- IC7 : PST529D
- Q14~17 : 2SA733(A)(Q,P) or 2SA933S(Q,R)
- Q13 : 2SC945(A)(Q,P) or 2SC1740S(Q,R)
- D30 ~ 47, 53, 56 ~ 61, 63 ~ 65, 67 ~ 70 : ISS133 or HSS104
- D48 : RD10ES1(B) or HZS10N(B)
- D49 ~ 52, 54, 55 : B30-1012-05
- D62 : RD3.3ES(B2) or HZS3.3N(B2)
- A1 : W02-1049-05 or W02-1048-05
- F1 : B-BT-986K

DESTINATION	COUNTRY	UNIT NAME	RIB2	RIB3	D53	D65	D67	Q17	MODEL NAME
ENGLAND	E	X05-3992-71	NO	NO	YES	YES	NO	NO	A-911L
AUSTRALIA	X	X05-3990-71	NO	NO	NO	NO	YES	NO	A-911
GENERAL MARKET	M	X05-3990-21	YES	YES	NO	NO	NO	NO	A-911
PX	Y	X05-3992-91	YES	YES	NO	NO	NO	YES	A-911

LM7001

AN7470

TC9215P

TA8409S

UPC1237HA

AN7805F

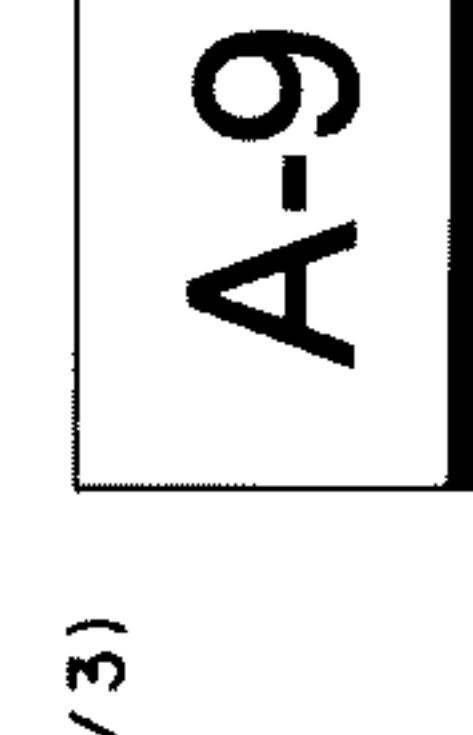
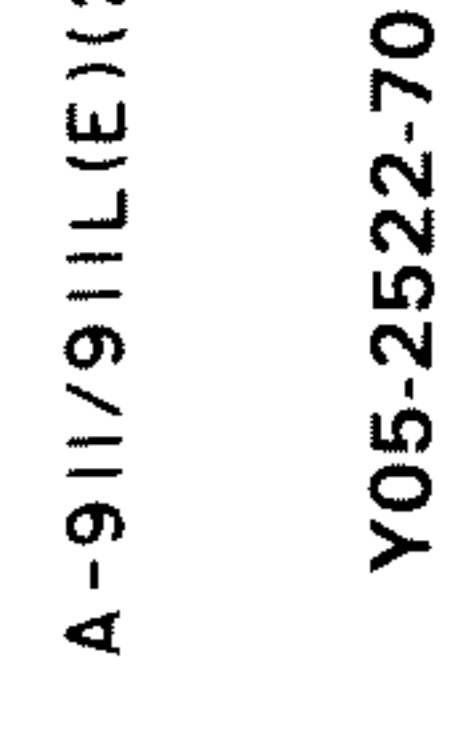
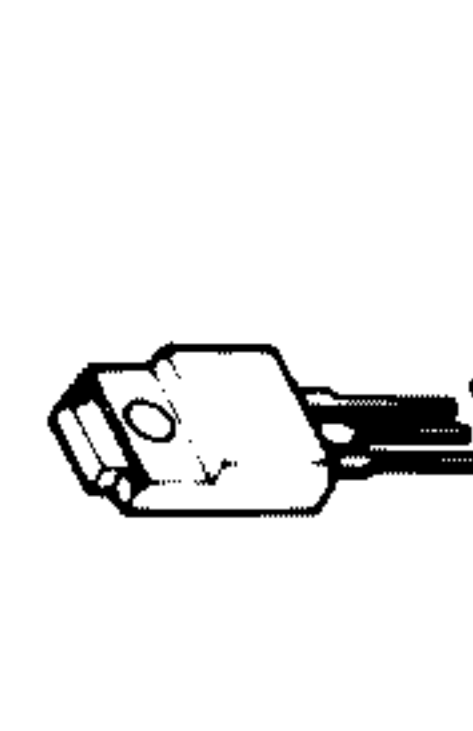
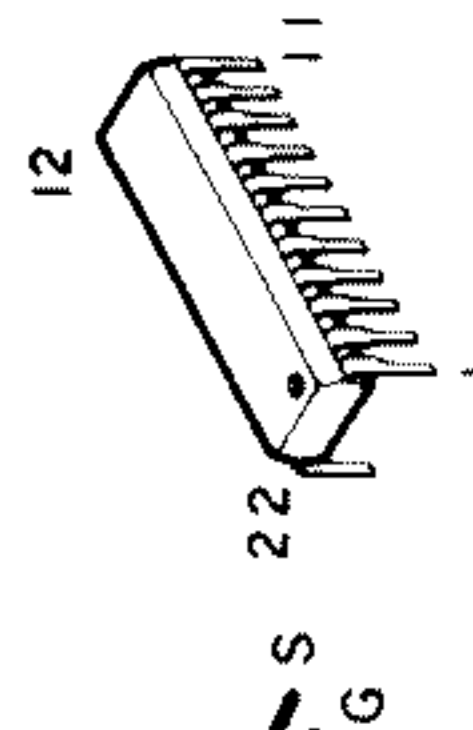
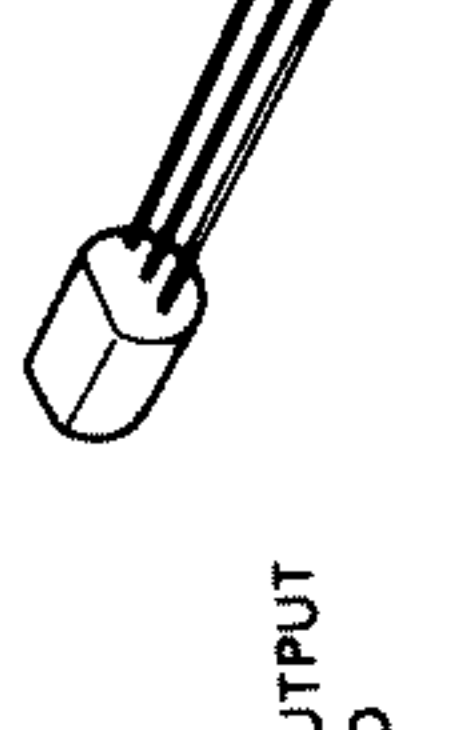
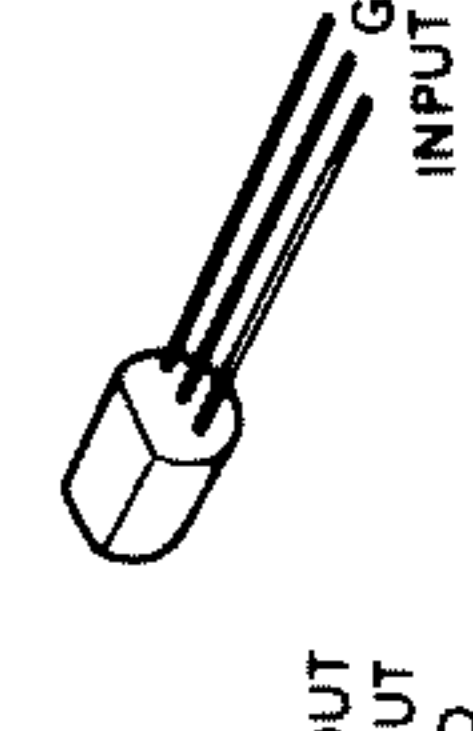
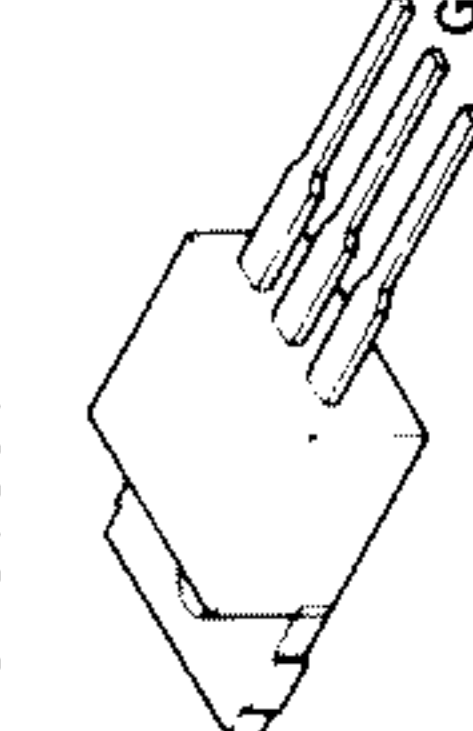
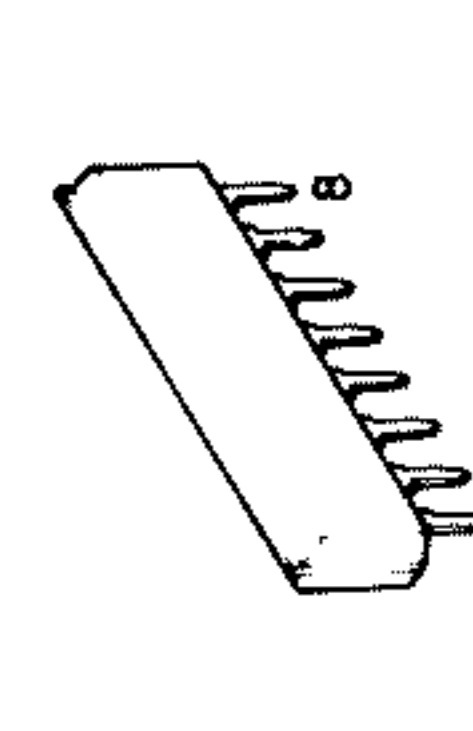
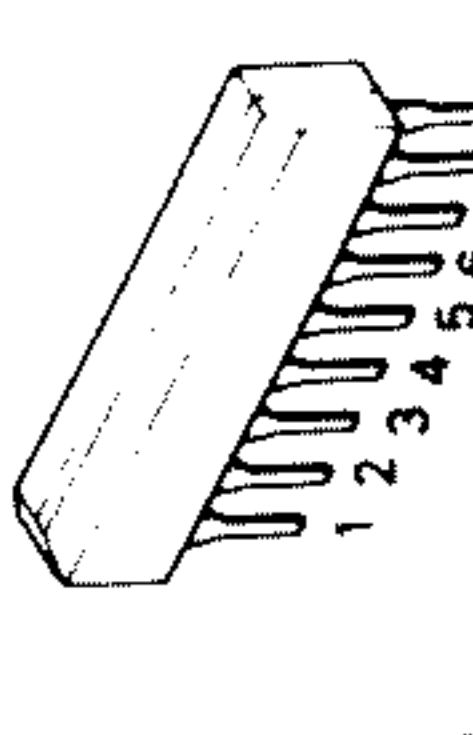
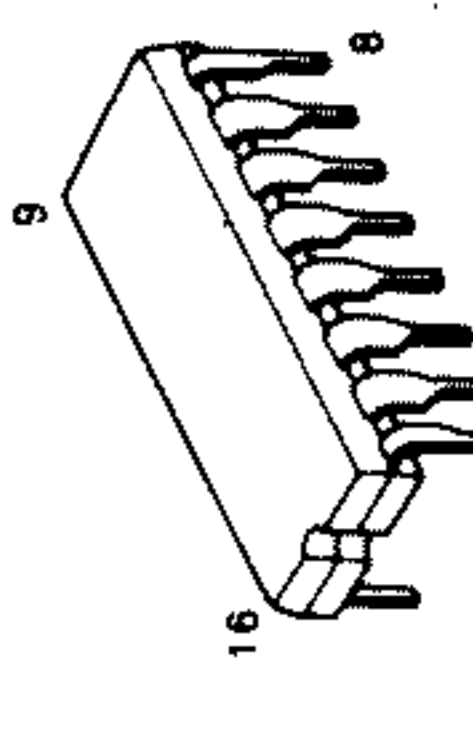
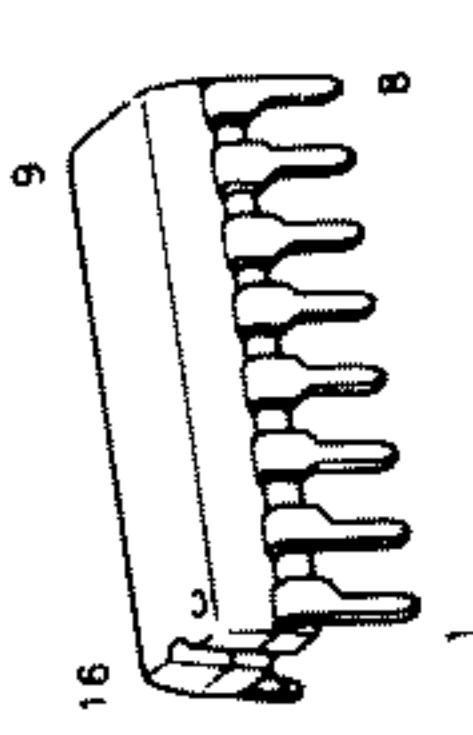
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PST529D

