

SPECIFICATIONS

Receiver unit (A-711/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 to 12,500 Hz, 0.7% T.H.D. at 6 Ω 40 W + 40 W
(DIN) 1 kHz, at 6 Ω 43 W + 43 W
(IHF '66) From 40 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 CD, TUNER, AUX, TAPE 40 Hz ~ 70 kHz, +1.5 dB, -3 dB

Signal to noise ratio (IHF '66) DAT INPUT 85 dB

Input sensitivity/impedance DAT INPUT 150 mV/47 kΩ

N.B. circuit (-30 dB VOLUME level) -20 dB (at 60 Hz)

Output level/impedance SUB WOOFER OUT 1.0 V/3.6 kΩ

Power consumption 200 W (IEC)

Dimensions 1.5 A (for U.S.A. and Canada)
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-711L FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (DIN at 75 Ω) MONO 0.8 μV
STEREO 2.9 μV

Total harmonic distortion (DIN at 1 kHz) MONO 0.2% (65 dB input)
STEREO 0.3% (65.2 dB input)

Signal to noise ratio (DIN weighted at 1 kHz) MONO 88 dB (65.2 dB input)
STEREO 83 dB (65.2 dB input)

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.

Stereo separation (DIN) 1 kHz 45 dB

Frequency response 30 Hz ~ 15 kHz, +0.5 dB, -3.5 dB

MW tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

Usable sensitivity 14 μV (500 μV/m)

Signal to noise ratio (at 30% mod, 1 mV input) 60 dB

LW tuner section

Tuning frequency range 153 kHz ~ 281 kHz

Usable sensitivity 25 μV (1,000 μV/m)

Signal to noise ratio (at 30% mod, 1 mV input) 47 dB

A-711 FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO at 75 Ω) 0.95 μV (10.8 dB)

Total harmonic distortion (at 1 kHz) MONO 0.2% (65 dB input)
STEREO 0.3% (65 dB input)

Signal to noise ratio (at 1 kHz) MONO 76 dB (65 dB input)
STEREO 70 dB (65 dB input)

Stereo separation 1 kHz 45 dB

Frequency response 30 Hz ~ 15 kHz, +0.5 dB, -3.5 dB

AM tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

9 kHz step 531 kHz ~ 1,602 kHz

10 kHz step 530 kHz ~ 1,610 kHz

Usable sensitivity 14 μV (500 μV/m)

Signal to noise ratio (at 30% mod, 1 mV input) 50 dB

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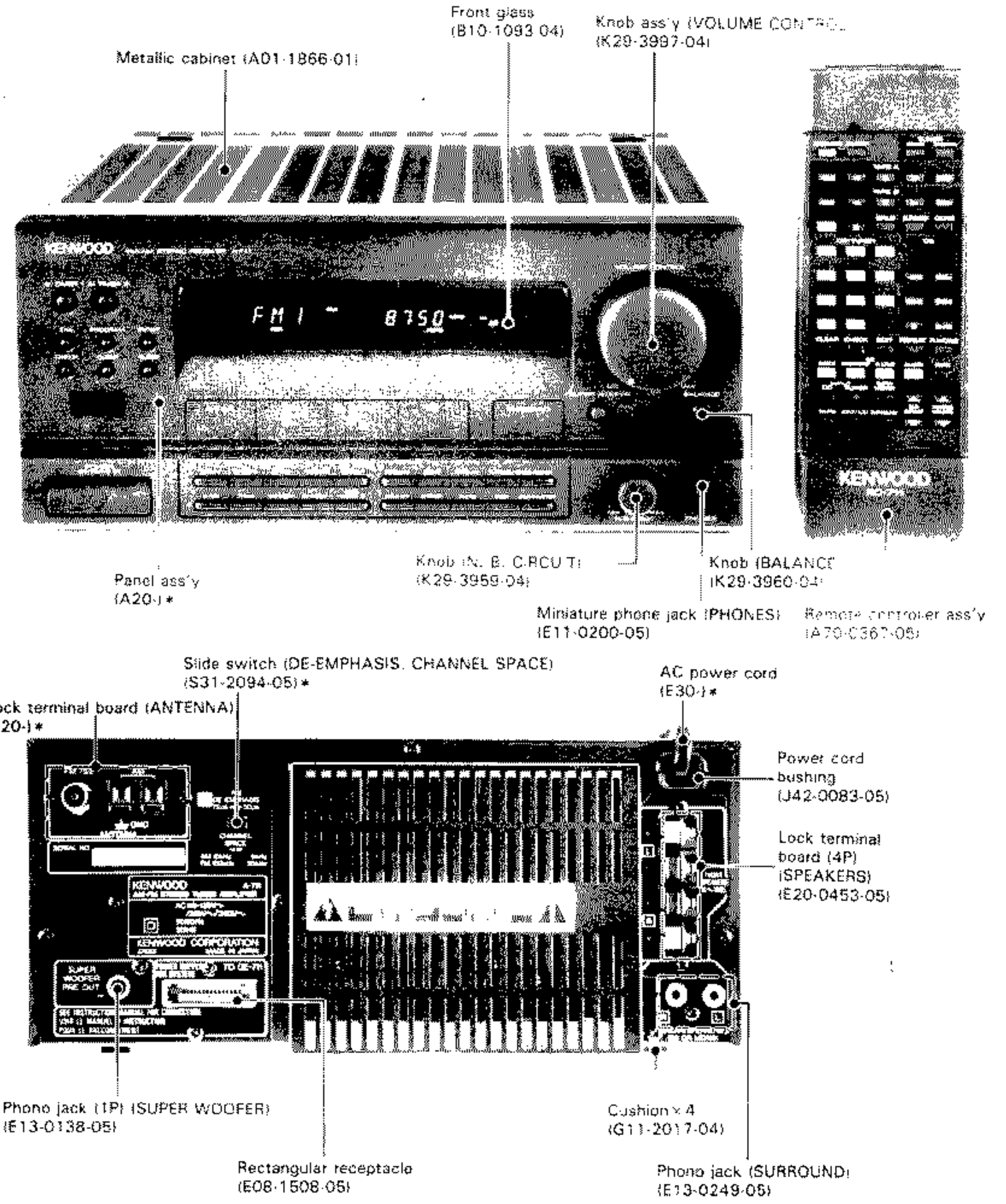
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A-711/711L

SERVICE MANUAL

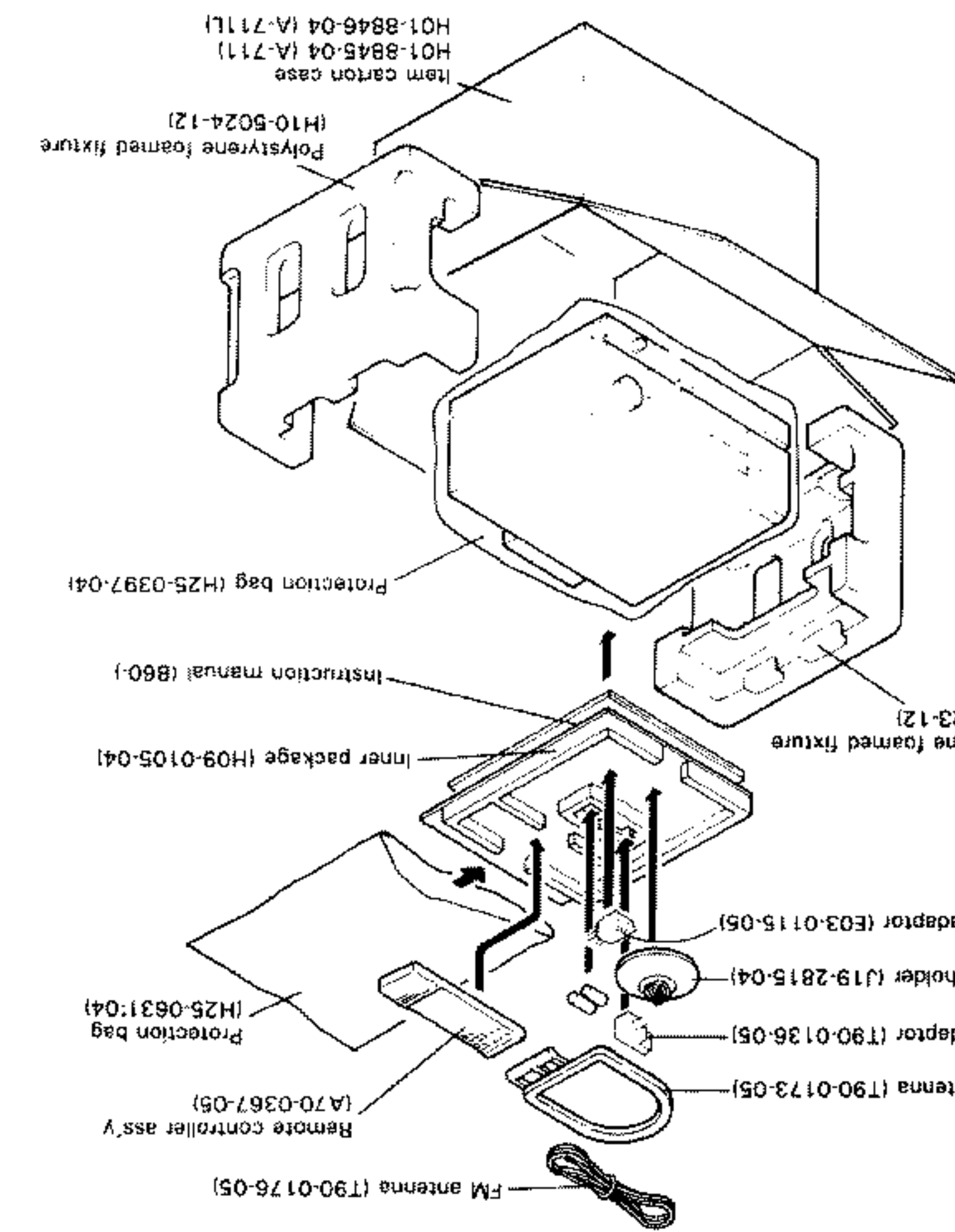
(COMPACT HI-FI SYSTEM UD COMPONENT SYSTEM UD-7)

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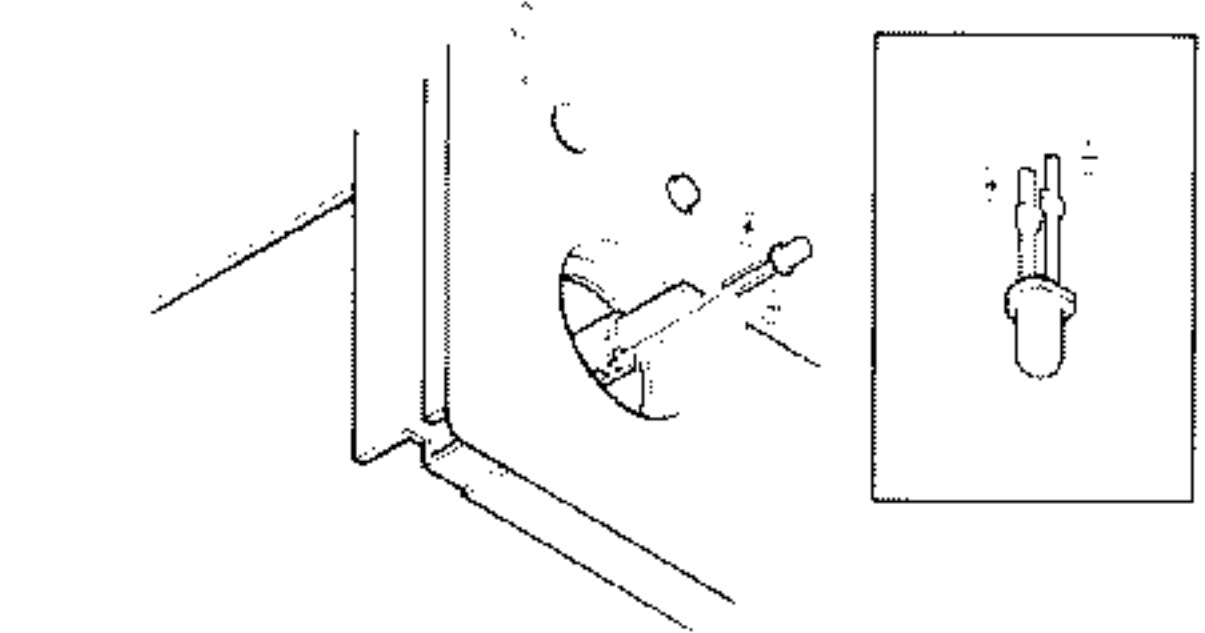
A-711 : K, P, Y, M, X type
A-711L : T, E type

*Refer to parts list on page 46.
Photo is A-711.



PACKING

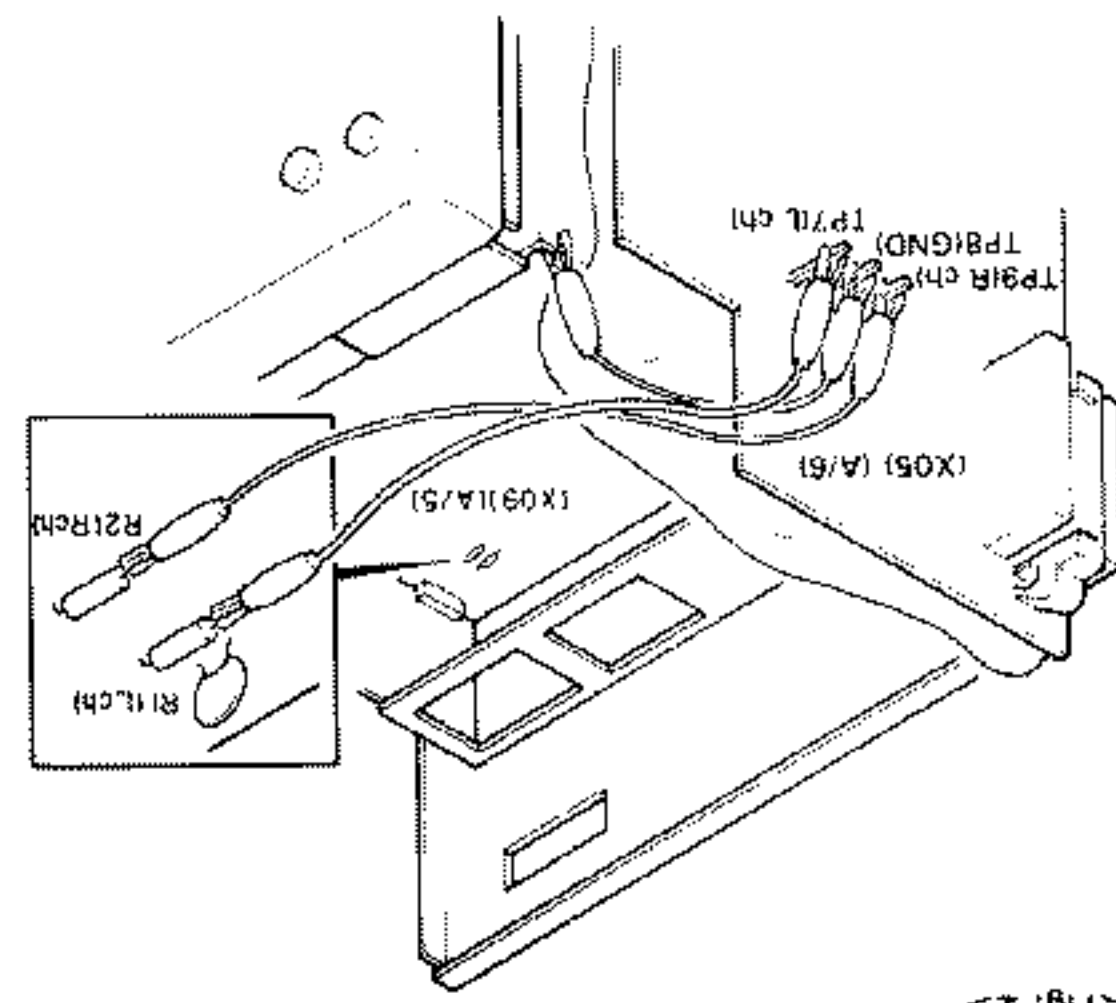
7 Exchange the fuse resistance mounted on the printed board of power-source transformer for a new one after removing the transformer and putting it on the side of the set.



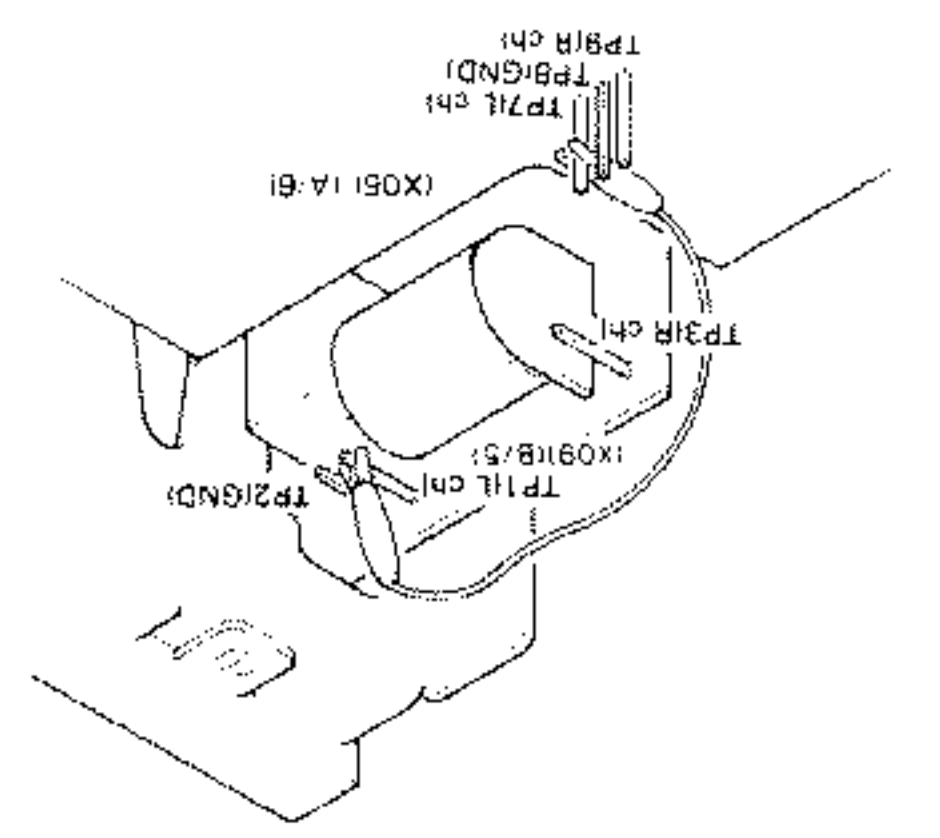
5. The A1 sensor for remote-control light receptor, of X05 uses initially W02-1049-05 and uses W02-1048-05 thereafter.

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<Fig. 2>



<Fig. 1>

1. Be sure to refer to the instruction manual of UD-7 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, therefore, radio waves cannot be received with this unit alone.
3. When you listen to radio waves with this unit alone, connection must be made by the following method:
a) Facilitated connection method, or b) Regular connection method.
(Instead of tuner output, AG output can also be connected to X09 side)
4. As a new function, one pattern of graphic equalizer has been able to be selected and stored into memory at each INPUT SELECTOR. The memory can be conducted by GE SELECTOR (excluding TAPE). The REC level set by CRTS at each INPUT SELECTOR (excluding TAPE) can also be stored into memory. The memory can be conducted by DECK method for repair).
5. Regular connection method (Refer to disassembling partly because of the relation with input impedance)
6. Connect the output pin TP7(Lch) and TP9(Rch) of the tuner board (X05, A/B) with the best pin TP1(Lch) and TP3(Rch) of main board (B/B5) <Fig. 1 > (Output decreases)
7. Connect the output pin TP7(Lch) and TP9(Rch) of the tuner board (X05, A/B) with the best pin TP1(Lch) and TP3(Rch) of main board (B/B5) <Fig. 1 > (Output decreases)
8. As a new function, one pattern of graphic equalizer has been able to be selected and stored into memory at each INPUT SELECTOR. The memory can be conducted by GE SELECTOR (excluding TAPE). The REC level set by CRTS at each INPUT SELECTOR (excluding TAPE) can also be stored into memory. The memory can be conducted by DECK method for repair).
9. Regular connection method (Refer to disassembling partly because of the relation with input impedance)
10. Connect the output pin TP7(Lch) and TP9(Rch) of the tuner board (X05, A/B) with the best pin TP1(Lch) and TP3(Rch) of main board (B/B5) <Fig. 1 > (Output decreases)

