

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.

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 11 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 530 kHz ~ 1,601 kHz

10 kHz step 530 kHz ~ 1,601 kHz

Usable sensitivity 14 μV (500 μV/m)

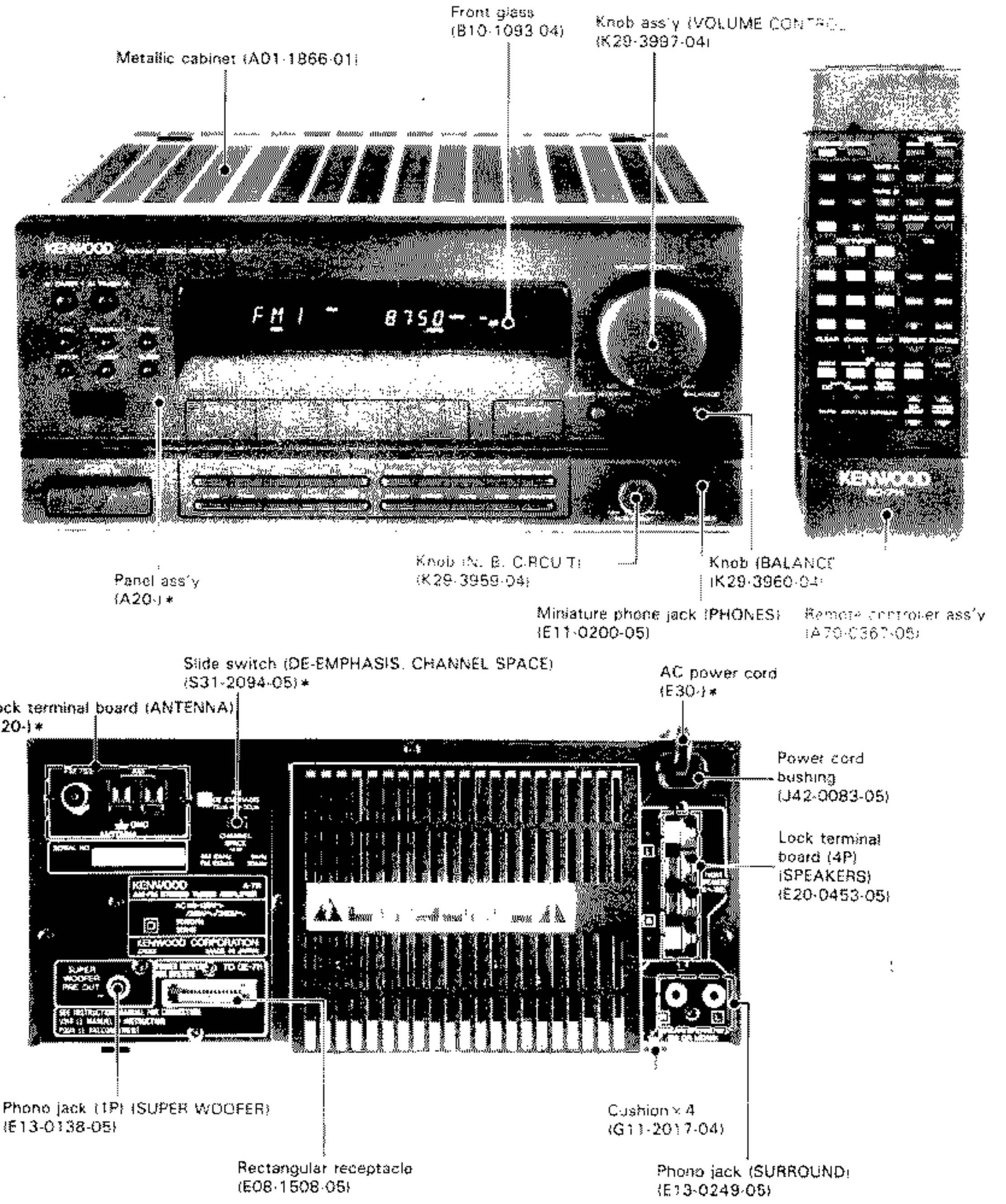
Signal to noise ratio (at 30% mod, 1 mV input) 50 dB

A-711/711L

SERVICE MANUAL

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

©1990-6 PRINTED IN JAPAN
B51-4166-001/13452



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

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

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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.

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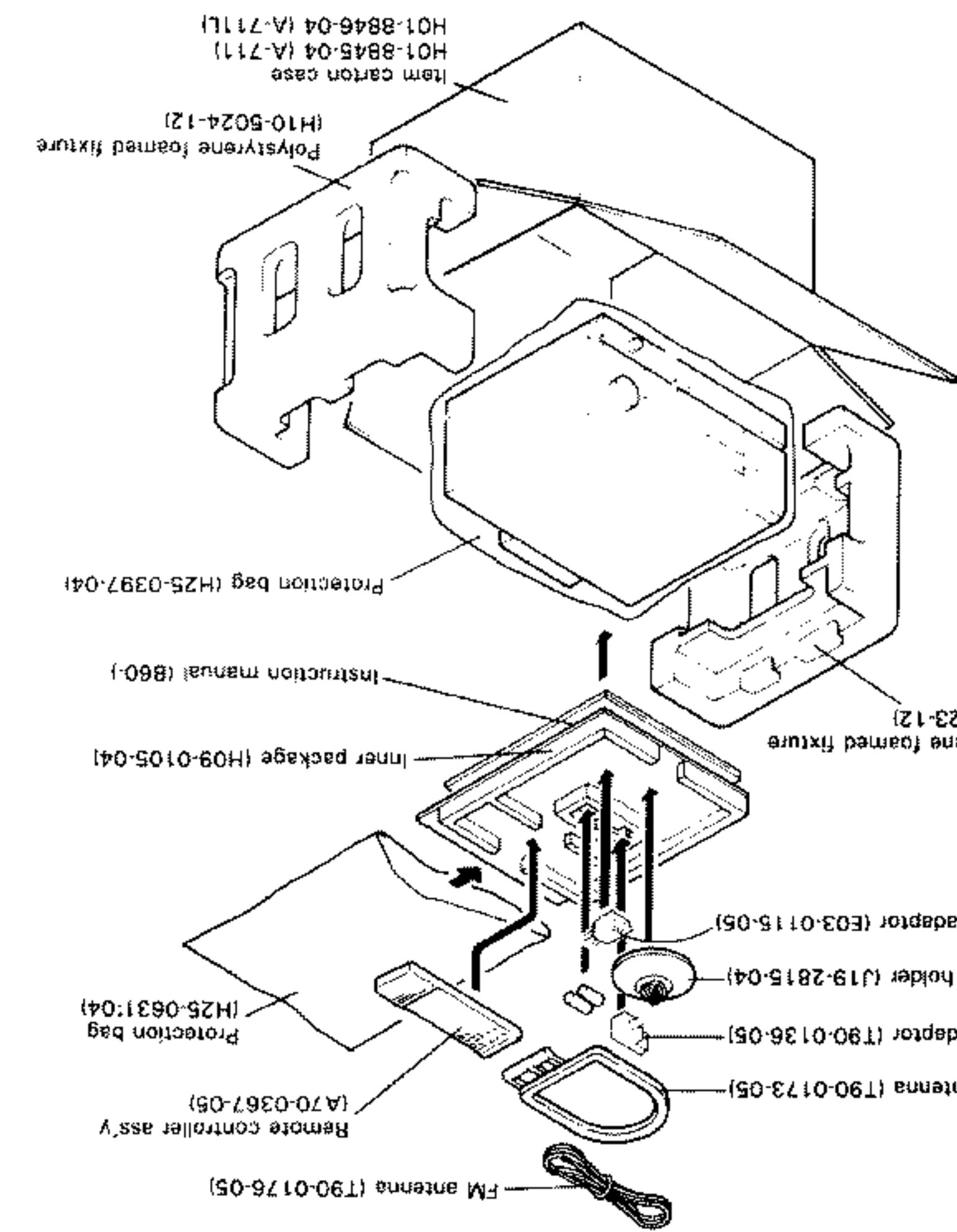
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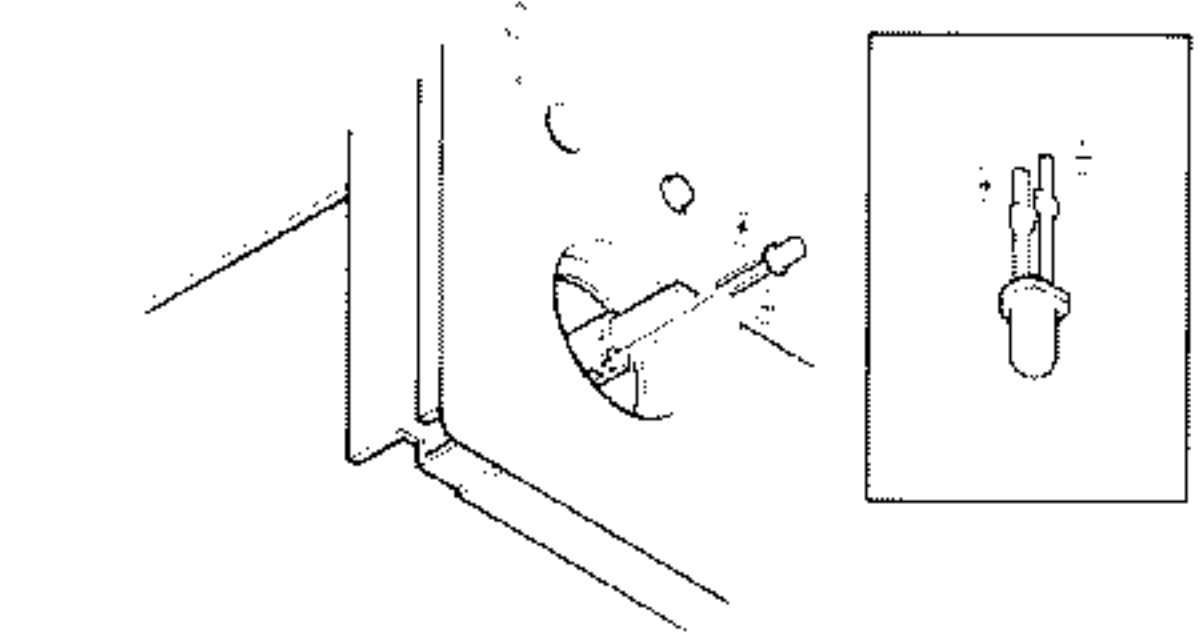
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PACKING

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.



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 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).

NOTES REGARDING SERVICES OF THIS UNIT AND FEATURES OF SYSTEM

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35 EXPLODED VIEW

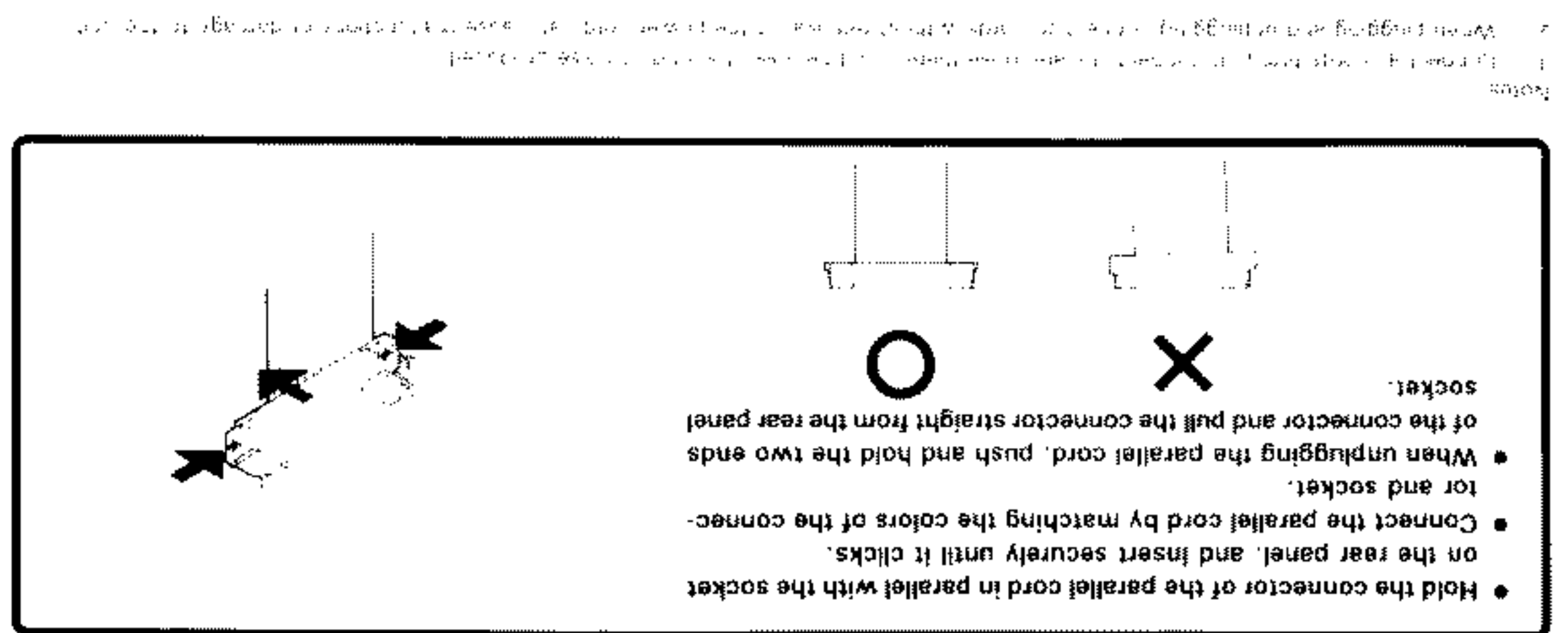
44 PARTS LIST

46 BACK COVER

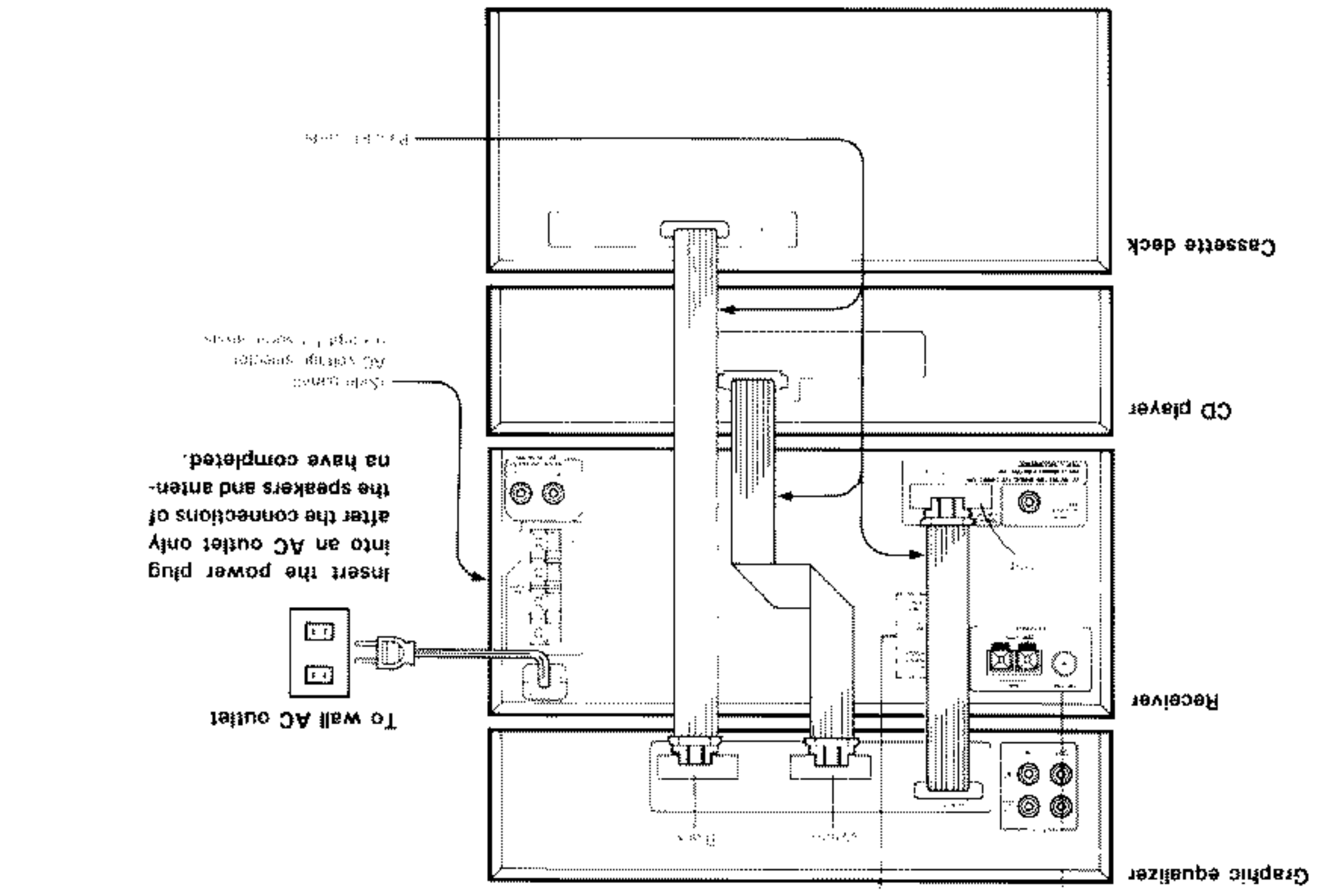
7 SPECIFICATIONS

10 BLOCK DIAGRAM

NOTES REGARDING SERVICES OF THIS UNIT AND FEATURES OF SYSTEM



Connection of parallel cord

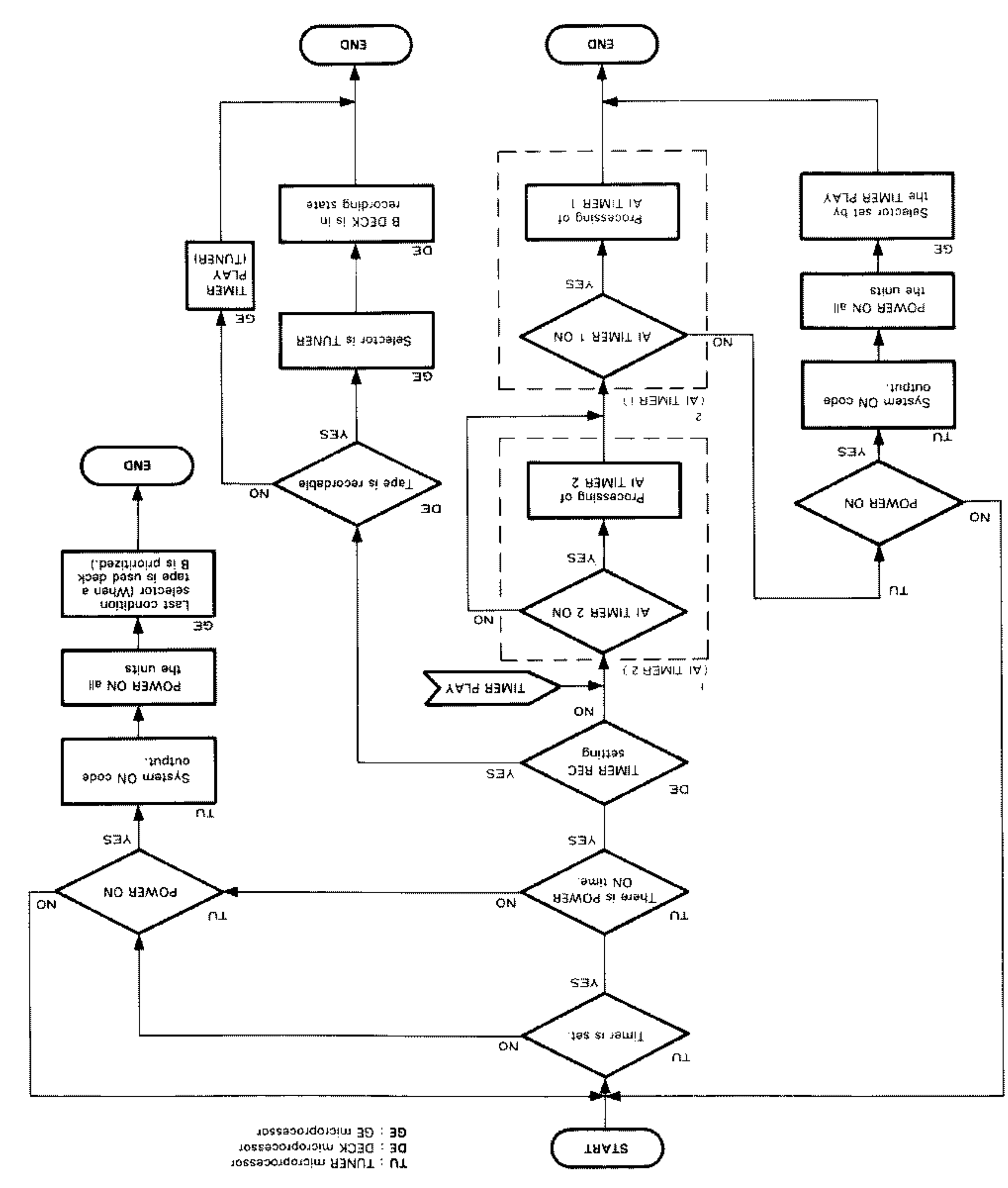


Do not plug in the power lead until all connections are completed. When connecting the parallel cord, be sure to match the colors of the sockets of the related components.