25K163

LA1265

UPC7915HF

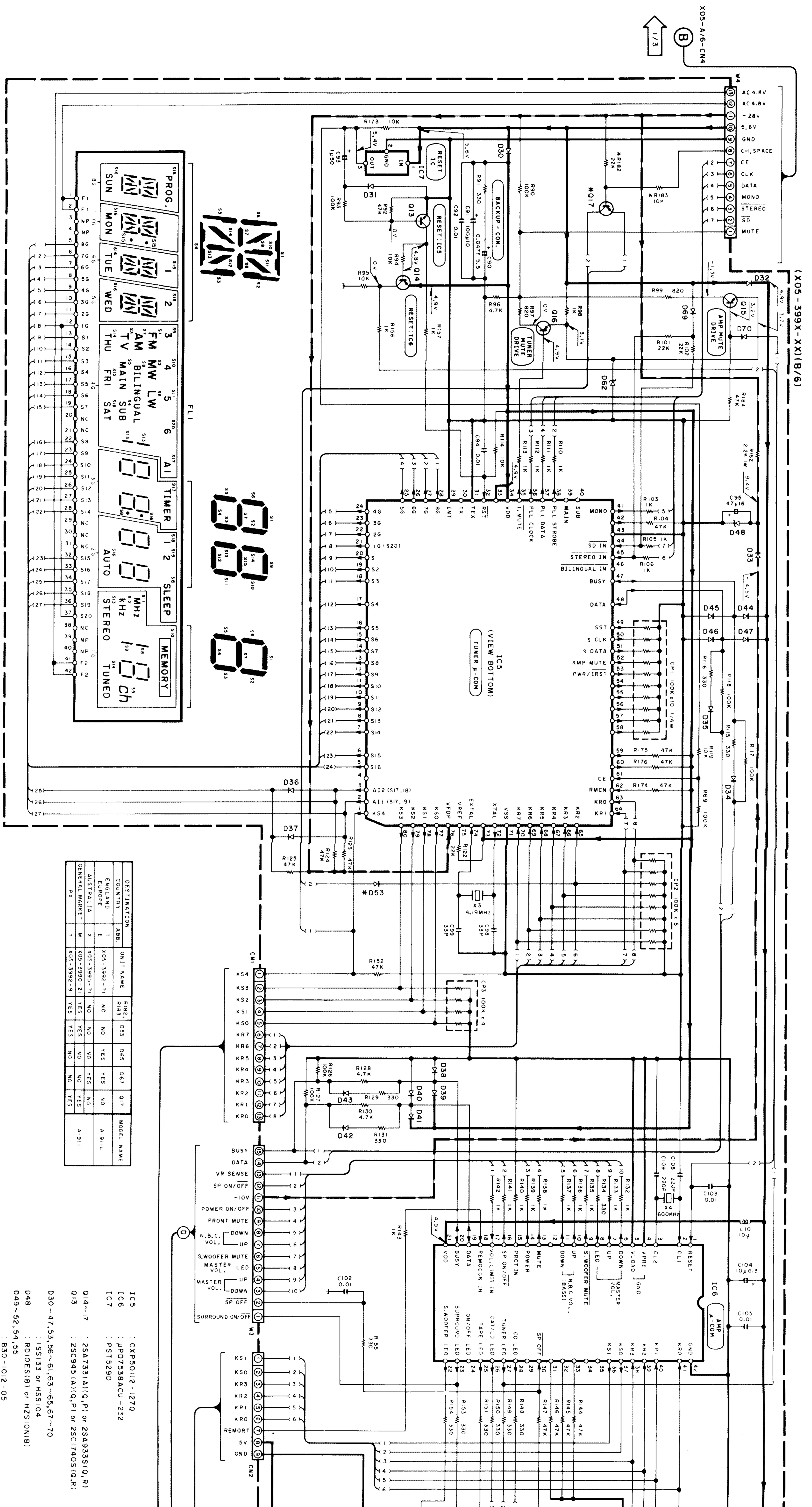


A-911/911L(E)(2/3)