NOTES REGARDING SERVICES OF THIS UNIT AND FEATURES OF SYSTEM

11 CIRCUIT DESCRIPTION

27 ADJUSTMENT

29 PC BOARD (Component side view)

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CONTENTS

11 CIRCUIT DESCRIPTION

27 ADJUSTMENT

29 PC BOARD (Component side view)

35 SCHEMATIC DIAGRAM

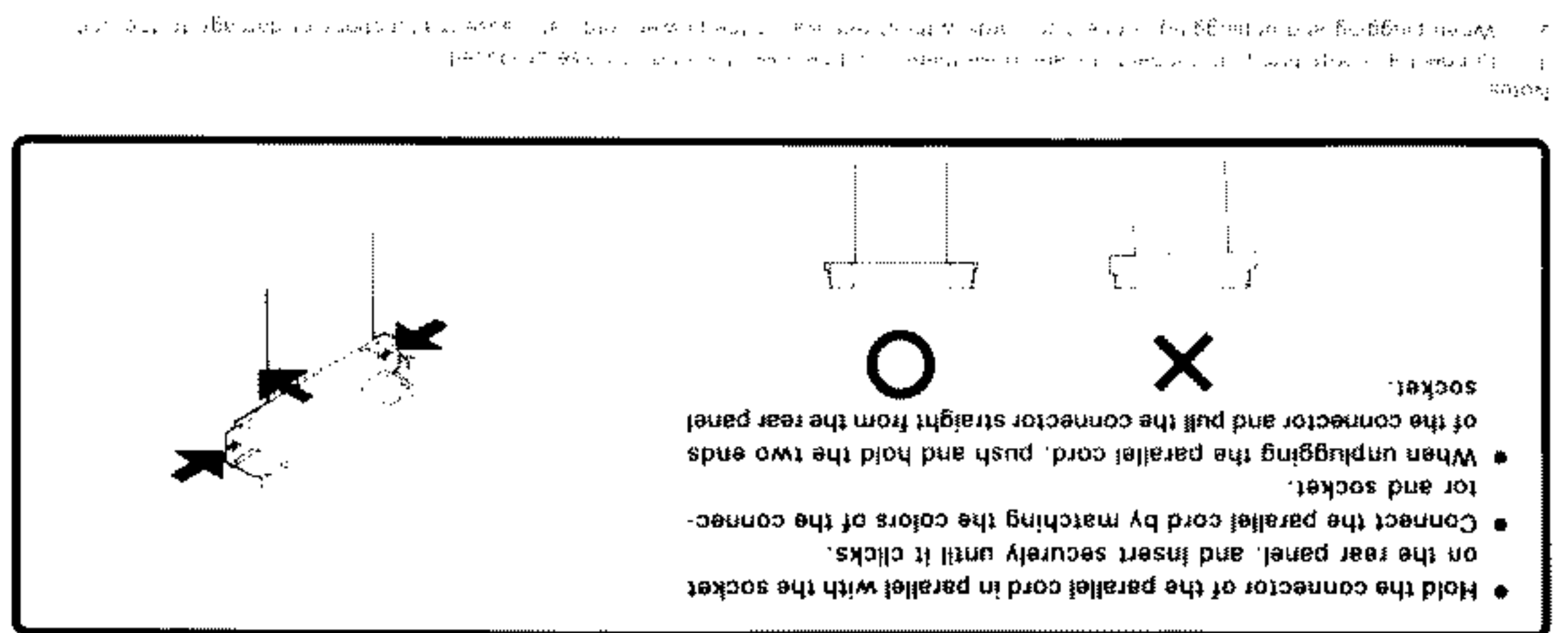
44 EXPLODED VIEW

46 PARTS LIST

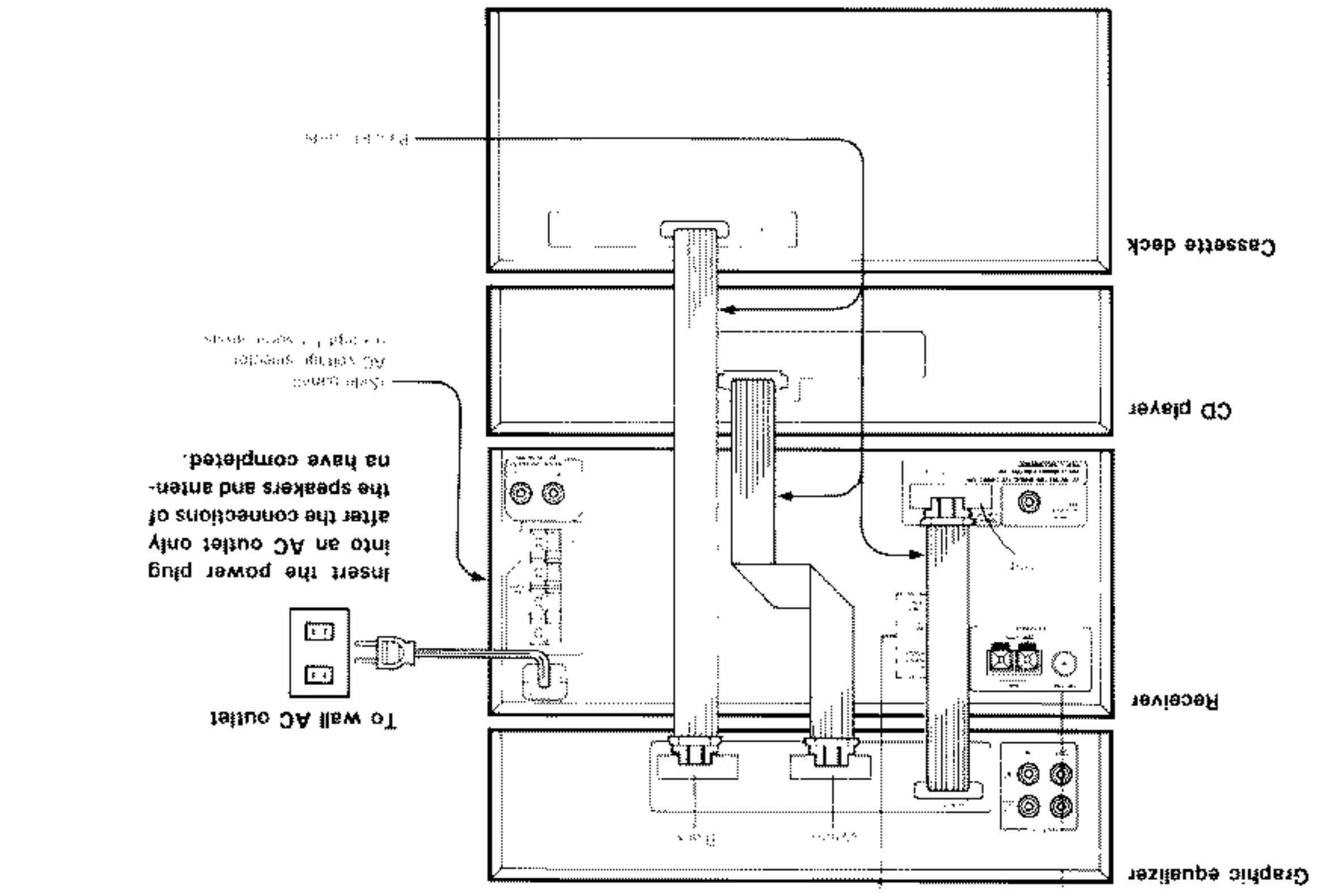
47 SPECIFICATIONS

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NOTES REGARDING SERVICES OF THIS UNIT AND FEATURES OF SYSTEM



Connection of parallel cord



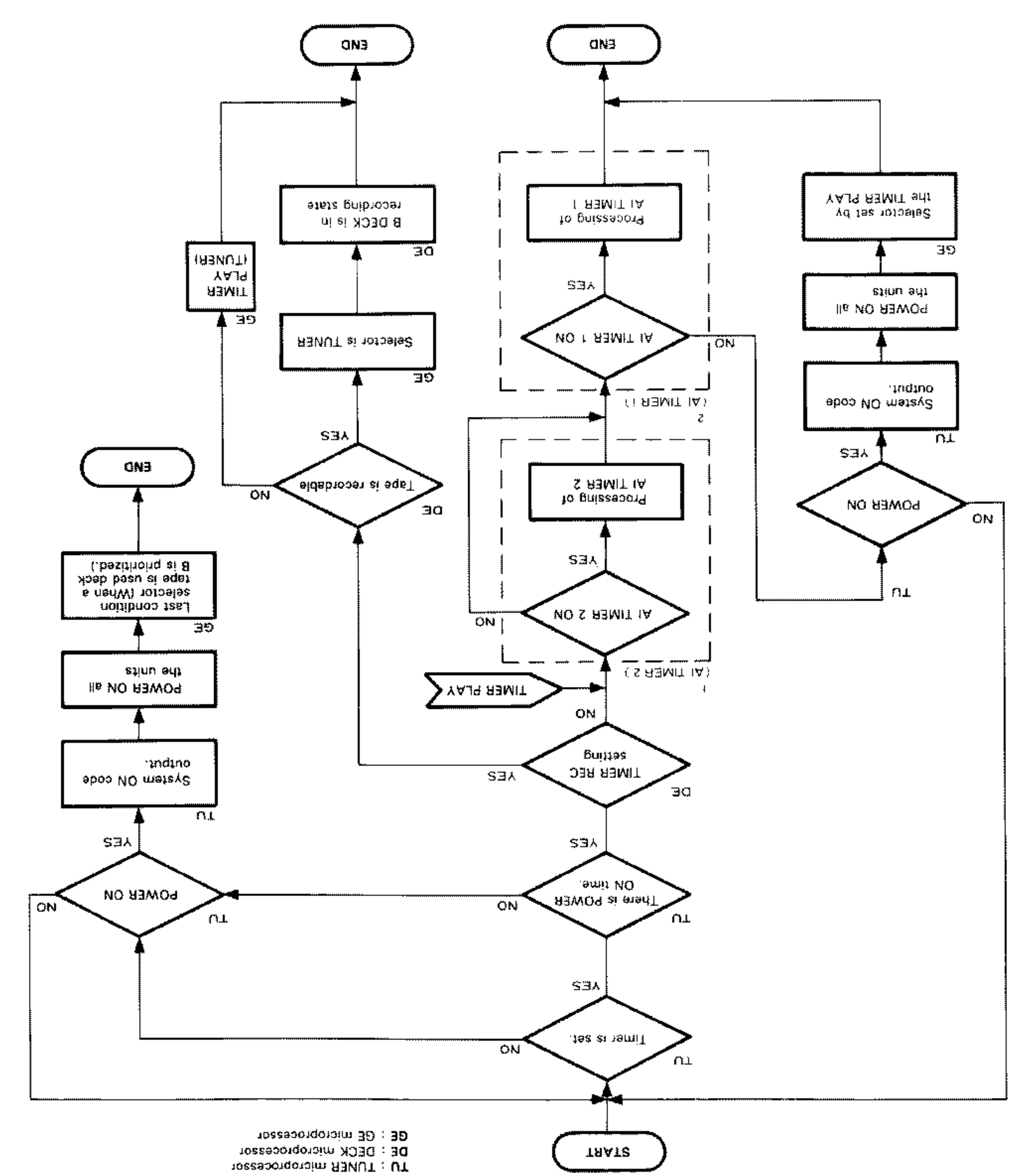
Do not plug in the power lead until all connections are completed. When connecting the parallel cord, be sure to match the colors of the sockets of the related components.

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

System connections

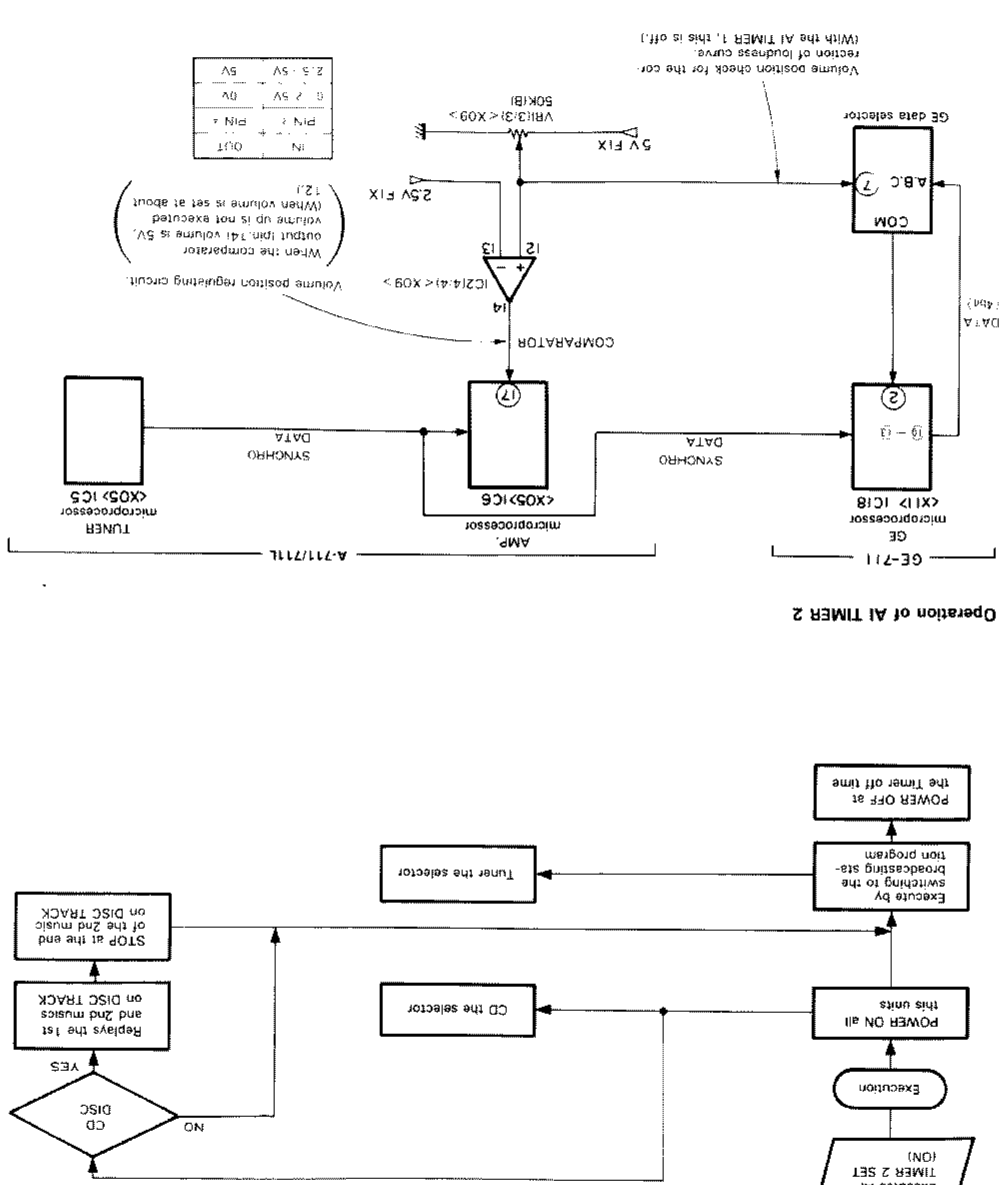
When connecting the related system components, refer also to the instruction manuals of the related components.

A-711/711L



Operation of UD-7 system
The flow chart from power on through sound generation

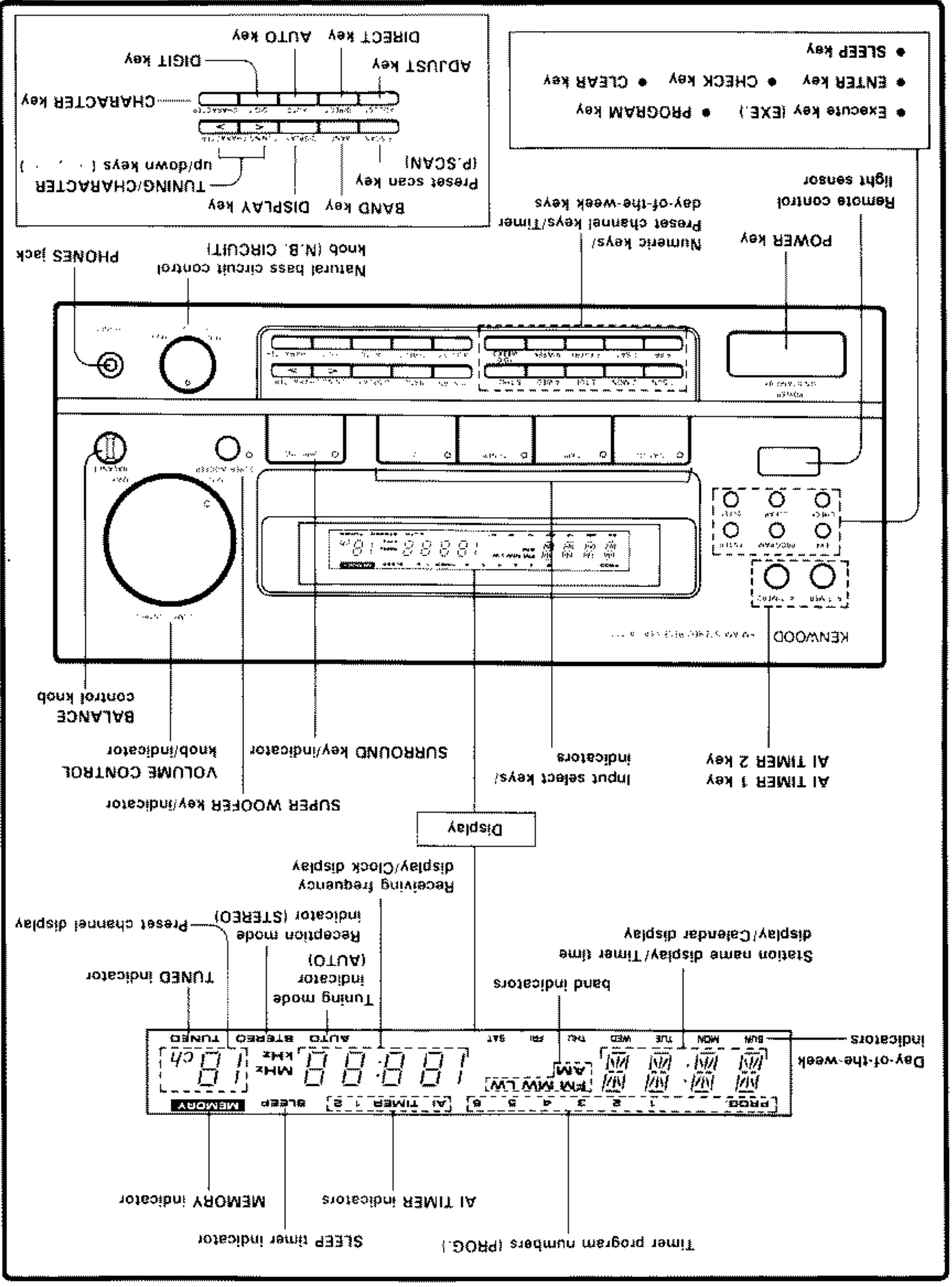
CIRCUIT DESCRIPTION



① Flow chart of AI TIMER 2

CIRCUIT DESCRIPTION

A-711/711L



Receiver

Controls and indicators

A-711/711L

CIRCUIT DESCRIPTION

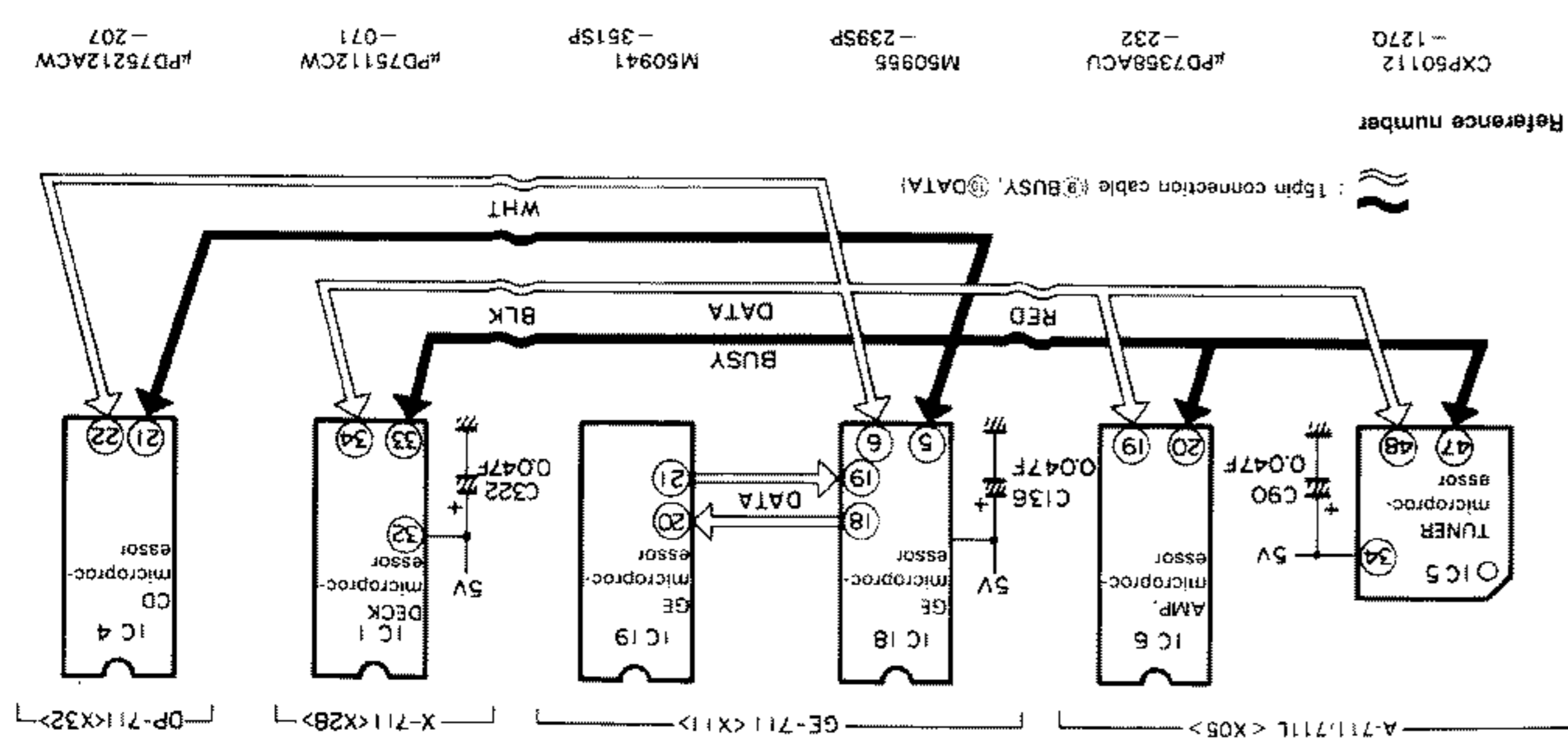
Function of components

Audio unit (X05-3142-71)

Ref. No.	Components	Use/Function	Operation/Condition
IC1	NJM2058D	Surround	Headphone amplifier, Super woofer or buffer, Vh detecting comparator
IC2	IC2 11/4	Surround	IC2 11/4 (2/4) headphone amplifier, IC2 13/4 super-woofer or buffer, Vh detecting comparator
IC3	TC9215P	Surround selector	Surround is turned ON/OFF with the pin No. 23 of IC6 <X05>. H: ON, L: OFF
IC4	IC1237HA	Protection	MUTE is turned ON/OFF with the pin No. 13 of IC6 <X05>. H: ON, L: OFF
IC5	TAB409S	Main volume drive	Main volume drive
IC6	TAB409S	N.B.C. volume drive	N.B.C. volume drive
IC7	PC7915HF	-15V stabilizing power source	-15V stabilizing power source
IC1-4	2SA921F(E)	For the 1st stage A class	For the 1st stage A class
IC5-6	2SA921F(E)	For the 2nd stage A class	For the 2nd stage A class
IC7-10	2C1845F(E)	For the 2nd stage A class	For the 2nd stage A class
IC11,12	2SC1437F191V(W)	For temperature compensation	For temperature compensation
IC13,14	2SD2255BT*5	Final Tr.	Final Tr.
IC15,16	2SB1493BT*5	For detecting overloading	For detecting overloading
IC17,18	2SC2631R(S)	For super woofer muting	For super woofer muting
IC19	2SC2878(B)	For super woofer muting	It is turned ON by turning on OS2
IC20	2A733A(H,Q,P) or 2A833S(Q,R)	Super woofer muting drive	It is turned ON by lowering pin No. 9 of IC6 (X05).
IC21	2A733A(H,Q,P) or 2A833S(Q,R)	Triple filter	
IC22	2SA921F(E)	For protection	
IC23	2C3666	AC relay drive	It drives AC relay K1, 2 with the pin No. 14 of IC6 (X05).
IC24	2C3666	Speaker relay drive	It drives the SP relay K3 with the pin No. 16 of IC6 (X05).
IC25	2D1266(Q,P)	+15V stabilizing, power source	
IC26	HSS104 or 1SS133	For A class	
IC27	HSS104A or 1SS131	For protection	
IC28	RBV-6021FA	For rectification	
IC29	HZS155(B) or HD15J5(B)	+15V stabilizing, power source	
IC30	HZS155(B) or HD15J5(B)	For +15V stabilizing power source A class	
IC31	HZS1N1821 or R051ES1821	For VR detection	
IC32	HZS47E5(B)	For muting	
IC33	HSS104 or 1SS133	For protection of static electricity	
IC34	HSS104 or 1SS133	For protection of static electricity	
IC35	HSS104 or 1SS133	For VR LED	
IC36	HSS104 or 1SS133	For protection of static electricity	
IC37	HSS104 or 1SS133	For VR LED	
IC38	HSS104 or 1SS133	For protection of static electricity	
IC39	HSS104 or 1SS133	For protection of static electricity	
IC40	HSS104 or 1SS133	For protection of static electricity	
IC41	HSS104 or 1SS133	For protection of static electricity	
IC42	HSS104 or 1SS133	For protection of static electricity	
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IC65	HSS104 or 1SS133	For protection of static electricity	
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IC67	HSS104 or 1SS133	For protection of static electricity	
IC68	HSS104 or 1SS133	For protection of static electricity	
IC69	HSS104 or 1SS133	For protection of static electricity	
IC70	HSS104 or 1SS133	For protection of static electricity	
IC71	HSS104 or 1SS133	For protection of static electricity	
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IC75	HSS104 or 1SS133	For protection of static electricity	
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IC77	HSS104 or 1SS133	For protection of static electricity	
IC78	HSS104 or 1SS133	For protection of static electricity	
IC79	HSS104 or 1SS133	For protection of static electricity	
IC80	HSS104 or 1SS133	For protection of static electricity	
IC81	HSS104 or 1SS133	For protection of static electricity	
IC82	HSS104 or 1SS133	For protection of static electricity	
IC83	HSS104 or 1SS133	For protection of static electricity	
IC84	HSS104 or 1SS133	For protection of static electricity	
IC85	HSS104 or 1SS133	For protection of static electricity	
IC86	HSS104 or 1SS133	For protection of static electricity	
IC87	HSS104 or 1SS133	For protection of static electricity	
IC88	HSS104 or 1SS133	For protection of static electricity	
IC89	HSS104 or 1SS133	For protection of static electricity	
IC90	HSS104 or 1SS133	For protection of static electricity	
IC91	HSS104 or 1SS133	For protection of static electricity	
IC92	HSS104 or 1SS133	For protection of static electricity	
IC93	HSS104 or 1SS133	For protection of static electricity	
IC94	HSS104 or 1SS133	For protection of static electricity	
IC95	HSS104 or 1SS133	For protection of static electricity	
IC96	HSS104 or 1SS133	For protection of static electricity	
IC97	HSS104 or 1SS133	For protection of static electricity	
IC98	HSS104 or 1SS133	For protection of static electricity	
IC99	HSS104 or 1SS133	For protection of static electricity	
IC100	HSS104 or 1SS133	For protection of static electricity	