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

System connections

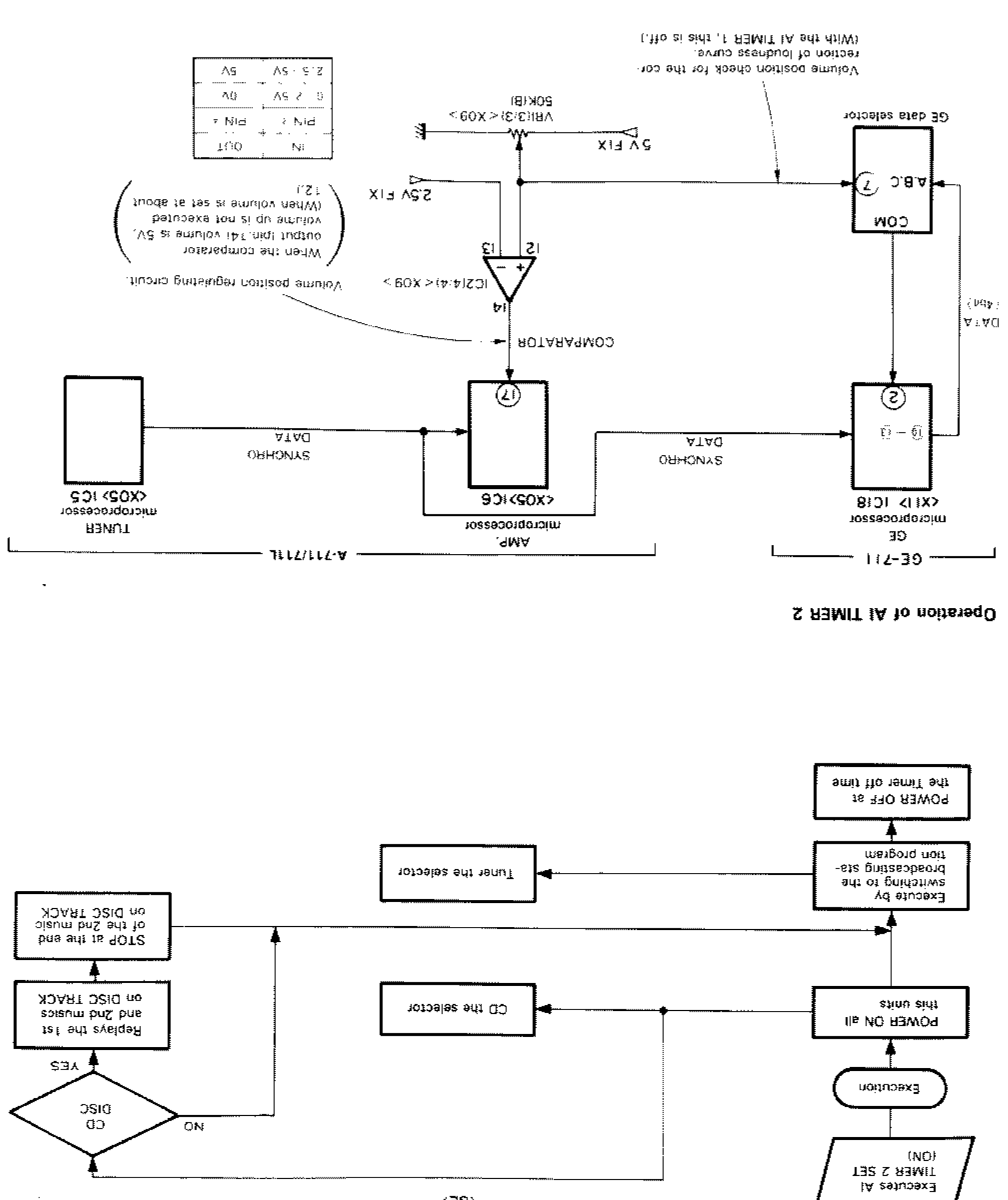
A-711/711L



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

CIRCUIT DESCRIPTION

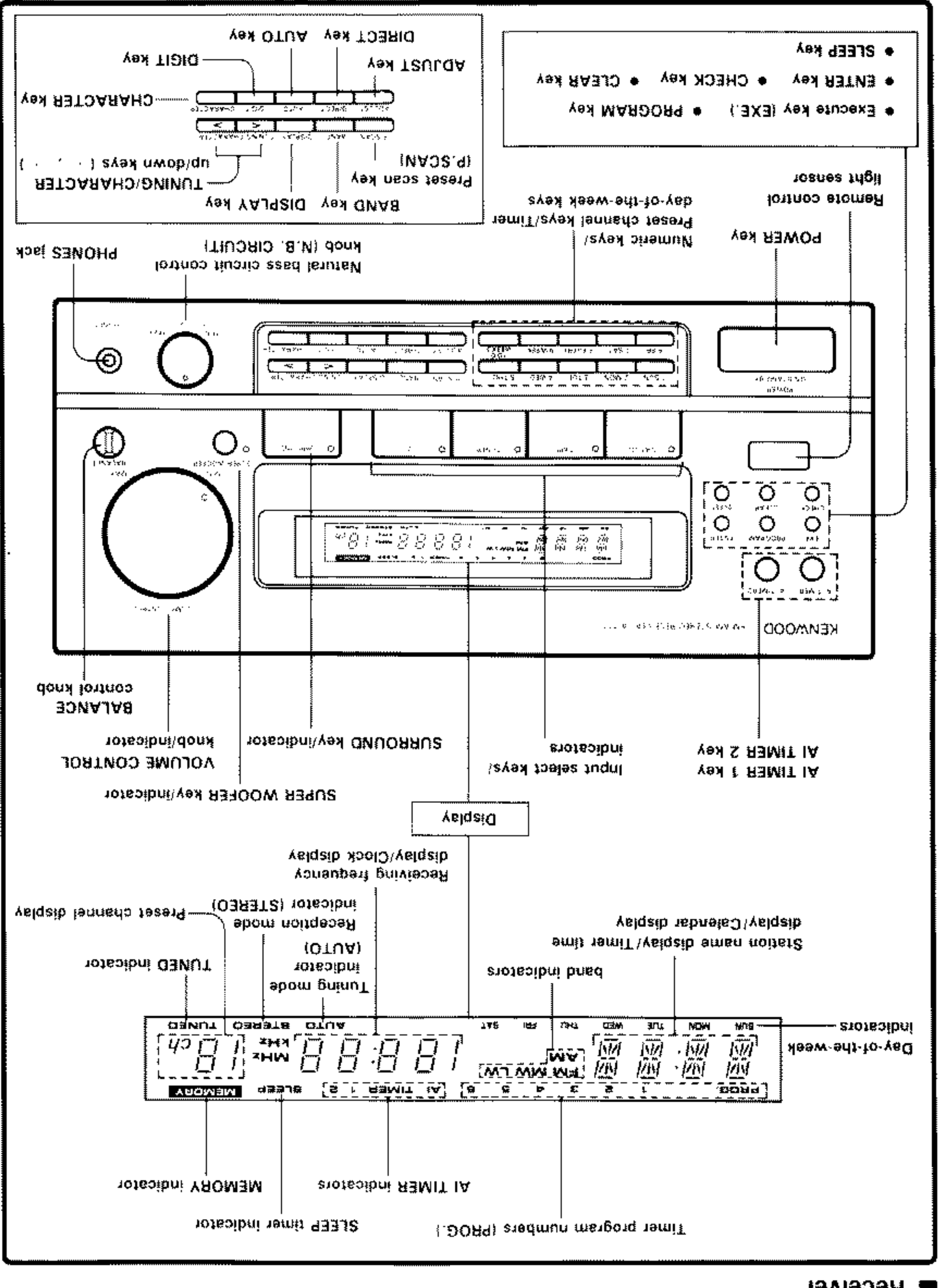
A-711/711L



① Flow chart of AI TIMER 2

CIRCUIT DESCRIPTION

A-711/711L



Receiver

Controls and indicators

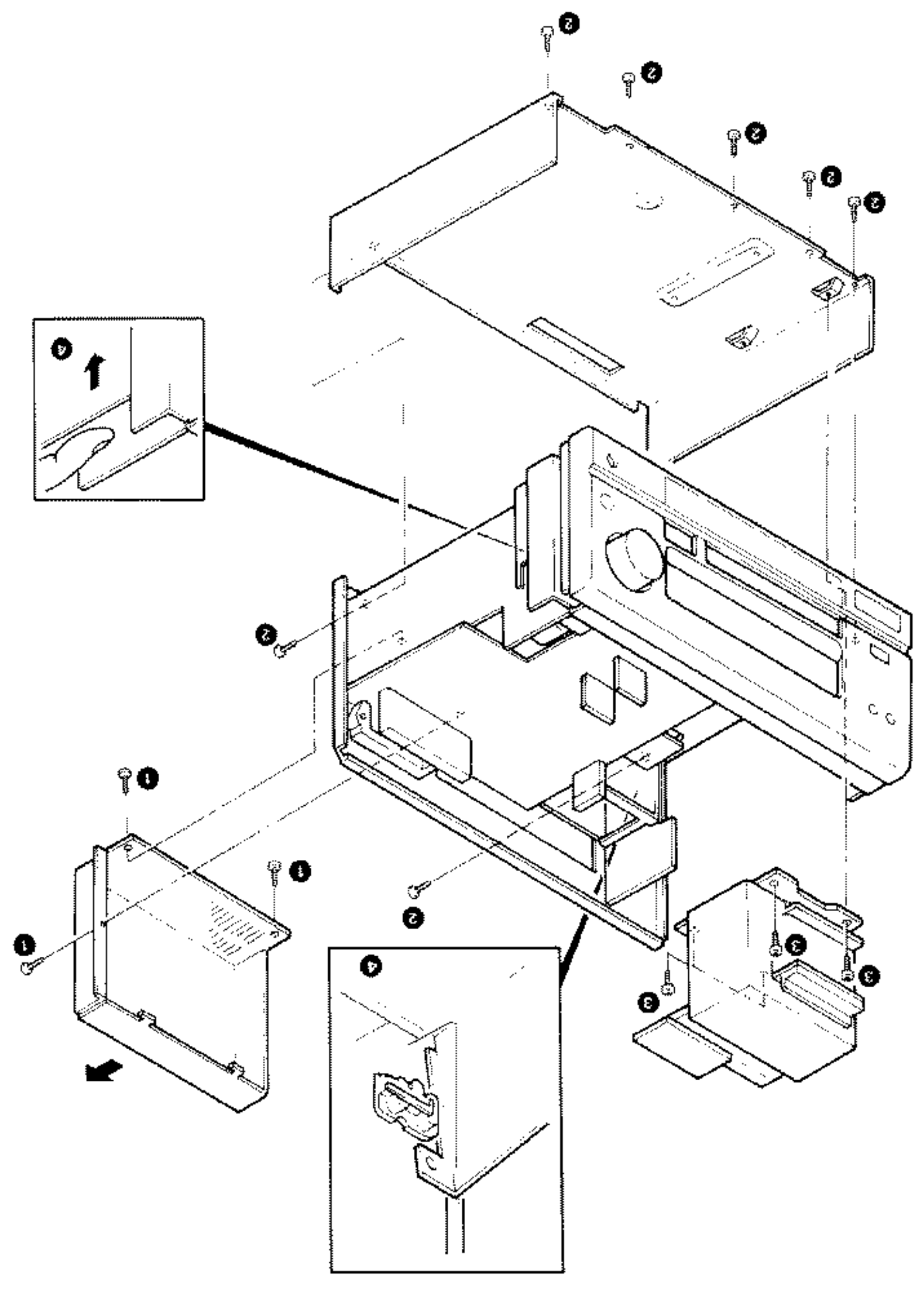
A-711/711L

PARTS LIST

Ref. No.	Parts No.	Description	Destination marks
Q7-10	2SC1845(F, E)	TRANSISTOR	
Q11-12	2SC4137F19(V, W)	TRANSISTOR	
Q13-14	2SD2558T*5	TRANSISTOR	
Q15-16	2S81493BT*5	TRANSISTOR	
Q17-18	2SC2631(R, S)	TRANSISTOR	
Q51	2SC2878(B)	TRANSISTOR	
Q52-53	2SA733(A)(Q, P)	TRANSISTOR	
Q52-53	2SA933(Q, R)	TRANSISTOR	
Q54	2SA992(F, E)	TRANSISTOR	
Q55	2SC3666	TRANSISTOR	
Q56	2SC1740S(Q, R)	TRANSISTOR	
Q56	2SC945(A)(Q, P)	TRANSISTOR	
Q57	2SD1266(Q, P)	TRANSISTOR	
* 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.			
Address E: Scandinavia & Europe K: USA P: Canada W: Europe V: Far East (Japan) T: England M: Other Areas Y: Africa (Europe) X: Australia			

△ indicates safety critical components.

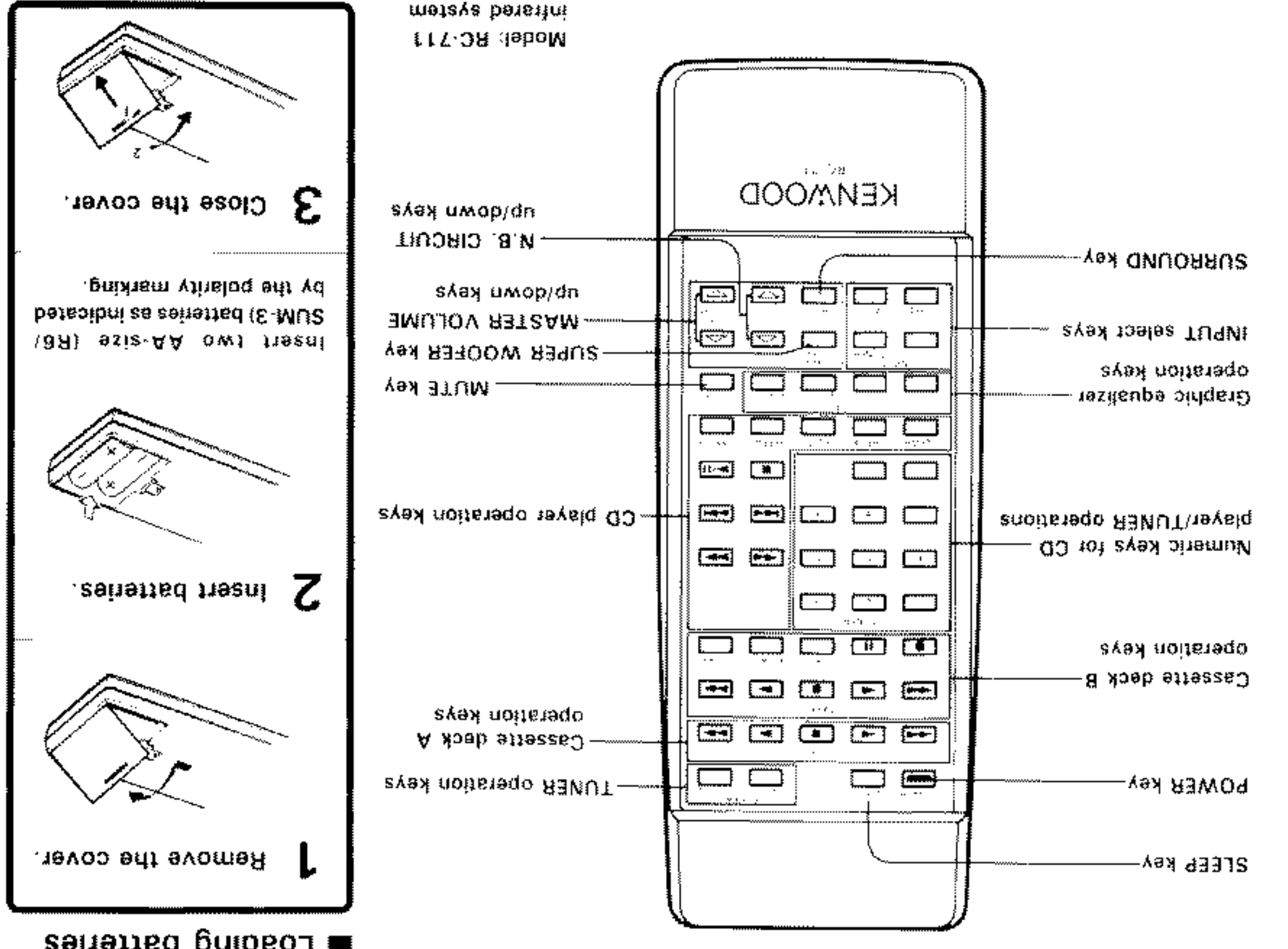
DISASSEMBLY FOR REPAIR



How to remove the chassis of bottom board

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

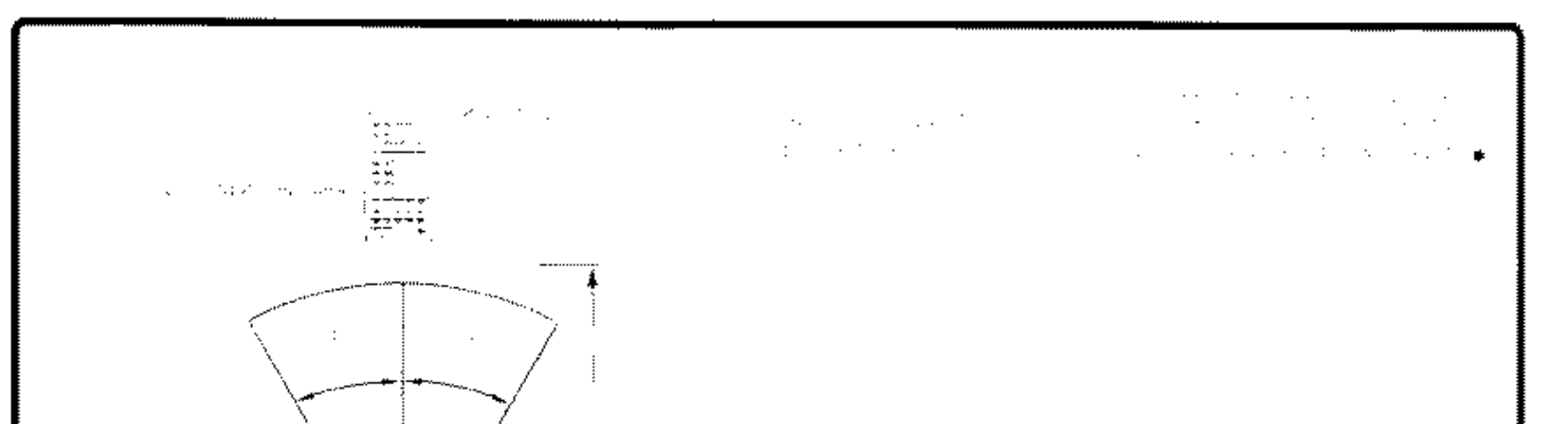
Operation of remote control unit



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.

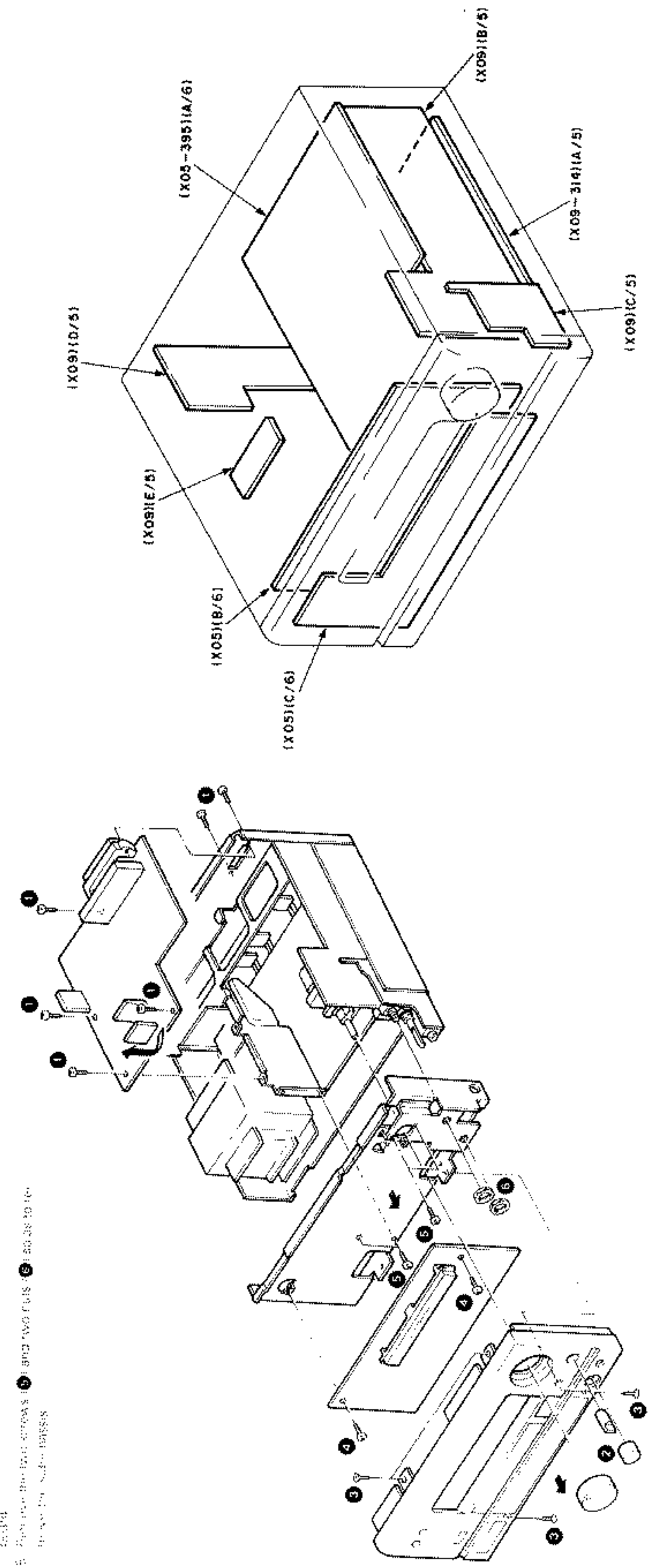
When the power is turned on, press the key of the source component to be operated.