Y05-2522-70

A-911/911L

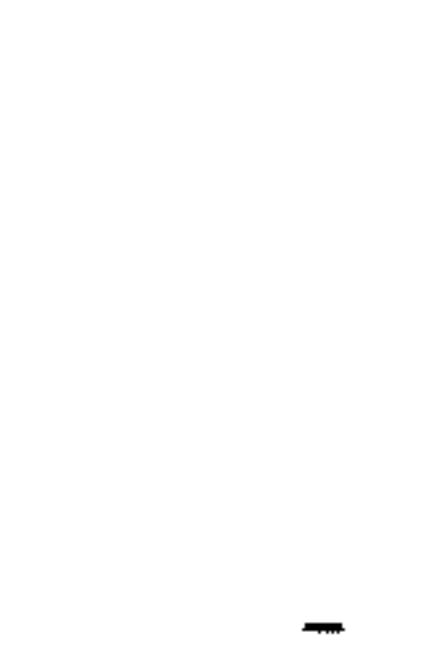
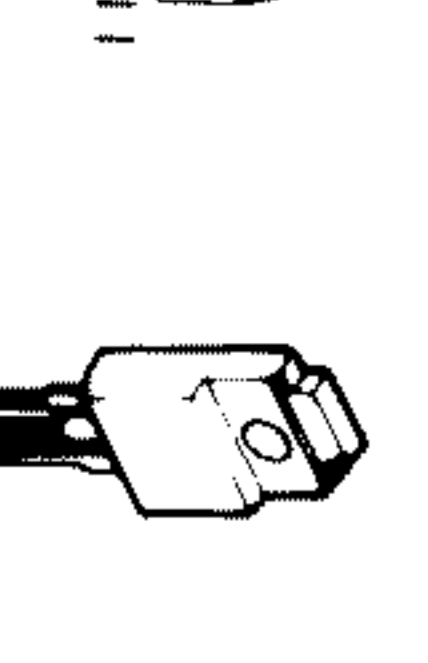
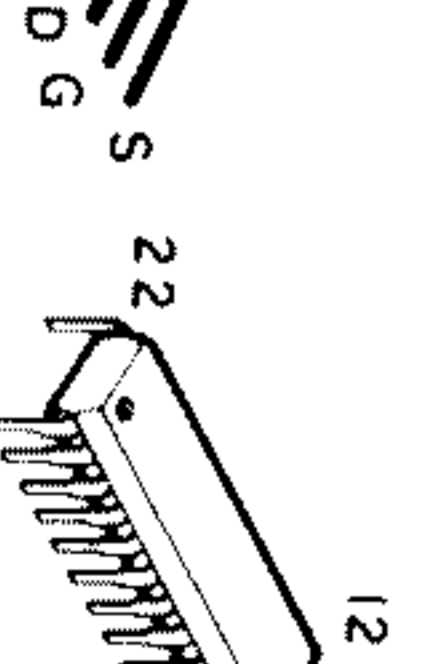
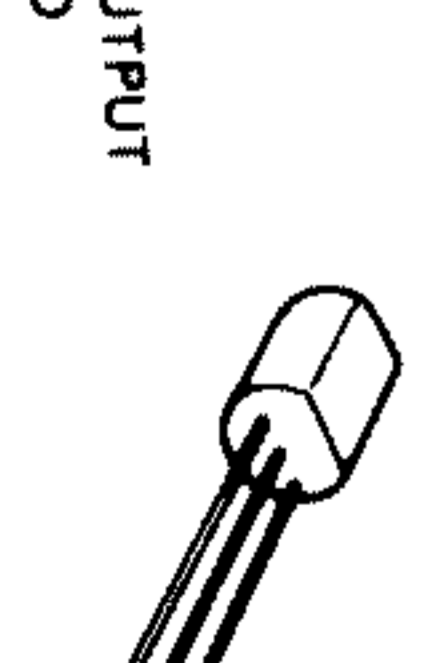
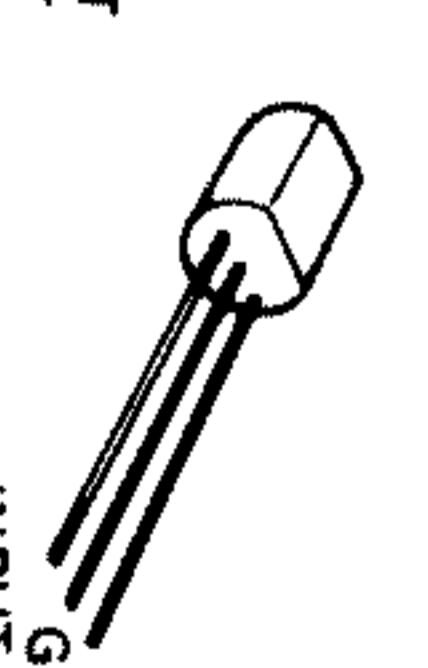
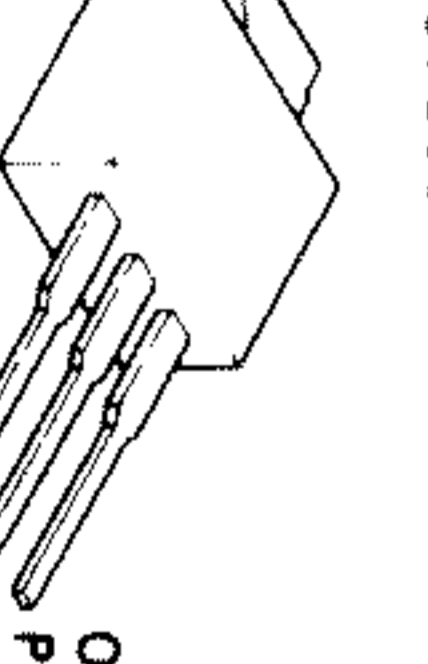
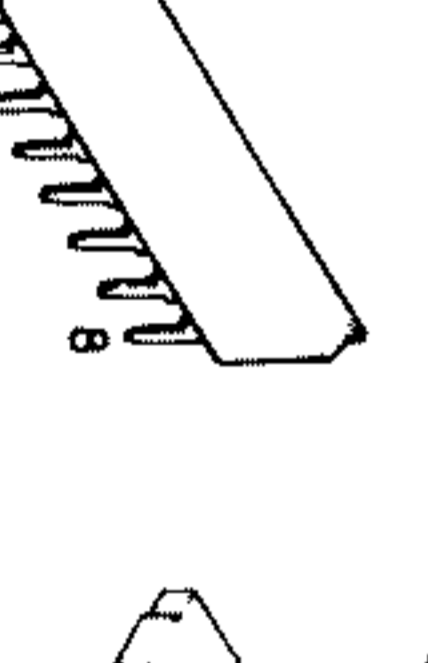
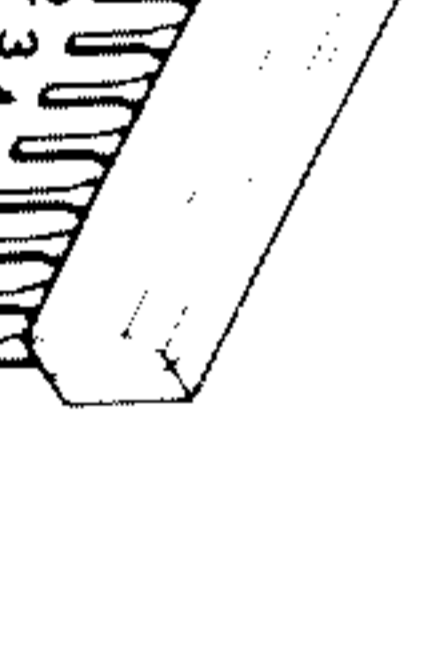
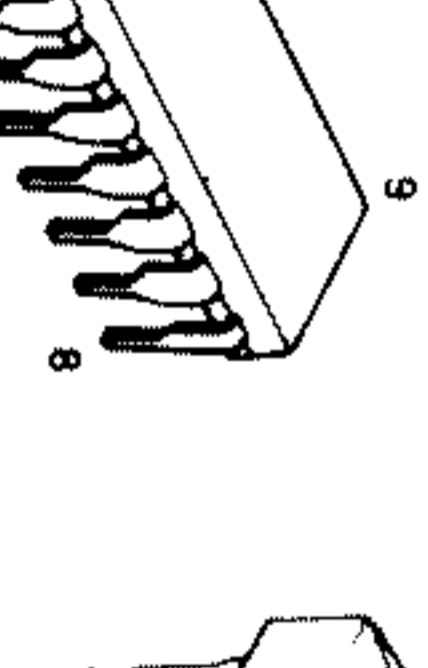
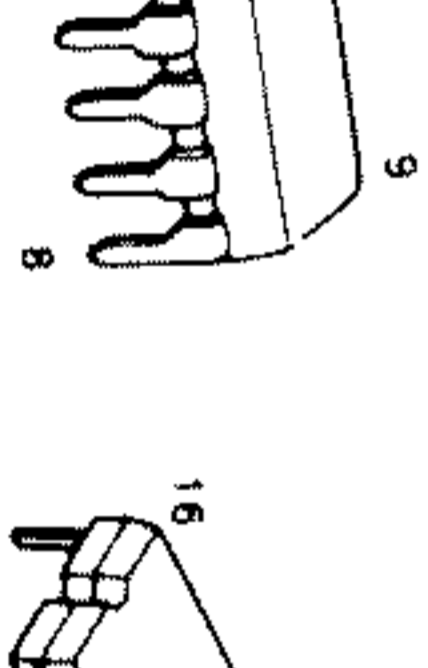
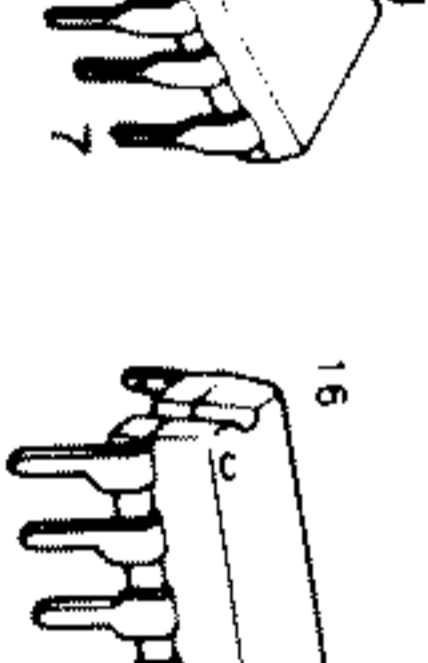
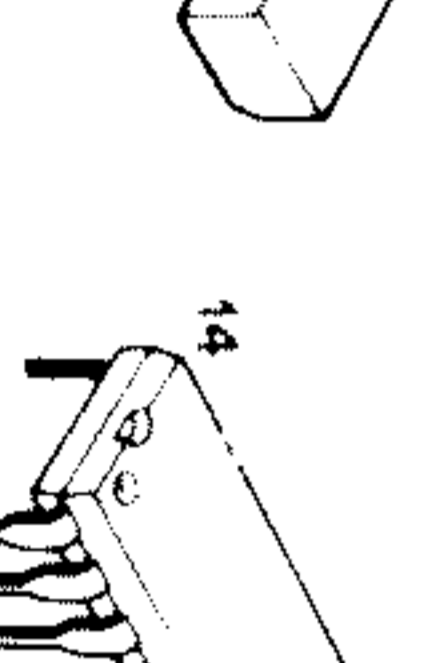
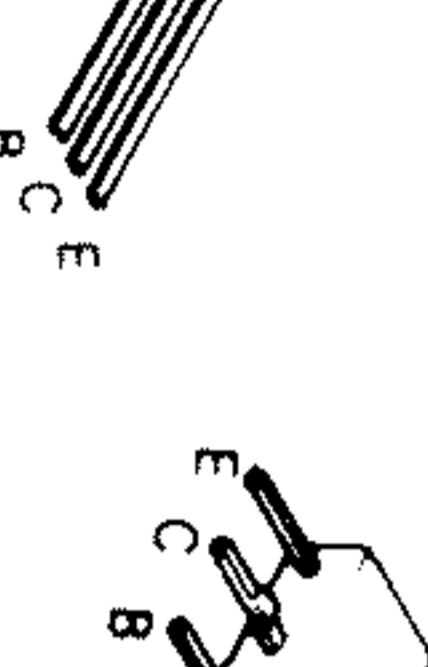
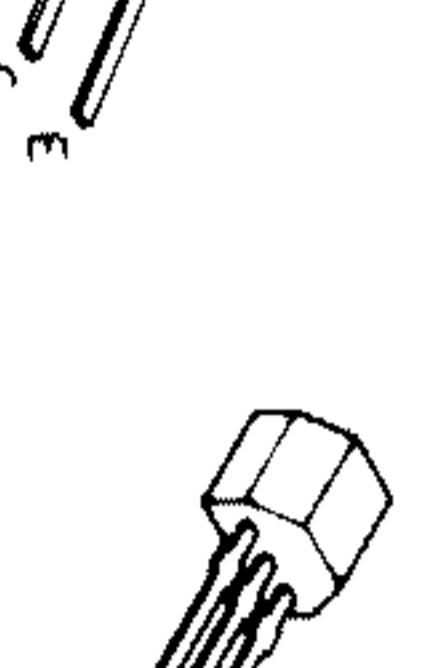
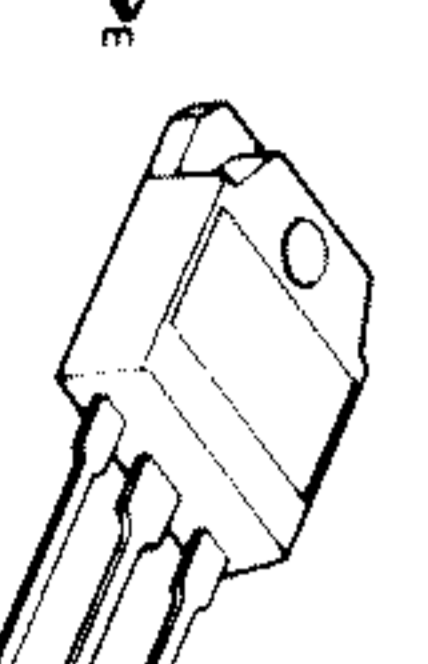
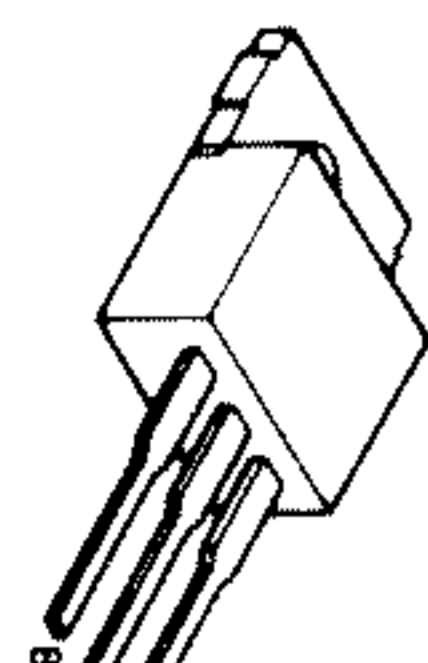
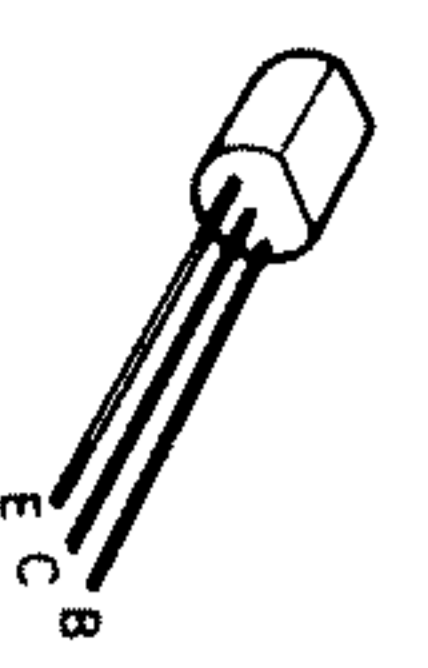
KENWOOD