Microprocessor and back-up condenser of this unit

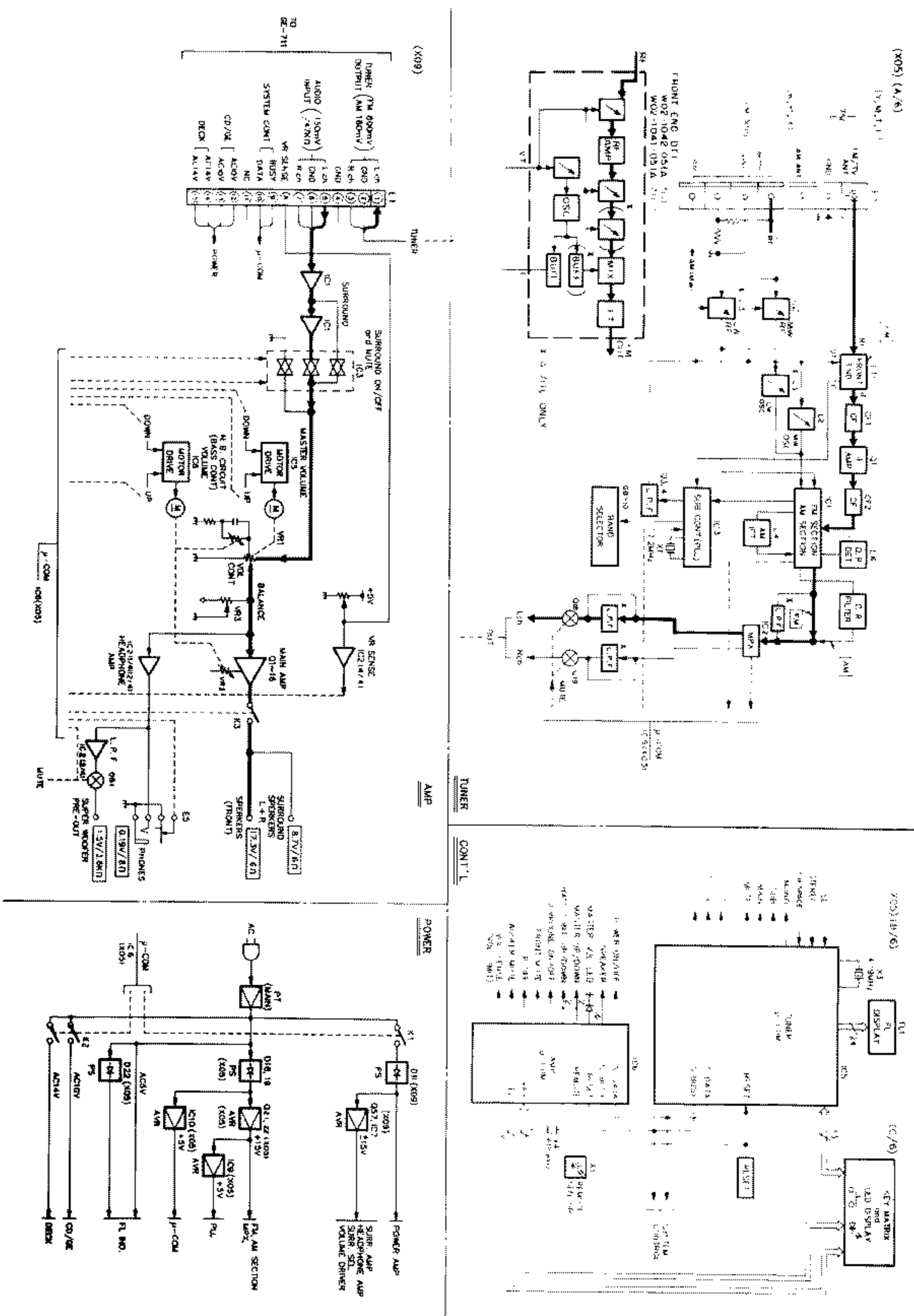
CIRCUIT DESCRIPTION



Initialization (reset) of each microprocessor and test mode

Back-up Condenser	Initialization (Reset)	Operation	Release	Contents
IC5 (X05) C90 0.047F 5.5V	Insert the AC plug into the outlet while pressing the "ENTER" key from the outlet and pull out the AC plug.	While simultaneously pressing the selector "CD" and turning "DOWN" keys, insert AC plug into the outlet and simultaneously touch off the keys "FLAT" key.	Press either one of ten keys, "BAND" or "UP/DOWN" keys.	Turn AC on and off without pressing any key.
IC6 (X05) C136 0.047F 5V	Turn on AC while pressing the "ENTER" key for more than three seconds per selector turns out to GE.	Turn on AC while pressing the "ENTER" key for details, see the test mode for details. There is no adjustment for -15 (dB).	There is also the "FLAT" key.	For details, see the service manuals of various equipment. No FL tube.
IC18 (X11) C118 19 (X11)	Turn on AC while pressing the "ENTER" key for more than three seconds per selector turns out to GE.	Turn on AC while pressing the "ENTER" key for details, see the test mode for details. There is no adjustment for -15 (dB).	There is also the "FLAT" key.	For details, see the service manuals of various equipment. No FL tube.
IC19 (X11) C222 0.047F 5V	Turn on AC while pressing the "ENTER" key for more than three seconds per selector turns out to GE.	Turn on AC while pressing the "ENTER" key for details, see the test mode for details. There is no adjustment for -15 (dB).	There is also the "FLAT" key.	For details, see the service manuals of various equipment. No FL tube.
IC1 (X28) C222 0.047F 6.3V	Turn on AC while pressing the "ENTER" key for more than three seconds per selector turns out to GE.	Turn on AC while pressing the "ENTER" key for details, see the test mode for details. There is no adjustment for -15 (dB).	There is also the "FLAT" key.	For details, see the service manuals of various equipment. No FL tube.
IC4 (X32) None	Turn on AC while pressing the "ENTER" key for more than three seconds per selector turns out to GE.	Turn on AC while pressing the "ENTER" key for details, see the test mode for details. There is no adjustment for -15 (dB).	There is also the "FLAT" key.	For details, see the service manuals of various equipment. No FL tube.

BLOCK DIAGRAM



Function of components

Tuner unit (X05-3992-71)

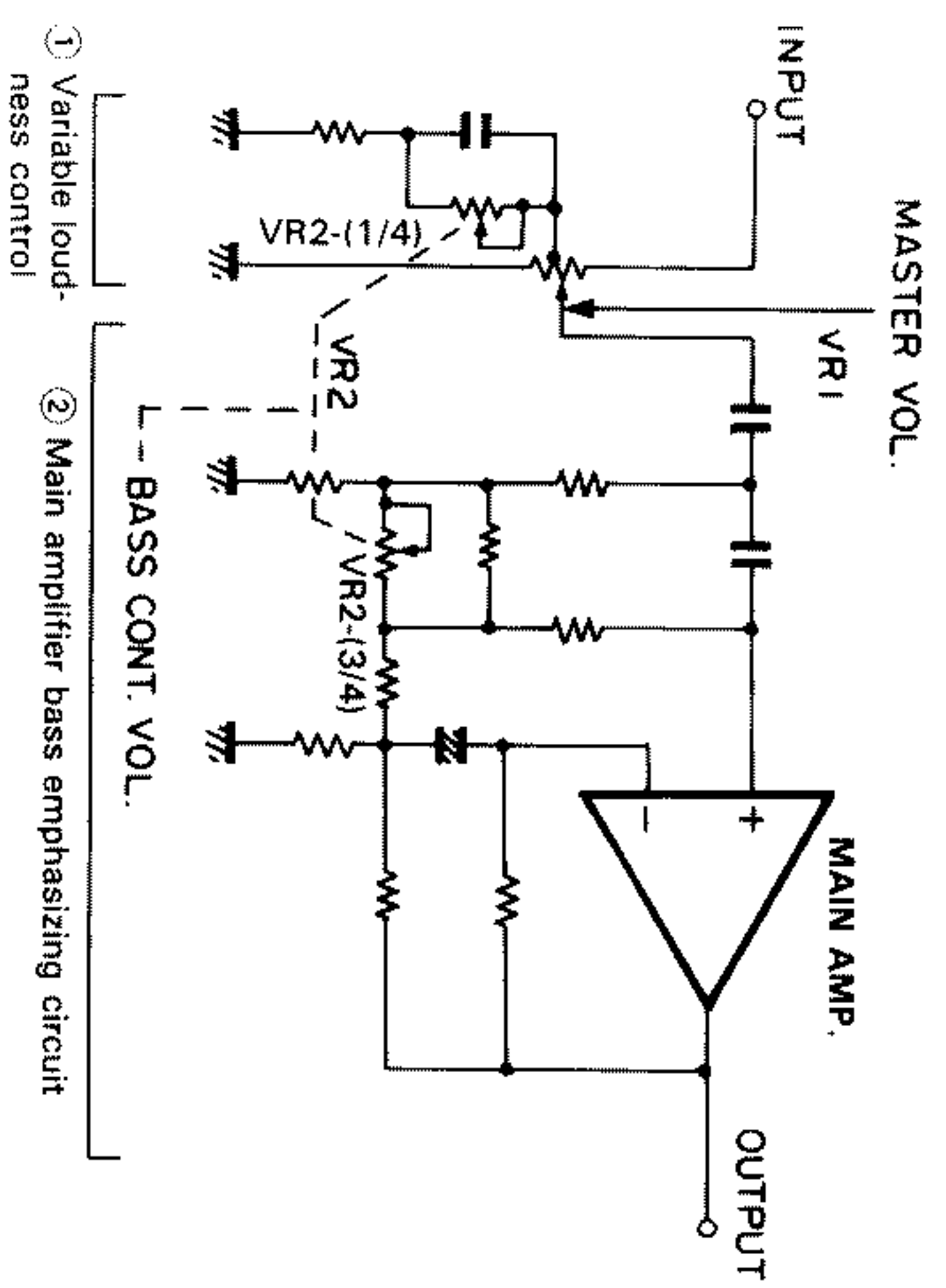
CIRCUIT DESCRIPTION

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) PLL IC	FM stereo multiplex
IC3	LM7001	PLL IC	PLL
IC5	CP50112-1270	Tuner microprocessor	Tuner control, tuner operation and control of others
IC6	PD7356ACU-232	Amplifier microprocessor	Amplifier control
IC7	PT529D	Reset IC	Generates the reset power source.
IC9	PC7805HF or AN7805F	+5V 3-terminal regulator	+5V rectification
IC10	PC7805HF or AN7805F	+5V 3-terminal regulator	+5V rectification
Q1	2SC1923R(Q)	IF amplification SW	At the time of LW reception, OFF
Q2	2SK1631(M)	PLL time constant conversion	At the time of LW reception, OFF
Q3	2SC945A(H,Q,P) or 2SC1740S(Q,R)	L.P.F. for PLL (integration type)	At the time of LW conversion
Q4	2SC1845F(E)	L.P.F. for PLL (integration type)	At the time of MW conversion
Q5	2SC945A(H,Q,P) or 2SC1740S(Q,R)	MW/LW conversion	At the time of MW: ON
Q6	2SC945A(H,Q,P) or 2SC1740S(Q,R)	MW/LW conversion	At the time of LW: ON
Q7	2SC945A(H,Q,P) or 2SC1740S(Q,R)	Buffer	Buffer for FM detecting output (for L.P.F. matching)
Q8	2SA733A(H,Q,P) or 2SA833S(Q,R)	FM + B conversion	At the time of receiving FM: ON
Q9	2SA733A(H,Q,P) or 2SA833S(Q,R)	LW + B conversion	At the time of receiving LW: ON
Q10	2SA733A(H,Q,P) or 2SA833S(Q,R)	MW + B conversion	At the time of receiving MW: ON
Q11	2SC945A(H,Q,P) or 2SC1740S(Q,R)	Deemphasis conversion	At the time of Tr. ON: 75 μsec
Q12	2SC945A(H,Q,P) or 2SC1740S(Q,R)	Deemphasis conversion	At the time of Tr. ON: 75 μsec
Q13	2SC945A(H,Q,P) or 2SA1740S(Q,R)	Reversing circuit	Controls reset circuit (Tuner μ-COM)
Q14	2SA733A(H,Q,P) or 2SA833S(Q,R)	Reversing circuit	Controls reset circuit (Amplifier μ-COM)
Q15	2SA733A(H,Q,P) or 2SA833S(Q,R)	Reversing circuit	Reverses the mute signal from the amplifier microprocessor
Q16	2SA733A(H,Q,P) or 2SA833S(Q,R)	Reversing circuit	Reverses the mute signal from the tuner microprocessor
Q17	2SA733A(H,Q,P) or 2SA833S(Q,R)	Destination Conversion SW	Converts deemphasis and channel space
Q18	2SD1302S(T)	Mute	Mute SW of Lch
Q19	2SC1302S(T)	Mute	Mute SW of Hch
Q21	2SC1266(Q,P)	+14V rectification	Generates the stabilized power source for 14V
Q22	2SC945A(H,Q,P) or 2SC1740S(Q,R)		
Q23	2SC945A(H,Q,P) or 2SC1740S(Q,R)		

CIRCUIT DESCRIPTION

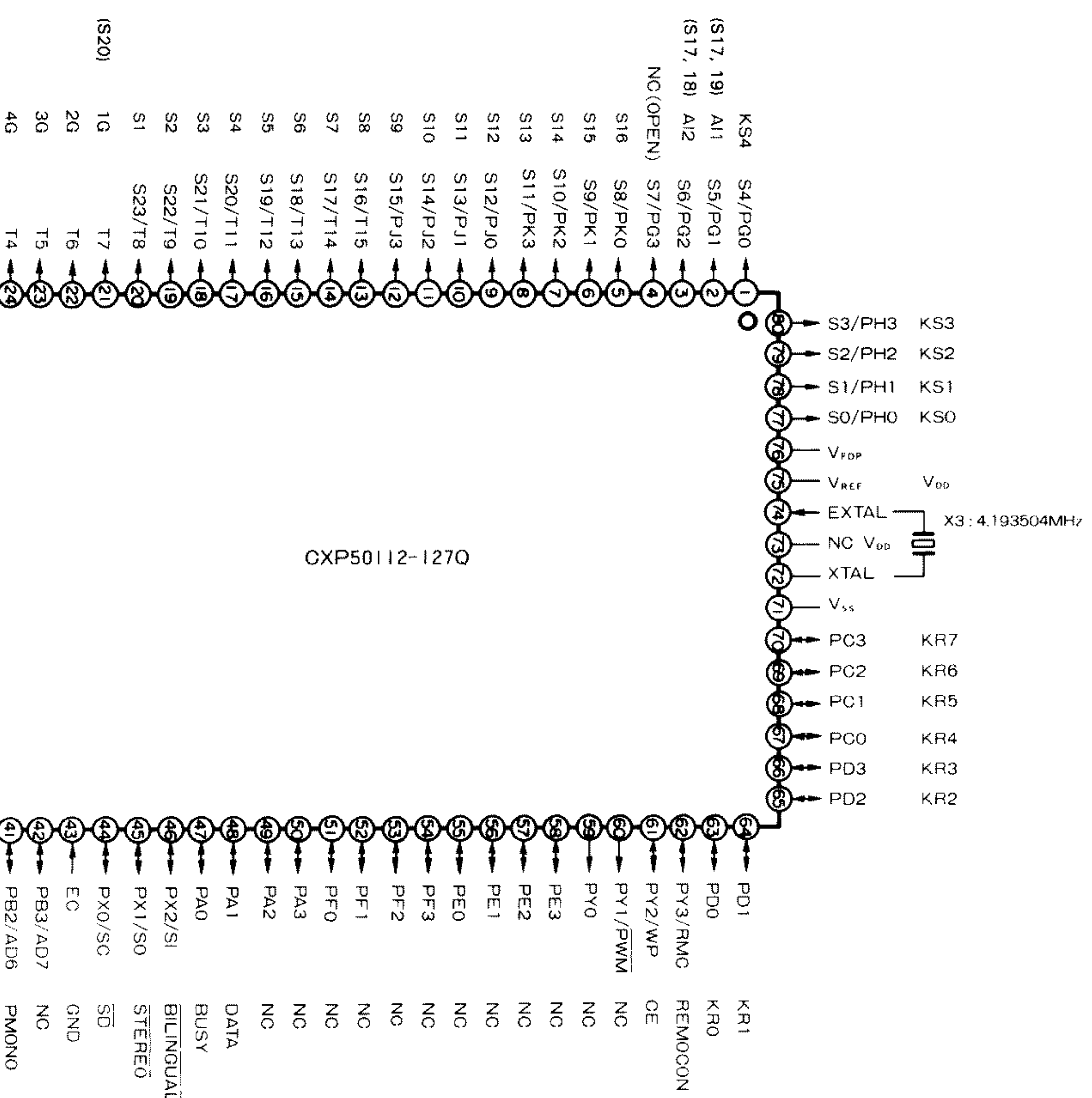
N.B. CIRCUIT (X09-3142-71 (B/5))
 The N.B. of N.B. CIRCUIT stands for Natural Bass, and it is the circuit to create further natural bass sound.
 It is roughly composed of ① Variable loudness control and ② Main amplifier bass emphasizing circuit showed in the chart.
 The ① Variable loudness control in 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-7111/711L 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.



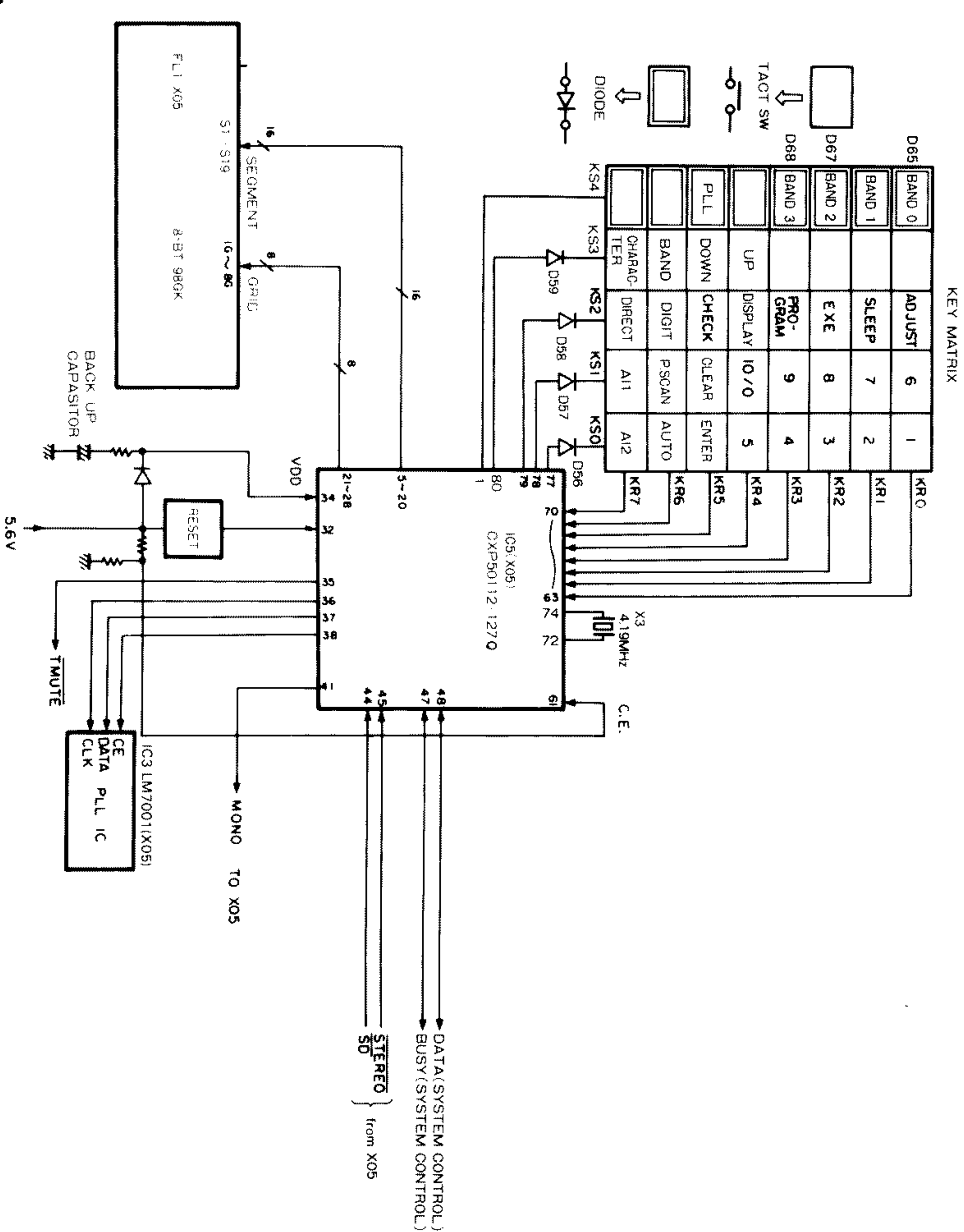
CIRCUIT DESCRIPTION

Pin connections



IC5: CXP50112-127Q (X05-3992-71)
TUNER microprocessor

Terminal connection diagram & key matrix connection



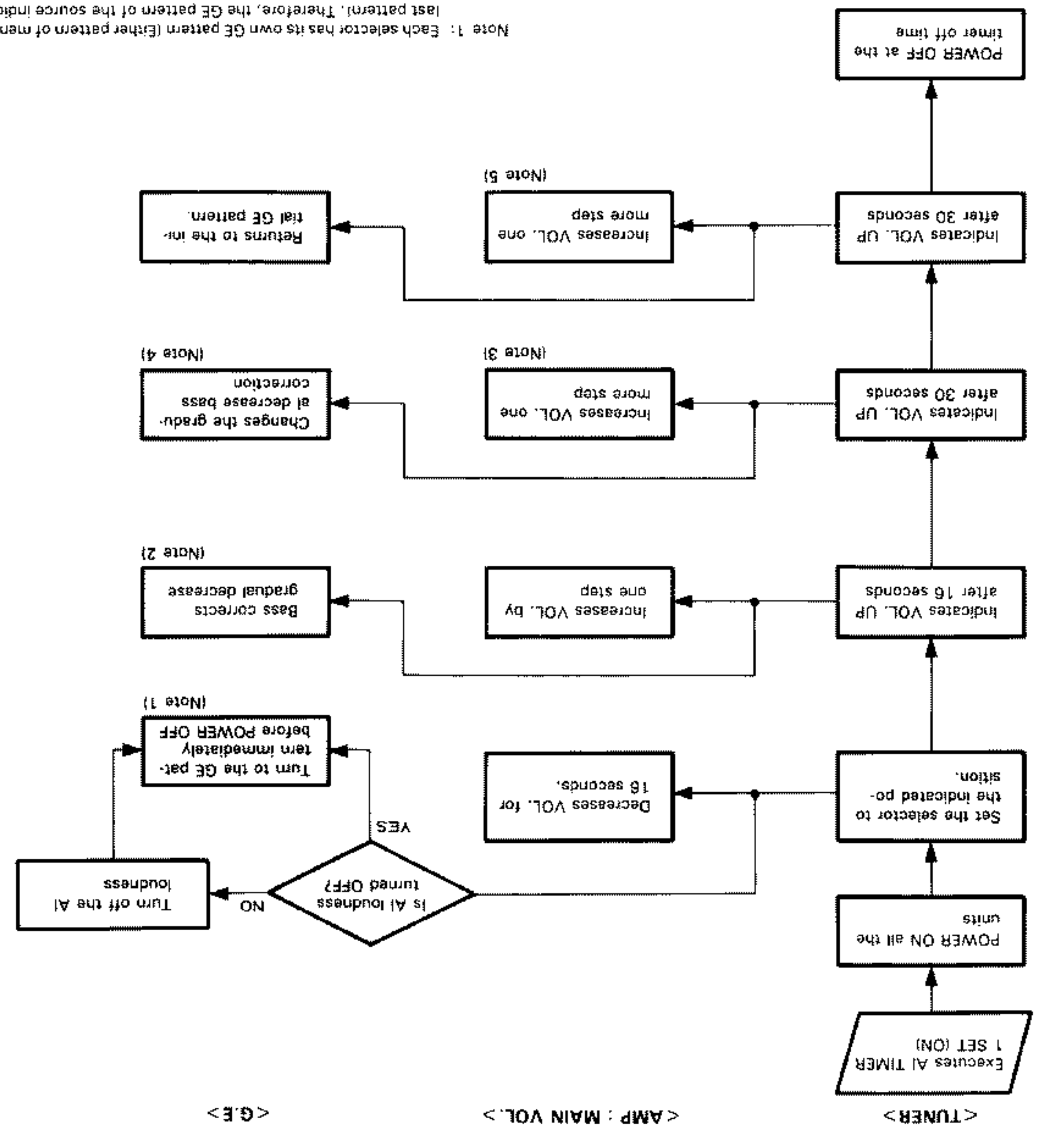
Note 1: Each selector has its own GE pattern (either pattern of memory and last pattern). Therefore, the GE pattern of the source indicated by the timer appears.

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.