DISASSEMBLY FOR REPAIR

How to remove tuner board and front panel

- 1 Remove 4 screws (1) from the tuner board from the front side.
- 2 Push the blue spring (2) to the right.
- 3 Push the blue spring (3) to the right.
- 4 Push the blue spring (4) to the right.
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DISASSEMBLY FOR REPAIR

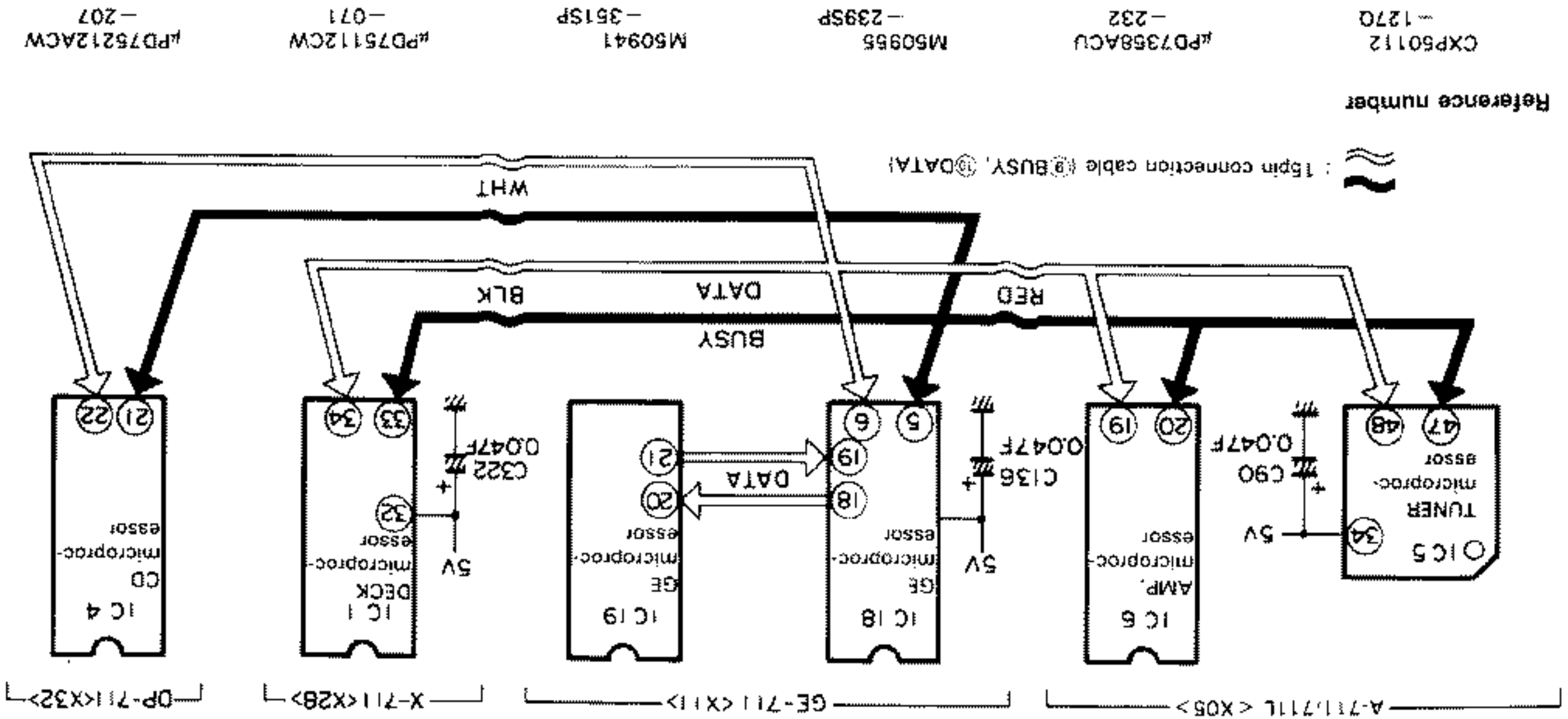
CIRCUIT DESCRIPTION

Function of components
Audio unit (X05-3142-71)

Ref. No.	Components	Use/Function	Operation/Condition
IC1	NJM2058D	Surround	Surround buffer
IC2	IC2 11/41 (2/4) headphone amplifier, IC2 13/41 super-woofer or buffer, Vh detecting comparator	Surround	Headphone amplifier, Super woofer
IC3	TC9215P	Surround	Surround selector
IC4	IC1237HA	Protection	MAIN VOL. is turned DOWN/UP with the pin No. 6 and 7 of IC6 <X05>. MUTE is turned ON/OFF with the pin No. 13 of IC6 <X05>. H: ON, L: OFF
IC5	TAB409S	Main volume drive	Surround is turned ON/OFF with the pin No. 23 of IC6 <X05>. H: ON, L: OFF
IC6	TAB409S	N.B.C. volume drive	It is turned ON by turning on OS2 For super woofer muting
IC7	PC7915HF	-15V stabilizing power source	Super woofer muting drive It is turned ON by lowering pin No. 9 of IC6 (X05). Triple filter
IC7-4	ZA9921E1	For 1st stage A class	For protection
IC7-5	PC7915HF	-15V stabilizing power source	AC relay drive It drives AC relay K1, 2 with the pin No. 14 of IC6 (X05). Speaker relay drive
IC7-6	ZA9921E1	For 2nd stage A class	For protection
IC7-7	PC7915HF	-15V stabilizing power source	For protection
IC7-8	PC7915HF	-15V stabilizing power source	For protection
IC7-9	PC7915HF	-15V stabilizing power source	For protection
IC7-10	PC7915HF	-15V stabilizing power source	For protection
IC7-11	PC7915HF	-15V stabilizing power source	For protection
IC7-12	PC7915HF	-15V stabilizing power source	For protection
IC7-13	PC7915HF	-15V stabilizing power source	For protection
IC7-14	PC7915HF	-15V stabilizing power source	For protection
IC7-15	PC7915HF	-15V stabilizing power source	For protection
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IC7-22	PC7915HF	-15V stabilizing power source	For protection
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IC7-24	PC7915HF	-15V stabilizing power source	For protection
IC7-25	PC7915HF	-15V stabilizing power source	For protection
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IC7-27	PC7915HF	-15V stabilizing power source	For protection
IC7-28	PC7915HF	-15V stabilizing power source	For protection
IC7-29	PC7915HF	-15V stabilizing power source	For protection
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IC7-33	PC7915HF	-15V stabilizing power source	For protection
IC7-34	PC7915HF	-15V stabilizing power source	For protection
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IC7-36	PC7915HF	-15V stabilizing power source	For protection
IC7-37	PC7915HF	-15V stabilizing power source	For protection
IC7-38	PC7915HF	-15V stabilizing power source	For protection
IC7-39	PC7915HF	-15V stabilizing power source	For protection
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IC7-41	PC7915HF	-15V stabilizing power source	For protection
IC7-42	PC7915HF	-15V stabilizing power source	For protection
IC7-43	PC7915HF	-15V stabilizing power source	For protection
IC7-44	PC7915HF	-15V stabilizing power source	For protection
IC7-45	PC7915HF	-15V stabilizing power source	For protection
IC7-46	PC7915HF	-15V stabilizing power source	For protection
IC7-47	PC7915HF	-15V stabilizing power source	For protection
IC7-48	PC7915HF	-15V stabilizing power source	For protection
IC7-49	PC7915HF	-15V stabilizing power source	For protection
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IC7-87	PC7915HF	-15V stabilizing power source	For protection
IC7-88	PC7915HF	-15V stabilizing power source	For protection
IC7-89	PC7915HF	-15V stabilizing power source	For protection
IC7-90	PC7915HF	-15V stabilizing power source	For protection
IC7-91	PC7915HF	-15V stabilizing power source	For protection
IC7-92	PC7915HF	-15V stabilizing power source	For protection
IC7-93	PC7915HF	-15V stabilizing power source	For protection
IC7-94	PC7915HF	-15V stabilizing power source	For protection
IC7-95	PC7915HF	-15V stabilizing power source	For protection
IC7-96	PC7915HF	-15V stabilizing power source	For protection
IC7-97	PC7915HF	-15V stabilizing power source	For protection
IC7-98	PC7915HF	-15V stabilizing power source	For protection
IC7-99	PC7915HF	-15V stabilizing power source	For protection
IC7-100	PC7915HF	-15V stabilizing power source	For protection

Microprocessor and back-up condenser of this unit

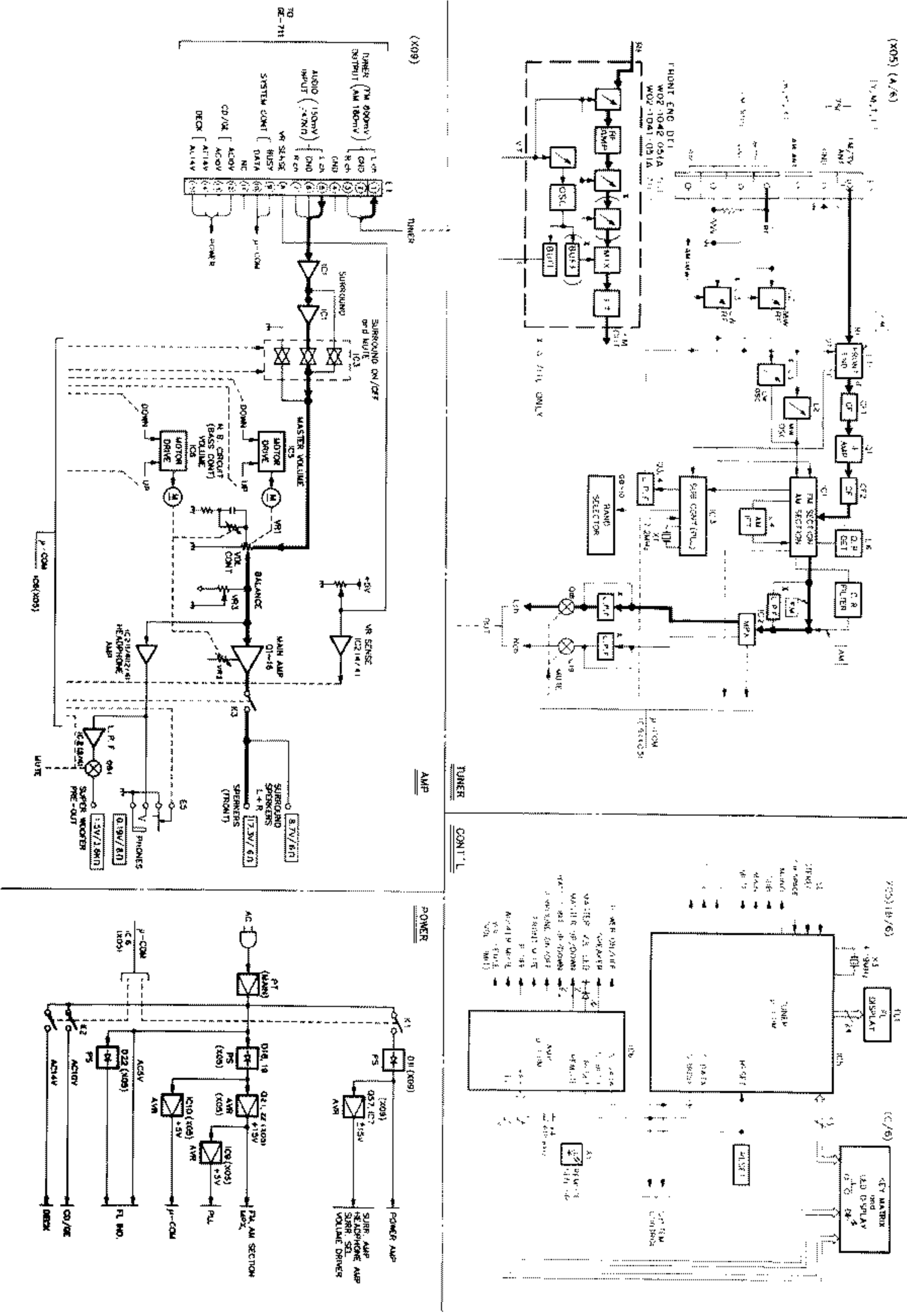
CIRCUIT DESCRIPTION



Initialization (reset) of each microprocessor and test mode

Back-up Condenser	Initialization (Reset)	Operation	Release	Contents
IC5 (X05) C90 0.047F 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) C90 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 more than three seconds per selector turns out to GE.	Turn AC on and off without pressing any key.	For details, see the test mode for details. There is no adjustment of DP-711.
IC18 (X11) 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 more than three seconds per selector turns out to GE.	Turn AC on and off without pressing any key.	For details, see the test mode for details. There is no adjustment of DP-711.
IC19 (X11) 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 more than three seconds per selector turns out to GE.	Turn AC on and off without pressing any key.	For details, see the test mode for details. There is no adjustment of DP-711.
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 more than three seconds per selector turns out to GE.	Turn AC on and off without pressing any key.	For details, see the test mode for details. There is no adjustment of DP-711.
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 more than three seconds per selector turns out to GE.	Turn AC on and off without pressing any key.	For details, see the test mode for details. There is no adjustment of DP-711.

BLOCK DIAGRAM



Function of components
Tuner unit (X05-392-71)

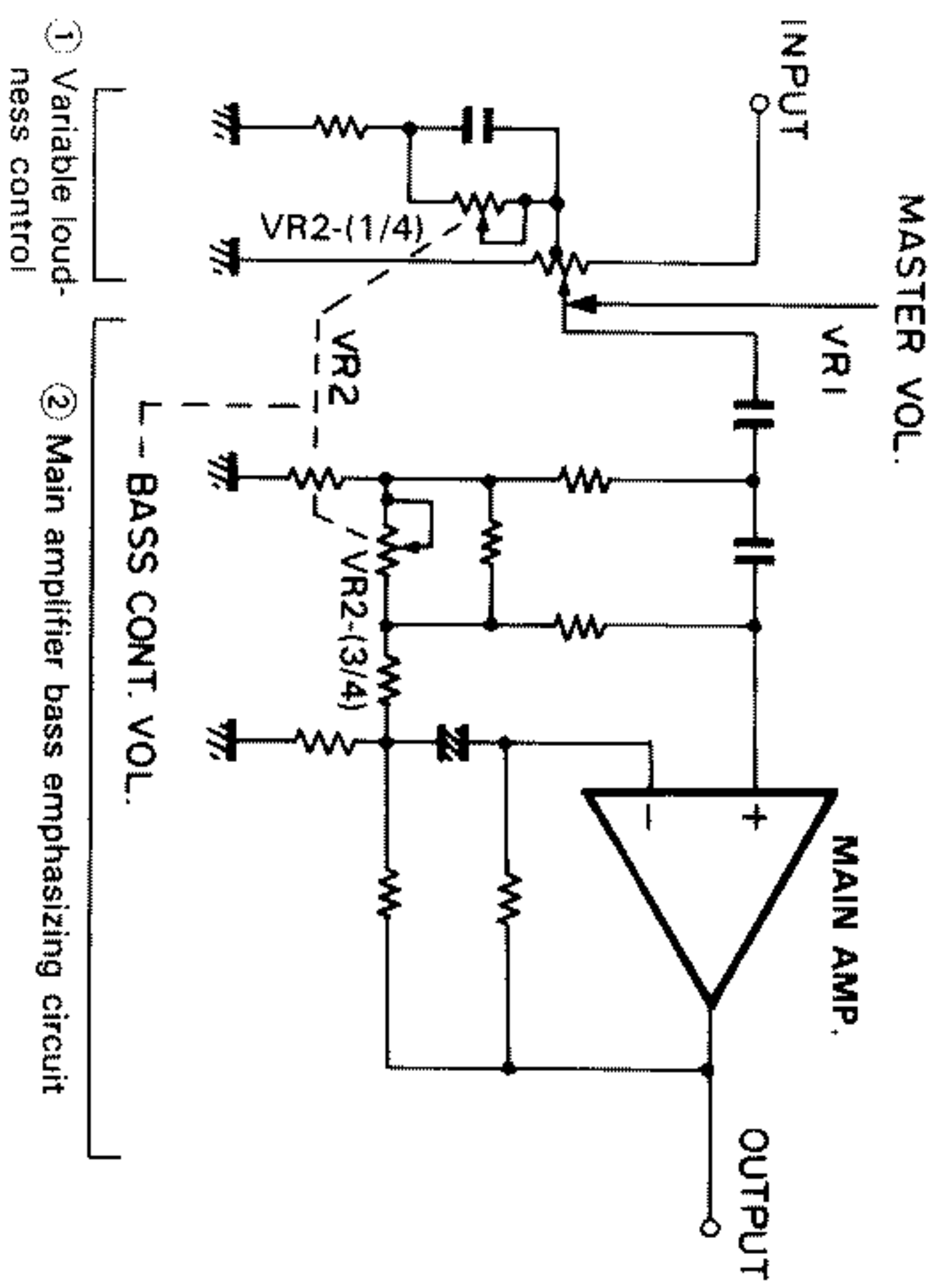
Ref. No.	Components	Use/Function	Operation/Condition
IC1	LA1265	FM/AM system IC	FM IF amplification, FM detection, AM MIX, AM IF amplification and AM detection
IC2	AN7470	Audio demodulation (AM, FM) PLL IC	FM stereo multiplex
IC3	LM7001	PLL IC	Tuner control, tuner operation and control of others
IC5	XP50112-1270	Tuner microprocessor	Amplifier control
IC6	PD7356ACU-232	Amplifier microprocessor	Reset IC
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	ZSC1923IR Q1	IF amplification SW	At the time of LW conversion
Q2	ZSK163IL M1	PLL time constant conversion	At the time of LW reception
Q3	ZSC17405IQ, R1 or ZSC1845FE1	L.P.F. for PLL (integration type)	At the time of LW: ON
Q4	ZSC17405IQ, R1 or ZSC1845FE1	L.P.F. for PLL (integration type)	At the time of MW: ON
Q5	ZSC945A1IQ, P1 or ZSC17405IQ, R1	MW/LW conversion	At the time of MW: ON
Q6	ZSC945A1IQ, P1 or ZSC17405IQ, R1	MW/LW conversion	At the time of LW: ON
Q7	ZSC945A1IQ, P1 or ZSC17405IQ, R1	Buffer	Buffer for FM detecting output (for L.P.F. matching)
Q8	ZSA733A1IQ, P1 or ZSA933SIQ, R1	FM + B conversion	At the time of receiving FM: ON
Q9	ZSA733A1IQ, P1 or ZSA933SIQ, R1	LW + B conversion	At the time of receiving LW: ON
Q10	ZSA733A1IQ, P1 or ZSA933SIQ, R1	MW + B conversion	At the time of receiving MW: ON
Q11	ZSC945A1IQ, P1 or ZSC17405IQ, R1	Deemphasis conversion	At the time of Tr. ON: 75 μsec
Q12	ZSC945A1IQ, P1 or ZSC17405IQ, R1	Deemphasis conversion	At the time of Tr. ON: 75 μsec
Q13	ZSA733A1IQ, P1 or ZSA17405IQ, R1	Reversing circuit	Controls reset circuit (Tuner μ-COM)
Q14	ZSA733A1IQ, P1 or ZSA933SIQ, R1	Reversing circuit	Controls reset circuit (Amplifier μ-COM)
Q15	ZSA733A1IQ, P1 or ZSA933SIQ, R1	Reversing circuit	Reverses the mute signal from the amplifier microprocessor
Q16	ZSA733A1IQ, P1 or ZSA933SIQ, R1	Reversing circuit	Reverses the mute signal from the tuner microprocessor
Q17	ZSA733A1IQ, P1 or ZSA933SIQ, R1	Destination Conversion SW	Converts deemphasis and channel space
Q18	ZSD1302IS, T1	Mute	Mute SW of Lch
Q19	ZSC1302IS, T1	Mute	Mute SW of Rch
Q21	ZSC1266IQ, P1	+14V rectification	Generates the stabilized power source for 14V
Q22	ZSC945A1IQ, P1 or ZSC17405IQ, R1		
Q23	ZSC945A1IQ, P1 or ZSC17405IQ, R1		