DESTINATION	UNIT NAME	R182	D53	D65	D67	O17	MODEL NAME
ENGLAND	T	XOS-3992-71	NO	NO	YES	NO	A-911L
AUSTRALIA	X	XOS-3990-71	NO	NO	NO	NO	
GENERAL MARKET	Y	XOS-3992-91	YES	YES	NO	NO	A-911

- D30~47, 53, 56~61, 63~65, 67~70
- D48 : ISS133 or HSS104
- D49~52, 54, 55 : RD3, 3ES (B2) or HZS3, 3N (B2)
- D62 : B30-1012-05
- A1 : W02-1049-05 or W02-1048-05
- FL1 : B-BT-986K

- ZSA7331(A)
- ZSA7992
- ZSC1845
- ZSC1823
- ZSC2631
- ZSC2945(B)
- ZSC2945(A)
- ZSD1302
- ZSD1266
- ZSB1493BT*5
- ZSD2258BT*5
- ZSA933S
- ZSC1740S
- ZSC3666
- NUM2058D
- LM7001
- AN7470
- TC9215P
- TAB409S
- UPC1237HA
- AN7805F
- UPC7805HF
- PST529D
- ZSK163
- LA1265
- UPC7915HF



X09 - 314X - XX1(B/S)

TEST PIN

X09 - 314X - XX1(C/S)