② Indication flow of AI TIMER 1

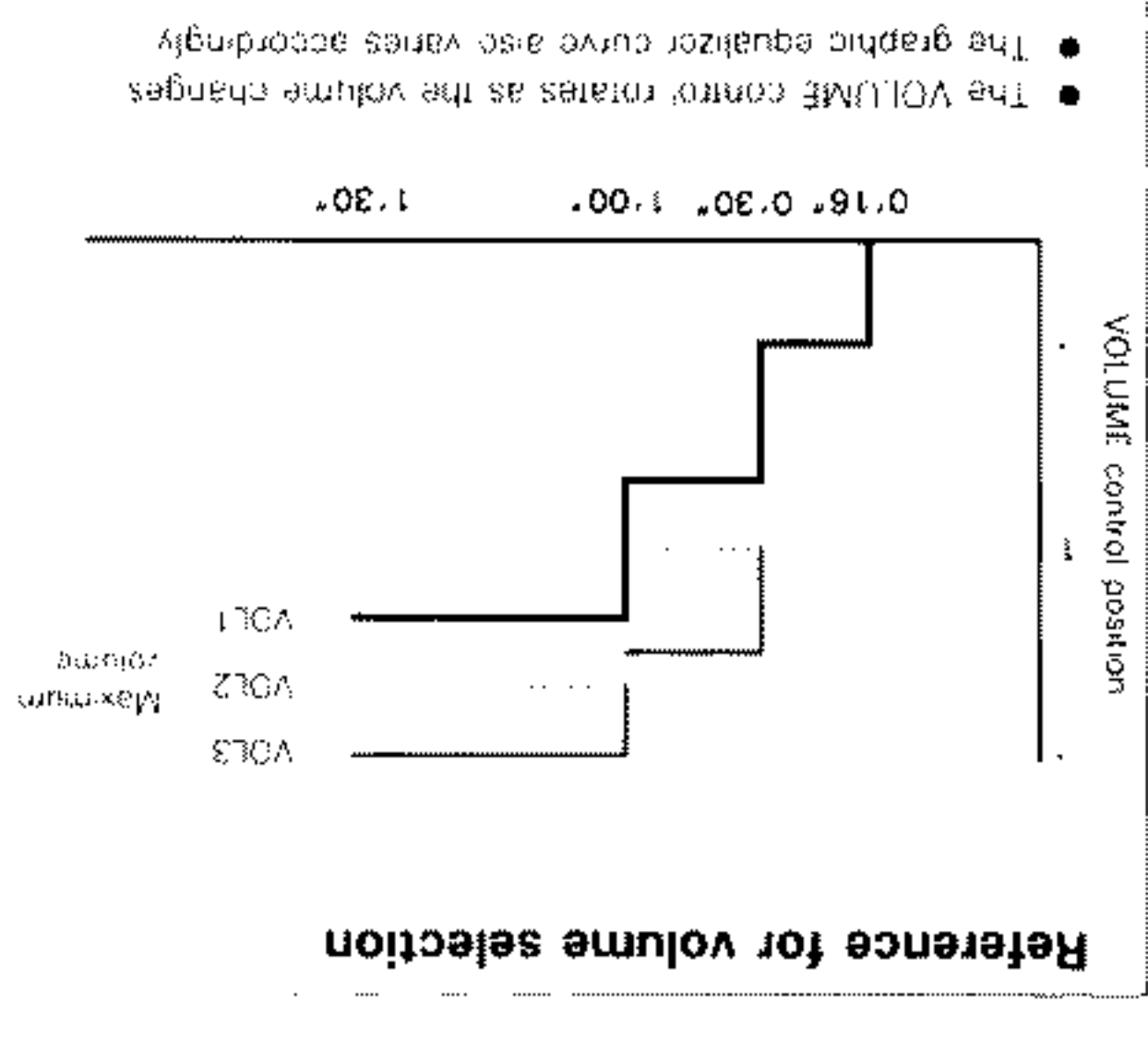
CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Symbol	Description
1	S4/FG0	O	KS4	Key scan output
2	S5/FG1	O	A11	A11 ON/OFF FL segment output (S17, 19)
3	S6/FG2	O	A12	A12 ON/OFF FL segment output (S17, 18)
4	S7/FG3	NC		
5	S8/PK0	O	S8	FL segment output
6	S9/PK1	O	S9	FL segment output
7	S10/PK2	O	S10	FL segment output
8	S11/PK3	O	S11	FL segment output
9	S12/PJ0	O	S12	FL segment output
10	S13/PJ1	O	S13	FL segment output
11	S14/PJ2	O	S14	FL segment output
12	S15/PJ3	O	S15	FL segment output
13	S16/TJ4	O	S16	FL segment output
14	S17/TJ4	O	S17	FL segment output
15	S18/TJ3	O	S18	FL segment output
16	S19/TJ2	O	S19	FL segment output
17	S20/TJ1	O	S20	FL segment output
18	S21/TJ0	O	S21	FL segment output
19	S22/TJ9	O	S22	FL segment output
20	S23/TJ8	O	S23	FL segment output
21	T7	O	T7	FL gnd output
22	T6	O	T6	FL gnd output
23	T5	O	T5	FL gnd output
24	T4	O	T4	FL gnd output
25	T3	O	T3	FL gnd output
26	T2	O	T2	FL gnd output
27	T1	O	T1	FL gnd output
28	T0	O	T0	FL gnd output
29	INT	I	INT	External interrupt pin ... unused
30	TX	O	TX	Timer oscillation pin ... unused
31	TEX	I	TEX	Timer oscillation pin ... unused
32	RST	I	RESET	Reset input
33	NC		NC	
34	VDD			Power supply pin
35	PIO/AD0	O	TMUTE	Mute output
36	PI1/AD1	O	PLCK	Click to PLL or extension IC
37	PI2/AD2	O	PLDT	Data output to PLL or extension IC
38	PI3/AD3	O	PLST	Chip enable output for PLL
39	PB0/AD4	O	PMAIN	TV sound MPX selection output
40	PB1/AD5	O	PSUB	TV sound MPX selection output
41	PB2/AD6	O	PMONO	Stereo/monaural selection
42	PB3/AD7	O	NC	Event counter input ... unused
43	EC	I	EC	Event counter input ... unused
44	PX0/SC	I	SB	Tuning signal input
45	PX1/S0	I	ST	Stereo signal input

Pin functions

CIRCUIT DESCRIPTION

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



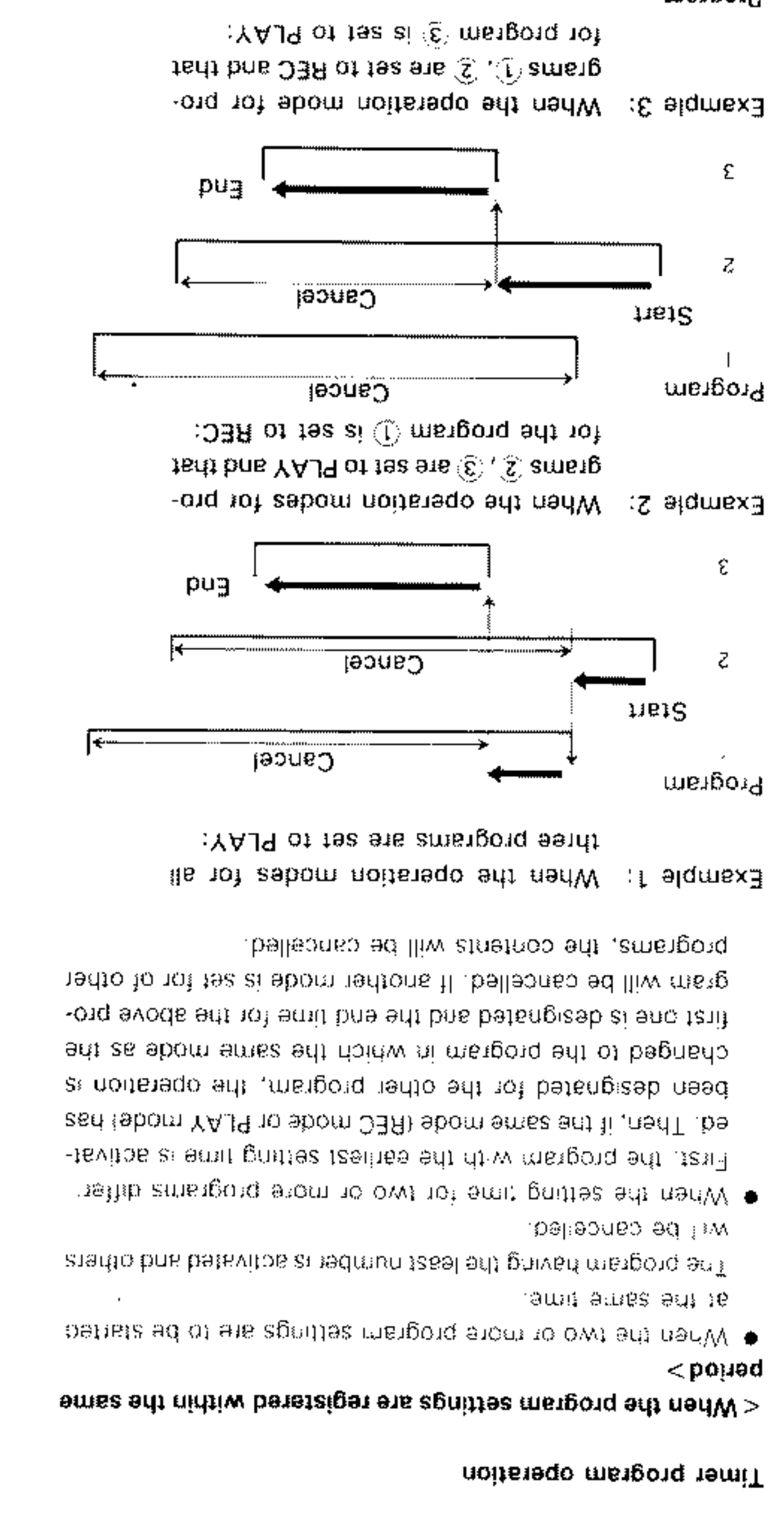
- When the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 1 is activated if the AI TIMER 1 is set to ON (the FL indicator is lit).
- When the AI TIMER 1 is turned ON, first playback starts with the minimum volume level, then the volume level is increased 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.
- When the key is pressed with the AI TIMER 1 is OFF (FL indicator is not lit):
 ① 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

Function description

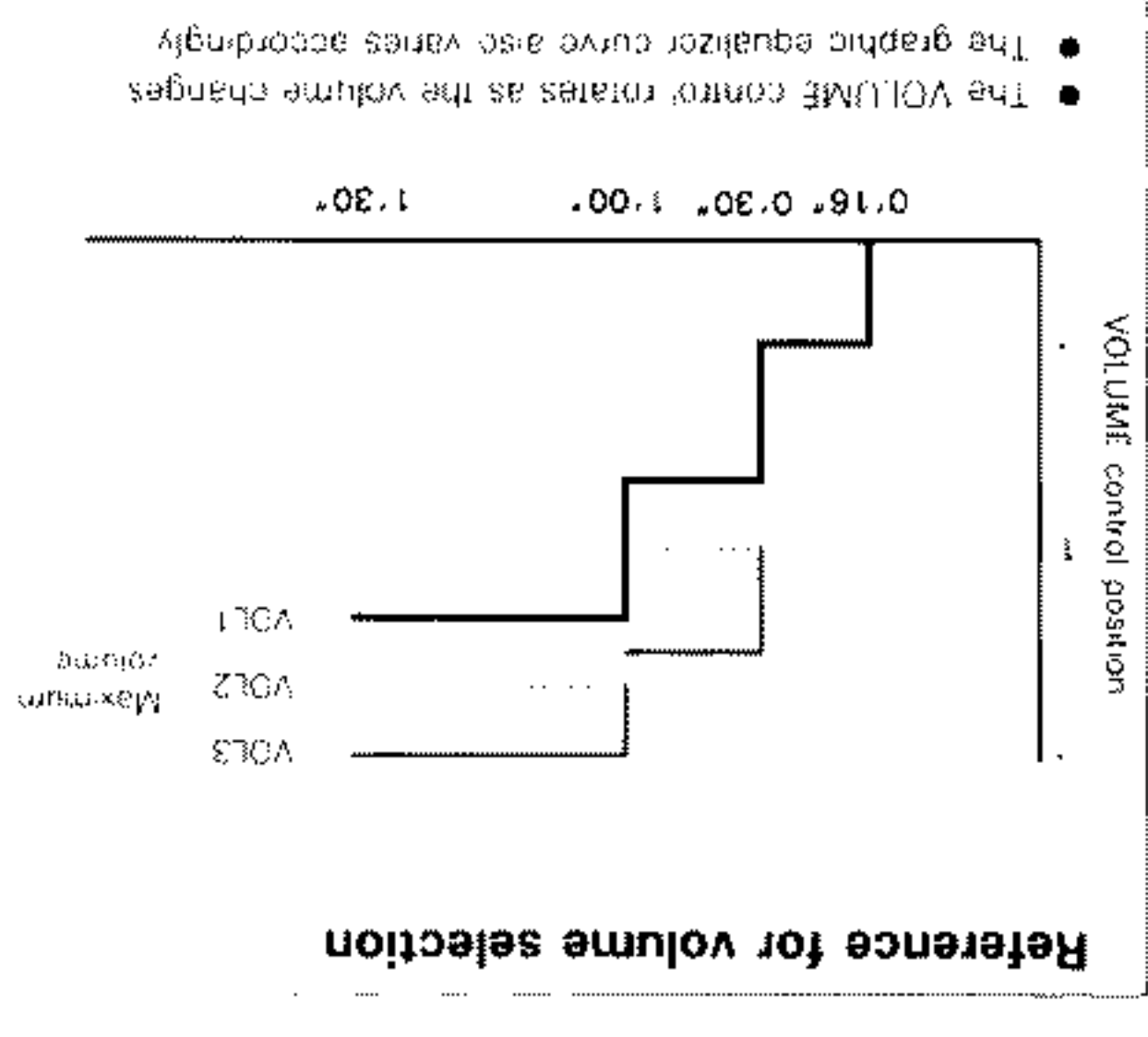
CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Symbol	Description
46	PX2/SI	I	BIL	Bilingual signal input
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	PA4	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	PA0	O	NC	
60	PY1/PWM	O	NC	
61	CE	I	CE	AC ON/OFF detection input
62	PY3/RMC	I	RMCON	Remote control input
63	PA0	I	KR0	Key return input
64	PD1	I	KR1	Key return input
65	PD2	I	KR2	Key return input
66	PD3	I	KR3	Key return input
67	PC0	I	KR4	Key return input
68	PC1	I	KR5	Key return input
69	PC2	I	KR6	Key return input
70	PC3	I	KR7	Key return input
71	VSS		XTAL	GND pin
72	XTAL	O	XTAL	For oscillator
73	NC		EXTAL	For oscillator
74	EXTAL	I	EXTAL	For oscillator
75	VHF		VHF	For voltage detection reset... unused
76	VDP		VDP	FL terminal pull-down resistor power supply
77	SO/PH0	O	KS0	Key scan output
78	SI/PH1	O	KS1	Key scan output
79	SZ/PH2	O	KS2	Key scan output
80	S3/PH3	O	KS3	Key scan output

CIRCUIT DESCRIPTION



- 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.



- 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.

Function description

CIRCUIT DESCRIPTION

Pin No.	Pin name	I/O	Symbol	Description
46	PX2/SI	I	BIL	Bilingual signal input
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	PA4	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	PA0	O	NC	
60	PY1/PWM	O	NC	
61	CE	I	CE	AC ON/OFF detection input
62	PY3/RMC	I	RMCON	Remote control input
63	PA0	I	KR0	Key return input
64	PD1	I	KR1	Key return input
65	PD2	I	KR2	Key return input
66	PD3	I	KR3	Key return input
67	PC0	I	KR4	Key return input
68	PC1	I	KR5	Key return input
69	PC2	I	KR6	Key return input
70	PC3	I	KR7	Key return input
71	VSS		XTAL	GND pin
72	XTAL	O	XTAL	For oscillator
73	NC		EXTAL	For oscillator
74	EXTAL	I	EXTAL	For oscillator
75	VHF		VHF	For voltage detection reset... unused
76	VDP		VDP	FL terminal pull-down resistor power supply
77	SO/PH0	O	KS0	Key scan output
78	SI/PH1	O	KS1	Key scan output
79	SZ/PH2	O	KS2	Key scan output
80	S3/PH3	O	KS3	Key scan output

CIRCUIT DESCRIPTION

Destination type	Destination switches				Band	Receiving frequency range	Intermediate frequency	PLL reference frequency
	B3	B2	B1	B0				
M.V.	1	1	0	0	FM	87.5 - 108.0 MHz	100 kHz	531 - 1602 kHz
J	0	0	0	0	FM	76.0 - 90.0 MHz	100 kHz	531 - 1602 kHz
					AM	531 - 1602 kHz	9 kHz	531 - 1602 kHz
K.P.	1	0	0	0	FM	87.5 - 108.0 MHz	100 kHz	531 - 1602 kHz
					AM	531 - 1602 kHz	10 kHz	531 - 1602 kHz
X	1	1	0	0	FM	87.5 - 108.0 MHz	50 kHz	531 - 1602 kHz
					AM	531 - 1602 kHz	9 kHz	531 - 1602 kHz
T.E.	1	1	1	0	FM	87.5 - 108.0 MHz	50 kHz	531 - 1602 kHz
					AM	531 - 1602 kHz	9 kHz	531 - 1602 kHz

Conditions by destination

Band	Destination	FM		AM		TV/LW	
		1	2	3	4	5	6
87.5 MHz	87.5 MHz	100.1 MHz	100.1 MHz	100.1 MHz	100.1 MHz	100.1 MHz	100.1 MHz
88.1 MHz	88.1 MHz	102.0 MHz	102.0 MHz	102.0 MHz	102.0 MHz	102.0 MHz	102.0 MHz
89.1 MHz	89.1 MHz	106.0 MHz	106.0 MHz	106.0 MHz	106.0 MHz	106.0 MHz	106.0 MHz
90.0 MHz	90.0 MHz	108.0 MHz	108.0 MHz	108.0 MHz	108.0 MHz	108.0 MHz	108.0 MHz
98.0 MHz	98.0 MHz	98.0 MHz	98.0 MHz	98.0 MHz	98.0 MHz	98.0 MHz	98.0 MHz
99.0 MHz	99.0 MHz	92.0 MHz	92.0 MHz	92.0 MHz	92.0 MHz	92.0 MHz	92.0 MHz
990 kHz	990 kHz	94.0 MHz	94.0 MHz	94.0 MHz	94.0 MHz	94.0 MHz	94.0 MHz
1602 kHz	1602 kHz	80.0 MHz	80.0 MHz	80.0 MHz	80.0 MHz	80.0 MHz	80.0 MHz
1700 kHz	1700 kHz	88.0 MHz	88.0 MHz	88.0 MHz	88.0 MHz	88.0 MHz	88.0 MHz
270 kHz	270 kHz	83.0 MHz	83.0 MHz	83.0 MHz	83.0 MHz	83.0 MHz	83.0 MHz
281 kHz	281 kHz	82.0 MHz	82.0 MHz	82.0 MHz	82.0 MHz	82.0 MHz	82.0 MHz
350 kHz	350 kHz	81.0 MHz	81.0 MHz	81.0 MHz	81.0 MHz	81.0 MHz	81.0 MHz
620 kHz	620 kHz	76.0 MHz	76.0 MHz	76.0 MHz	76.0 MHz	76.0 MHz	76.0 MHz

(1) Setting method
Insert the AC plug into an outlet and remove your fingers from DOWN key at the same time while pressing DOWN key.

(2) Contents
POWER ON
All the FLS turned on
Test Frequency Setting (Table 1)

(3) Clearing method
All the turned on FLS can be cleared with ten keys, BAND key, UP/DOWN key or POWER key.

(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 back-up data is NG.)

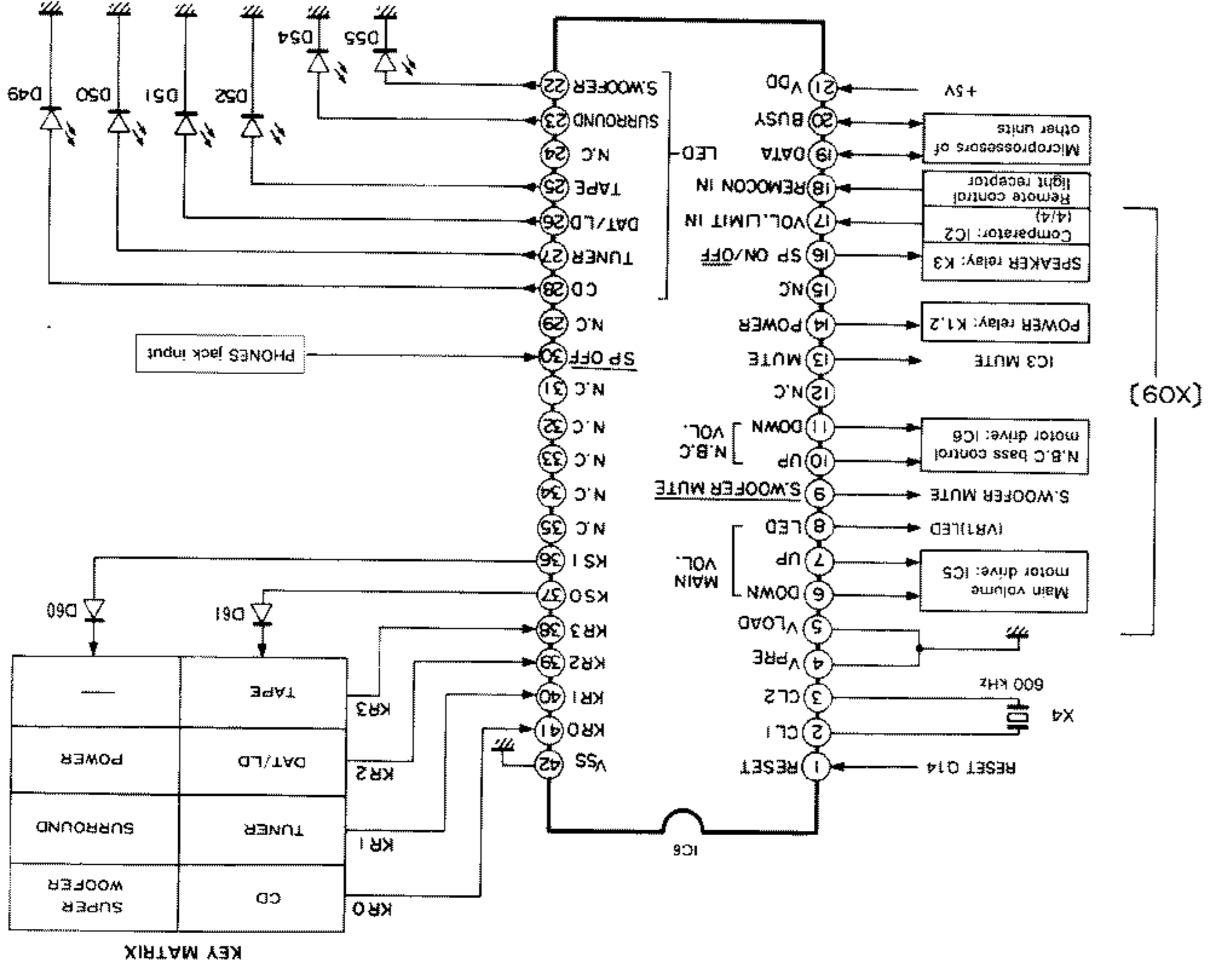
CIRCUIT DESCRIPTION

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Pin No.	Pin name	I/O	Description
1	RESET	I	Reset input (H: Reset)
2	CL1	I	System clock terminal
3	CL2	I	System clock terminal
4	Vcc4	-	No use. (GND)
5	Vcc5	-	No use. (GND)
6	P53	O	Motor volume down drive
7	P52	O	Motor volume up drive
8	P51	O	Volume indicator LED drive
9	P50	O	Super woofer mute
10	P23	O	N.B. circuit volume up drive
11	P22	O	N.B. circuit volume down drive
12	P21/PTOUT	-	No use. (OPEN)
13	P103	O	MUTE
14	P102	O	POWER
15	P101	-	No use. (GND)
16	P100	O	Speaker ON/OFF conversion
17	P113	I	Volume position detection input
18	P112	I	VOL LIMIT IN
19	P111	I/O	DATA
20	P110	I/O	BUSY
21	Vcc6	-	Power supply pin
22	P93	O	S WOOFER
23	P92	O	SURROUND
24	P91	-	No use. (OPEN)
25	P90	O	TAPE
26	P83	O	DATA/LD LED drive
27	P82	O	TUNER LED drive
28	P81	O	CD
29	P80	-	No use. (OPEN)
30	P43	I	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	O	Key scan output signal 1
37	P30	O	Key scan output signal 0
38	P03/S1	I	Key return input signal 3
39	P02/S0	I	Key return input signal 2
40	P01/SCK	I	Key return input signal 1
41	P00/INTC	I	Key return input signal 0
42	VSS	-	GND pin

CIRCUIT DESCRIPTION

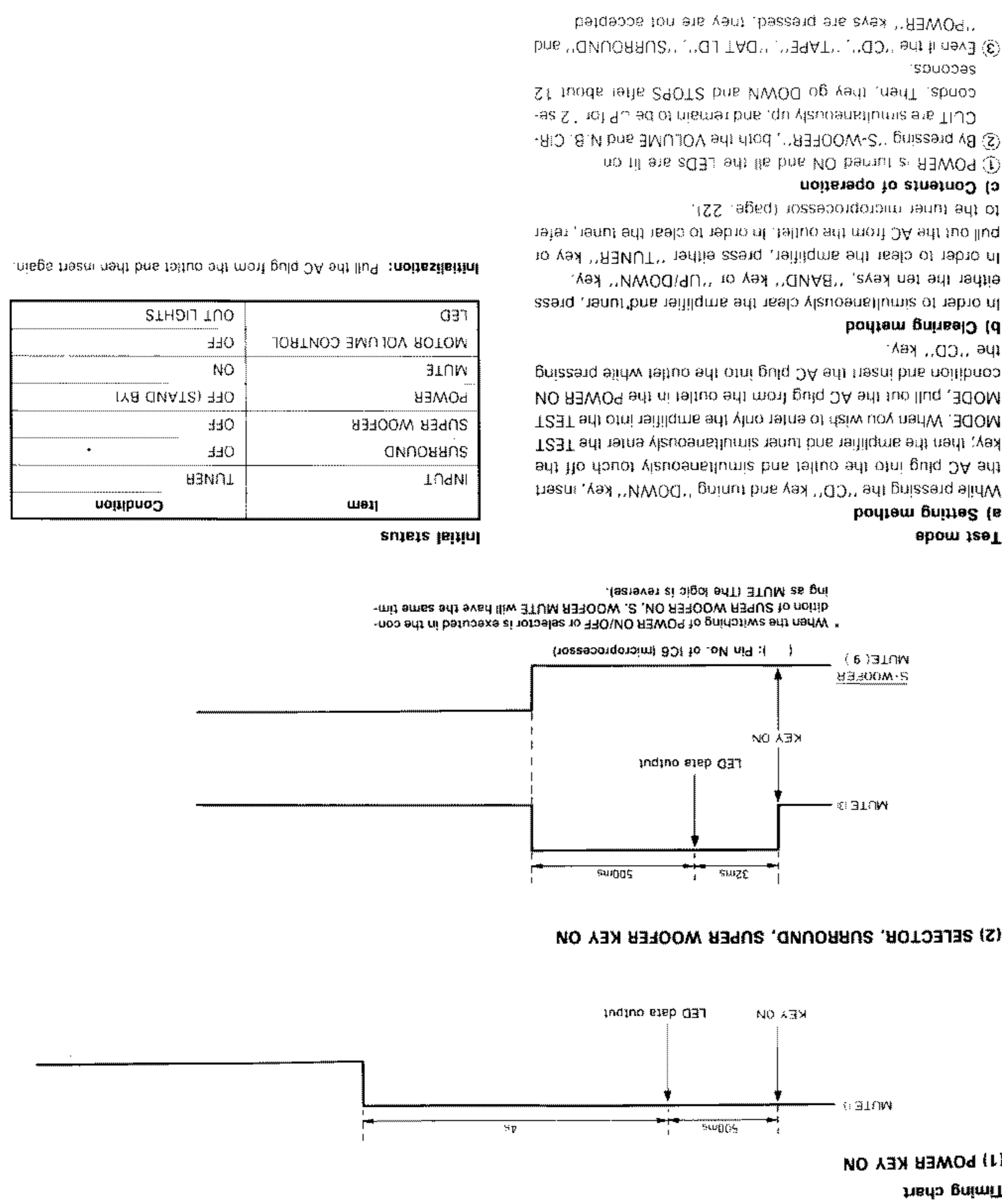
A-711/711L



Terminal connection diagram & key matrix connection
IC6: #PD7538ACU-232 (X05-3992-71)
AMP, microprocessor