CIRCUIT DESCRIPTION

CIRCUIT DESCRIPTION

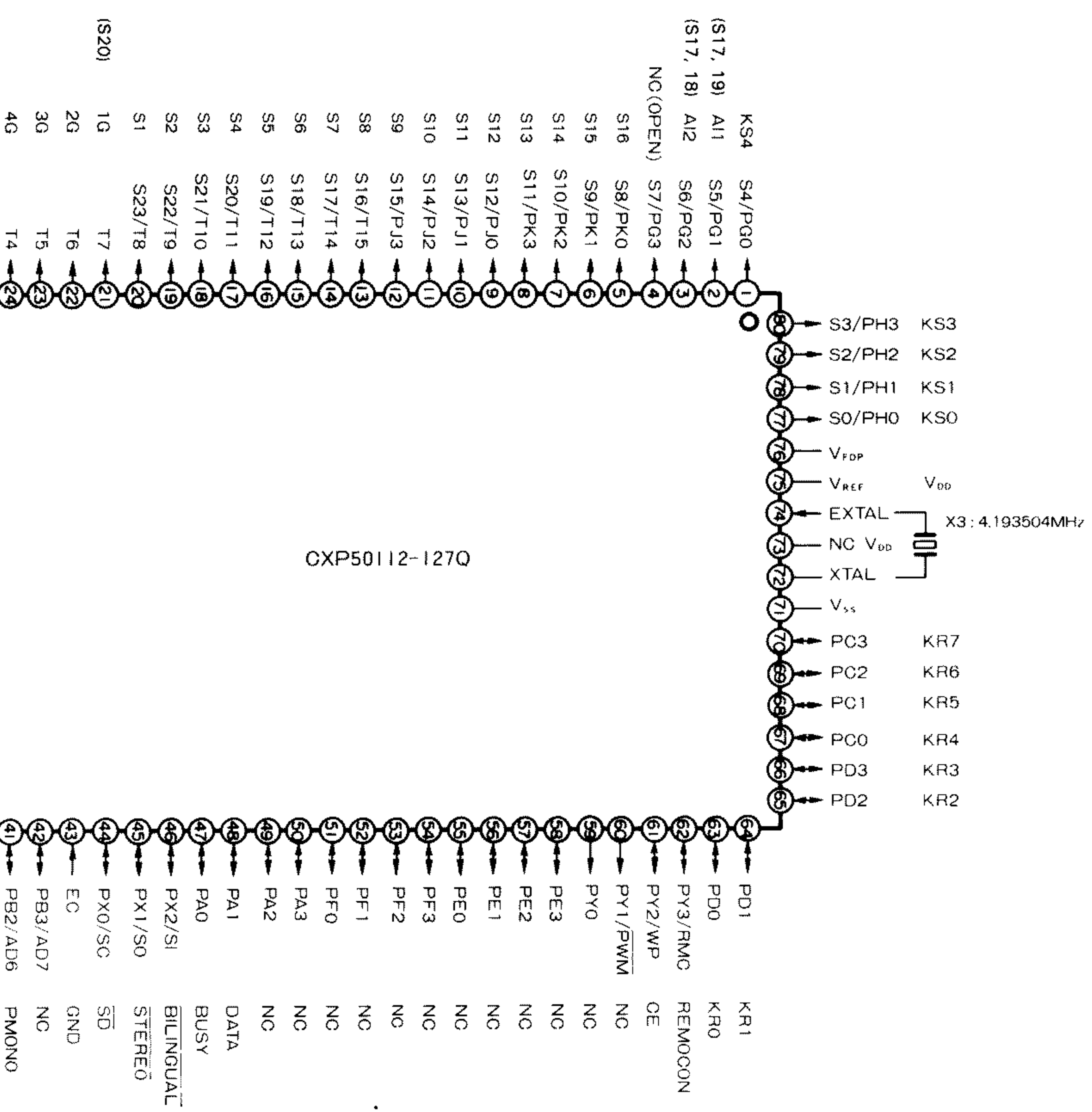
N.B. CIRCUIT (X09-3142-71 (B/5))
 The N.B. of N.B. CIRCUIT stands for Natural Bass, and it is the circuit to create further natural bass sound.
 It is roughly composed of ① Variable loudness control and ② Main amplifier bass emphasizing circuit showed in the chart.
 The ① Variable loudness control in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



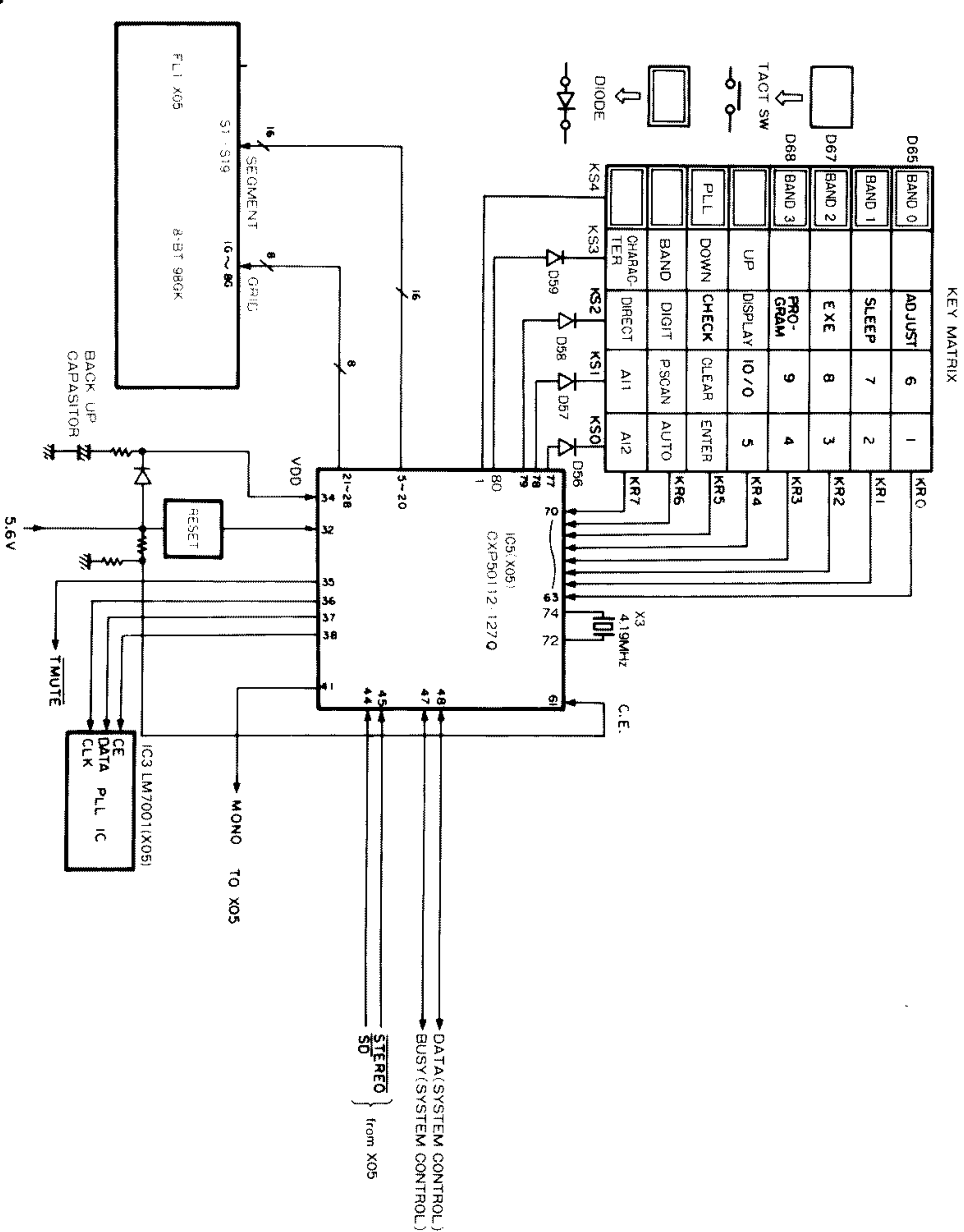
CIRCUIT DESCRIPTION

Pin connections



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

Terminal connection diagram & key matrix connection



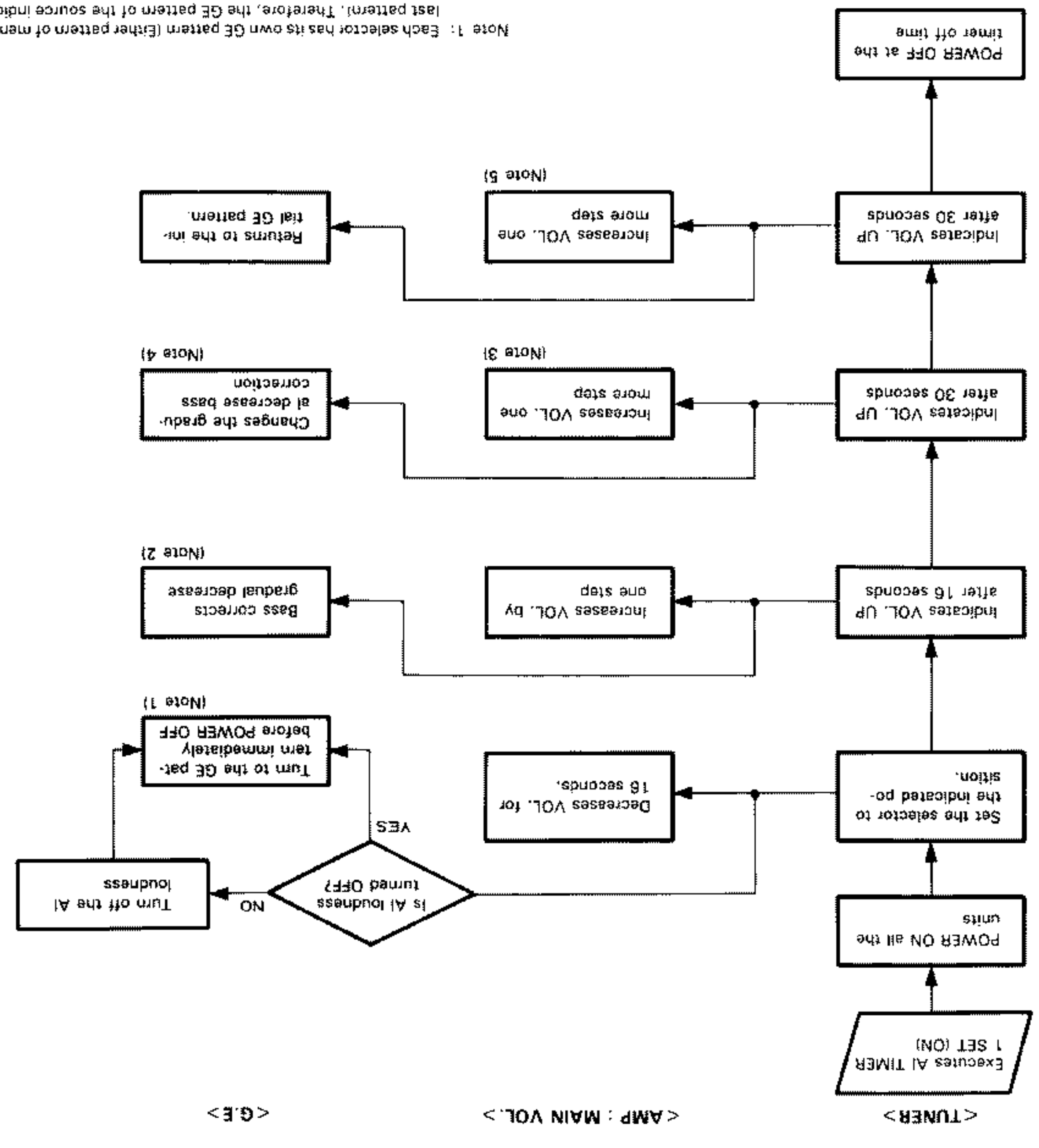
Note 1: Each selector has its own GE pattern (either pattern of memory and last pattern). Therefore, the GE pattern of the source indicated by the timer appears.

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/FG4	O	S8	FL segment output
6	S9/FG5	O	S9	FL segment output
7	S10/FG6	O	S10	FL segment output
8	S11/FG7	O	S11	FL segment output
9	S12/FG8	O	S12	FL segment output
10	S13/FG9	O	S13	FL segment output
11	S14/FG10	O	S14	FL segment output
12	S15/FG11	O	S15	FL segment output
13	S16/FG12	O	S16	FL segment output
14	S17/FG13	O	S17	FL segment output
15	S18/FG14	O	S18	FL segment output
16	S19/FG15	O	S19	FL segment output
17	S20/FG16	O	S20	FL segment output
18	S21/FG17	O	S21	FL segment output
19	S22/FG18	O	S22	FL segment output
20	S23/FG19	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/SO	I	ST	Stereo signal input

A-711/711L

CIRCUIT DESCRIPTION

Pin functions

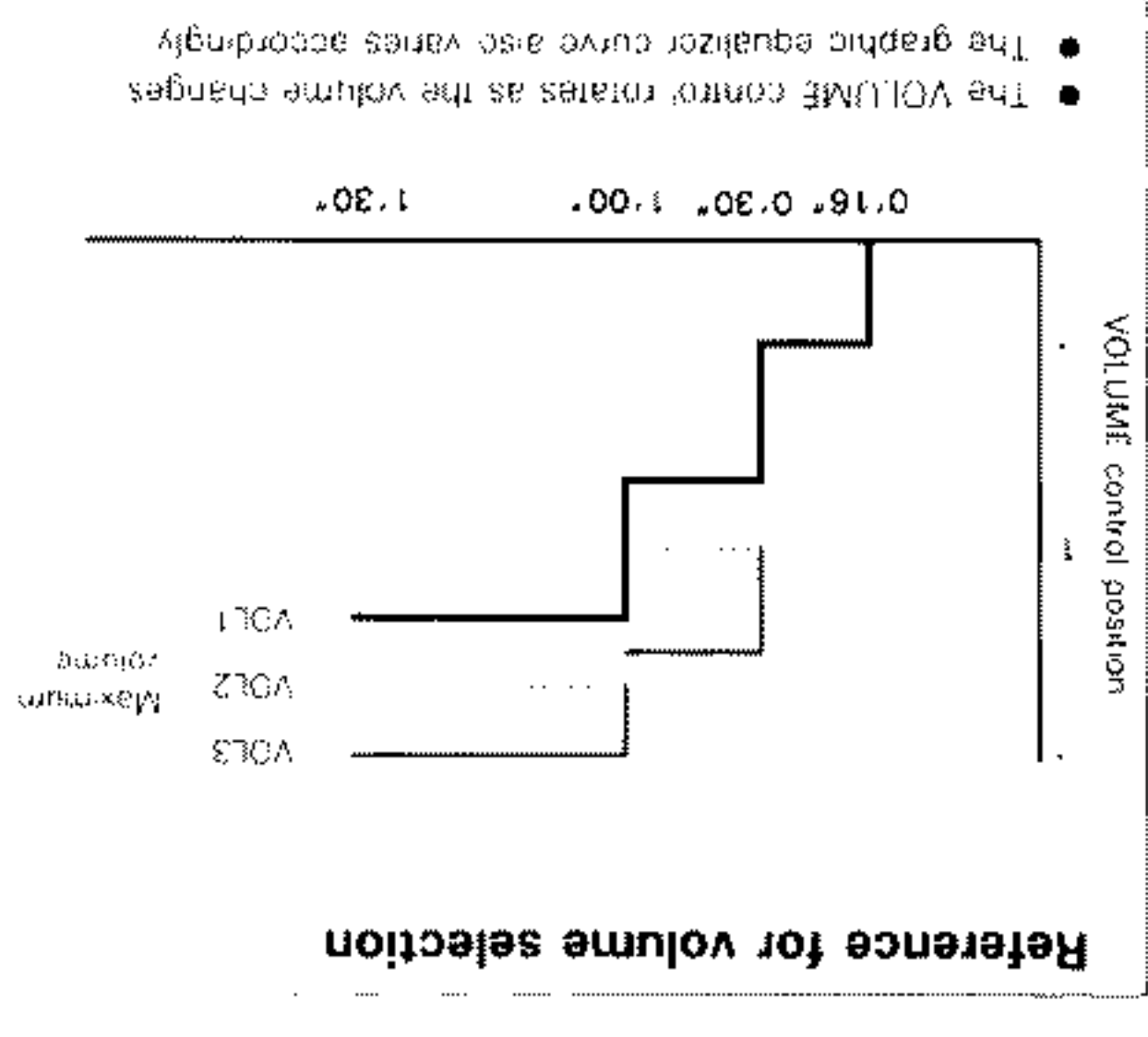
● With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 1 is activated if the AI TIMER 1 is set to ON (the FL indicator is lit).

● 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):
VOL. 2 ← VOL. 3 ← OFF ← VOL. 1



● The VOLUME control rotates as the volume changes. The graphic equalizer curve also varies accordingly.

● 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, the two tracks on 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.

Function description

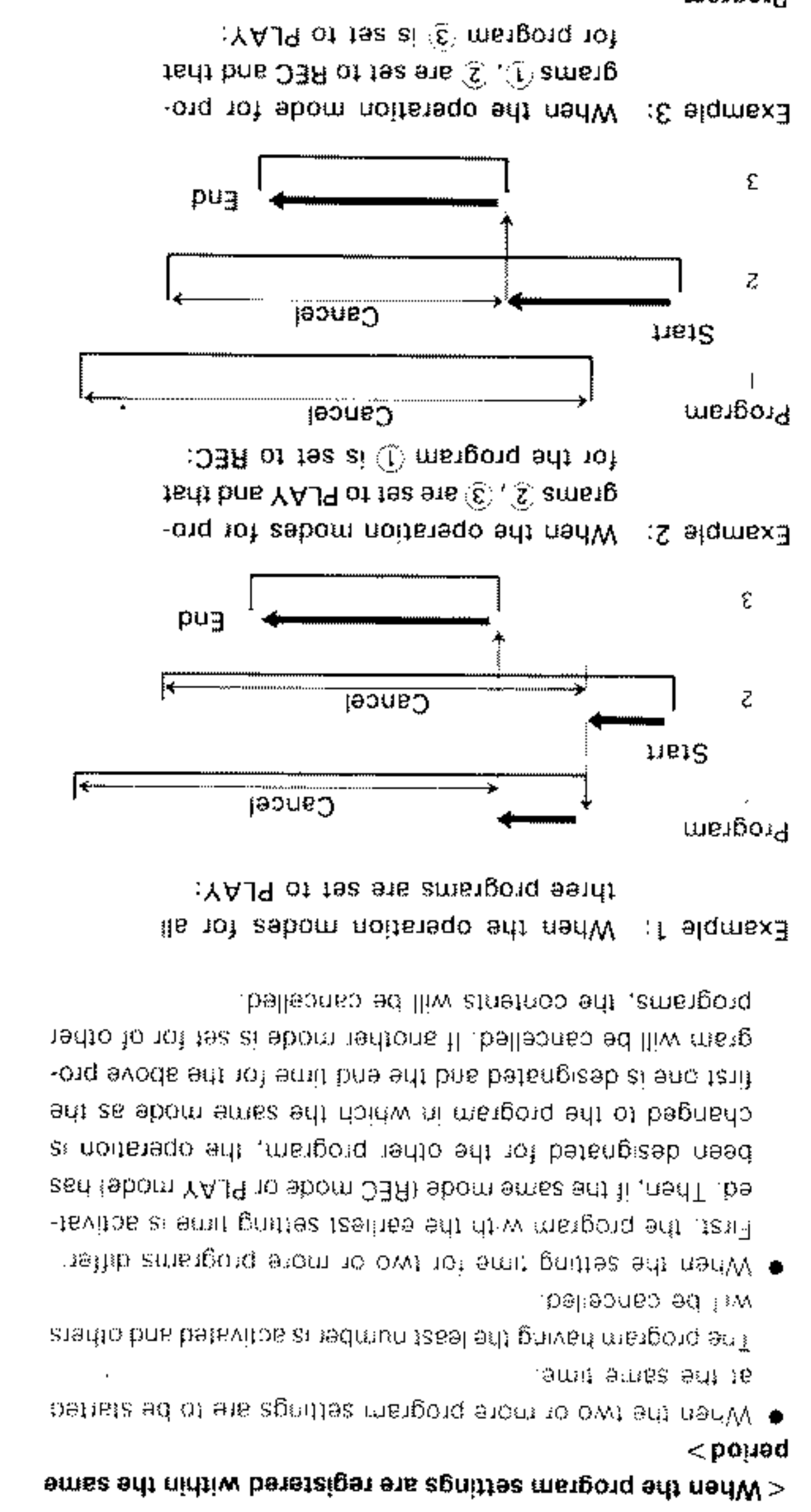
CIRCUIT DESCRIPTION

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	KSO	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

Timer program operation

A-711/711L



Timer program operation

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	83.5 MHz	83.5 MHz	83.5 MHz	83.5 MHz	83.5 MHz	83.5 MHz
270 kHz	270 kHz	1440 kHz	1440 kHz	1440 kHz	1440 kHz	1440 kHz	1440 kHz
281 kHz	281 kHz	1610 kHz	1610 kHz	1610 kHz	1610 kHz	1610 kHz	1610 kHz
350 kHz	350 kHz	11700 kHz	11700 kHz	11700 kHz	11700 kHz	11700 kHz	11700 kHz
130 kHz	130 kHz	153 kHz	153 kHz	153 kHz	153 kHz	153 kHz	153 kHz
120 kHz	120 kHz	162 kHz	162 kHz	162 kHz	162 kHz	162 kHz	162 kHz
80 kHz	80 kHz	153 kHz	153 kHz	153 kHz	153 kHz	153 kHz	153 kHz
350 kHz	350 kHz	153 kHz	153 kHz	153 kHz	153 kHz	153 kHz	153 kHz
620 kHz	620 kHz	8	8	8	8	8	8

(Table 1)