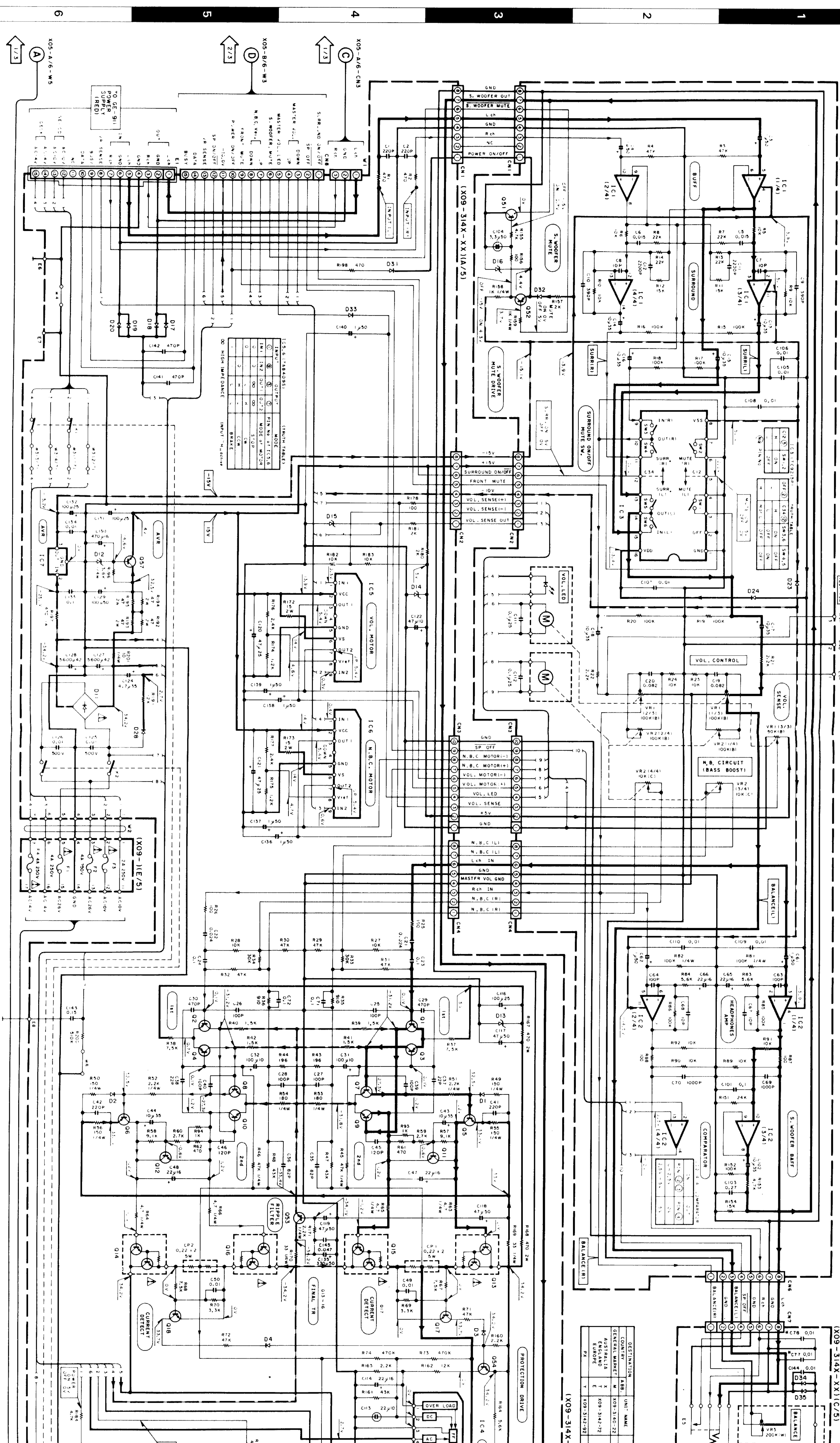
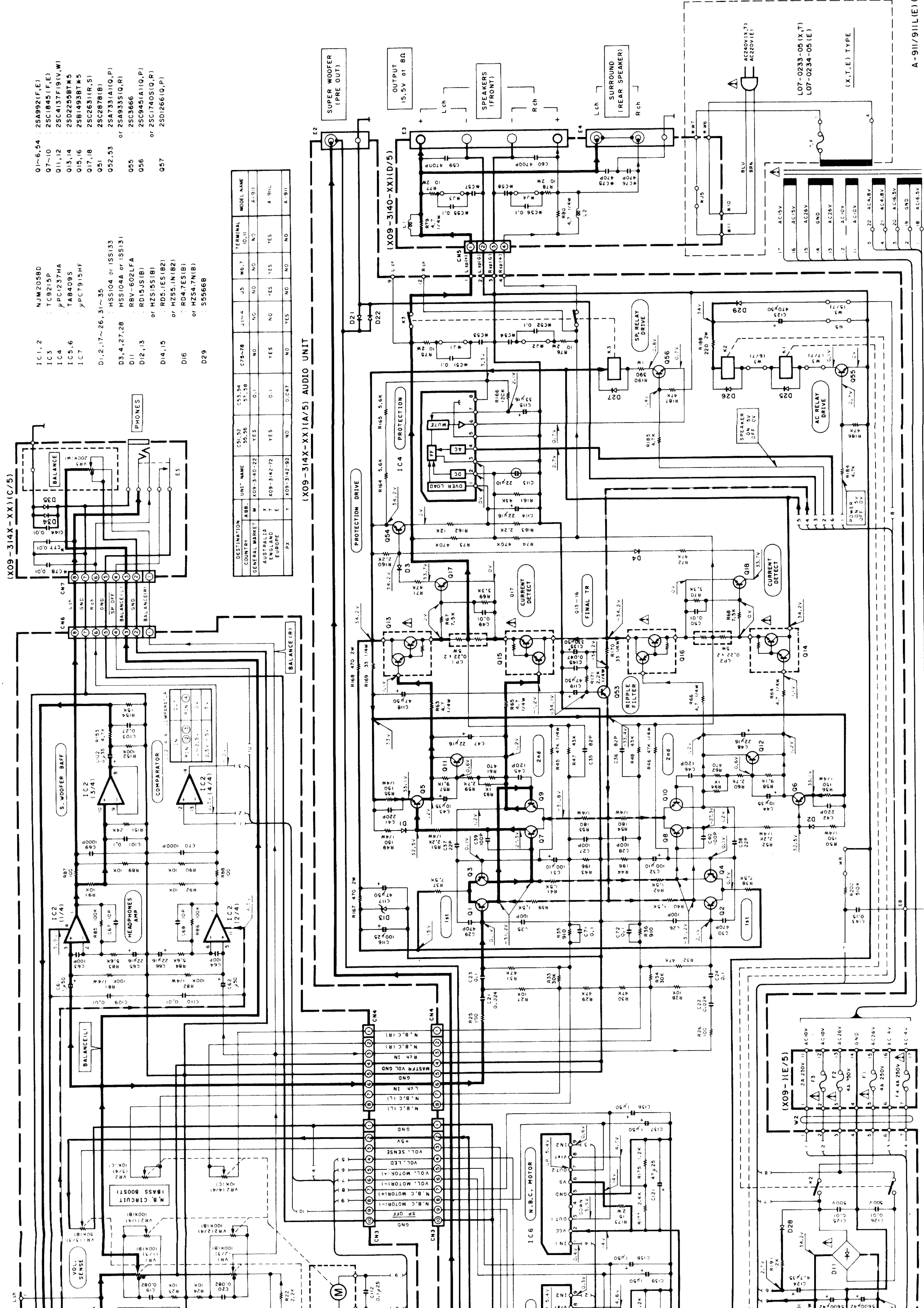


TABLE 1: INPUT/OUTPUT MODES

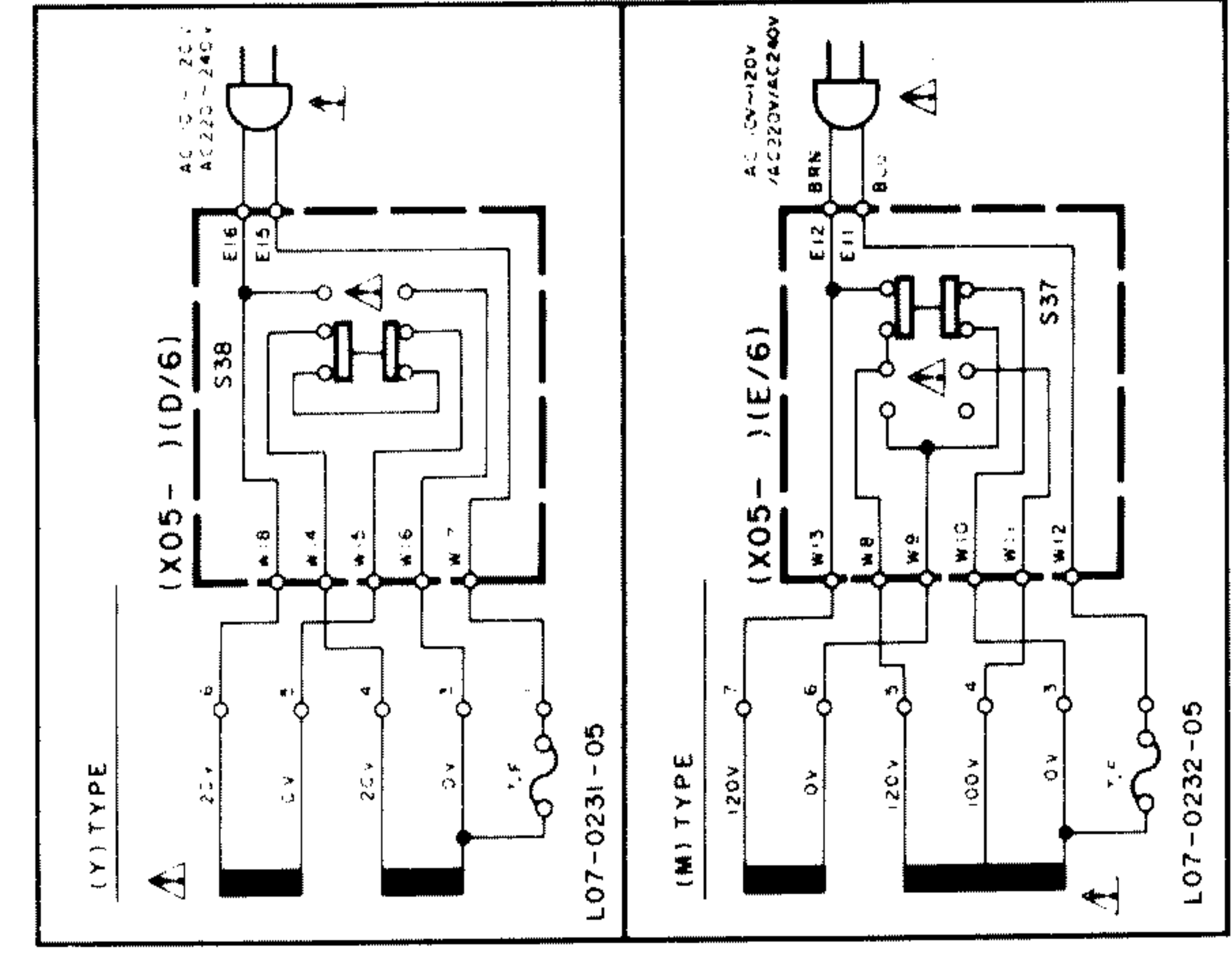
MODE	INPUT	OUTPUT	MODE NO.
MONITOR	MON	MON	1
STEREO	STEREO	STEREO	2
FM	FM	FM	3
FM/STEREO	FM/STEREO	FM/STEREO	4
FM/STEREO/MTX	FM/STEREO/MTX	FM/STEREO/MTX	5
FM/STEREO/MTX/MTX	FM/STEREO/MTX/MTX	FM/STEREO/MTX/MTX	6
FM/STEREO/MTX/MTX/MTX	FM/STEREO/MTX/MTX/MTX	FM/STEREO/MTX/MTX/MTX	7
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TABLE 2: OCCUPATION: PART NAME