CIRCUIT DESCRIPTION

A-711/711L

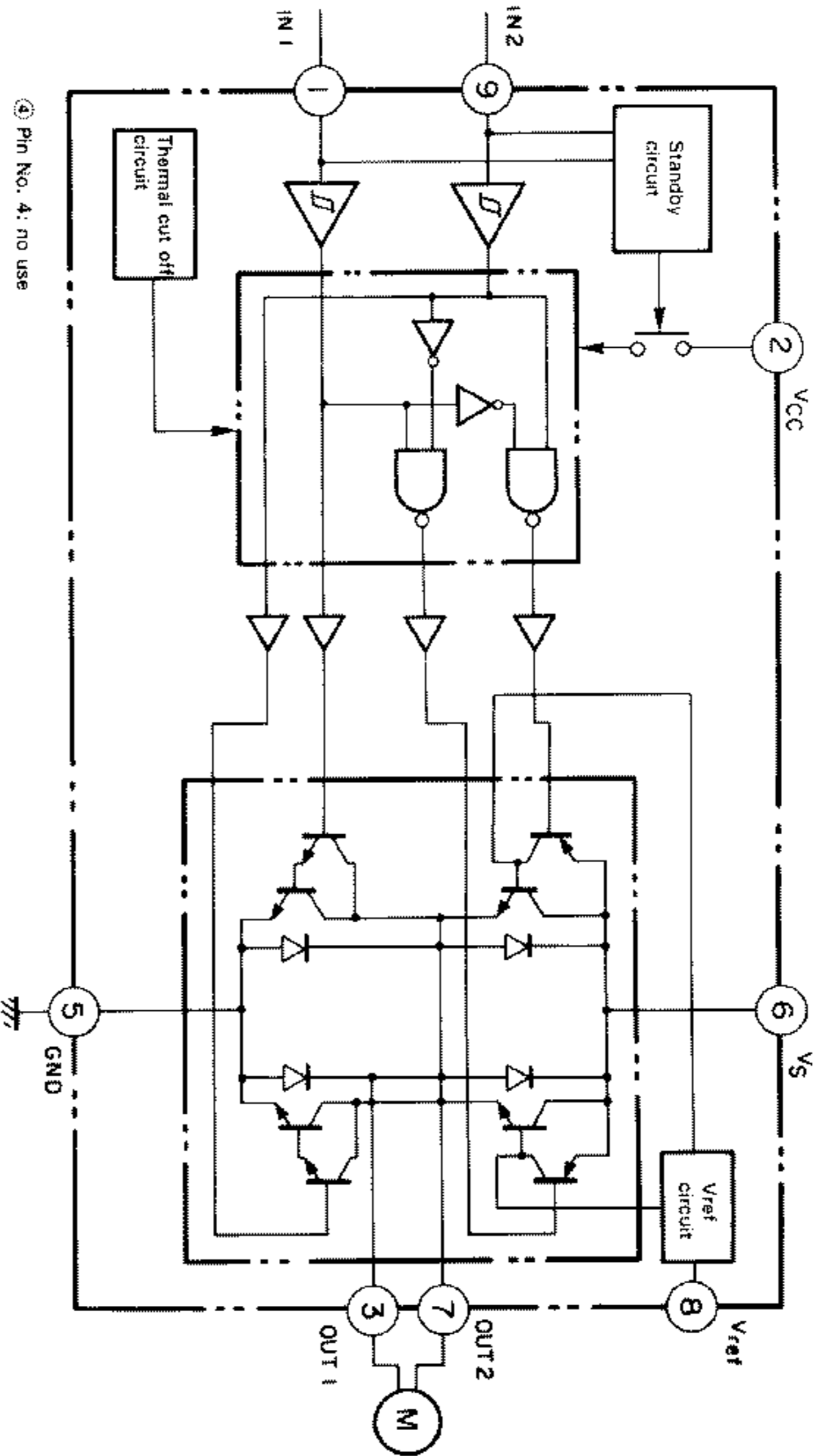


CIRCUIT DESCRIPTION

A-711/711L

IC5, 6: TA8409S (X09-3142-71)
Volume motor drive IC

Block diagram



Truth table

INPUT	OUTPUT	MODE
IN 1	OUT 1	Pin No. of IC5, 6 Motor mode
IN 2	OUT 2	STOP
0	∞	CW
1	L	CCW
∞	L	BRAKE

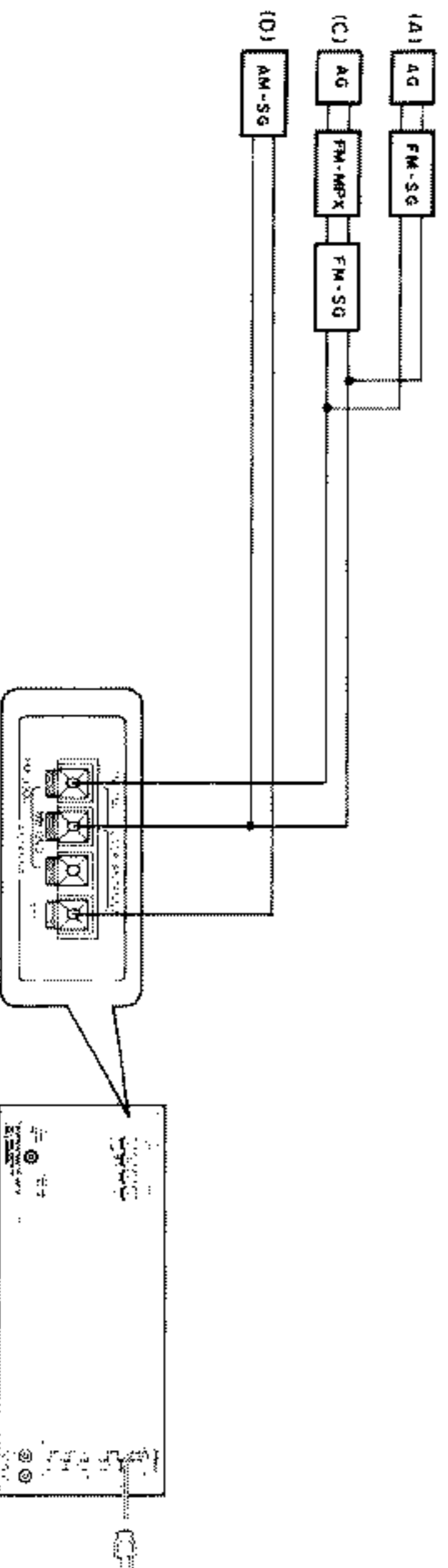
∞: High impedance
Input "H": active

Tuner unit

† If alignment point is "...", confirm the value.
‡ If not, replace the front-end pack and TCA8403 (P1.3)

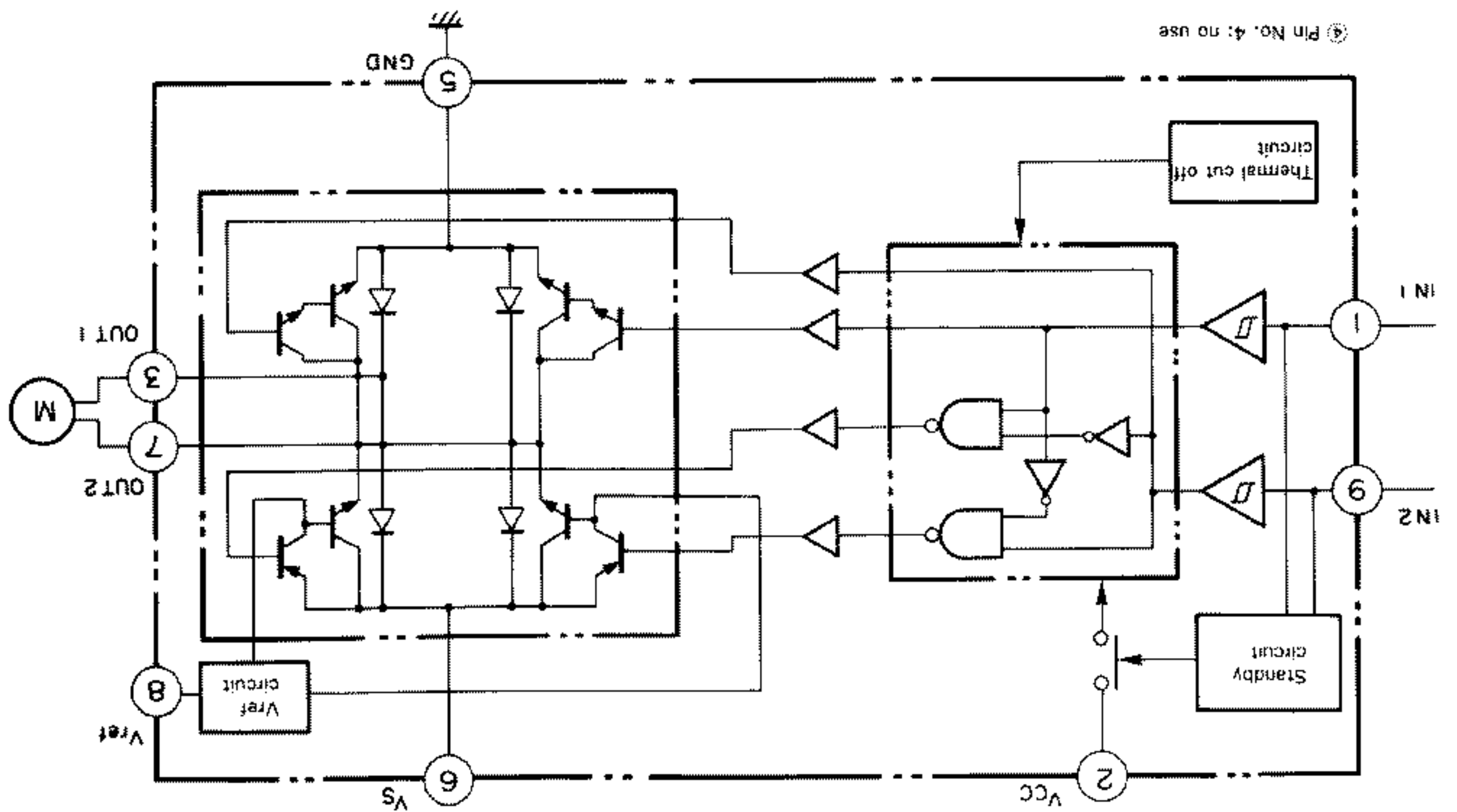
No.	ITEM	SETTING	REF. POINT	ALIGNMENT POINTS	ALIGN. P.N.	FIG.
1	BAND EDGE (1)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	RP1 (100%)	1.6V	(a)
2	BAND EDGE (2)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	RP2 (100%)	8.0V	(a)
3	DISCRIMINATOR	98.0MHz 1kHz, 75kHz dev 600μA(I) (input)	Connect a DC voltmeter between TP11 and TP12	RP3 (100%)	0V	(b)
4	VCO	98.0MHz 0 dev 1000μA(I) (input)	Connect a frequency counter between TP5 and GND	RP4 (100%)	19.0MHz	(c)
5	DISCRETION (STEREO)	98.0MHz 1kHz, 56.25kHz dev P1: 0.25, 75kHz dev S1: 0.25, 75kHz dev	(d)	RP1 (100%)	Minimum distortion.	
6	SEPARATION (E.J. type only)	98.0MHz Stereo signal 600μA(I) (input)	(d)	RP3 (100%)	Minimum cross-talk.	
7	TUNING LEVEL	98.0MHz 9 dev 1400μA(I) (input), 750	Keep the AM loop antenna installed.	RP1 (100%) RP2 (100%)	Adjust RP1 and stop at the point where B(LITENED) goes on.	
(1)	BAND EDGE (1)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	RP1 (100%)	1.3V	(a)
(2)	BAND EDGE (2)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	RP2 (100%)	1.0V	(a)
(3)	RF ALIGNMENT	990kHz 400Hz, 30% mod 1400μA(I) (input)	(d)	RP2 (100%)	Maximum amplitude and symmetry of the oscilloscope display.	
AM-FM SELECTION (E.J. type only) Keep the AM loop antenna installed. SELECTOR: LF						
(4)	BAND EDGE (1)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	RP1 (100%)	2.3V	(a)
(5)	BAND EDGE (2)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	RP2 (100%)	1.0V	(a)
Repeat alignments (4) and (5) several times.						
(6)	RF ALIGNMENT	215kHz 100Hz, 50% mod 1300μA(I) (input)	(d)	RP1 (100%)	Maximum amplitude and symmetry of the oscilloscope display.	

Connection



Truth table

MODE	INPUT	OUTPUT
Motor mode	IN 1	OUT 1
	IN 2	OUT 2
	IN 1, 2	OUT 1, 2
	IN 1, 2	STOP
CCW	IN 1	L
	IN 2	L
CW	IN 1	L
	IN 2	L
BRAKE	IN 1	L
	IN 2	L
High impedance	IN 1, 2	L



IC5, 6: TA8409S (X09-3142-71)
Volume motor drive IC

CIRCUIT DESCRIPTION

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Note (a) As regards the positive (+) side of the frequency counter, arrange as short a distance as possible between pin 74 of IC5 and 1P of the input stage of the counter.

Adjustment method (Use a high-impedance buffer to avoid frequency deviation.)

(2) Even if within the standard, for further improved accuracy, change the constant of C99 in the crystal oscillator circuit of microprocessor IC5 and add a trimmer.

(1) If the timer accuracy is within the standard, replace X3 by the frequency counter; when the result of measurement at pin 74 of the microprocessor IC on a printed board (X05-).

(3) Monthly error calculation method

For example, when the result of measurement at pin 74 by the frequency counter is $f_x = 4,194,275$ Hz...

Reference frequency $f_0 = 4,194,304$ [Hz]

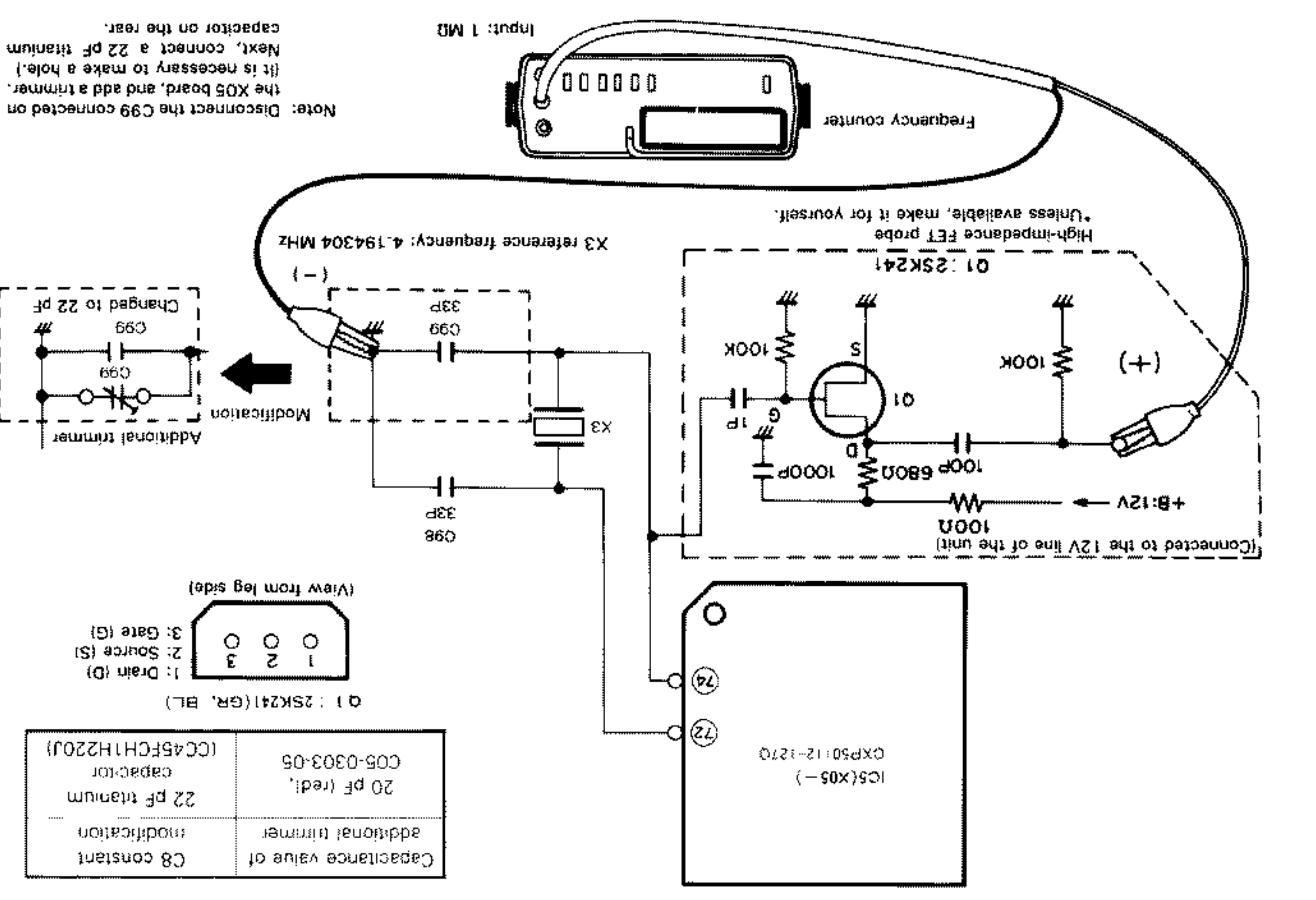
Monthly error [sec] = $\frac{f_0}{f_x - f_0} \times$ the number of seconds taken for one month

$= \frac{4,194,304}{4,194,275 - 4,194,304} \times 4,194,304$

$= 60 \times 60 \times 24 \times 30$

$\times 17.9$ [sec]

* A minus value as the monthly error means a loss.



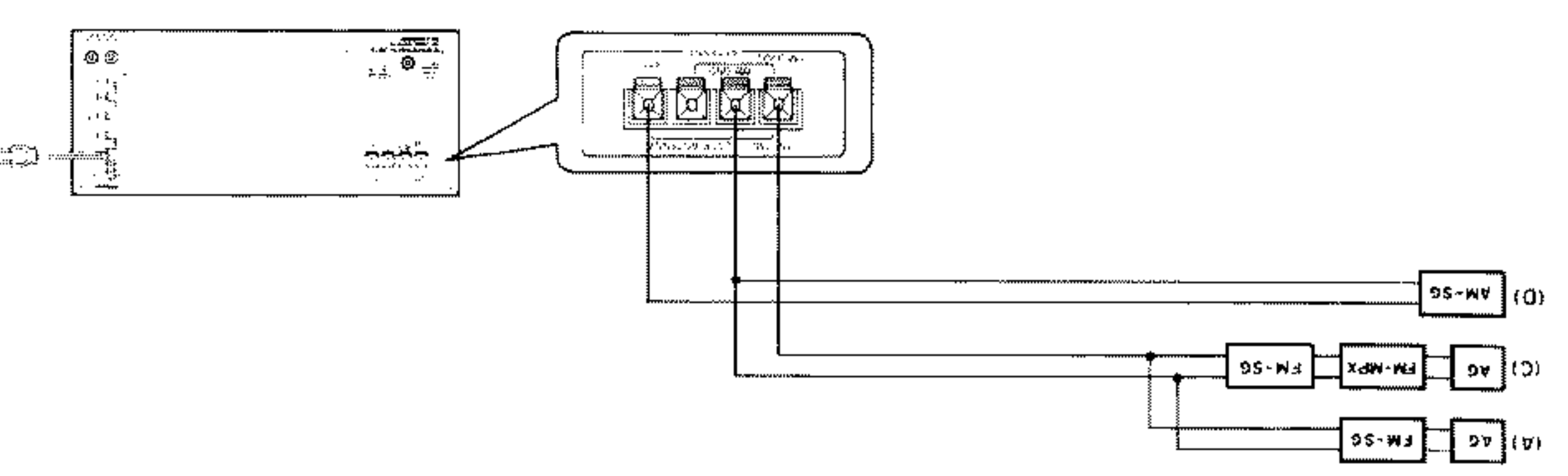
ADJUSTMENT

A-711/711L

Tuner unit

Pin	Function	Setting	Adjustment
1	Band Edge (1)	87.5MHz	1.5V
2	Band Edge (2)	108.0MHz	8.0V
3	Discriminator	1MHz, 1.5MHz dev	0V
4	VCO	100MHz (VT input)	13.0MHz
5	Distortion	1MHz, 1.5MHz dev	0V
6	Separation	98.0MHz	0V
7	Tuning Level	98.0MHz	0V

Connection



ADJUSTMENT

A-711/711L

VOLTAGE TABLES

TUNER UNIT (X05-399X-XX)

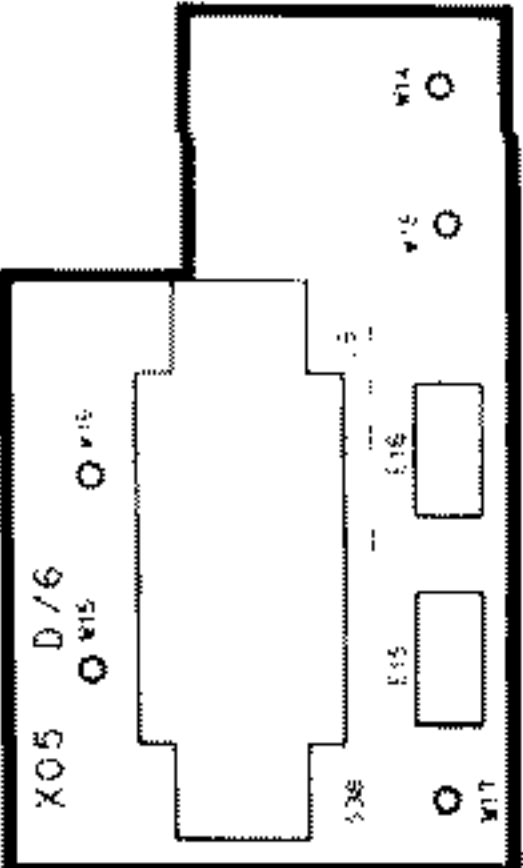
Pin	Function	Setting	Adjustment
1	Band Edge (1)	87.5MHz	1.5V
2	Band Edge (2)	108.0MHz	8.0V
3	Discriminator	1MHz, 1.5MHz dev	0V
4	VCO	100MHz (VT input)	13.0MHz
5	Distortion	1MHz, 1.5MHz dev	0V
6	Separation	98.0MHz	0V
7	Tuning Level	98.0MHz	0V

AUDIO UNIT (X09-314X-XX)

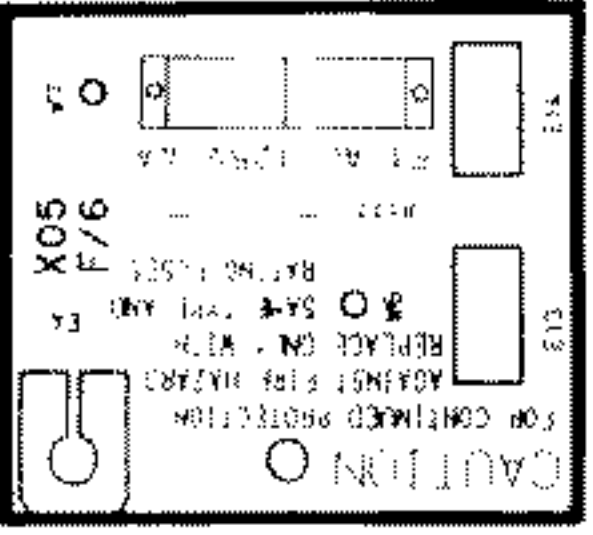
Pin	Function	Setting	Adjustment
1	Band Edge (1)	87.5MHz	1.5V
2	Band Edge (2)	108.0MHz	8.0V
3	Discriminator	1MHz, 1.5MHz dev	0V
4	VCO	100MHz (VT input)	13.0MHz
5	Distortion	1MHz, 1.5MHz dev	0V
6	Separation	98.0MHz	0V
7	Tuning Level	98.0MHz	0V