(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

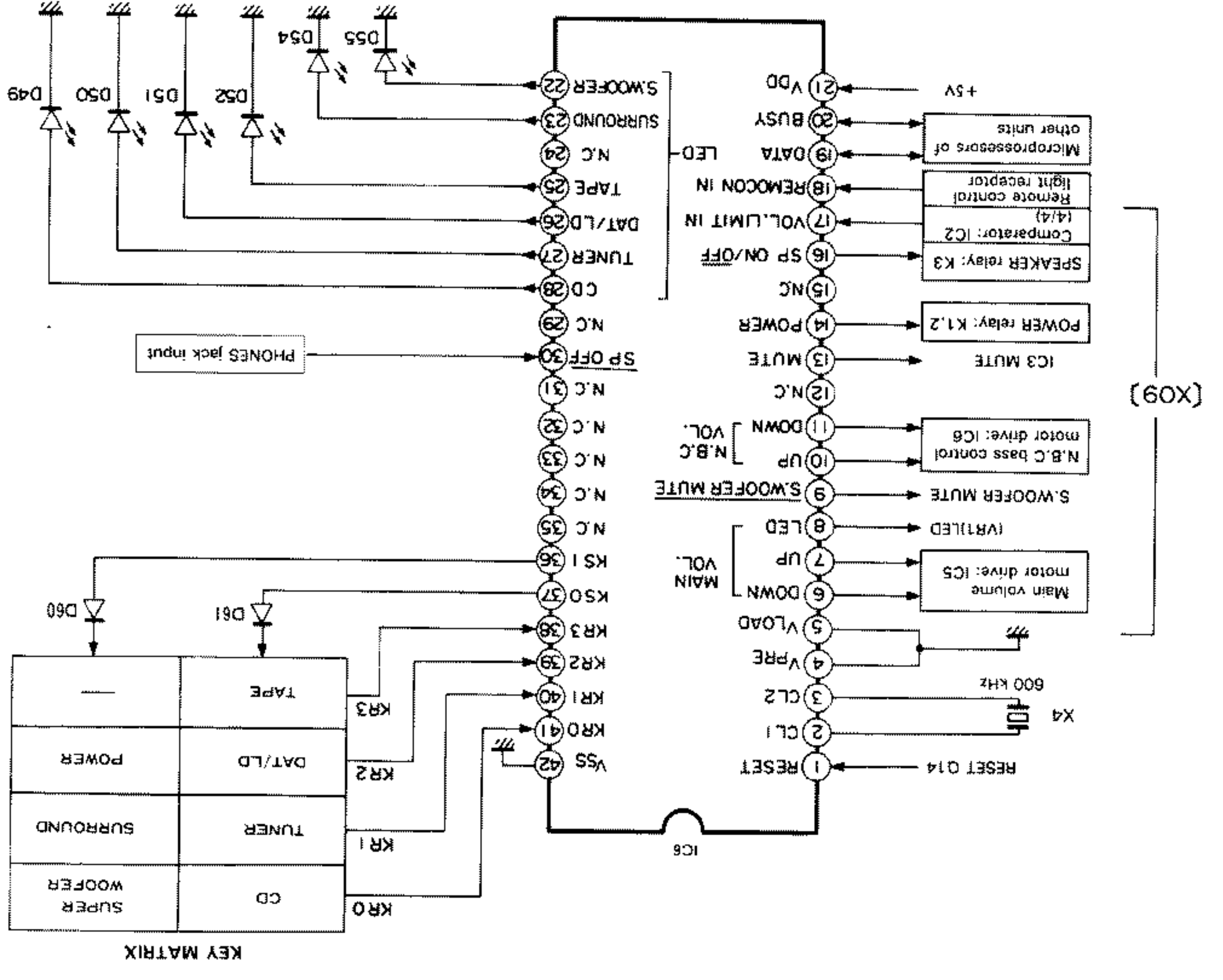
A-711/711L

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 WOOFFER
23	P92	O	SURROUND
24	P91	-	No use. (OPEN)
25	P90	O	TAPE
26	P83	O	DATA/LD drive
27	P82	O	TUNER
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

Pin functions

CIRCUIT DESCRIPTION

A-711/711L



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

CIRCUIT DESCRIPTION

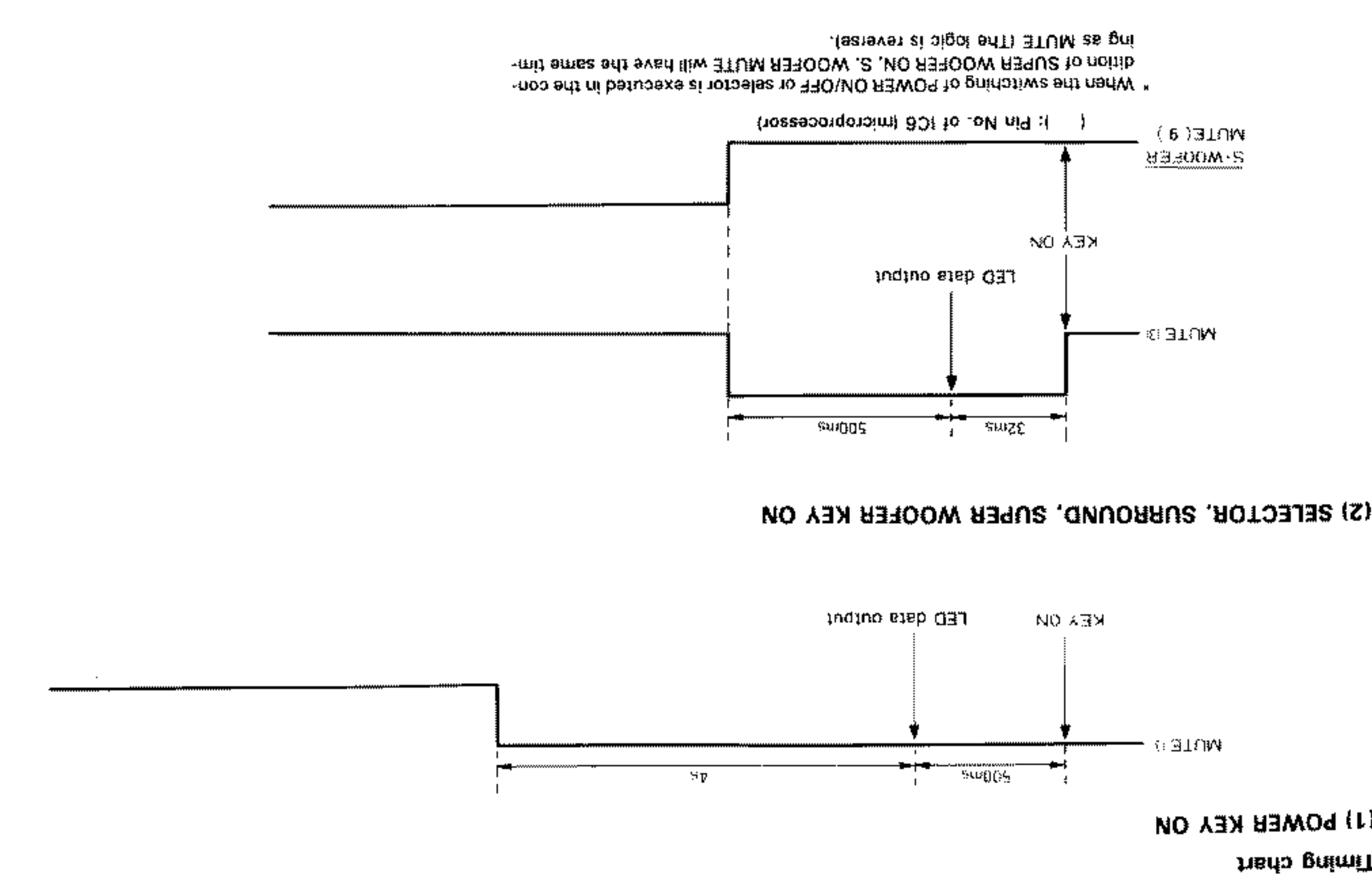
A-711/711L

(1) Setting method
While pressing the "CD" key and tuning "DOWN" key, insert the AC plug into the outlet and 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.

(2) 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 "POWER" key from the outlet and then insert again.

(3) Contents of operation
POWER is turned ON and all the LEDs are lit on. By pressing "S-WOOFER", both the VOLUME and N.B. CIRCUIT are simultaneously up, and remain to be up for 2 seconds. Then, they go DOWN and STOPS after about 12 seconds.

Even if the "CD", "TAPES", "DAT LD", "SURROUND" and "POWER" keys are pressed, they are not accepted.



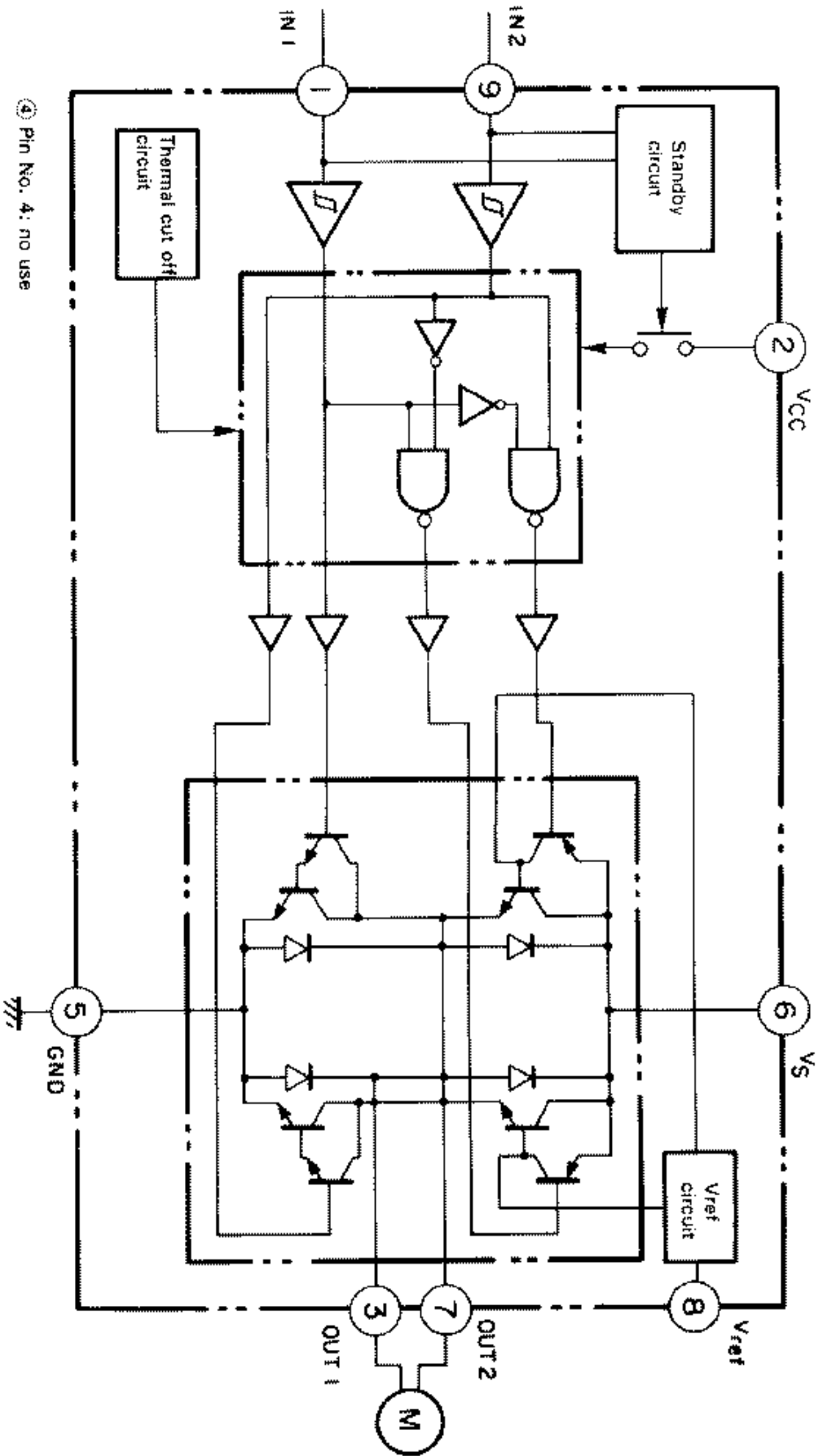
Timing chart

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	OUT 2	Pin No. of IC5, 6
0	∞	∞	Motor mode
0	L	H	STOP
0	L	L	CW
1	L	L	CCW
1	L	L	BRAKE

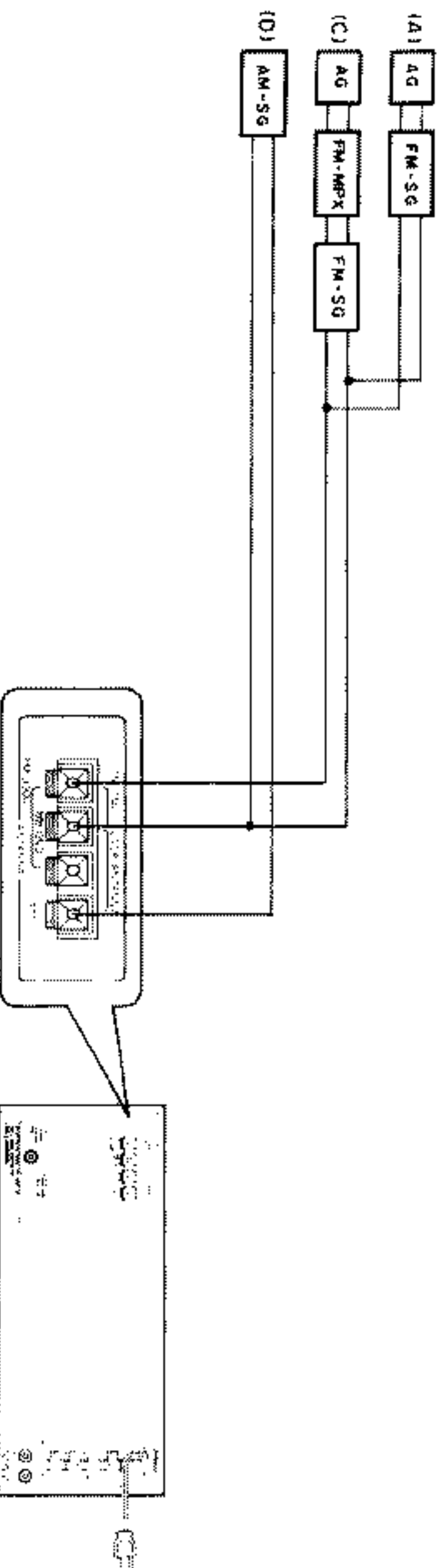
∞: High impedance
Input "H": active

Tuner unit

† If alignment point is "...", confirm the value.
‡ If not, replace the front-end pack and ICA433-PL3

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)	RT 3MHz	1.6V	(a)
2	BAND EDGE (2)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	108.0MHz	8.0V	(a)
3	DISCRIMINATOR	98.0MHz 1kHz, 75kHz dev 600μV(AFT input)	Connect a DC voltmeter between TP11 and TP12	AUTO or MONO 98.0MHz	0V	(b)
4	VCO	98.0MHz 0 dev 100dB(AFT input)	Connect a frequency counter between TP6 and GND	AUTO 98MHz (X03)	19.0MHz	(c)
5	DISCRETION (STEREO)	98.0MHz 1kHz, 56.25kHz dev P1:0.28, 75kHz dev S1:0.14(AFT input)	(D)	RF1 (X02)	Minimum distortion.	
6	SEPARATION (E.J. type only)	98.0MHz Stereo signal 600μV(AFT input)	(D)	VR3 (X03)	Minimum cross-talk.	
7	TUNING LEVEL	98.0MHz 9 dev 140dB(AFT input) 750	Keep the AM loop antenna installed. (D)	VR1 (X02)	Adjust VR1 and stop at the point where B(LITENED) goes on.	
AM-MW SELECTION						
(1)	BAND EDGE (1)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	530kHz (S11kHz)	1.3V	(a)
(2)	BAND EDGE (2)	-	Connect a DC voltmeter between TP10(VT) and TP13(GND)	1810kHz (1602kHz)	1.0V	(a)
(3)	RF ALIGNMENT	990kHz 400Hz, 30% mod 340μV(AFT input)	(D)	990kHz BLACK (X03)	Maximum amplitude and symmetry of the oscilloscope display.	
AM-LW SELECTION (E.J. 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	1.0V	(a)
Repeat alignments (4) and (5) several times.						
(6)	RF ALIGNMENT	215kHz 100Hz, 50% mod 330μV(AFT input)	(D)	RF1 (X02)	Maximum amplitude and symmetry of the oscilloscope display.	

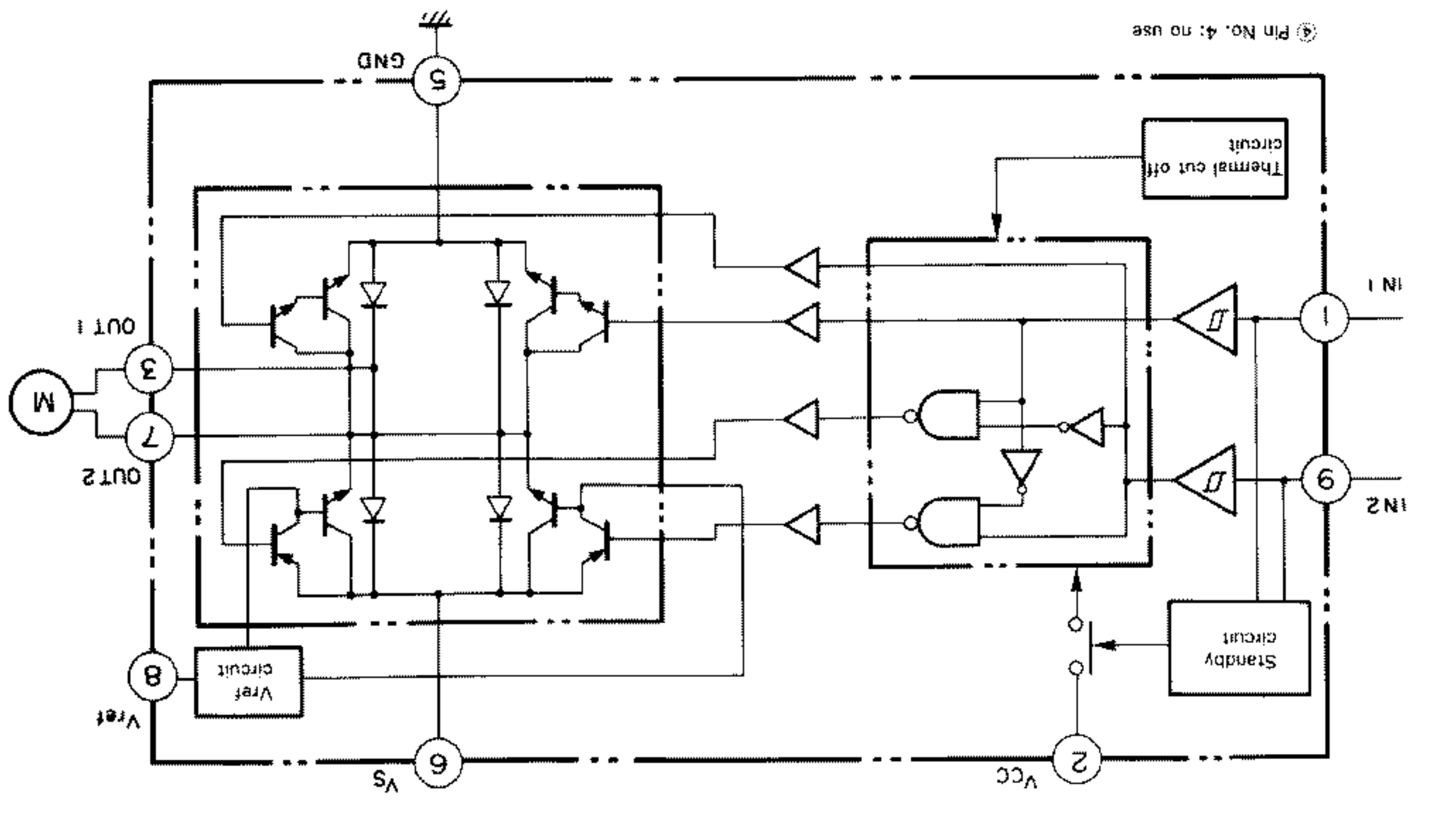
Connection



Truth table

MODE	INPUT	OUTPUT
STOP	IN 1 IN 2	OUT 1 OUT 2
CCW	L	L
CW	L	H
BRAKE	L	L

Pin No. of IC5, 6
① IN 1
② IN 2
③ OUT 1
④ OUT 2
⑤ High impedance
⑥ Input "H" active



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

CIRCUIT DESCRIPTION

A-711/711L

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 FET probe.