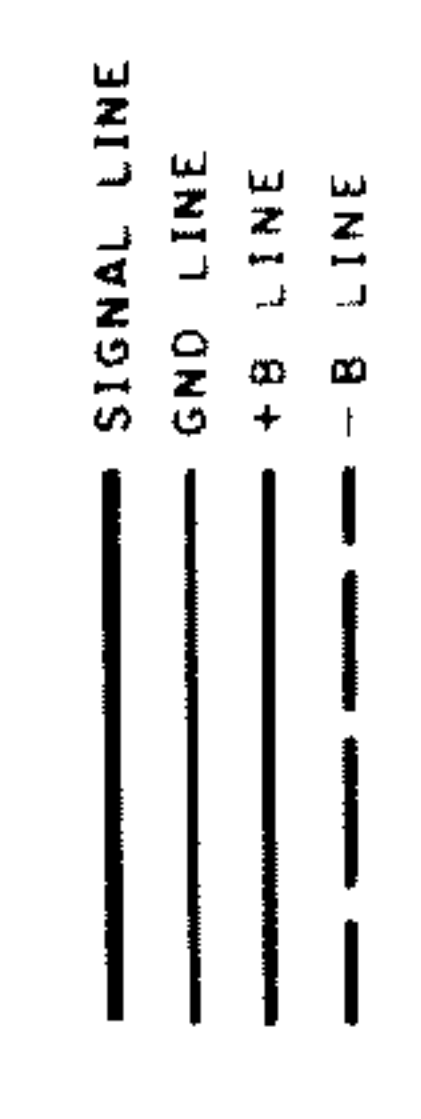
COUNTRY	PART NAME	UNIT	QTY
GENERAL MARKET	IC1	OP-AMP	1
AUSTRALIA	IC1	OP-AMP	1
ENGLAND	IC1	OP-AMP	1
EUROPE	IC1	OP-AMP	1
	IC2	OP-AMP	1
	IC3	OP-AMP	1
	IC4	OP-AMP	1
	Q1-Q10	TRANSISTOR	10
	D1-D10	DIODE	10
	R1-R100	RESISTOR	100
	C1-C50	CAPACITOR	50



DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.



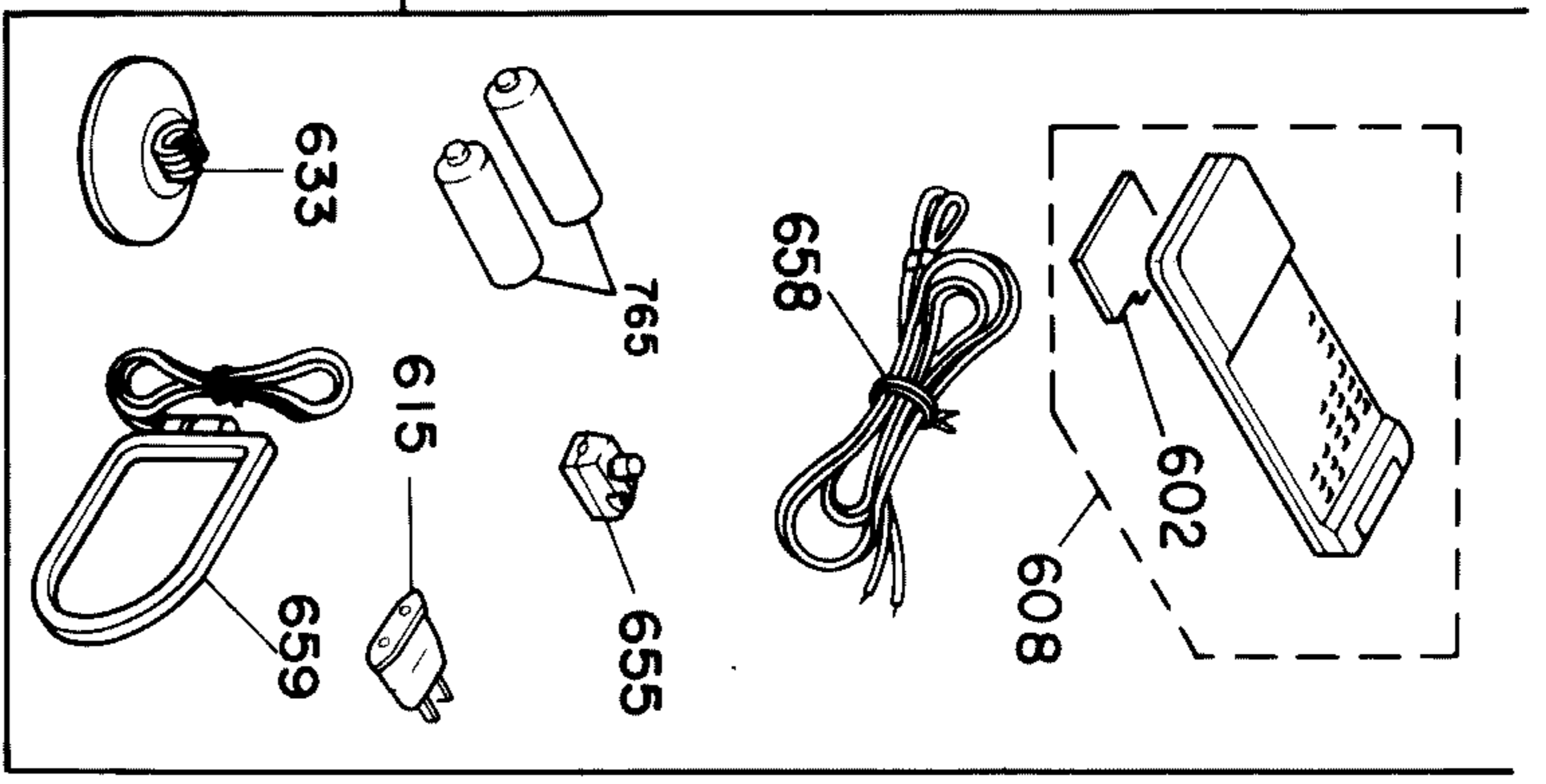
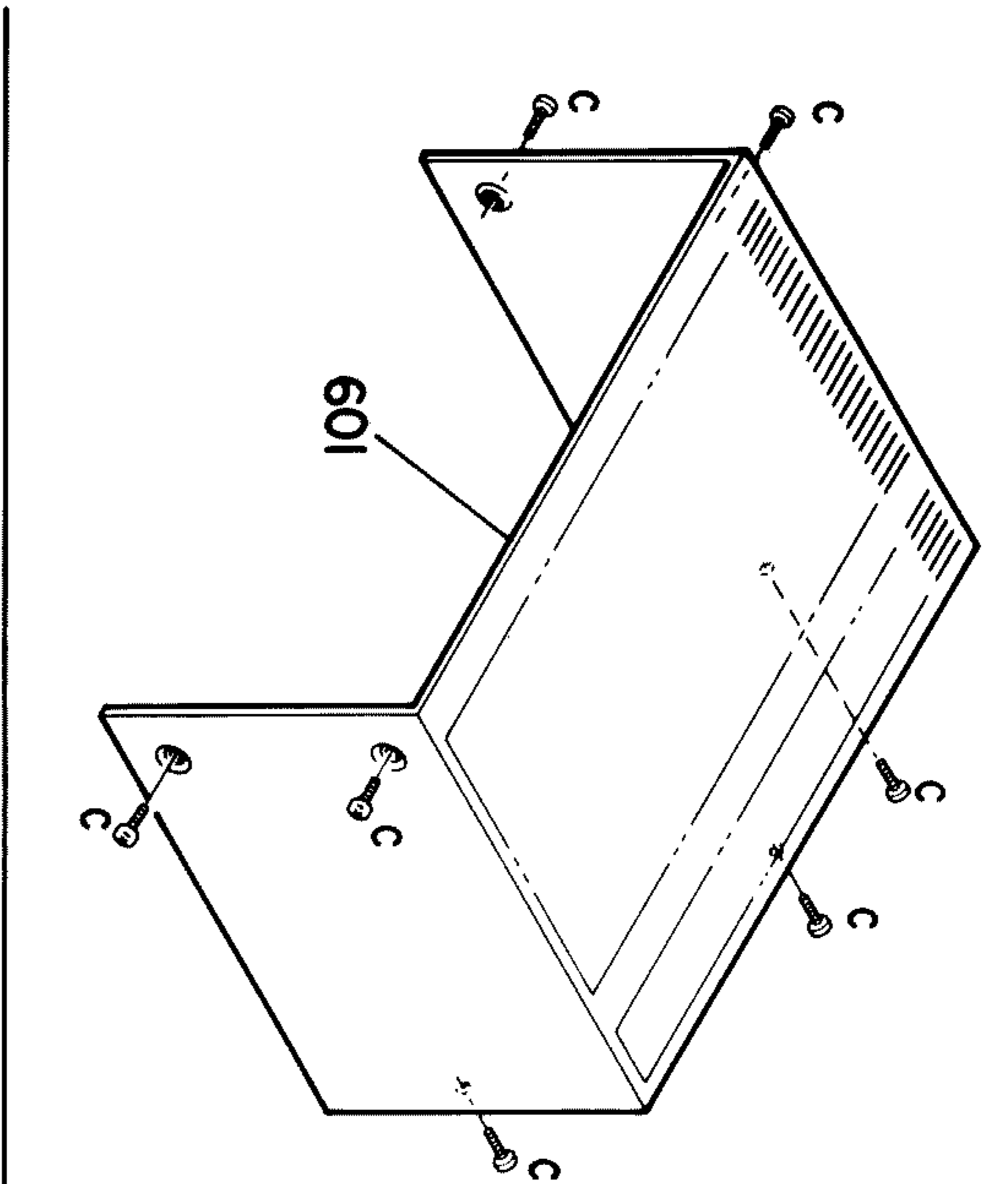
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **⚠** Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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