PC BOARD (Component side view)

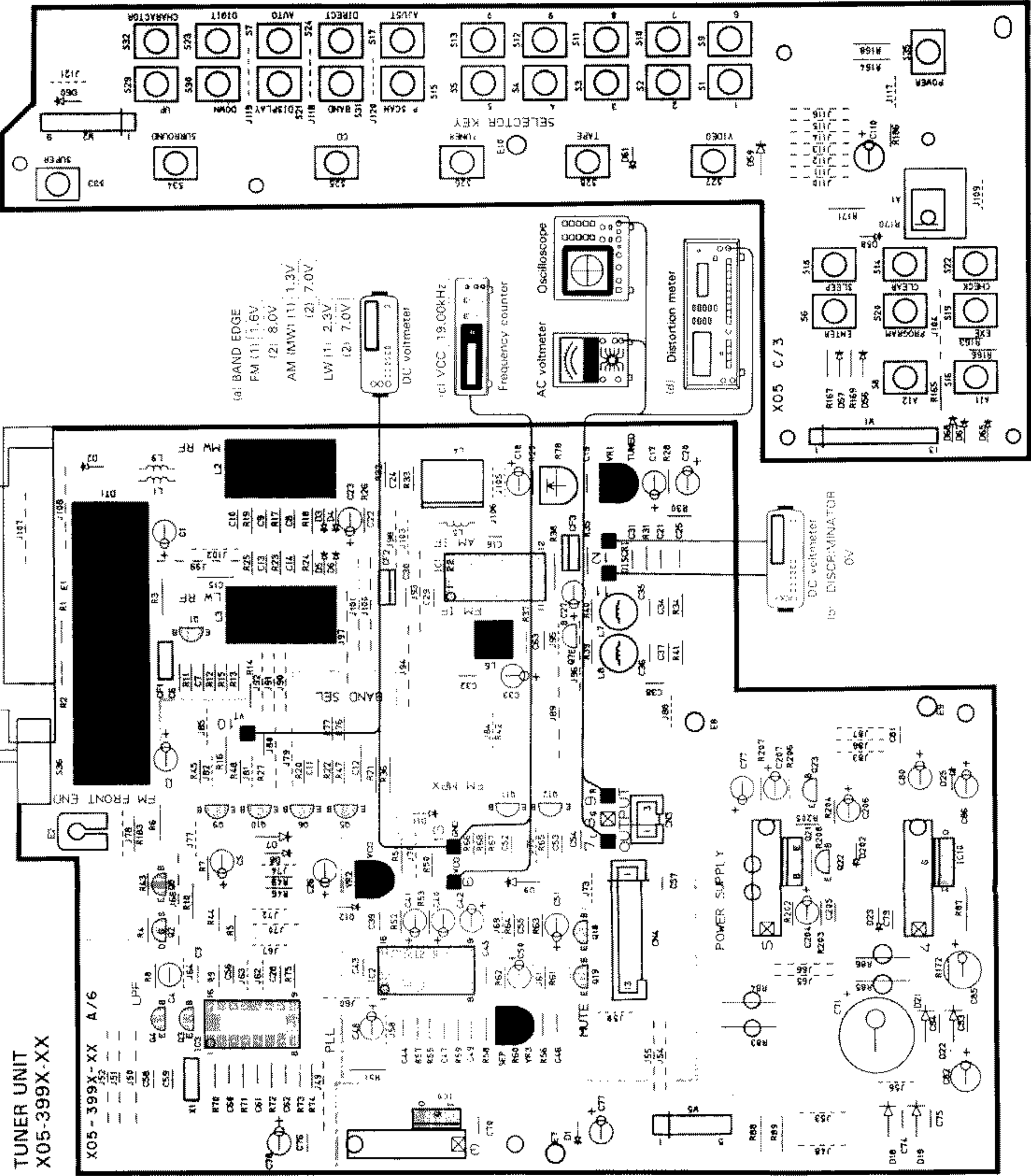
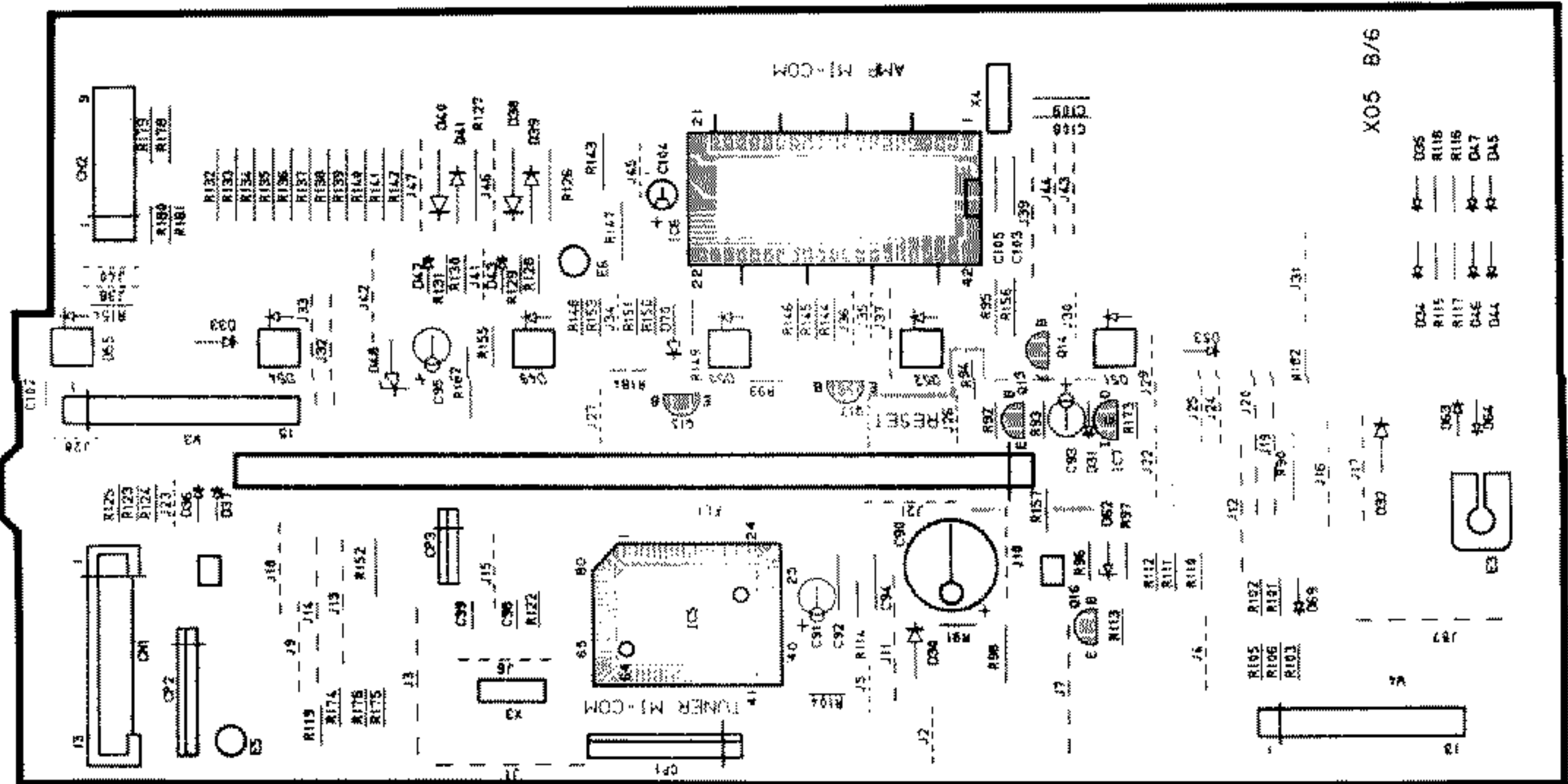
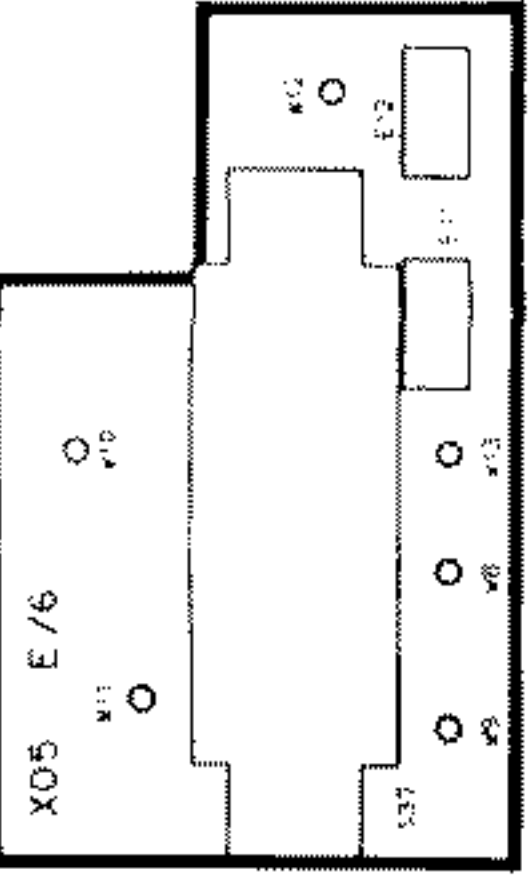
(Y) TYPE



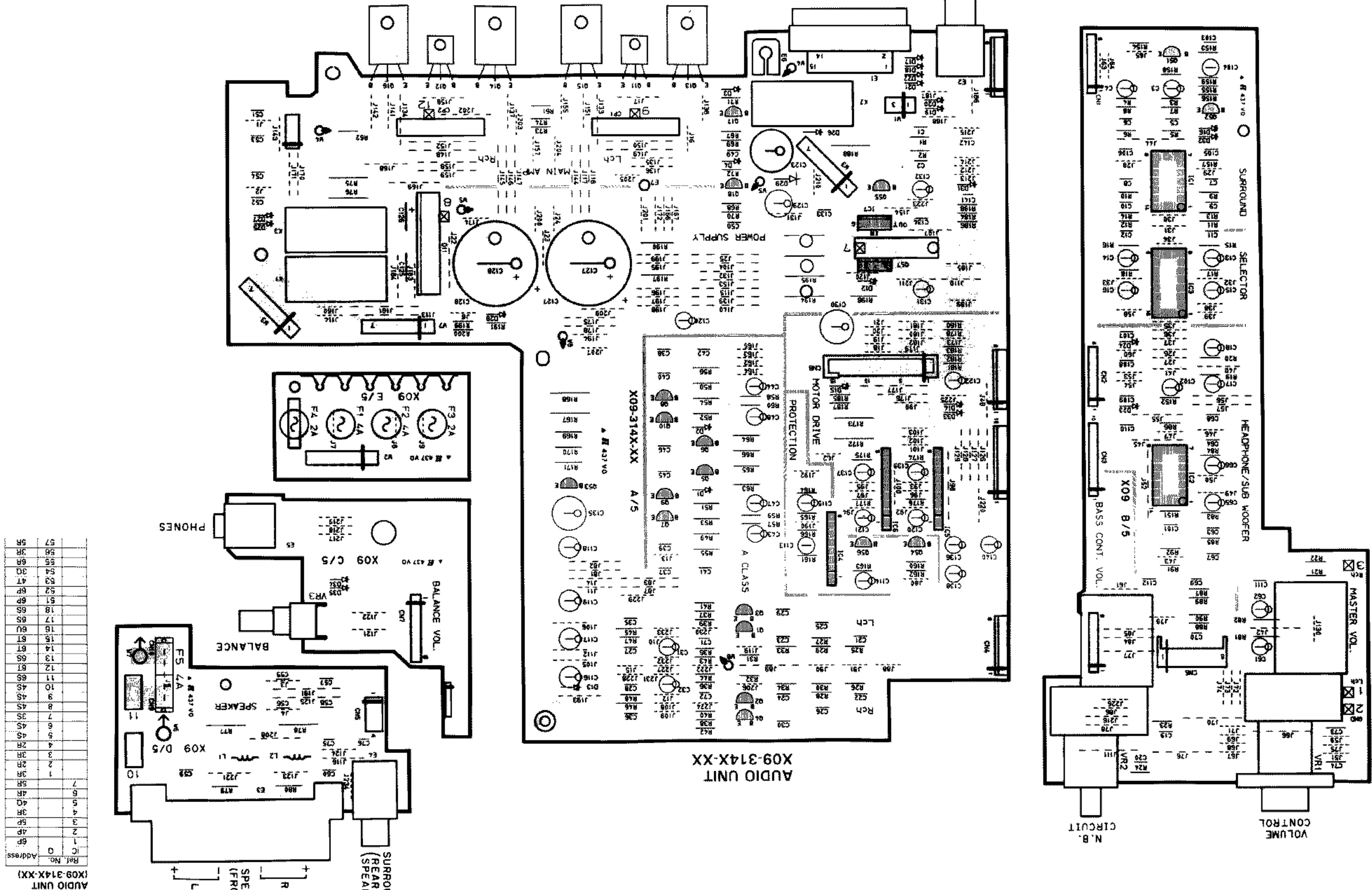
(K, P) TYPE



(M) TYPE



PC BOARD (Component side view)



AUDIO UNIT
X09-314X-XX

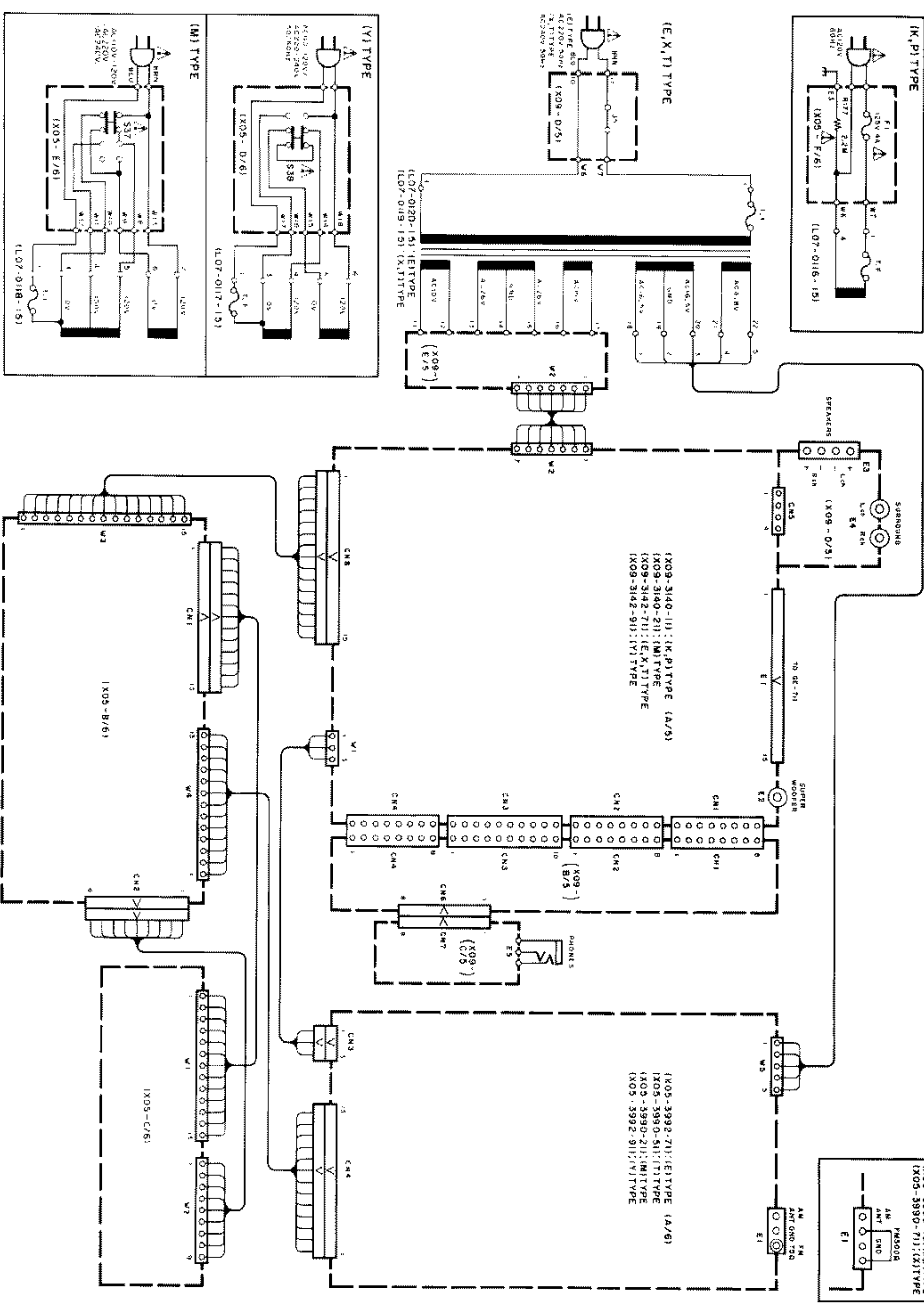
Ref. No.	Address
C	Q
AP	AP
SP	SP
3R	3R
4R	4R
5	5
4S	4S
6S	6S
7	7
3S	3S
2R	2R
1	1
3R	3R
4R	4R
4S	4S
6S	6S
17	17
18	18
16	16
8U	8U
8T	8T
14	14
52	52
6P	6P
53	53
47	47
30	30
6B	6B
56	56
58	58

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

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PARTS LIST

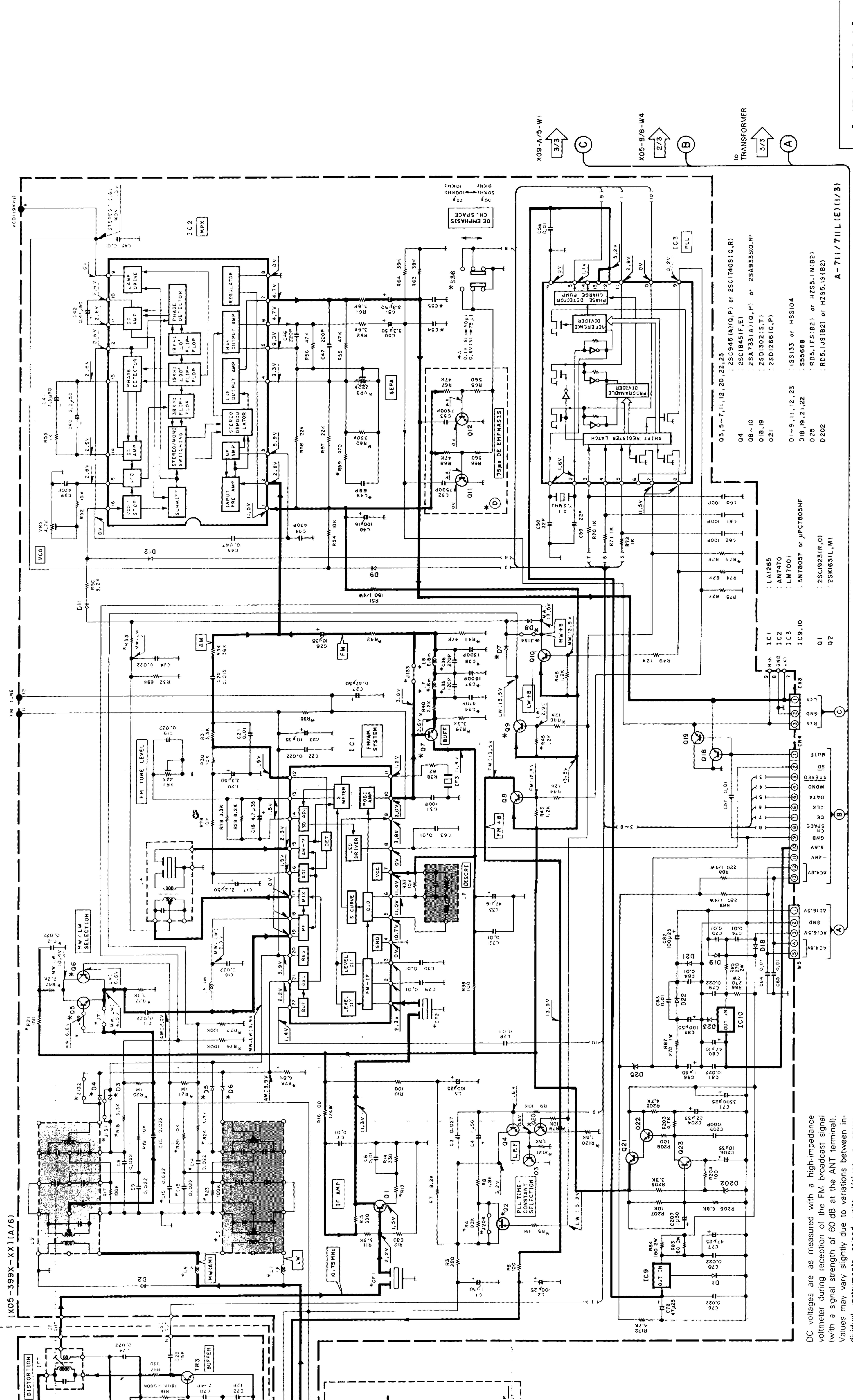
Ref. No.	Parts No.	Address	Description	Dist. nation mark
C64	CF92VF1H1S3J	MF	0.015UF J	YMXTB
C65	CF92VF1H223J	MF	0.022UF J	KP
C66	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C67	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C68	CF92VF1H223J	MF	0.022UF J	YMXTB
C69	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C70	CF92VF1H223J	MF	0.022UF J	YMXTB
C71	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C72	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C73	CF92VF1H223J	MF	0.022UF J	YMXTB
C74	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C75	CF92VF1H223J	MF	0.022UF J	YMXTB
C76	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C77	CF92VF1H223J	MF	0.022UF J	YMXTB
C78	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C79	CF92VF1H223J	MF	0.022UF J	YMXTB
C80	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C81	CF92VF1H223J	MF	0.022UF J	YMXTB
C82	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C83	CF92VF1H223J	MF	0.022UF J	YMXTB
C84	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C85	CF92VF1H223J	MF	0.022UF J	YMXTB
C86	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C87	CF92VF1H223J	MF	0.022UF J	YMXTB
C88	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C89	CF92VF1H223J	MF	0.022UF J	YMXTB
C90	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C91	CF92VF1H223J	MF	0.022UF J	YMXTB
C92	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C93	CF92VF1H223J	MF	0.022UF J	YMXTB
C94	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C95	CF92VF1H223J	MF	0.022UF J	YMXTB
C96	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C97	CF92VF1H223J	MF	0.022UF J	YMXTB
C98	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C99	CF92VF1H223J	MF	0.022UF J	YMXTB
C100	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C101	CF92VF1H223J	MF	0.022UF J	YMXTB
C102	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C103	CF92VF1H223J	MF	0.022UF J	YMXTB
C104	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C105	CF92VF1H223J	MF	0.022UF J	YMXTB
C106	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C107	CF92VF1H223J	MF	0.022UF J	YMXTB
C108	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C109	CF92VF1H223J	MF	0.022UF J	YMXTB
C110	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C111	CF92VF1H223J	MF	0.022UF J	YMXTB
C112	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C113	CF92VF1H223J	MF	0.022UF J	YMXTB
C114	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C115	CF92VF1H223J	MF	0.022UF J	YMXTB
C116	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C117	CF92VF1H223J	MF	0.022UF J	YMXTB
C118	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C119	CF92VF1H223J	MF	0.022UF J	YMXTB
C120	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C121	CF92VF1H223J	MF	0.022UF J	YMXTB
C122	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C123	CF92VF1H223J	MF	0.022UF J	YMXTB
C124	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C125	CF92VF1H223J	MF	0.022UF J	YMXTB
C126	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C127	CF92VF1H223J	MF	0.022UF J	YMXTB
C128	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C129	CF92VF1H223J	MF	0.022UF J	YMXTB
C130	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C131	CF92VF1H223J	MF	0.022UF J	YMXTB
C132	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C133	CF92VF1H223J	MF	0.022UF J	YMXTB
C134	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C135	CF92VF1H223J	MF	0.022UF J	YMXTB
C136	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C137	CF92VF1H223J	MF	0.022UF J	YMXTB
C138	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C139	CF92VF1H223J	MF	0.022UF J	YMXTB
C140	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C141	CF92VF1H223J	MF	0.022UF J	YMXTB
C142	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C143	CF92VF1H223J	MF	0.022UF J	YMXTB
C144	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C145	CF92VF1H223J	MF	0.022UF J	YMXTB
C146	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C147	CF92VF1H223J	MF	0.022UF J	YMXTB
C148	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C149	CF92VF1H223J	MF	0.022UF J	YMXTB
C150	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C151	CF92VF1H223J	MF	0.022UF J	YMXTB
C152	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C153	CF92VF1H223J	MF	0.022UF J	YMXTB
C154	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C155	CF92VF1H223J	MF	0.022UF J	YMXTB
C156	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C157	CF92VF1H223J	MF	0.022UF J	YMXTB
C158	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C159	CF92VF1H223J	MF	0.022UF J	YMXTB
C160	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C161	CF92VF1H223J	MF	0.022UF J	YMXTB
C162	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C163	CF92VF1H223J	MF	0.022UF J	YMXTB
C164	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C165	CF92VF1H223J	MF	0.022UF J	YMXTB
C166	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C167	CF92VF1H223J	MF	0.022UF J	YMXTB
C168	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C169	CF92VF1H223J	MF	0.022UF J	YMXTB
C170	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C171	CF92VF1H223J	MF	0.022UF J	YMXTB
C172	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C173	CF92VF1H223J	MF	0.022UF J	YMXTB
C174	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C175	CF92VF1H223J	MF	0.022UF J	YMXTB
C176	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C177	CF92VF1H223J	MF	0.022UF J	YMXTB
C178	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C179	CF92VF1H223J	MF	0.022UF J	YMXTB
C180	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C181	CF92VF1H223J	MF	0.022UF J	YMXTB
C182	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C183	CF92VF1H223J	MF	0.022UF J	YMXTB
C184	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C185	CF92VF1H223J	MF	0.022UF J	YMXTB
C186	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C187	CF92VF1H223J	MF	0.022UF J	YMXTB
C188	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C189	CF92VF1H223J	MF	0.022UF J	YMXTB
C190	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C191	CF92VF1H223J	MF	0.022UF J	YMXTB
C192	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C193	CF92VF1H223J	MF	0.022UF J	YMXTB
C194	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C195	CF92VF1H223J	MF	0.022UF J	YMXTB
C196	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C197	CF92VF1H223J	MF	0.022UF J	YMXTB
C198	CF92VF1H103Z	MF	0.010UF Z	YMXTB
C199	CF92VF1H223J	MF	0.022UF J	YMXTB
C200	CF92VF1H103Z	MF	0.010UF Z	YMXTB



indicates safety critical components.