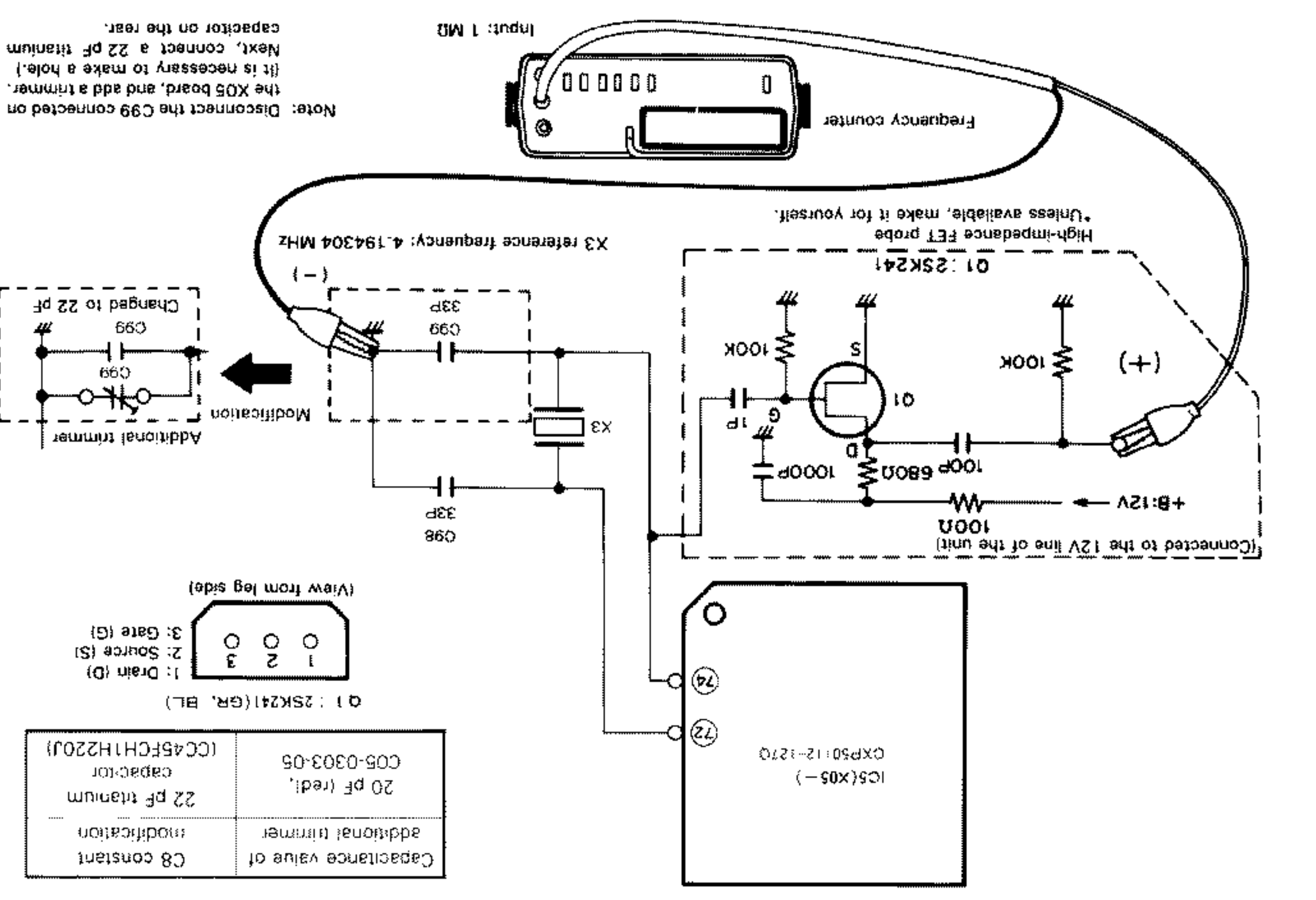
Adjustment procedure:
(1) If the timer accuracy is within the standard, replace X3 by the frequency counter; when the result of measurement at pin 74 (L77-1175-05) near the microprocessor IC on a printed board (X05-), change the constant of C99 in the crystal oscillation circuit of microprocessor IC5 and add a trimmer.

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

Adjustment procedure:
(1) Use a high-impedance buffer to avoid frequency deviation.
Connect a high-accuracy frequency counter to pin 74 by way up to the first digit of the X3 reference frequency fully of the FET probe shown above, and adjust the frequency fully to the first digit of the X3 reference frequency 4,194,304 Hz. (Connect the negative (-) side of the frequency counter to the GND side of C99.)

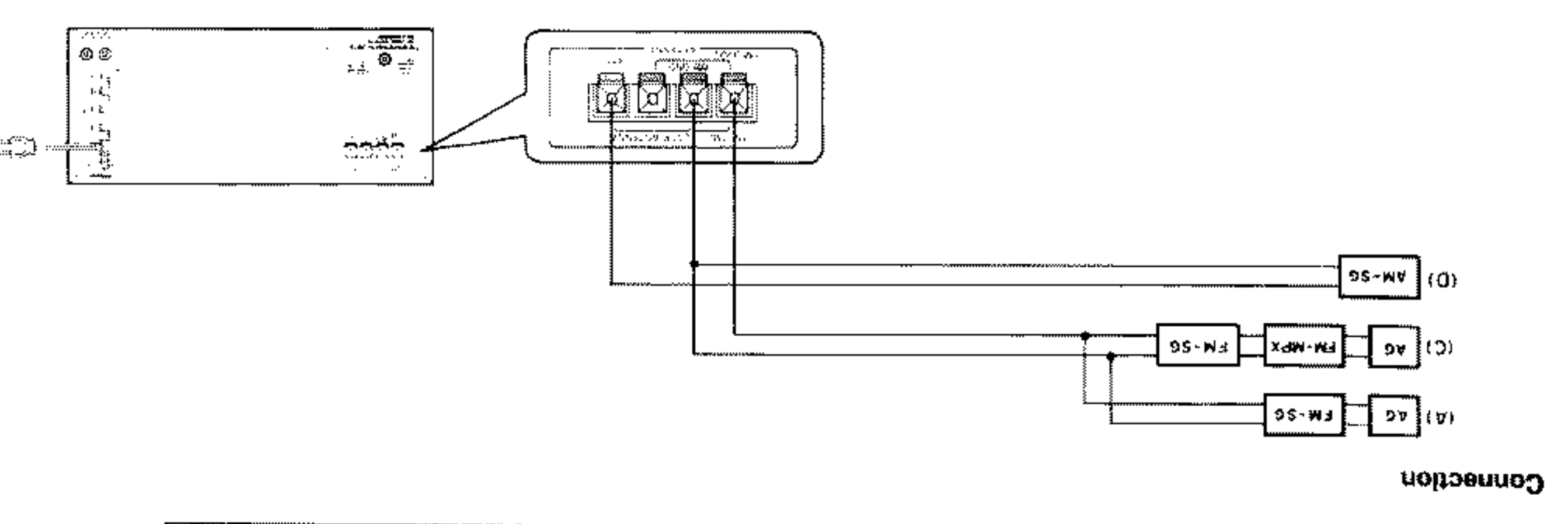
Monthly error [sec] = $\frac{1}{f_0} \times \text{the number of seconds taken for one month}$
 $= \frac{1}{4,194,304} \times (4,194,304 - 4,194,304) = -17.9$ [sec]
 * A minus value as the monthly error means a loss.

(3) Monthly error calculation method
 For example, when the result of measurement at pin 74 by the frequency counter is $f_0 = 4,194,275$ Hz,
 (Reference frequency $f_0 = 4,194,304$ Hz)
 $\text{Monthly error [sec]} = \frac{1}{f_0} \times \text{the number of seconds taken for one month}$
 $= \frac{1}{4,194,275} \times (4,194,304 - 4,194,304) = -17.9$ [sec]



ADJUSTMENT

A-711/711L



Pin	Function	Setting	Adjustment
1	BOARD EDGE (1)	98 OHM	1.5V
2	BOARD EDGE (2)	98 OHM	1.5V
3	DISCRIMINATOR	100 OHM	0V
4	VCO	98 OHM	13.00MHz
5	DISTORTION	98 OHM	1.0V
6	SEPARATION	98 OHM	1.0V
7	TUNING LEVEL	98 OHM	1.0V

Tuner unit

ADJUSTMENT

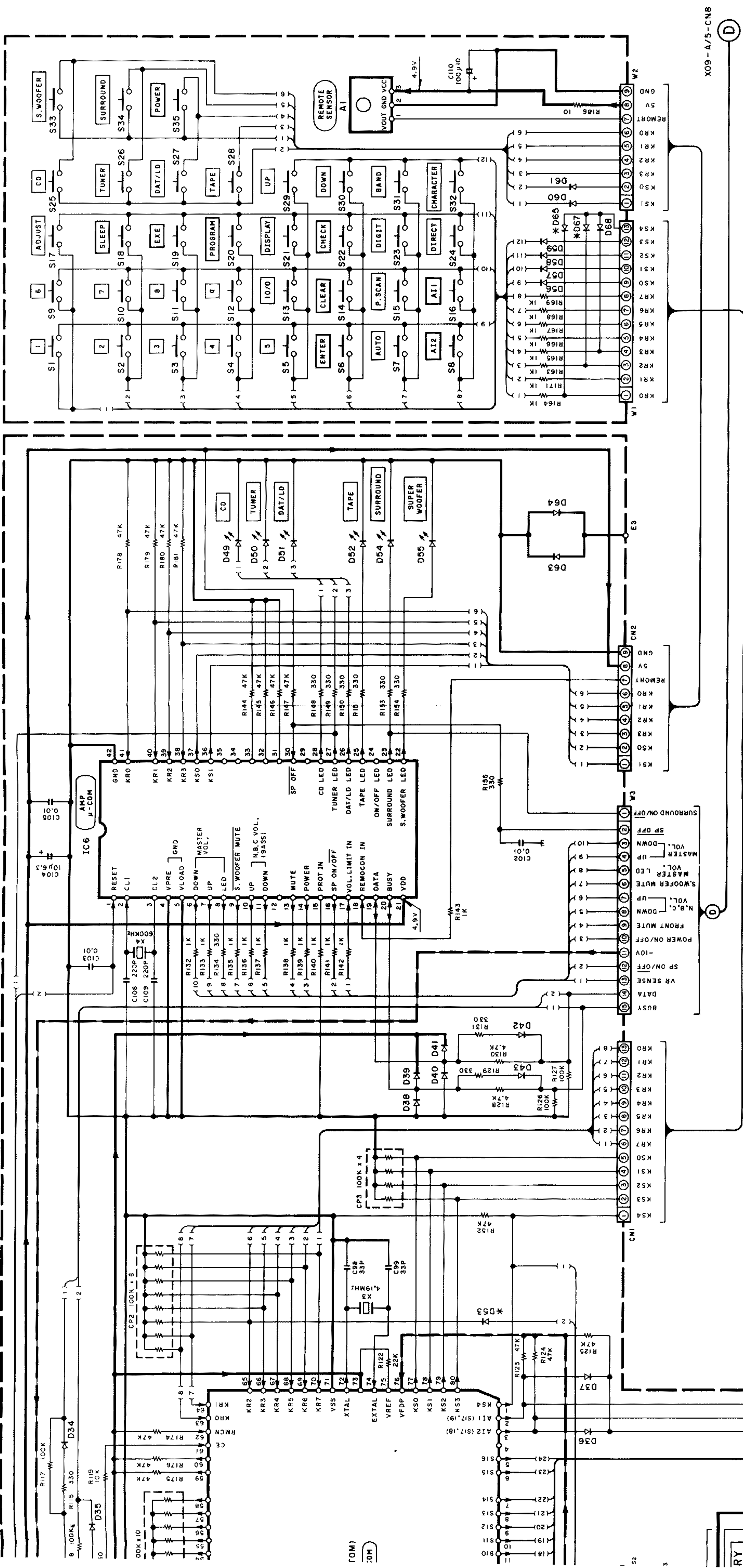
A-711/711L

VOLTAGE TABLES

Pin	Function	Setting	Adjustment
1	BOARD EDGE (1)	98 OHM	1.5V
2	BOARD EDGE (2)	98 OHM	1.5V
3	DISCRIMINATOR	100 OHM	0V
4	VCO	98 OHM	13.00MHz
5	DISTORTION	98 OHM	1.0V
6	SEPARATION	98 OHM	1.0V
7	TUNING LEVEL	98 OHM	1.0V

ADJUSTMENT

A-711/711L



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	YES
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

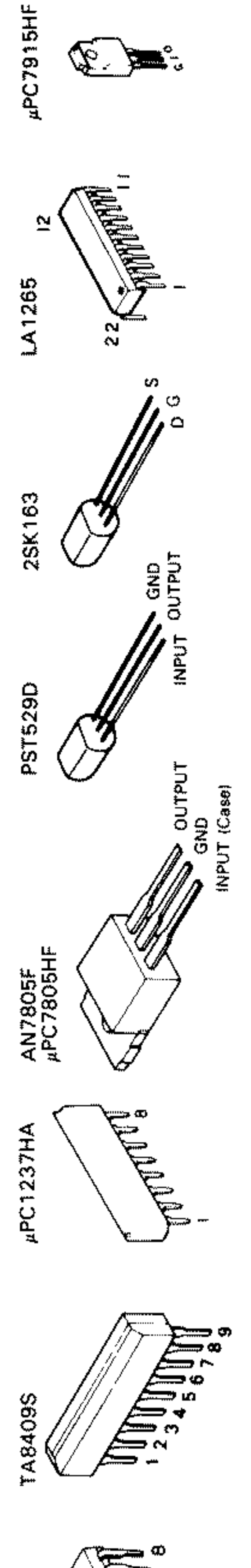
- IC5 : CXP50112-1270
- IC6 : APD7538ACU-232
- IC7 : PST529D
- Q14~16,17 : 2SA733(A)(Q,P) or 2SA933S(O,R)
- Q13 : 2SC945(A)(Q,P) or 2SC1740S(Q,R)
- D30~47,56~61,63~65,67~70 : ISS133 or HSS104
- D48 : RD10ES(B) or HZS10N(B)
- D49~52,54,55 : B30-1012-05
- D62 : RD3.3ES(B2) or HZS3.3N(B2)
- A1 : W02-1049-05 or W02-1048-05
- F.L1 : B-BT-986K

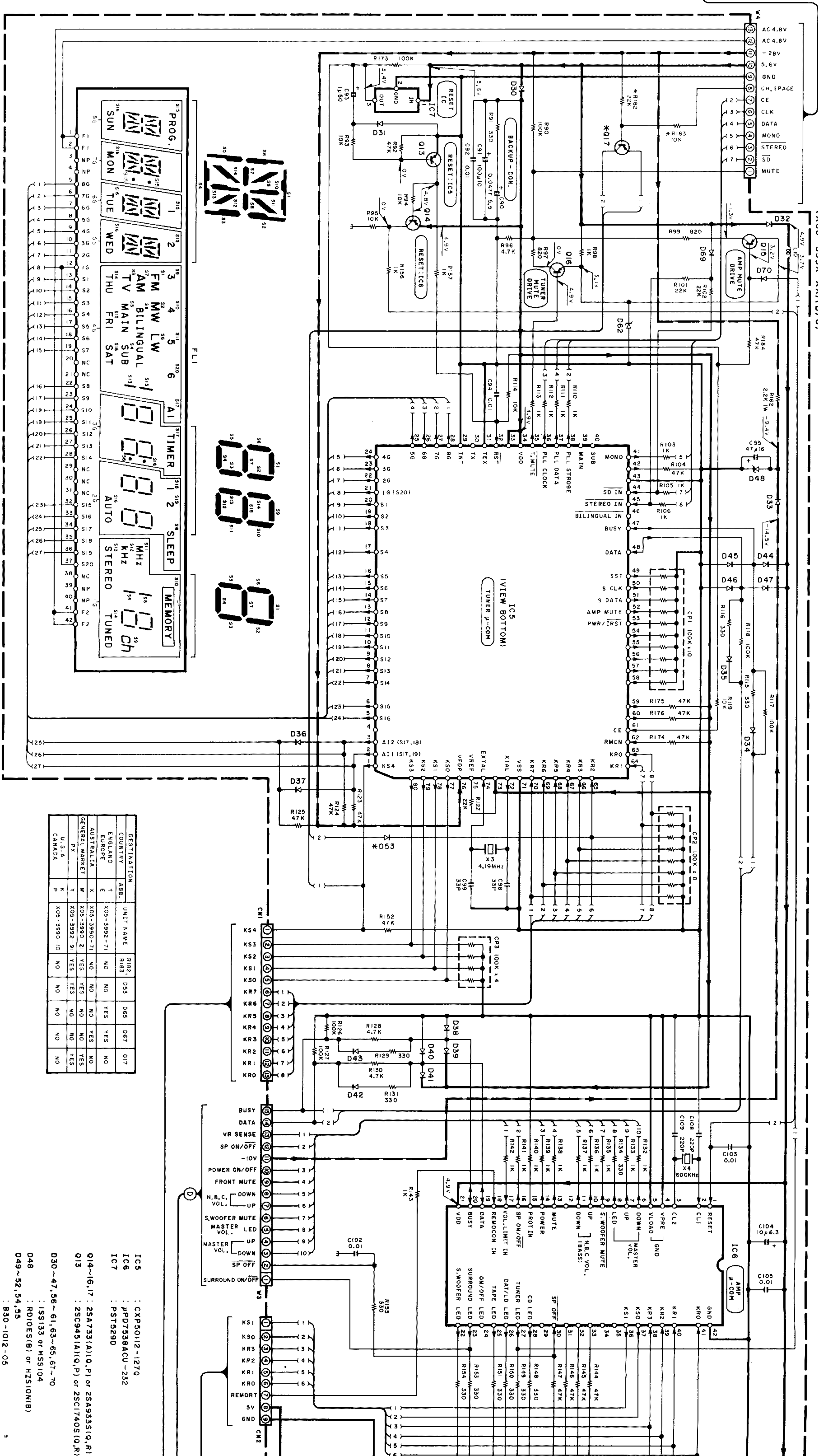
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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

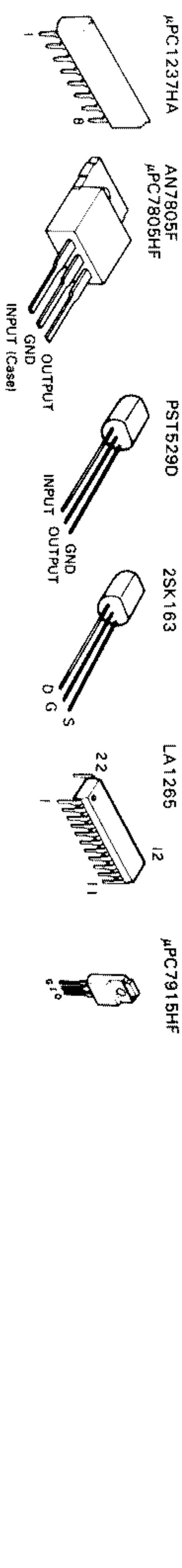


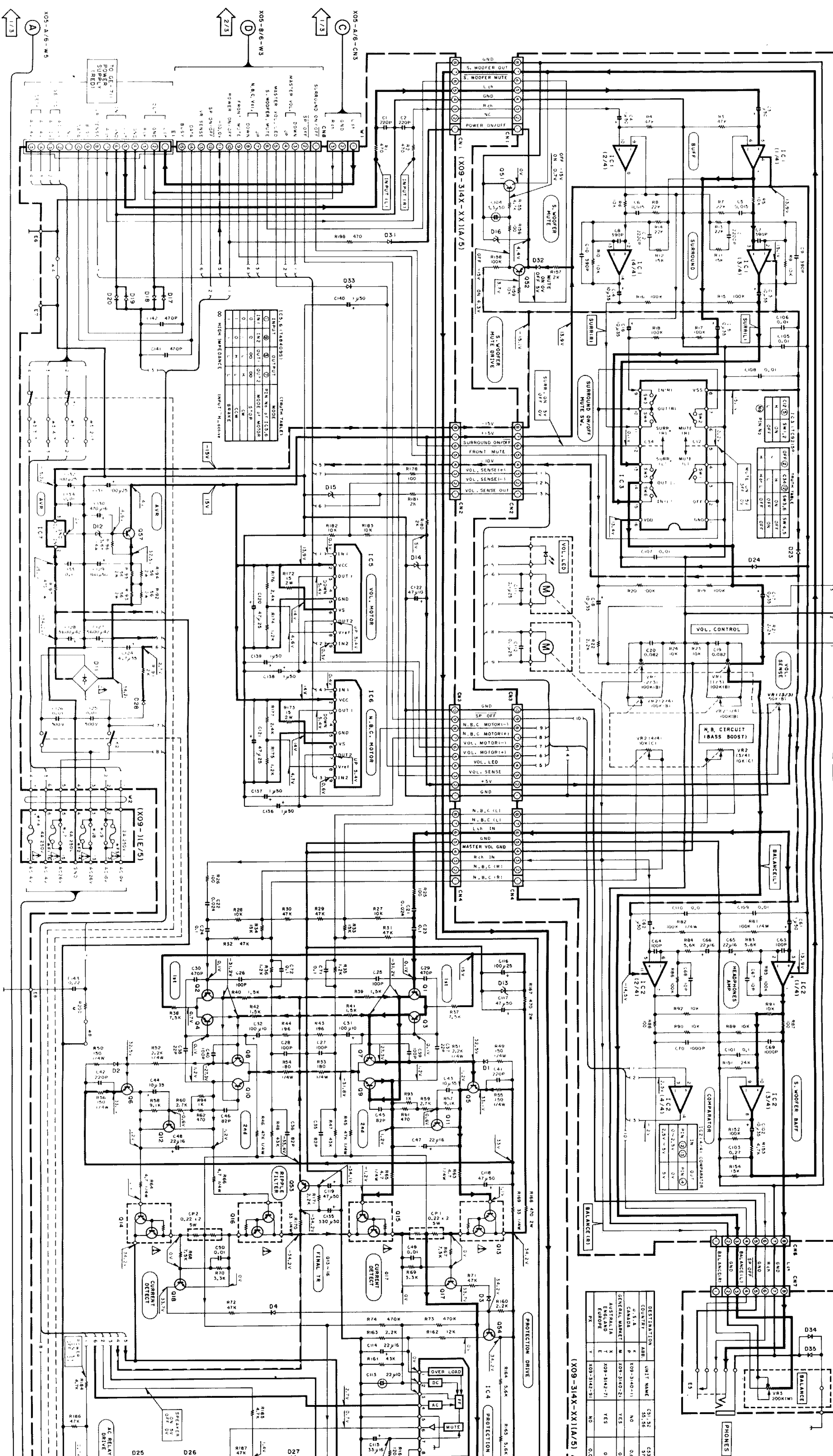


DESTINATION	UNIT NAME	R182	D43	D65	D67	Q17
ENGLAND	T	X05-3992-71	NO	NO	YES	NO
EUROPE	E	X05-3992-71	NO	NO	YES	NO
AUSTRALIA	X	X05-3990-71	NO	NO	YES	NO
GENERAL MARKET	M	X05-3990-21	YES	NO	NO	YES
PX	Y	X05-3992-91	YES	YES	NO	YES
U.S.A	K	X05-3990-10	NO	NO	NO	NO
CANADA	P	X05-3990-10	NO	NO	NO	NO