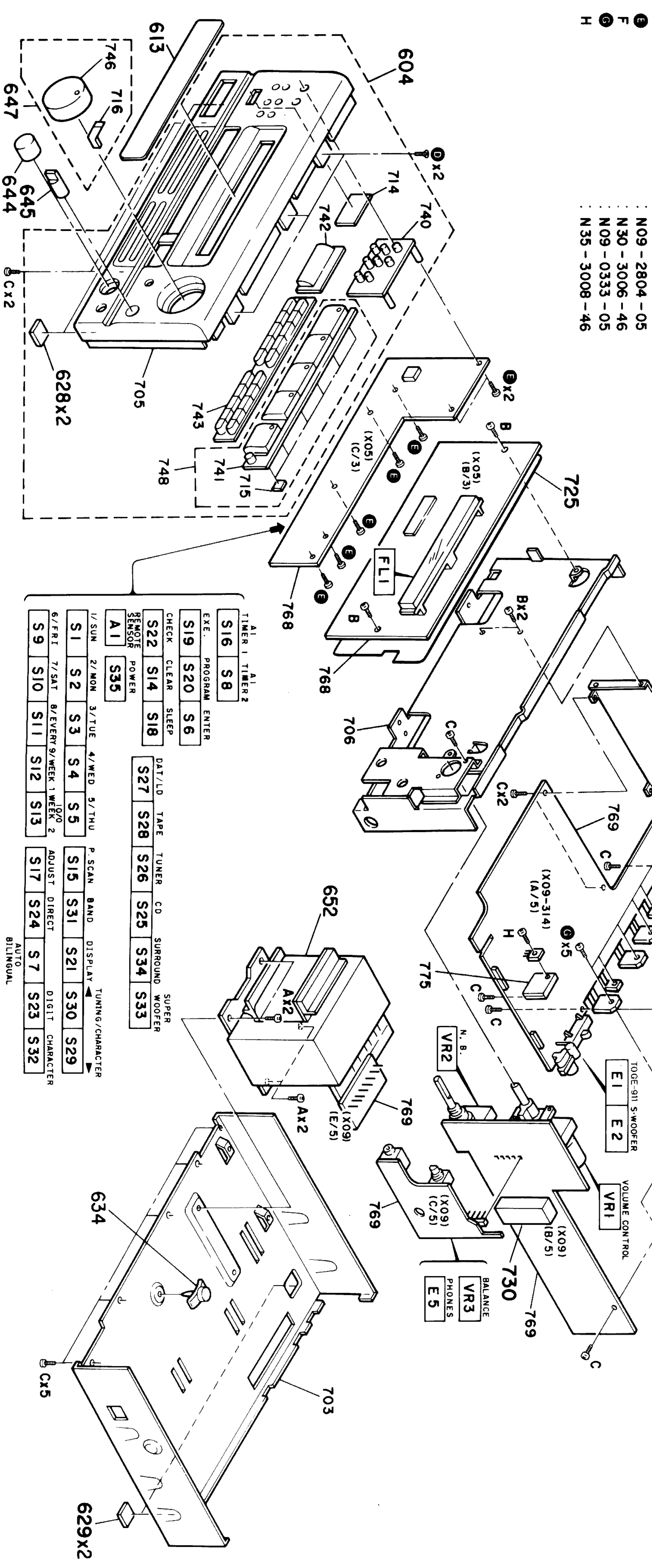
A-911/911L(E) (3/3)

EXPLODED VIEW

EXPLODED VIEW



- A Ø 4x6 (BI - Top) BLK N86 - 4006 - 45
- B Ø 3x8 (BI - Top) N89 - 3008 - 46
- C Ø 3x8 (BI - Top) BLK N89 - 3008 - 45
- D N09 - 1445 - 05
- E N09 - 2804 - 05
- F N30 - 3006 - 46
- G N09 - 0333 - 05
- H N35 - 3008 - 46



TIMER 1		TIMER 2		SUPER	
S16	S8	S16	S8	S17	S23
EXEC. PROGRAM ENTER		CHECK CLEAR SLEEP		DIGIT CHARACTER	
S19	S20	S6	S6	S17	S24
REMOTE SENSOR POWER		DAT/LD TAPE TUNER CD SURROUND WOOFER		TUNING/CHARACTER	
A1	S35	S27	S28	S25	S34
1/SUN 2/MON 3/TUE 4/MED 5/THU		P-SCAN BAND DISPLAY		AUTO BILINGUAL	
S1	S2	S3	S4	S5	S29
6/FRI 7/SAT 8/EVERY 9/WEEK 1/WEEK 2		ADJUST DIRECT		DIGIT CHARACTER	
S9	S10	S11	S12	S13	S32

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
A-911						
601	1A		A01-1866-01	METALLIC CABINET	X	
601	1A	*	A01-1878-01	METALLIC CABINET	YM	
602	1B		A09-0088-08	BATTERY COVER		
604	2A	*	A60-0038-12	PANEL ASSY		
608	1B	*	A70-0519-05	REMOTE CONTROLLER ASSY		
613	3A		B10-1093-14	FRONT GLASS	Y	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-23	WARRANTY CARD	X	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B60-0376-00	INSTRUCTION MANUAL(ENGLISH)	M	
-		*	B60-0380-00	INSTRUCTION MANUAL(CHINESE)	M	
-		*	B60-0381-00	INSTRUCTION MANUAL(SPANISH)	M	
615	1B		E03-0115-05	AC PLUG ADAPTER	M	
620	1D		E30-0459-05	AC POWER CORD	M	
620	1D		E30-1341-05	AC POWER CORD	M	
620	1D	*	E30-2634-05	AC POWER CORD	X	
628	3B		G11-2017-04	CUSHION	Y	
629	3D		G11-2050-14	CUSHION	Y	
-			H09-0106-04	INNER PACKAGE		
-		*	H10-5023-12	POLYSTYRENE FOAMED FIXTURE	M	
-		*	H10-5024-12	POLYSTYRENE FOAMED FIXTURE	M	
-		*	H13-0038-04	BLISTER SHEET	X	
-		*	H25-0397-04	PROTECTION BAG	Y	
-			H25-0631-04	PROTECTION BAG		
633	2B		J19-2815-04	ANTENNA HOLDER		
634	3C		J19-3300-05	UNIT HOLDER		
635	1C		J42-0083-05	POWER CORD BUSHING		
-			J11-0167-05	WIRE CLAMPER		
-			J61-0307-05	WIRE BAND		
644	3A		K29-3959-14	KNØB(N.B. CIRCUIT)		
645	3A		K29-3960-04	KNØB(BALANCE)		
647	3A		K29-3997-04	KNØB ASSY(VOLUME CONTROL)		
652	3C	*	L07-0231-05	POWER TRANSFORMER	Y	
652	3C	*	L07-0232-05	POWER TRANSFORMER	M	
652	3C	*	L07-0233-05	POWER TRANSFORMER	X	
A			N86-4006-45	BINDING HEAD TAPITITE SCREW		
B			N89-3008-46	BINDING HEAD TAPITITE SCREW		
C			N89-3008-45	BINDING HEAD TAPITITE SCREW		
D			N09-1445-05	SET SCREW (M3X8)		
E			N09-2804-05	TAPPING SCREW (2.6X6)		
655	1B		T90-0136-05	ANTENNA ADAPTOR	YM	
658	1B		T90-0176-05	T TYPE ANTENNA		
659	2B		T90-0173-05	LØØP ANTENNA		
A-911L						
601	1A		A01-1866-01	METALLIC CABINET		
602	1B		A09-0088-08	BATTERY COVER		
604	2A	*	A60-0062-12	PANEL ASSY		
608	1B	*	A70-0519-05	REMOTE CONTROLLER ASSY		