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

E: Scandinavia & Europe K: USA
 P: Canada W: Europe
 V: Pacific East Hawaii T: England
 M: Other Areas
 X: Australia
 Y: Africa/Europe



A-711/711L

KENWOOD

Y05-2500-11

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).

- Q3, 5-7, 11, 12, 20, 22, 23 : 2SC945(A)(Q,P) or 2SC1740S(Q,R)
- Q4 : 2SC1845(F,E)
- Q8-10 : 2SA733(A)(Q,P) or 2SA933S(Q,R)
- Q18, 19 : 2SD1302(S,T)
- Q21 : 2SD1266(Q,P)
- D1-9, 11, 12, 23 : 1SS133 or HSS104
- D18, 19, 21, 22 : S5566B
- D25 : RD5.1ES(B2) or HZ55.1(N1B2)
- D202 : RD5.1JS(B2) or HZ55.1S(B2)

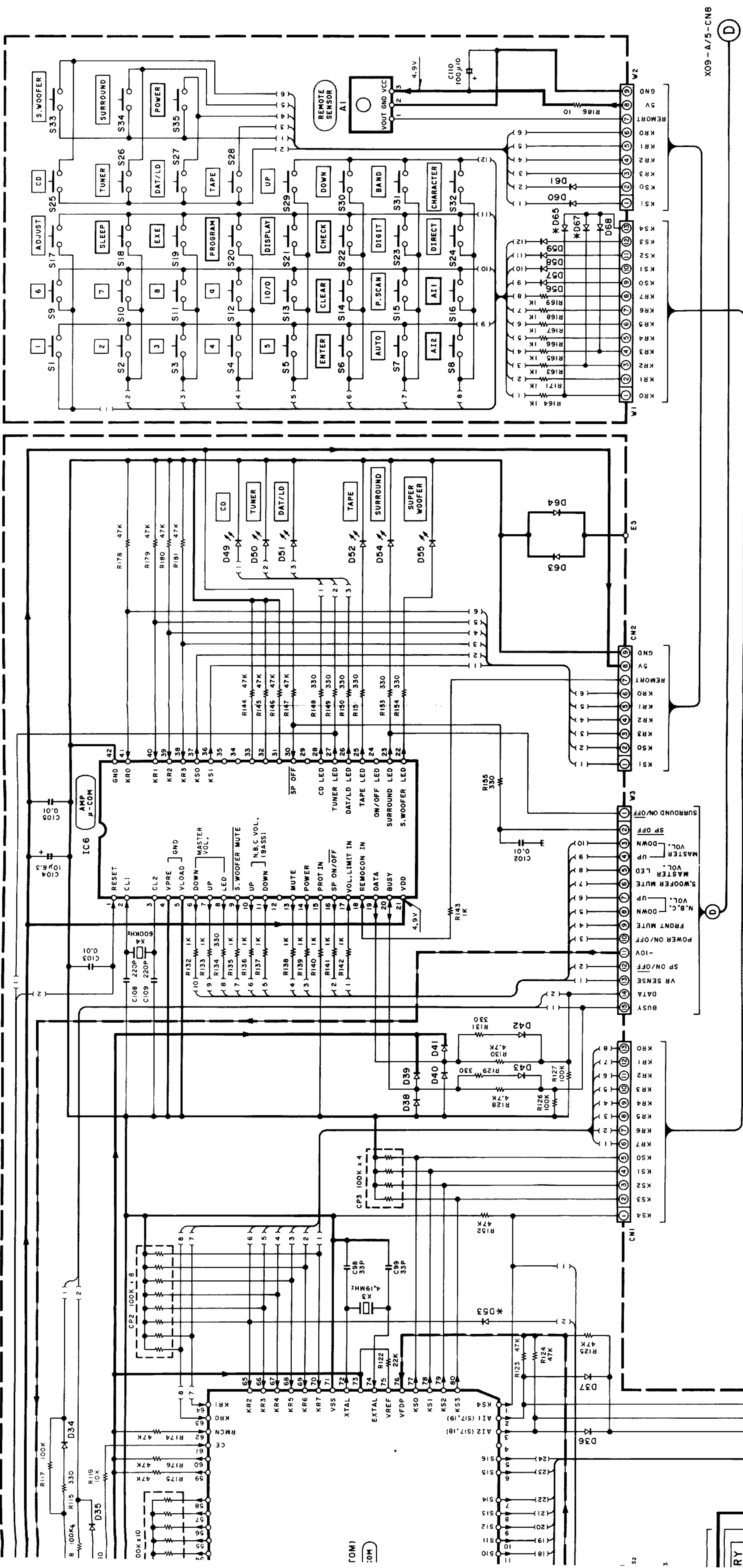
- IC1 : LA1265
- IC2 : AN7470
- IC3 : LM7001
- IC9, 10 : AN7805F or μ PCT805HF
- Q1 : 2SC1923(R,O)
- Q2 : 2SK163(L,M)

A-711/711L(E)(1/3)

X09-A/5-W1
3/3
C

X05-B/6-W4
2/3
B

TO TRANSFORMER
3/3
A



DESTINATION COUNTRY	ABB.	UNIT NAME	R182	D53	D65	D67	Q17
ENGLAND	T	X05-3992-71	NO	NO	YES	YES	NO
EUROPE	E	X05-3992-71	NO	NO	YES	YES	NO
AUSTRALIA	X	X05-3990-71	NO	NO	NO	NO	NO
GENERAL MARKET	M	X05-3990-21	YES	NO	NO	NO	YES
PX	Y	X05-3992-91	YES	YES	NO	NO	YES
U.S.A	K	X05-3990-10	NO	NO	NO	NO	NO
CANADA	P	X05-3990-10	NO	NO	NO	NO	NO

- IC5 : CXP50112-1270
- IC6 : APD7538ACU-232
- IC7 : PST529D
- Q14~16,17 : 2SA733(A)(Q,P) or 2SA933S(O,R)
- Q13 : 2SC945(A)(Q,P) or 2SC1740S(Q,R)
- D30~47,56~61,63~65,67~70 : ISS133 or HSS104
- D48 : RD10ES(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
- F.L1 : B-BT-986K

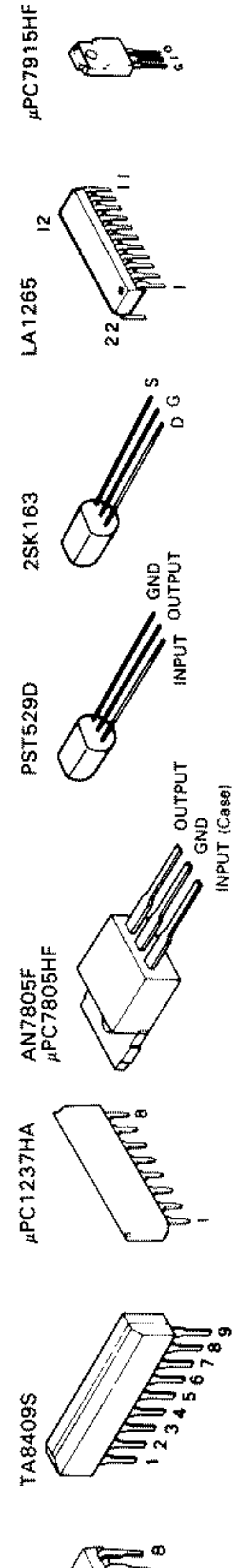
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

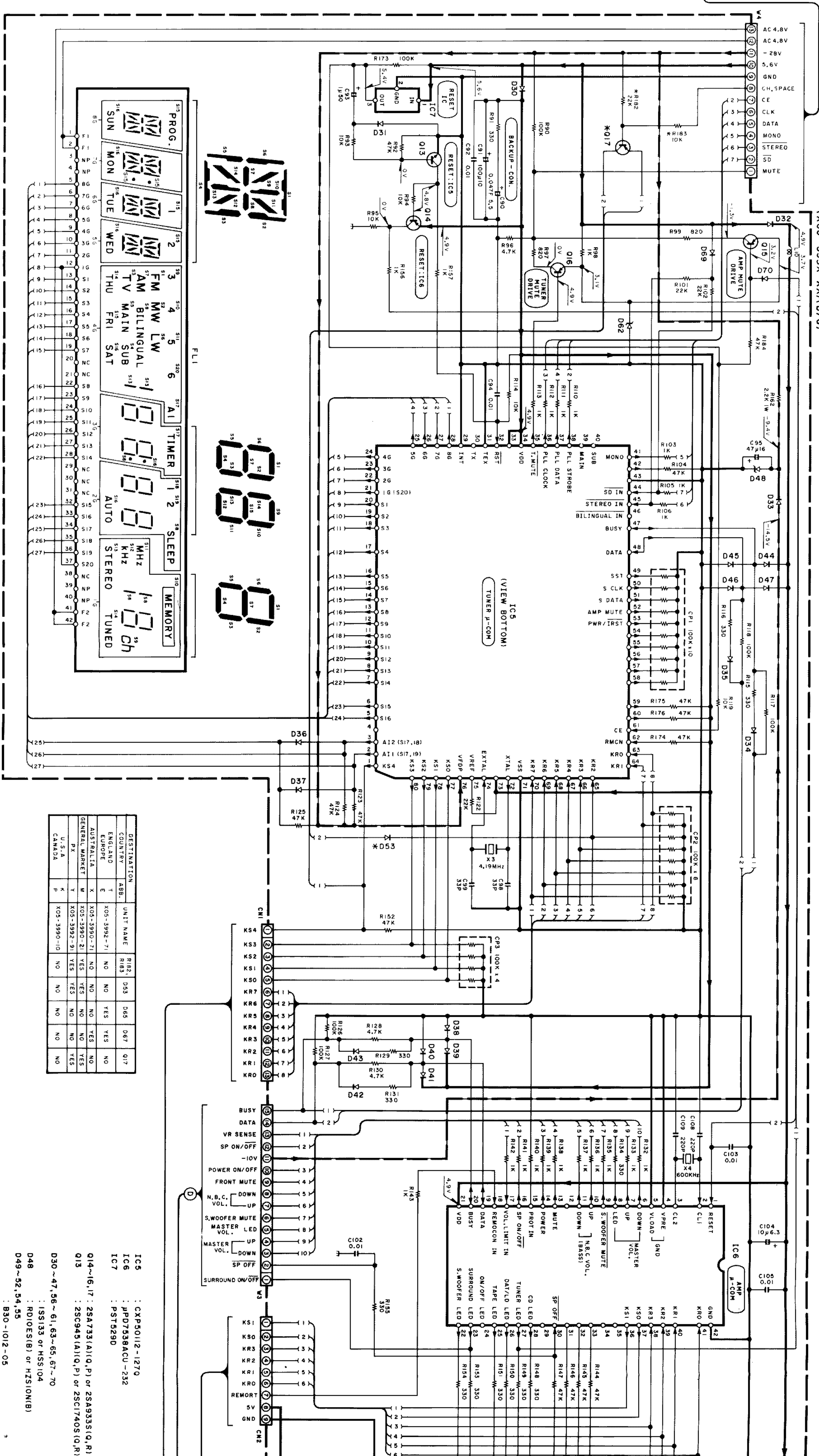
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **⚠** Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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



X09-A/5-CN8

3/3



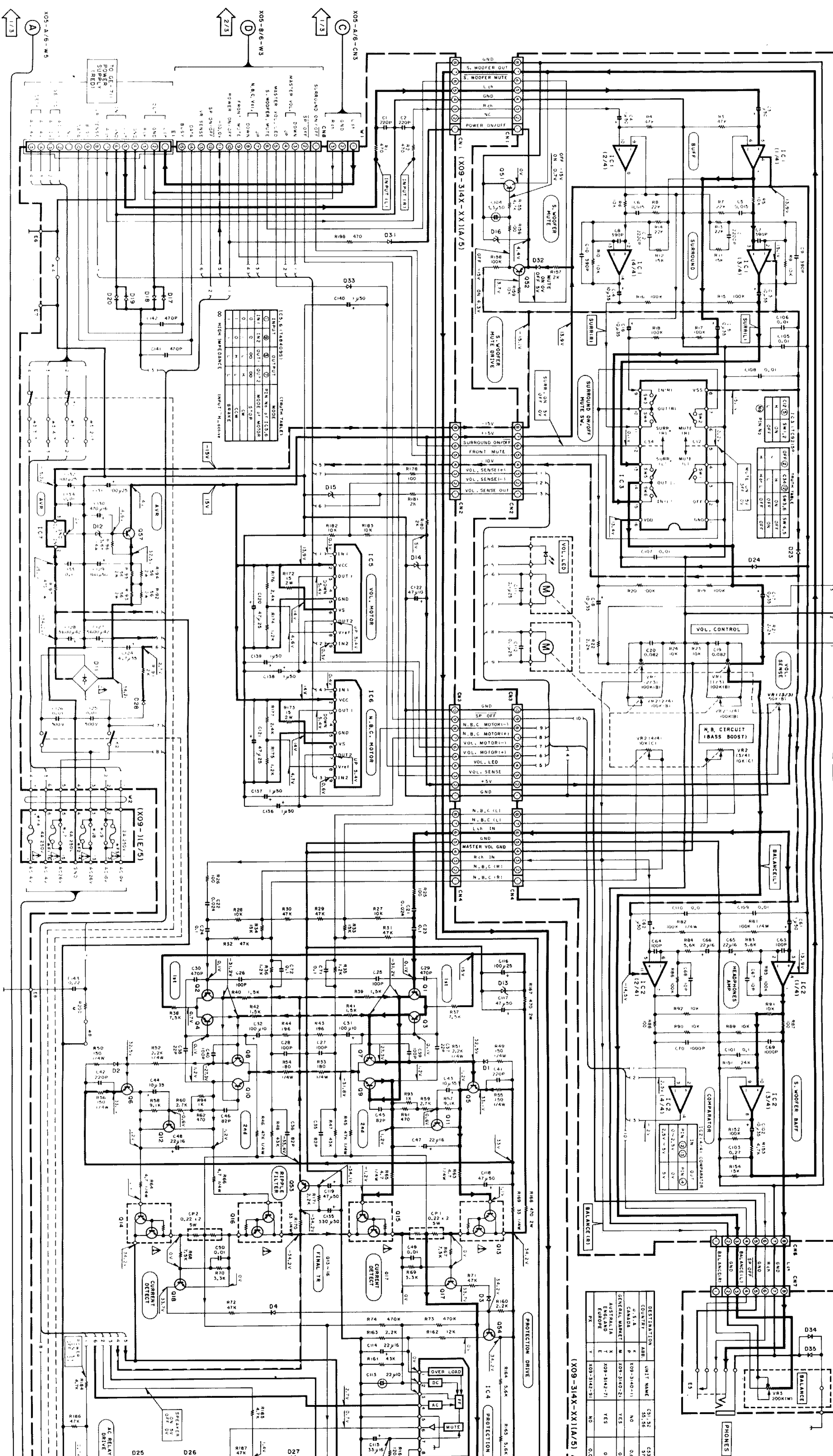


DESTINATION	UNIT NAME	R182	D43	D65	D67	Q17
ENGLAND	T X05-3992-71	NO	NO	YES	YES	NO
AUSTRALIA	X X05-3990-71	NO	NO	NO	YES	NO
GENERAL MARKET	M X05-3990-21	YES	YES	NO	NO	YES
U.S.A	Y X05-3992-91	YES	YES	NO	NO	YES
CANADA	K X05-3990-10	NO	NO	NO	NO	NO

- IC5 : CXP50112-1270
- IC6 : MPD7538ACU-232
- IC7 : PST5290
- Q14~16, I7 : 2SA733(A)(Q,P) or 2SA933S(Q,R)
- Q13 : 2SC945(A)(Q,P) or 2SC17405(Q,R)
- D30~47, 56~61, 63~65, 67~70 : ISS133 or HSS104
- D48 : RD10ES(B) or HZ10N(B)
- D49~52, 54, 55 : B30-1012-05
- D62 : RD3,3ES(B2) or HZS3,3N(B2)
- A1 : W02-1049-05 or W02-1048-05
- FL1 : 8-BT-986K

- 2SA733(A)
- 2SA992
- 2SC1845
- 2SC1923
- 2SC2631
- 2SC2878
- 2SC945(A)
- 2SD1302
- 2SD1266
- 2SC3666
- 2SA933S
- 2SC17405
- NJM2058D
- LM7001
- AN7470
- TC9215P
- TAB409S
- μPC1237HA
- AN7805F
- μPC7805HF
- PST5290
- 2SK163
- LA1265
- μPC7915HF

- AC 4.8V
- AC 4.8V
- 28V
- 5.6V
- GND
- CH, SPACE
- CE
- CLK
- DATA
- MONO
- STEREO
- SD
- MUTE
- AMP MUTE DRIVE
- TUNER MUTE DRIVE
- BACKUP - CON.
- RESET IC7
- RESET IC8
- RESET IC9
- RESET IC6
- RESET IC5
- IC5 (VIEW BOTTOM) TUNER P-COM
- IC6 AMP P-COM
- IC7
- IC8
- IC9
- IC6
- IC5
- IC4
- IC3
- IC2
- IC1
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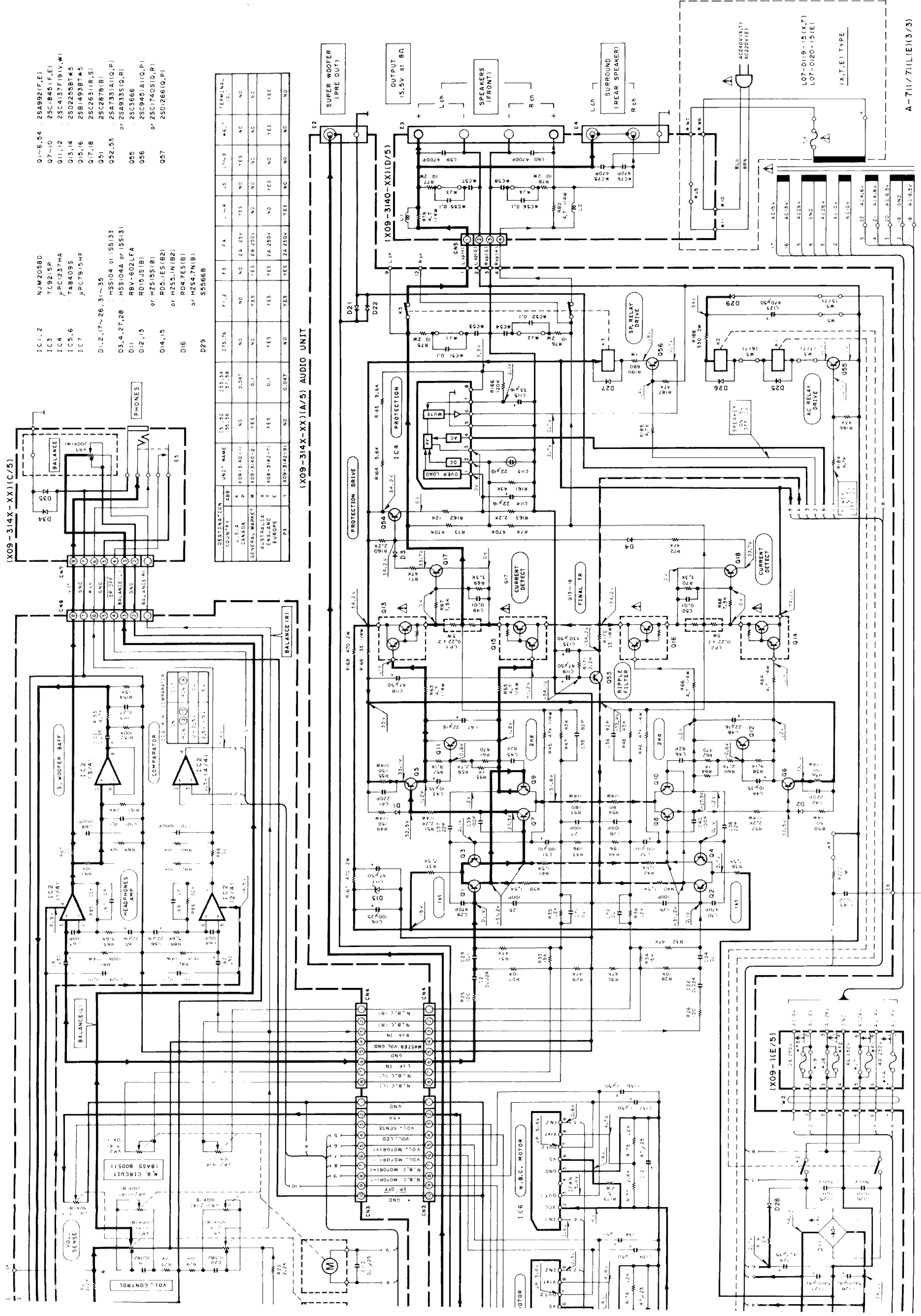


IC5 & LIBR40551 (FRONT PANEL)

INPUT	OUTPUT	MODE	FRONT PANEL
1	1	0	0
2	2	0	0
3	3	0	0
4	4	0	0
5	5	0	0
6	6	0	0
7	7	0	0
8	8	0	0
9	9	0	0
10	10	0	0
11	11	0	0
12	12	0	0
13	13	0	0
14	14	0	0
15	15	0	0
16	16	0	0
17	17	0	0
18	18	0	0
19	19	0	0
20	20	0	0
21	21	0	0
22	22	0	0
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25	25	0	0
26	26	0	0
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29	29	0	0
30	30	0	0
31	31	0	0
32	32	0	0
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35	35	0	0
36	36	0	0
37	37	0	0
38	38	0	0
39	39	0	0
40	40	0	0

(X09-314X-XX1(A/5) AUDIO

DESTINATION	UNIT NAME	C1, 21	C2, 24
U.S.A.	K	55.26	57.26
GENERAL MARKET	M	509-3140-11	0.047
FRANCE	T	509-3140-21	0.1
GERMANY	T	509-3140-71	0.1
EUROPE	E	509-3140-91	0.047
NO	NO		