- IC5 : CXP50112-1270
- IC6 : MPD7538ACU-232
- IC7 : PST5290
- Q14~16, I7 : 2SA733(A)(Q,P) or 2SA933(S,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
- 2SC3866
- 2SA933S
- 2SC1740S
- NJM2058D
- LM7001
- AN7470
- TC9215P
- TAB409S
- μPC1237HA
- AN7805F
- μPC7805HF
- PST5290
- 2SK183
- LA1265
- μPC7915HF



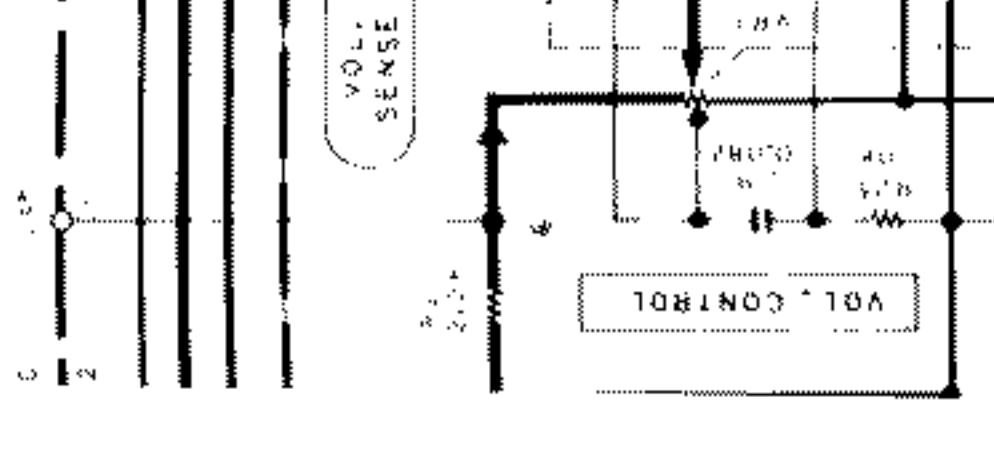
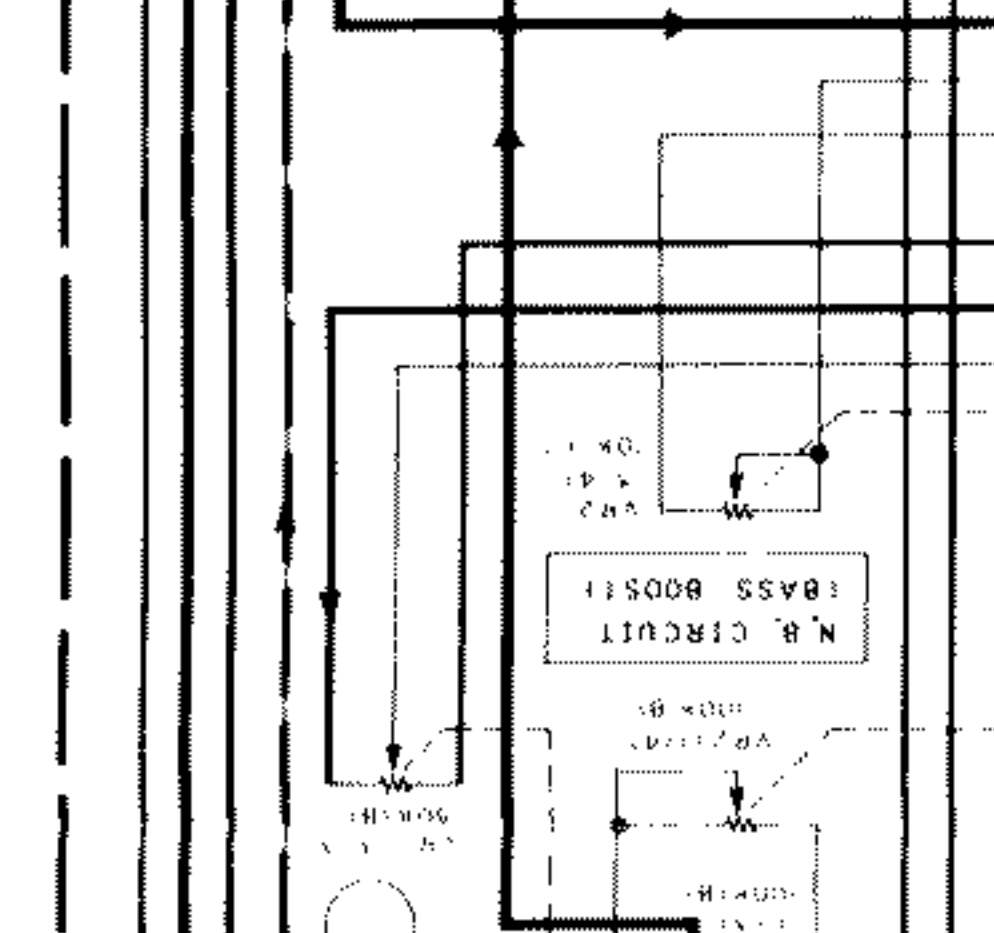
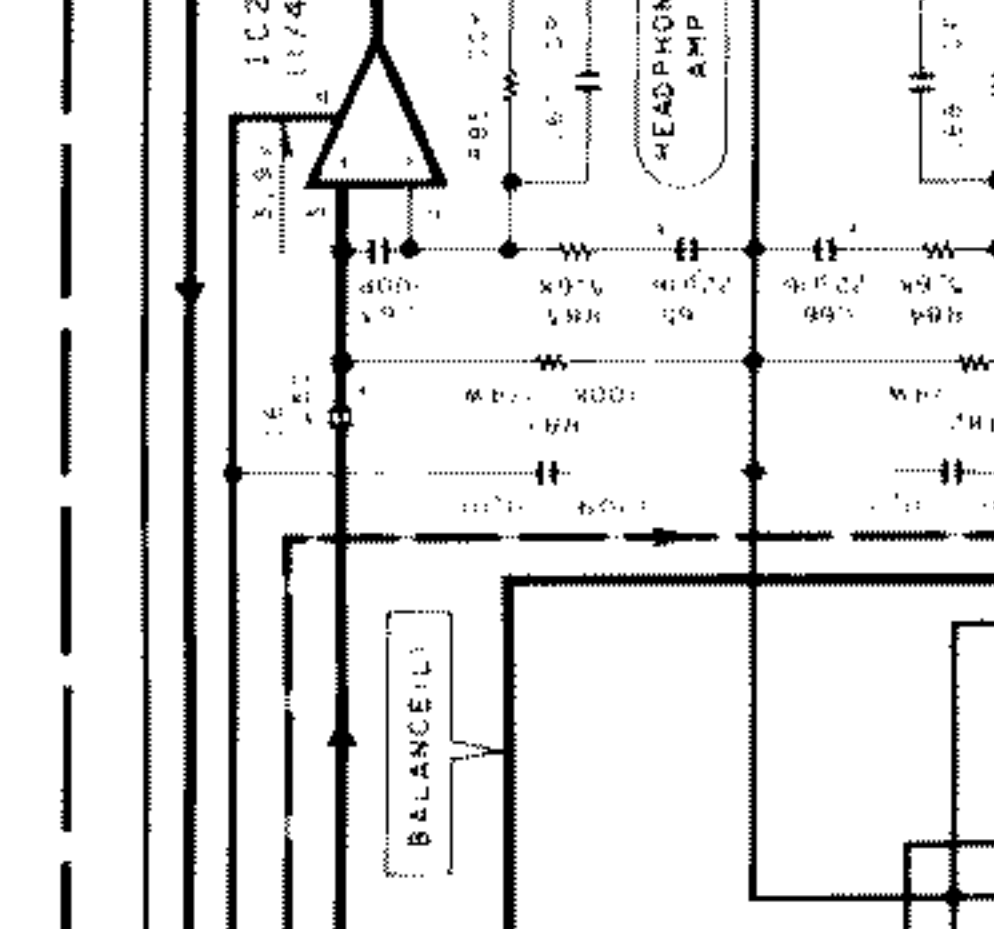
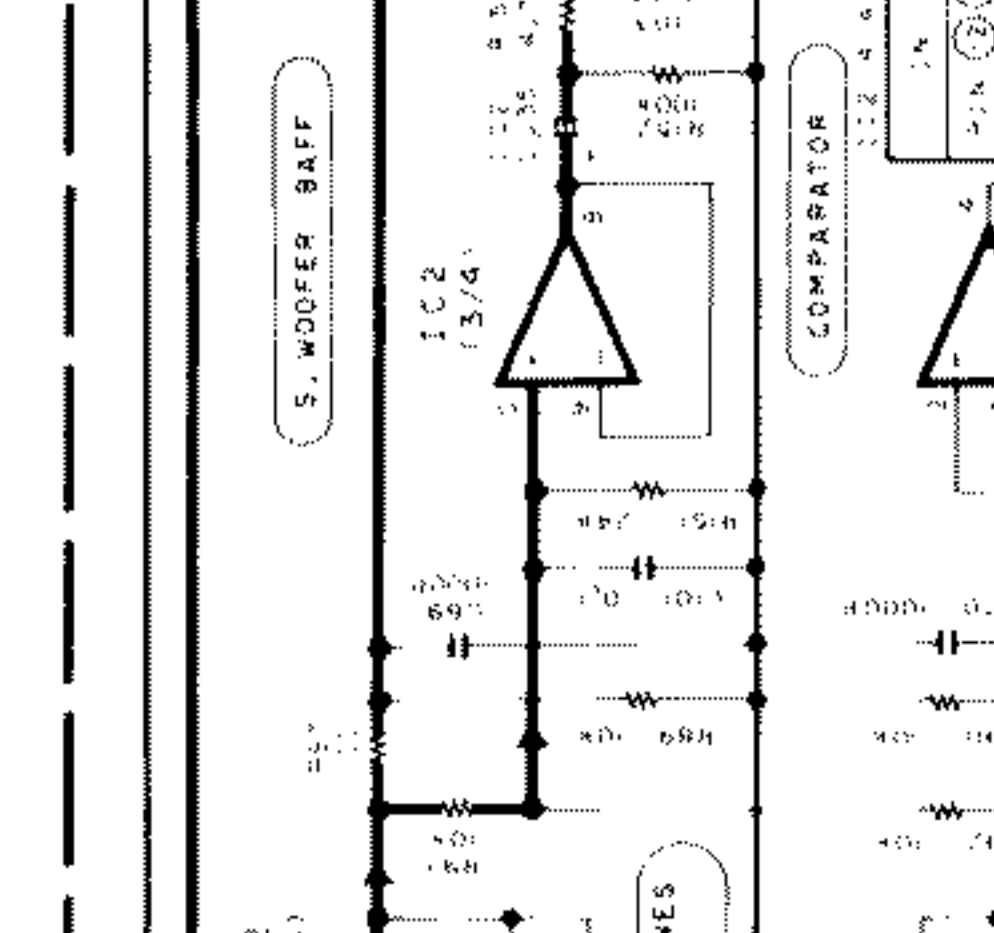
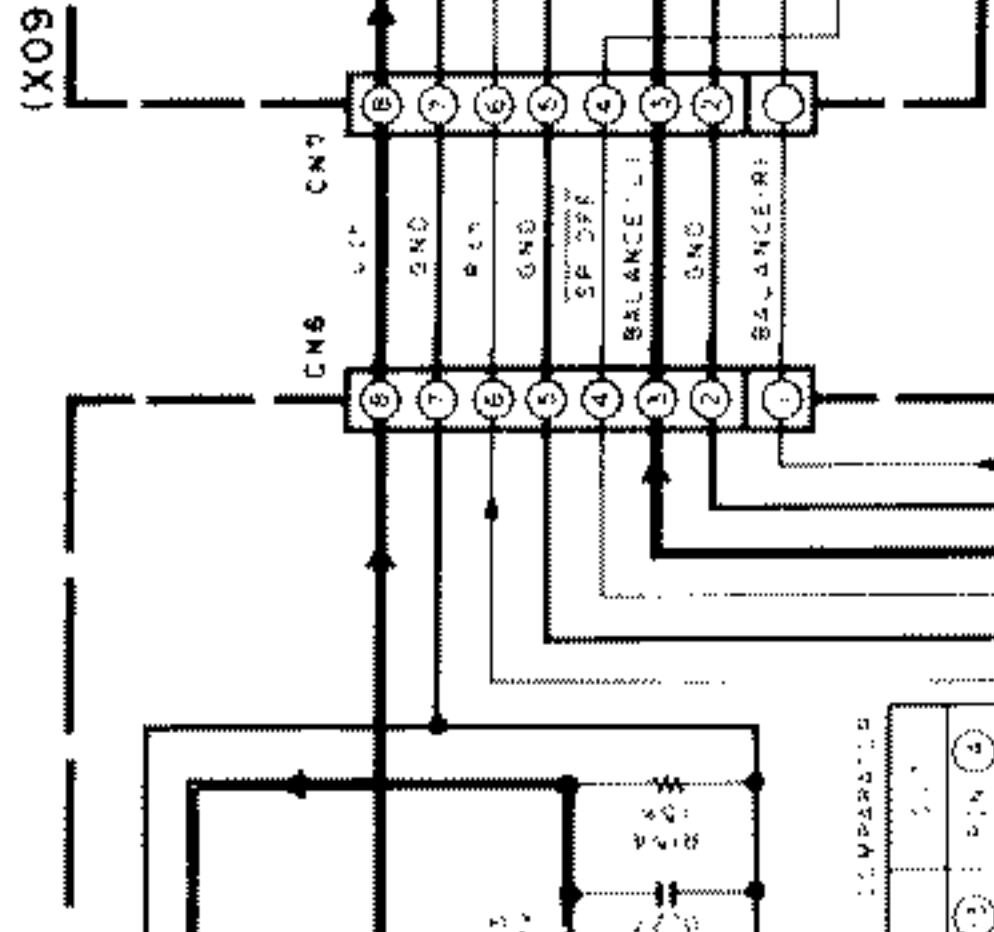
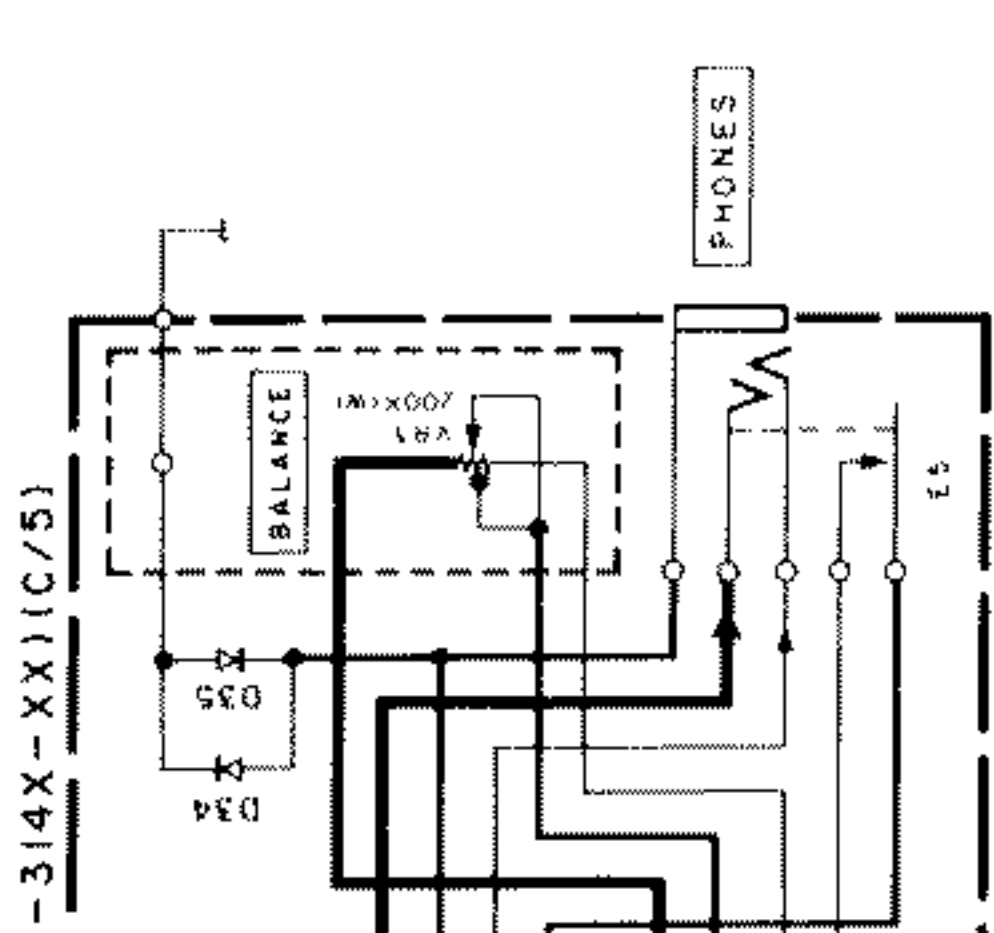
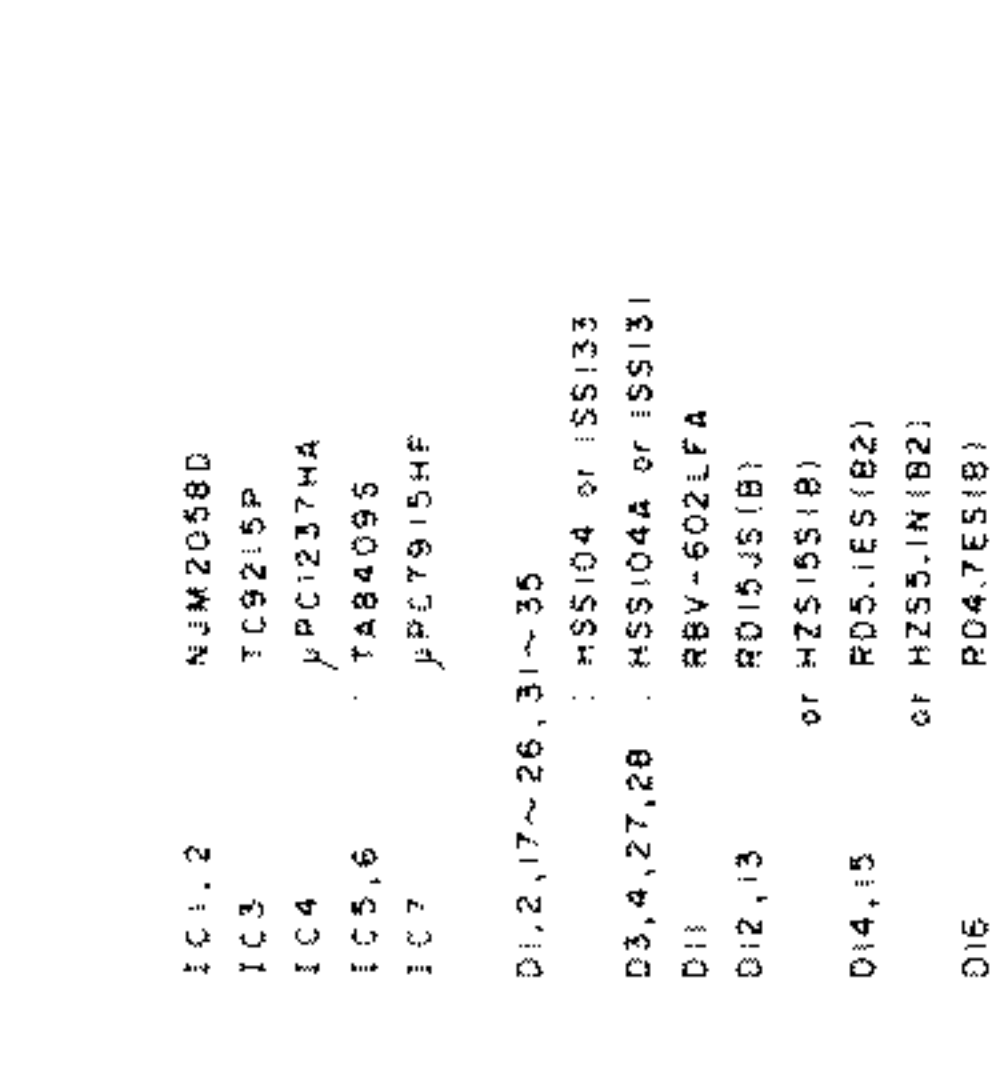
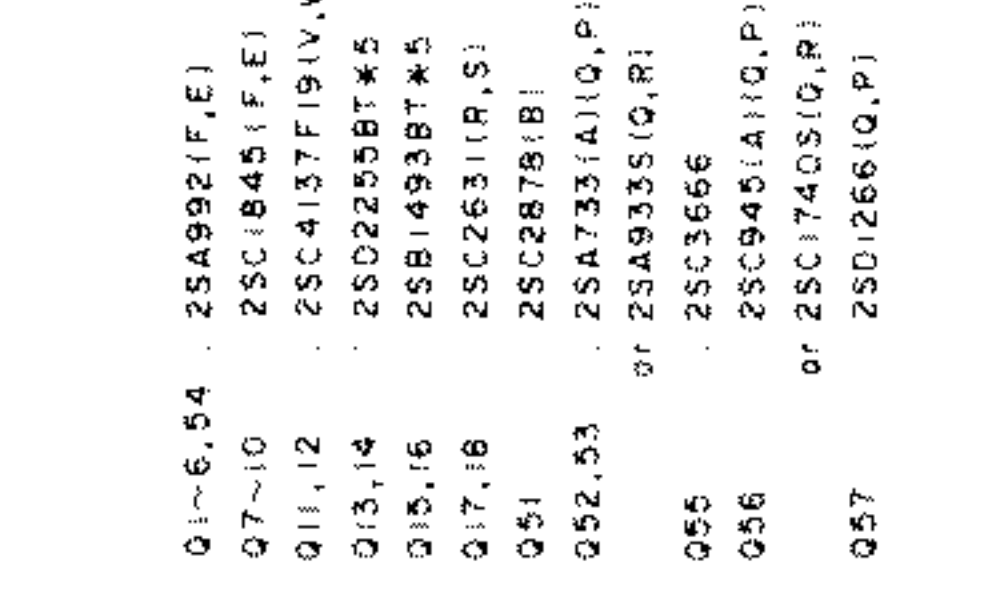
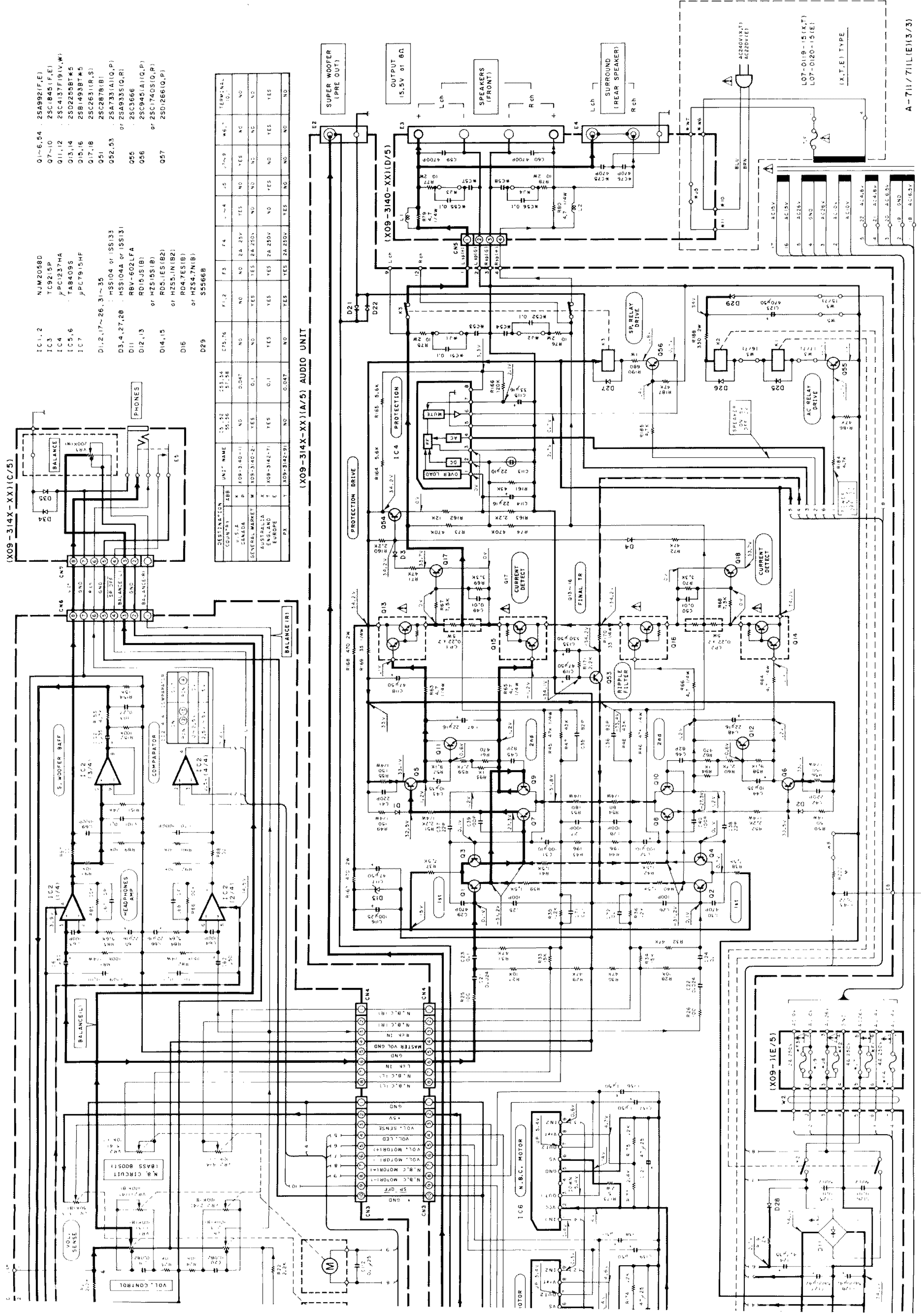