E: Scandinavia & Europe K: USA P: Canada W: Europe
 Y: PX(Far East, Hawaii) T: England M: Other Areas
 Y: 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
613	3A		B10-1093-14	FRONT GLASS	E	
-			B46-0122-13	WARRANTY CARD	T	
-		*	B46-0143-13	WARRANTY CARD	T	
-		*	B58-0923-14	CAUTION CARD	T	
-		*	B60-0376-00	INSTRUCTION MANUAL(ENGLISH)	E	
-		*	B60-0377-00	INSTRUCTION MANUAL(FRENCH)	E	
-		*	B60-0378-00	INSTRUCTION MANUAL(DUTCH)	E	
-		*	B60-0379-00	INSTRUCTION MANUAL(ITALIAN)	E	
-		*	B60-0382-00	INSTRUCTION MANUAL(GERMAN)	E	
620	1D		E30-0459-05	AC POWER CORD	E	
620	1D		E30-1416-05	AC POWER CORD	T	
628	3B		G11-2017-04	CUSHION		
629	3D		G11-2050-14	CUSHION		
-			H09-0106-04	INNER PACKAGE		
-		*	H10-5023-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5024-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H13-0038-04	BLISTER SHEET		
-		*	H25-0397-04	PROTECTION BAG		
-			H25-0631-04	PROTECTION BAG		
-		*	H50-0031-04	ITEM CARTON CASE		
633	2B		J19-2815-04	ANTENNA HOLDER		
634	3C		J19-3300-05	UNIT HOLDER		
635	1C		J42-0083-05	POWER CORD BUSHING		
-			J11-0167-05	WIRE CLAMPER		
-			J61-0307-05	WIRE BAND		
644	3A		K29-3959-14	KNØB(N.B. CIRCUIT)		
645	3A		K29-3960-04	KNØB(BALANCE)		
647	3A		K29-3997-04	KNØB ASSY(VOLUME CONTROL)		
652	3C	*	L07-0233-05	POWER TRANSFORMER	T	
652	3C	*	L07-0234-05	POWER TRANSFORMER	E	
A			N86-4006-45	BINDING HEAD TAPITITE SCREW		
B			N89-3008-46	BINDING HEAD TAPITITE SCREW		
C			N89-3008-45	BINDING HEAD TAPITITE SCREW		
D			N09-1445-05	SET SCREW (M3X8)		
E			N09-2804-05	TAPPING SCREW (2.6X6)		
655	1B		T90-0136-05	ANTENNA ADAPTOR		
658	1B		T90-0176-05	T TYPE ANTENNA		
659	2B		T90-0173-05	LØØP ANTENNA		
TUNER UNIT (X05-399X-XX, 0-21; M type, 0-71; X type, 2-71; T, E type, 2-91; Y type)						
D49	-52		B30-1012-05	LED(SLP-981C-50)		
D54	,55		B30-1012-05	LED(SLP-981C-50)		
C1			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C2			CE04KW1E101M	ELECTRØ 100UF 25WV		
C3			CF92FV1H273J	MF 0.027UF J		
C4			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C5			CE04KW1E101M	ELECTRØ 100UF 25WV		
C6	,7		C91-0769-05	CERAMIC 0.01UF K	TE	
C8			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C9	,10		CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C11			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C12			C91-0085-05	CERAMIC 0.022UF N	TE	

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Table with columns: Ref. No., Address, New Parts, Parts No., Description, Destination, Remarks. Rows include parts like CK45FF1H4722Z, CE04KW1H010M, etc.

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S36			S31-2094-05	SLIDE SWITCH (DE-EM., CH. SPACE)	YM	
A S37			S31-2082-05	SLIDE SWITCH (AC120-220-240V)	M	
A S38			S31-2128-05	SLIDE SWITCH (AC120-240V)	Y	
D1 ,2			HSS104	DIODE	TE	
D1 ,2			1SS133	DIODE	TE	
D3 -8			HSS104	DIODE	TE	
D3 -8			1SS133	DIODE	TE	
D9			HSS104	DIODE	TE	
D9			1SS133	DIODE	TE	
D11 ,12			HSS104	DIODE	TE	
D11 ,12			1SS133	DIODE	TE	
D18 ,19			HSS104	DIODE	TE	
D18 ,19			1SS133	DIODE	TE	
D21 ,22			S5566B	DIODE	TE	
D23			HSS104	DIODE	TE	
D23			1SS133	DIODE	TE	
D25			HZ55.1N(B2)	ZENER DIODE	YM	
D25			R05.1ES(B2)	ZENER DIODE	YM	
D30 -47			HSS104	DIODE	TE	
D30 -47			1SS133	DIODE	TE	
D48			HZ510N(B)	ZENER DIODE	YM	
D48			RD10ES(B)	ZENER DIODE	YM	
D53			HSS104	DIODE	TE	
D53			1SS133	DIODE	TE	
D56 -61			HSS104	DIODE	TE	
D56 -61			1SS133	DIODE	TE	
D62			HZ53.3N(B2)	ZENER DIODE	YM	
D62			RD3.3ES(B2)	ZENER DIODE	YM	
D63 ,64			HSS104	DIODE	TE	
D63 ,64			1SS133	DIODE	TE	
D65			HSS104	DIODE	TE	
D65			1SS133	DIODE	TE	
D67			HSS104	DIODE	TE	
D67			1SS133	DIODE	TE	
D68 -70			HSS104	DIODE	TE	
D68 -70			1SS133	DIODE	TE	
D202			HZ55.1S(B2)	ZENER DIODE	YM	
D202			R05.1JS(B2)	ZENER DIODE	YM	
FL1			8-BT-98GK	FLUORESCENT INDICATOR TUBE	TE	
IC1			LA1265	IC(FM/AM TUNER)	TE	
IC2			AN7470	IC(FM MPX)	TE	
IC3			LH7001	IC(PLL FREQUENCY SYNTHESIZER)	TE	
IC5			CXP50112-127Q	IC(TUNER MICROPROCESSOR)	TE	
IC6			UPD7538ACU-232	IC(AMP. MICROPROCESSOR)	TE	
IC7			PST529D	IC(RESET)	TE	
IC9 ,10			AN7805F	IC(VOLTAGE REGULATOR/ +5V)	TE	
IC9 ,10			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)	TE	
Q1			2SC1923(R,Ø)	TRANSISTOR	TE	
Q2			2SK163(L,M)	FET	TE	
Q3			2SC1740S(Q,R)	TRANSISTOR	TE	
Q3			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q4			2SC1845(F,E)	TRANSISTOR	TE	
Q5			2SC1740S(Q,R)	TRANSISTOR	TE	
Q5			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q8			2SA733(A)(Q,P)	TRANSISTOR	TE	

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Q8			2SA933S(Q,R)	TRANSISTOR	TE	
Q9			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q9			2SA933S(Q,R)	TRANSISTOR	TE	
Q10			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q10			2SA933S(Q,R)	TRANSISTOR	TE	
Q11 ,12			2SC1740S(Q,R)	TRANSISTOR	YM	
Q11 ,12			2SC945(A)(Q,P)	TRANSISTOR	YM	
Q13			2SC1740S(Q,R)	TRANSISTOR	YM	
Q13			2SC945(A)(Q,P)	TRANSISTOR	YM	
Q14			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q14			2SA933S(Q,R)	TRANSISTOR	TE	
Q15			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q15			2SA933S(Q,R)	TRANSISTOR	TE	
Q16			2SA733(A)(Q,P)	TRANSISTOR	TE	
Q16			2SA933S(Q,R)	TRANSISTOR	TE	
Q17			2SA733(A)(Q,P)	TRANSISTOR	YM	
Q17			2SA933S(Q,R)	TRANSISTOR	YM	
Q18 ,19			2SD1302(S,T)	TRANSISTOR	YM	
Q20			2SC1740S(Q,R)	TRANSISTOR	TE	
Q20			2SC945(A)(Q,P)	TRANSISTOR	TE	
Q21			2SD1266(Q,P)	TRANSISTOR	TE	
Q22 ,23			2SC1740S(Q,R)	TRANSISTOR	TE	
Q22 ,23			2SC945(A)(Q,P)	TRANSISTOR	TE	
A1			W02-1049-05	ELECTRIC CIRCUIT MODULE	TE	
DT1			W02-1041-05	FM FRONT-END ASSY	TE	
DT1			W02-1042-05	FM FRONT-END ASSY	YMX	
AUDIO UNIT (X09-314X-XX, 0-22; M type, 2-72; X, T, E, type 2-92; Y type)						
C1 ,2			CC45FSL1H221J	CERAMIC	J	
C3 ,4			CE04KW1H010M	ELECTRO	50WV	
C5 ,6			CF92FV1H153J	MF	0.015UF	
C7 ,8			CC45FSL1H100D	CERAMIC	D	
C9 ,10			CK45FB1H391K	CERAMIC	K	
C11 ,12			CK45FB1H222K	CERAMIC	K	
C13 -18			CE04KW1V100M	ELECTRO	35WV	
C19 ,20			CF92FV1H823J	MF	0.082UF	
C21 ,22			CF92FV1H243J	MF	0.024UF	
C23 ,24			CF92FV1H104J	MF	0.10UF	
C25 -28			CC45FSL1H101J	CERAMIC	J	
C29 ,30			CK45FB1H471K	CERAMIC	K	
C31 ,32			CE04KW1A101M	ELECTRO	10WV	
C35 ,36			CC45FSL1H820J	CERAMIC	J	
C37 ,38			CC45FSL1H220J	CERAMIC	J	
C39 ,40			CC45FSL1H101J	CERAMIC	J	
C41 ,42			CC45FSL1H221J	CERAMIC	J	
C43 ,44			CE04KW1V100M	ELECTRO	35WV	
C45 ,46			CC45FSL1H121J	CERAMIC	J	
C47 ,48			CE04KW1C220M	ELECTRO	16WV	
C49 ,50			CK45FF1H103Z	CERAMIC	Z	
C51 ,52			CF92FV1H104J	MF	0.10UF	
C53 ,54			CF92FV1H104J	MF	0.10UF	
C53 ,54			CF92FV1H473J	MF	0.047UF	
C55 ,56			CF92FV1H104J	MF	0.10UF	
C57 ,58			CF92FV1H104J	MF	0.10UF	
C57 ,58			CF92FV1H473J	MF	0.047UF	

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