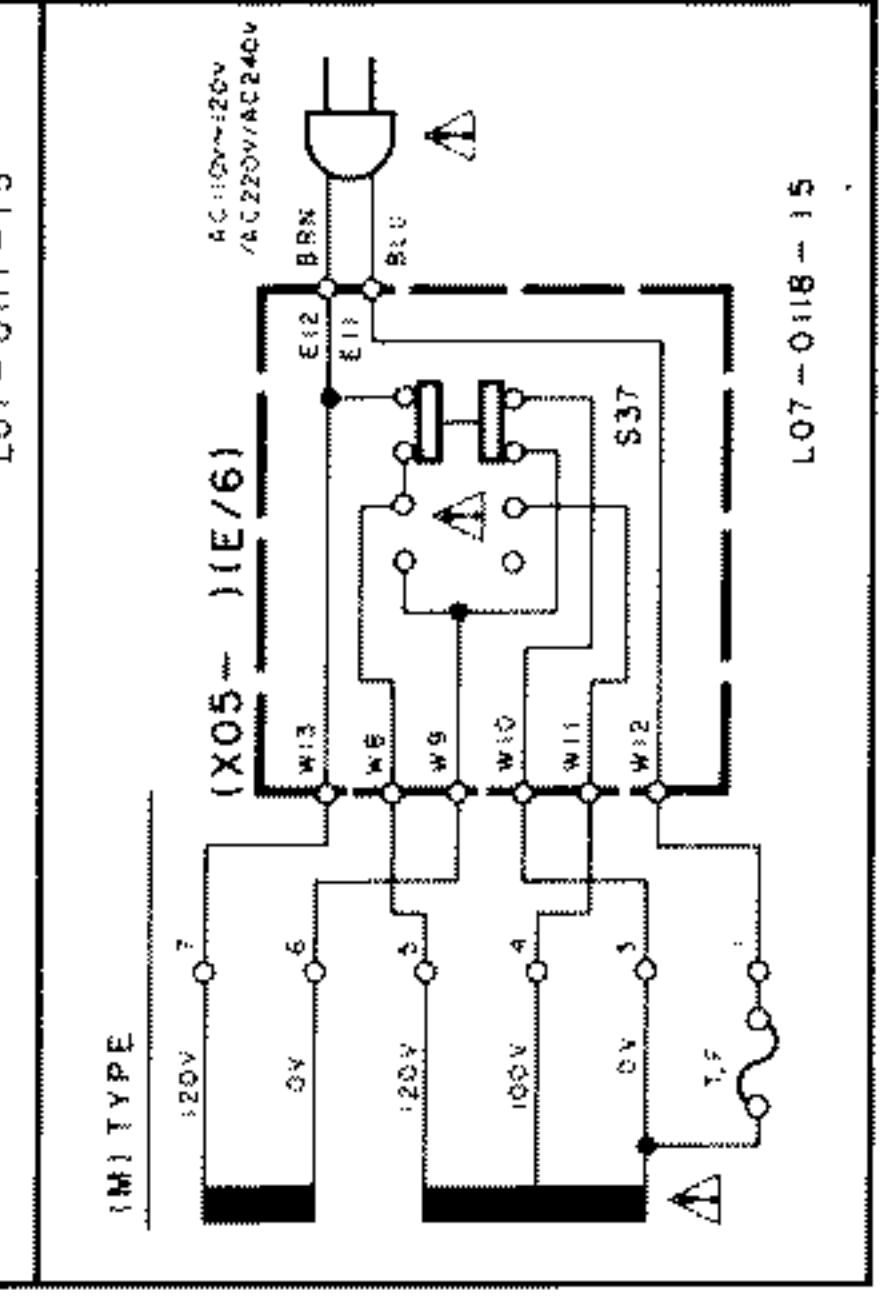
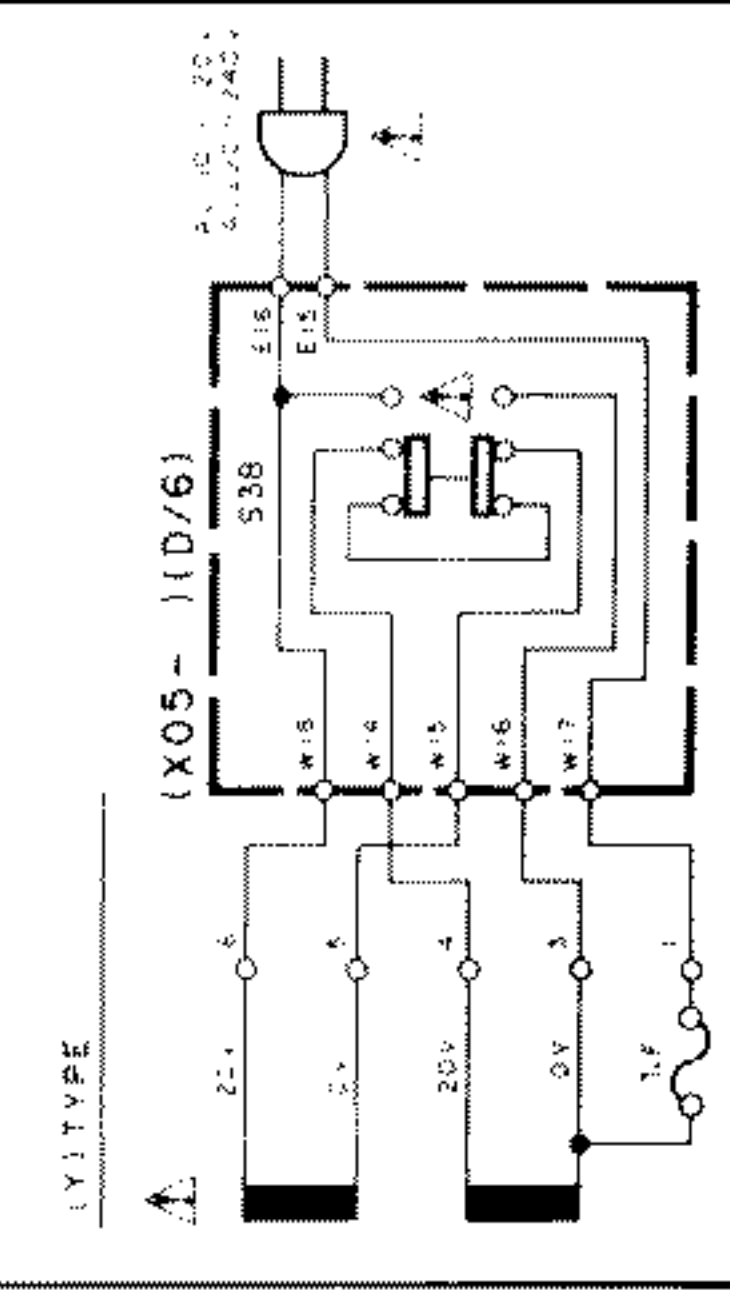
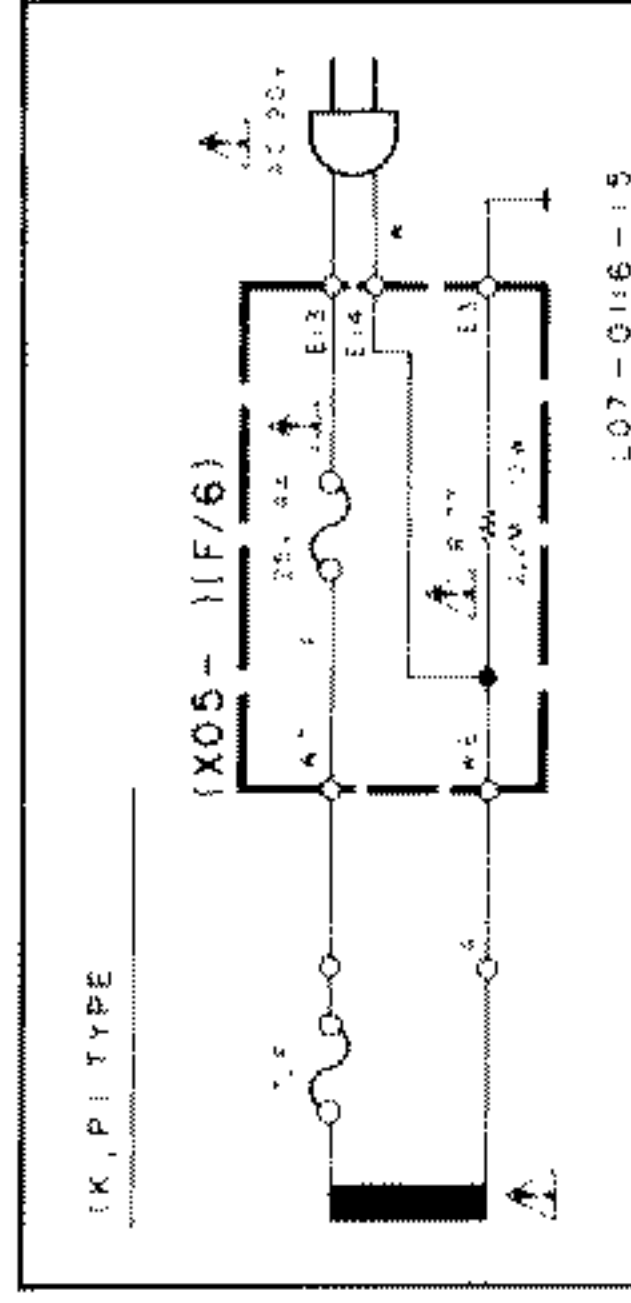


(X09-314X-XX)(C/5)

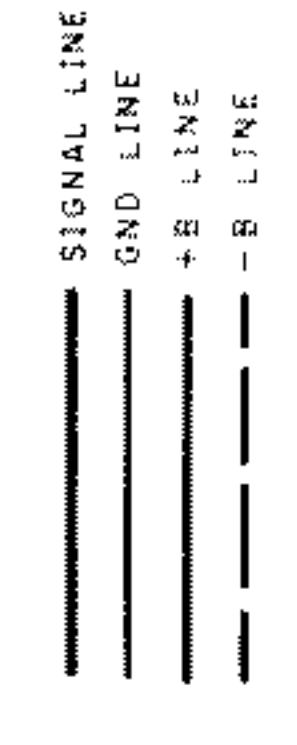
- IC1,2 NJM2058D
- IC3 TC9215P
- IC4 JFC1237HA
- IC5,6 TAB4095
- IC7 JFC7915HF
- D1,2,17~26,31~35 H55104 or H55133
- D3,4,27,28 H55104 or H55133
- D11 RBV-602LF4
- D12,13 D10J5(B)
- D14,15 RD51ES(B2)
- D16 RD47ES(B)
- D29 S5566B
- Q1~6,54 2SA992(F,E)
- Q7~10 2SC1845(F,E)
- Q11,12 2SC4137(F1V,W)
- Q13,14 2SD2255(BT,K,S)
- Q15,16 28B1493(BT,K,S)
- Q17,18 2SC2631(R,S)
- Q51 2SC2878(B)
- Q52,53 2SA733(A10,P)
- Q54 2SA935(G,R)
- Q55 2SC3666
- Q56 2SC1740(S,Q,P)
- Q57 2SD266(Q,P)

DESTINATION	UNIT NAME	F1,2	F3	F4	F5	F6	TERM. NO.
U.S.A.	K 40P-340-11	NO	NO	NO	NO	NO	NO
CANADA	P 40P-340-11	NO	NO	NO	NO	NO	NO
GENERAL MARKET	W 40P-340-21	YES	YES	YES	YES	YES	NO
ASIA, OCEANIA	X 40P-340-21	YES	YES	YES	YES	YES	NO
EUROPE	E 40P-340-21	YES	YES	YES	YES	YES	NO
FX	T 40P-340-21	NO	NO	NO	NO	NO	NO

(X09-314X-XX)(A/5) AUDIO UNIT



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.

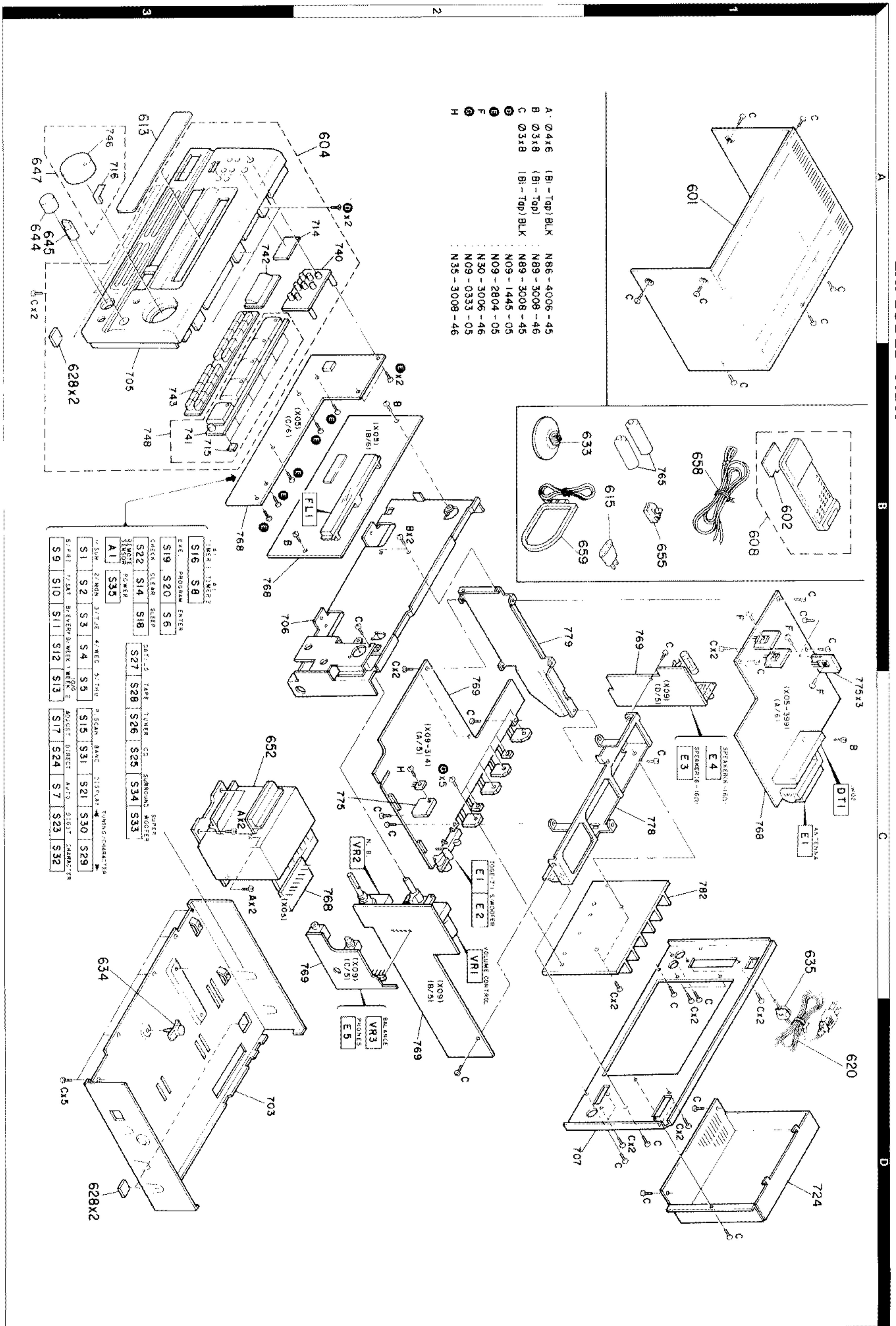


A-711/711L(E13/3)

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.

EXPLODED VIEW

EXPLODED VIEW



TIMER/TIMERZ		A1		S16		S8	
EXEC PROGRAM ENTER		S19		S20		S6	
CHECK CLEAR SLEEP		S22		S14		S18	
3 MODE POWER		S27		S28		S26	
S1		S2		S3		S4	
S5		S6		S7		S8	
S9		S10		S11		S12	
S13		S14		S15		S16	
S17		S18		S19		S20	
S21		S22		S23		S24	
S25		S26		S27		S28	
S29		S30		S31		S32	
S33		S34		S35		S36	

PARTS LIST

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

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕	備考
A-7117711L						
601	1A	*	A01-1866-01	METALLIC CABINET		
602	1B	*	A09-0106-08	BATTERY COVER		
604	2A	*	A20-6100-02	PANEL ASSY(A-711L)		
604	2A	*	A20-6107-02	PANEL ASSY(A-711)		
608	1B	*	A70-0367-05	REMOTE CONTROLLER ASSY	TE	
613	3A	*	810-1093-04	FRONT GLASS	K	
-	-	*	B46-0092-03	WARRANTY CARD	Y	
-	-	*	B46-0094-03	WARRANTY CARD	Y	
-	-	*	B46-0095-03	WARRANTY CARD	X	
-	-	*	B46-0096-13	WARRANTY CARD	X	
-	-	*	B46-0121-03	WARRANTY CARD	P	
-	-	*	B46-0122-13	WARRANTY CARD	E	
-	-	*	B46-0143-13	WARRANTY CARD	T	
-	-	*	B58-0513-04	CAUTION CARD	C4	
-	-	*	B58-0803-13	CAUTION CARD (PRESET220-240)	Y	
-	-	*	B60-0155-00	INSTRUCTION MANUAL(ENGLISH)	E	
-	-	*	B60-0156-00	INSTRUCTION MANUAL(FRENCH)	PE	
-	-	*	B60-0157-00	INSTRUCTION MANUAL(GERMAN)	E	
-	-	*	B60-0159-00	INSTRUCTION MANUAL(DUTCH)	E	
-	-	*	B60-0159-00	INSTRUCTION MANUAL(ITALIAN)	E	
-	-	*	B60-0160-00	INSTRUCTION MANUAL(CHINESE)	M	
-	-	*	B60-0161-00	INSTRUCTION MANUAL(SPANISH)	M	
615	1B	*	E03-0115-05	AC PLUG ADAPTER	M	
620	1D	*	E30-0459-05	AC POWER CORD	ME	
620	1D	*	E30-0812-05	AC POWER CORD	Y	
620	1D	*	E30-0974-05	AC POWER CORD	KP	
620	1D	*	E30-1341-05	AC POWER CORD	X	
620	1D	*	E30-1416-05	AC POWER CORD	T	
628	3B, 3D	*	G11-2017-04	CUSHION		
-	-	*	H01-8845-04	ITEM CARTON CASE(A-711)	KPYMX	
-	-	*	H01-8846-04	ITEM CARTON CASE(A-711L)	TE	
-	-	*	H09-0105-04	INNER PACKAGE		
-	-	*	H10-5023-12	POLYSTYRENE FOAMED FIXTURE		
-	-	*	H10-5024-12	POLYSTYRENE FOAMED FIXTURE		
-	-	*	H20-0566-04	PROTECTION COVER		
-	-	*	H25-0397-04	PROTECTION BAG	M	
-	-	*	H25-0631-04	PROTECTION BAG	KPYXTE	
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	*	K29-3959-04	KNØB(N.B.CIRCUIT)		
645	3A	*	K29-3960-04	KNØB(BALANCE)		
647	3A	*	K29-3997-04	KNØB ASSY(VOLUME)		
652	3C	*	L07-0116-15	POWER TRANSFORMER	KP	
652	3C	*	L07-0117-15	POWER TRANSFORMER	Y	
652	3C	*	L07-0118-15	POWER TRANSFORMER	M	
652	3C	*	L07-0119-15	POWER TRANSFORMER	XT	
652	3C	*	L07-0120-15	POWER TRANSFORMER	E	

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PARTS LIST

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

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re- marks
参照番号	位置	新	部品番号	部品名 / 規格	仕	備考
TUNER UNIT (X05-399X-XX, 0-10; K, P type, 0-71; X type, 2-71; T, E type, 2-91; Y type)						
649	-52		B30-1012-05	LED(SLP-961C-50)		
654	.55		B30-1012-05	LED(SLP-961C-50)		
C1			CE04KW1H010M	ELECTRØ		
C2			CE04KW1E101M	ELECTRØ		
C3			CE92FV1H273J	MF		
C4			CE04KW1H010M	ELECTRØ		
C5			CE04KW1E101M	ELECTRØ		
C6	.7		C91-0769-05	CERAMIC		
C8	.11		CK45FF1H223Z	CERAMIC		
C12			C91-0085-05	CERAMIC		
C13	.14		CK45FF1H223Z	CERAMIC		
C15			C91-0085-05	CERAMIC		
C16			CK45FF1H223Z	CERAMIC		
C17			CE04KW1H2R2M	ELECTRØ		
C18			CE04KW1V4R7M	ELECTRØ		
C19			CK45FF1H223Z	CERAMIC		
C20			CE04KW1H3R3M	ELECTRØ		
C21			CK45FF1H103Z	CERAMIC		
C22			CK45FF1H223Z	CERAMIC		
C23			CE04KW1V100M	ELECTRØ		
C24			CK45FF1H223Z	CERAMIC		
C25			CF92FV1H153J	MF		
C26			CE04KW1V100M	ELECTRØ		
C27			CE04KW1H47M	ELECTRØ		
C28	-30		CK45FF1H103Z	CERAMIC		
C31			CC45FSL1H101J	CERAMIC		
C32			CK45FF1H103Z	CERAMIC		
C33			CE04KW1C470M	ELECTRØ		
C34			CK45FB1H471K	CERAMIC		
C35			CC45FSL1H121J	CERAMIC		
C36			CC45FSL1H271J	CERAMIC		
C37			CF92FV1H152J	MF		
C38			CF92FV1H132J	MF		
C39			CK45FB1H471K	CERAMIC		
C40			CE04KW1H2R2M	ELECTRØ		
C41			CE04KW1H3R3M	ELECTRØ		
C42			CE04KW1H47M	ELECTRØ		
C43			CF92FV1H473J	MF		
C44			CC93FCH1H471J	CERAMIC		
C45			CK45FF1H103Z	CERAMIC		
C46	.47		CC45FSL1H221J	CERAMIC		
C48			CE04KW1C101M	ELECTRØ		
C49			CC45FSL1H680J	CERAMIC		
C50	.51		CE04KW1H3R3M	ELECTRØ		
C52	.53		CF92FV1H752J	MF		

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A-711/711L

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Table with 5 columns: Ref. No., Address, Parts No., Description, Re-mark. Includes parts like CRYSTAL RESONATOR, PAN HEAD MACHINE SCREW, MULTI-COMP, etc.

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A-711/711L

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参照番号	位置	新	部品番号	部品名/規格	仕	備考
F4		*	F53-0006-05	FUSE(125V 2A)	KP	
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL		
C	2C		N89-3008-45	BINDING HEAD TAPITTE SCREW		
G	2C		N09-0333-05	TAPPING SCREW (3X12)		
H	2C		N35-3008-46	BINDING HEAD MACHINE SCREW		
CPI ,2			R90-0187-05	MULTI-COMP		
R43 ,44			RN14BK2C1960F	RN		
R49 ,50			R014AB2E151JTS	FL-PROOF RD 150		
R51 ,52			R014AB2E222JTS	FL-PROOF RD 2.2K		
R53 ,54			R014AB2E181JTS	FL-PROOF RD 180		
R55 ,56			R014AB2E151JTS	FL-PROOF RD 150		
R63 -66			R014AB2E4R7JTS	FL-PROOF RD 4.7		
R75 -78			R014AB2E100JTE	FL-PROOF RS 10		
R79 ,80			R014AB2E4R7JTS	FL-PROOF RD 4.7		
R167,168			R014AB2E4R7JTE	FL-PROOF RS 4.7		
R169,170			R014AB2E330JTS	FL-PROOF RD 33		
R171			R014AB2E222JTS	FL-PROOF RD 2.2K		
R172,173			RS14DB3D150J	FL-PROOF RS 15		
R188			RS14DB3D331J	FL-PROOF RS 330		
R190			RS14DB3A681J	FL-PROOF RS 680		
R192-195		*	RS14DB3D560JTE	FL-PROOF RS 56		
R196			R014AB2E362JTS	FL-PROOF RD 3.6K		
R197			RS14DB3A471JTE	FL-PROOF RS 470		
VR1	2C	*	R29-5042-05	POTENTIOMETER(VOLUME CONTROL)		
VR2	2C	*	R29-5043-05	POTENTIOMETER(N.B.CIRCUIT)		
VR3	2D	*	R05-3015-05	POTENTIOMETER(BALANCE)		
K1 ,2		*	SS1-2094-05	MAGNETIC RELAY(AC ON/OFF)		
K3			SS1-2092-05	MAGNETIC RELAY(SPEAKER ON/OFF)		
D1 ,2			HSS104	DIODE		
D1 ,2			HSS133	DIODE		
D3 ,4			HSS104A	DIODE		
D3 ,4			ISS131	DIODE		
D11			RBV-602LFA	DIODE		
D12 ,13			HZS1SS(B)	ZENER DIODE		
D12 ,13			R01SJS(B)	ZENER DIODE		
D14 ,15			HZSS.1N(B2)	ZENER DIODE		
D14 ,15			R05.1ES(B2)	ZENER DIODE		
D16			HZS4.7N(B)	ZENER DIODE		
D16			R04.7ES(B)	ZENER DIODE		
D17 -26			HSS104	DIODE		
D17 -26			ISS133	DIODE		
D27 ,28			HSS104A	DIODE		
D27 ,28			ISS131	DIODE		
D29			S5566B	DIODE		
D31 -35			HSS104	DIODE		
D31 -35			ISS133	DIODE		
IC1 ,2			NJM2058D	IC(OP AMP X4)		
IC3			TC921SP	IC(ANALOG SWITCH X 6)		
IC4			UPC1237HA	IC(POWER AMP)		
IC5 ,6			TA8409S	IC(MOTOR CONTROL)		
IC7			UPC7915HF	IC(VOLTAGE REGULATOR/ -15V)		
Q1			ZSA992(F,E)	TRANSISTOR		

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参照番号	位置	新	部品番号	部品名/規格	仕	備考
Q7 -10			2SC1845(F,E)	TRANSISTOR		
Q11 ,12			2SC4137F19(V,W)	TRANSISTOR		
Q13 ,14		*	2SD2255B1*5	TRANSISTOR		
Q15 ,16		*	2SB1493B1*5	TRANSISTOR		
Q17 ,18			2SC2631(R,S)	TRANSISTOR		
Q51			2SC2878(B)	TRANSISTOR		
Q52 ,53			2SA733(A)(Q,P)	TRANSISTOR		
Q54			2SA933S(Q,R)	TRANSISTOR		
Q55			2SA992(F,E)	TRANSISTOR		
Q56			2SC3666	TRANSISTOR		
Q57			2SC1740S(Q,R)	TRANSISTOR		
			2SC945(A)(Q,P)	TRANSISTOR		
			2SD1266(Q,P)	TRANSISTOR		

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