IC5 & I188 (QDS1) (FRONT PANEL)

MODE	IN1	IN2	OUT1	OUT2	MODE	FRONT	REAR
1	0	0	0	0	1	0	0
2	0	0	0	0	2	0	0
3	0	0	0	0	3	0	0
4	0	0	0	0	4	0	0
5	0	0	0	0	5	0	0
6	0	0	0	0	6	0	0
7	0	0	0	0	7	0	0
8	0	0	0	0	8	0	0
9	0	0	0	0	9	0	0
10	0	0	0	0	10	0	0
11	0	0	0	0	11	0	0
12	0	0	0	0	12	0	0
13	0	0	0	0	13	0	0
14	0	0	0	0	14	0	0
15	0	0	0	0	15	0	0
16	0	0	0	0	16	0	0
17	0	0	0	0	17	0	0
18	0	0	0	0	18	0	0
19	0	0	0	0	19	0	0
20	0	0	0	0	20	0	0
21	0	0	0	0	21	0	0
22	0	0	0	0	22	0	0
23	0	0	0	0	23	0	0
24	0	0	0	0	24	0	0
25	0	0	0	0	25	0	0
26	0	0	0	0	26	0	0
27	0	0	0	0	27	0	0
28	0	0	0	0	28	0	0
29	0	0	0	0	29	0	0
30	0	0	0	0	30	0	0
31	0	0	0	0	31	0	0
32	0	0	0	0	32	0	0
33	0	0	0	0	33	0	0
34	0	0	0	0	34	0	0
35	0	0	0	0	35	0	0
36	0	0	0	0	36	0	0
37	0	0	0	0	37	0	0
38	0	0	0	0	38	0	0
39	0	0	0	0	39	0	0
40	0	0	0	0	40	0	0
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43	0	0	0	0	43	0	0
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57	0	0	0	0	57	0	0
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95	0	0	0	0	95	0	0
96	0	0	0	0	96	0	0
97	0	0	0	0	97	0	0
98	0	0	0	0	98	0	0
99	0	0	0	0	99	0	0
100	0	0	0	0	100	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	YES
GERMANY	T	509-3140-71	YES
EUROPE	E	509-3142-91	NO
			0.047

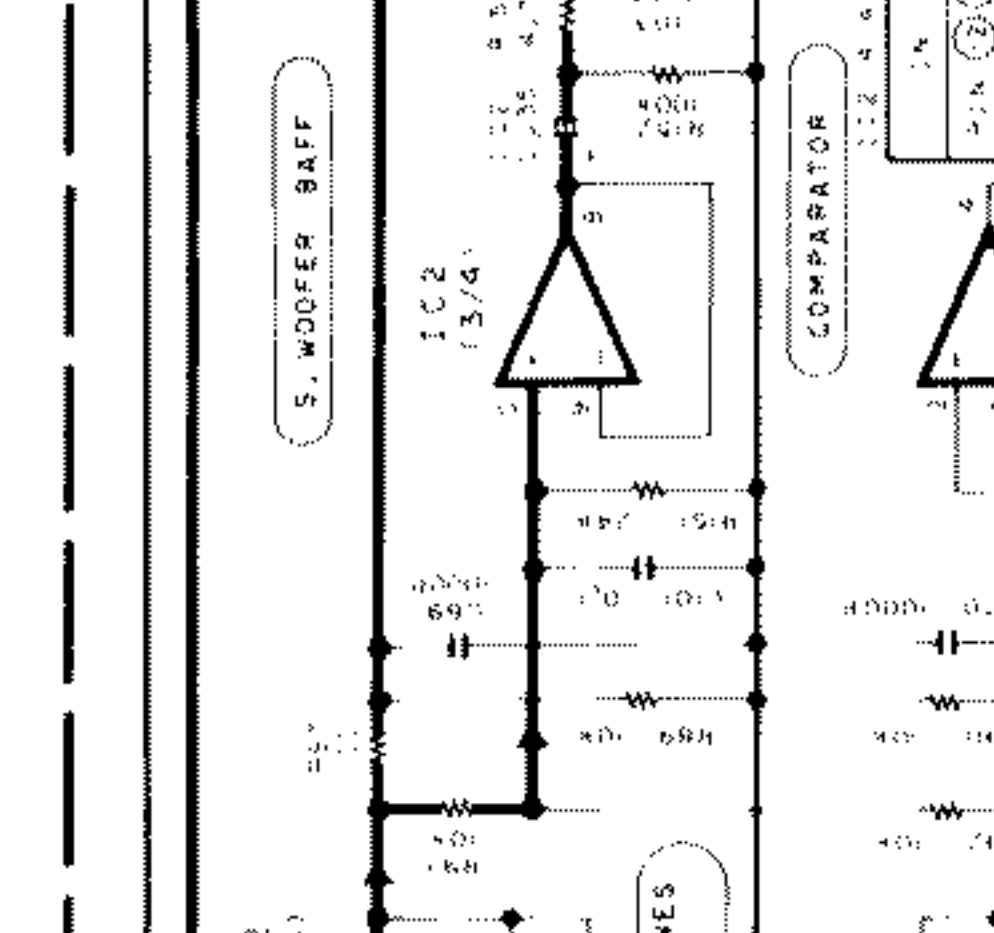
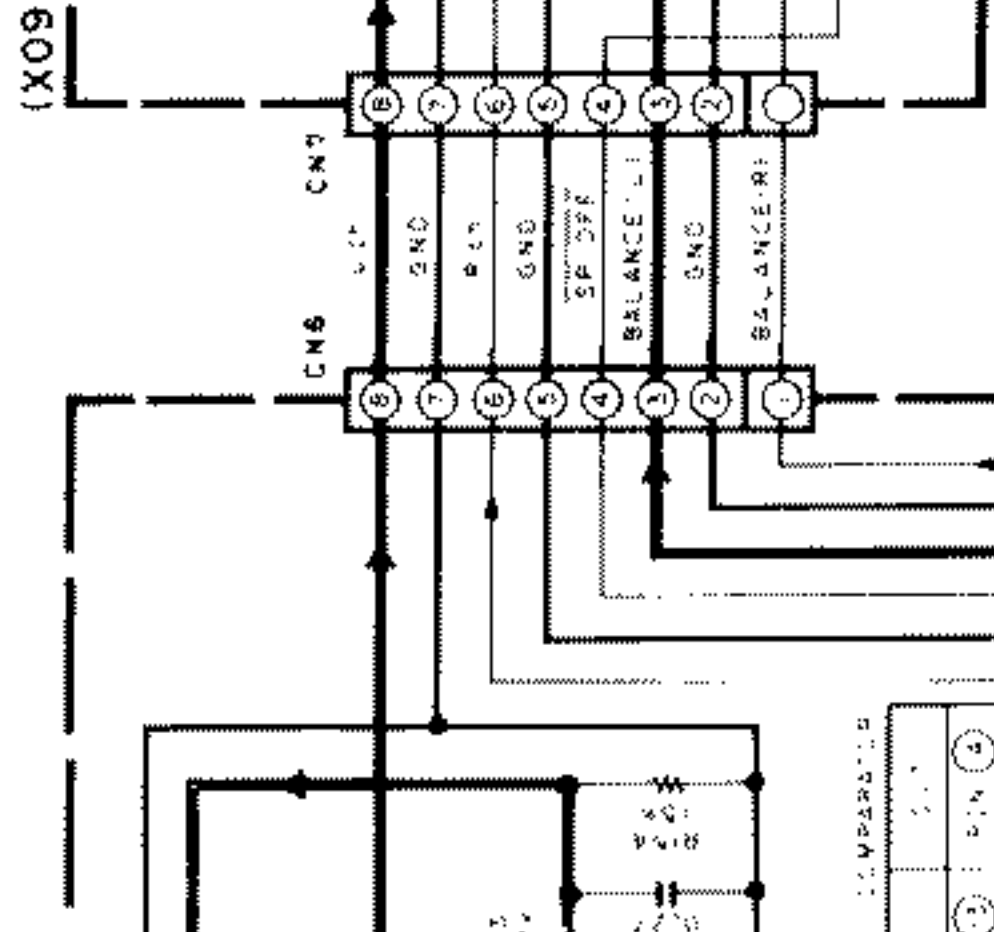
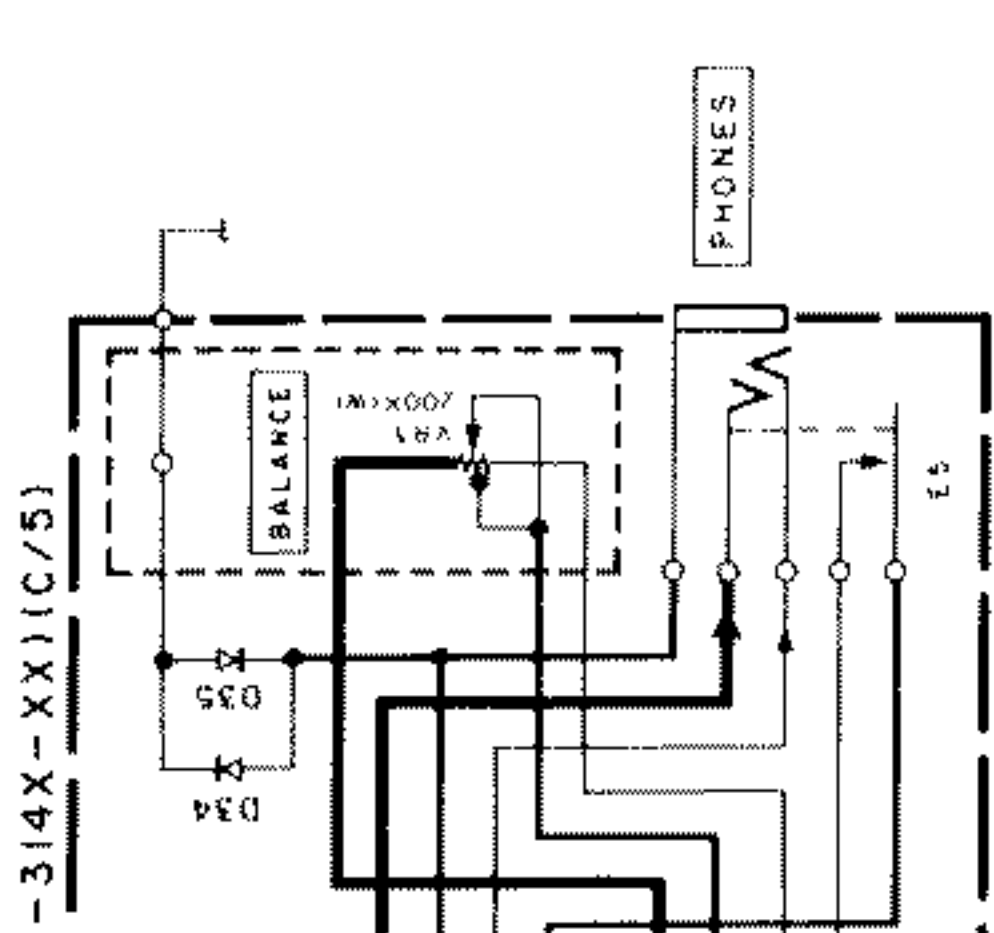


DESTINATION	UNIT NAME	F1,2	F3	F4	F5	F6	TERM. NO.
U.S.A.	K 40P-340-11	NO	0.047	NO	NO	2A 25V	NO
CANADA	P 40P-340-11	NO	0.047	NO	NO	2A 25V	NO
GENERAL MARKET	W 40P-340-21	YES	0.1	YES	2A 25V	NO	NO
ASIA, OCEANIA	X 40P-340-21	YES	0.1	YES	2A 25V	NO	YES
EUROPE	E 40P-340-21	NO	0.047	NO	2A 25V	NO	NO

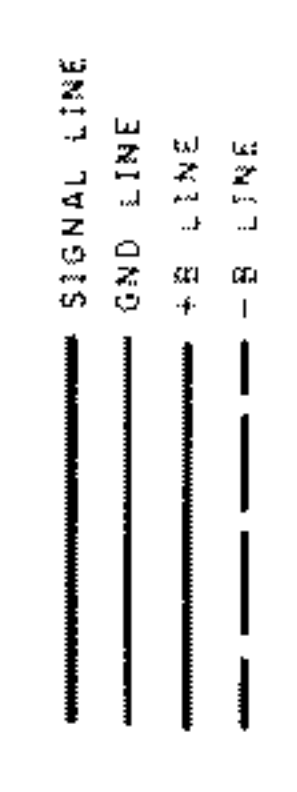
IC 1,2	NJM2058D
IC3	TC9215P
IC4	μPC1237HA
IC5,16	TAB4095
IC7	μPC7915HF
D1,2,17~26,31~35	H5S104 or H5S133
D3,4,27,28	H5S104A or H5S133
D11	RVY-602LF4
D12,13	RD19J5(B)
D14,15	RD51ES(B2)
D16	RD47ES(B)
D29	S5566B

- 01~6,54 : 25A992(F,E)
- 07~10 : 25C1845(F,E)
- 011,12 : 25C4137(F1V,W)
- 013,14 : 25D2255(BT,K,S)
- 015,16 : 25B1493(BT,K,S)
- 017,18 : 25C2631(H,R,S)
- 021 : 25C2878(B)
- 022,53 : 25A733(A10,P)
- 025 : 25A935(G,R)
- 026 : 25C3666
- 028 : 25C1740(S,Q,P)
- 027 : 25D1266(Q,P)

- IC1,2 : NJM2058D
- IC3 : TC9215P
- IC4 : μPC1237HA
- IC5,16 : TAB4095
- IC7 : μPC7915HF
- D1,2,17~26,31~35 : H5S104 or H5S133
- D3,4,27,28 : H5S104A or H5S133
- D11 : RVY-602LF4
- D12,13 : RD19J5(B)
- D14,15 : RD51ES(B2)
- D16 : RD47ES(B)
- D29 : S5566B



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 with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

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	

E: Scandinavia & Europe K: USA P: Canada W: Europe
 Y: P(X) Far East, Hawaii T: England M: Other Areas
 V: 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.	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, 0-21; M 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	50WV	
C3			CE92FV1H273J	MF	25WV	
C4			CE04KW1H010M	ELECTRØ	J	
C5			CE04KW1E101M	ELECTRØ	50WV	
C6	.7		C91-0769-05	CERAMIC	K	
C8	.11		CK45FF1H223Z	CERAMIC	Z	
C12			C91-0085-05	CERAMIC	N	
C13	.14		CK45FF1H223Z	CERAMIC	Z	
C15			C91-0085-05	CERAMIC	N	
C16			CK45FF1H223Z	CERAMIC	Z	
C17			CE04KW1H2R2M	ELECTRØ	50WV	
C18			CE04KW1V4R7M	ELECTRØ	35WV	
C19			CK45FF1H223Z	CERAMIC	Z	
C20			CE04KW1H3R3M	ELECTRØ	50WV	
C21			CK45FF1H103Z	CERAMIC	Z	
C22			CK45FF1H223Z	CERAMIC	Z	
C23			CE04KW1V100M	ELECTRØ	35WV	
C24			CK45FF1H223Z	CERAMIC	Z	
C25			CF92FV1H153J	MF	J	
C26			CE04KW1V100M	ELECTRØ	35WV	
C27			CE04KW1H47M	ELECTRØ	50WV	
C28	-30		CK45FF1H103Z	CERAMIC	Z	
C31			CC45FSL1H101J	CERAMIC	J	
C32			CK45FF1H103Z	CERAMIC	Z	
C33			CE04KW1C470M	ELECTRØ	16WV	
C34			CK45FB1H471K	CERAMIC	K	
C35			CC45FSL1H121J	CERAMIC	J	
C36			CC45FSL1H271J	CERAMIC	J	
C37			CF92FV1H152J	MF	J	
C38			CF92FV1H132J	MF	J	
C39			CK45FB1H471K	CERAMIC	K	
C40			CE04KW1H2R2M	ELECTRØ	50WV	
C41			CE04KW1H3R3M	ELECTRØ	50WV	
C42			CE04KW1H47M	ELECTRØ	50WV	
C43			CF92FV1H473J	MF	J	
C44			CC93FCH1H471J	CERAMIC	J	
C45			CK45FF1H103Z	CERAMIC	Z	
C46	.47		CC45FSL1H221J	CERAMIC	J	
C48			CE04KW1C101M	ELECTRØ	16WV	
C49			CC45FSL1H680J	CERAMIC	J	
C50	.51		CE04KW1H3R3M	ELECTRØ	50WV	
C52	.53		CF92FV1H752J	MF	J	

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X3 X4			L77-1175-05 L78-0274-05	CRYSTAL RESONATOR(4.19MHz) RESONATOR(600kHz)		
C F	1B 1B		N30-3008-46 N89-3008-45	PAN HEAD MACHINE SCREW BINDING HEAD TAPITTE SCREW		
CP1 CP2 CP3			R90-0802-05 R90-0492-05 R90-0482-05	MULTI-COMP 100KX10 J 1/4W MULTI-COMP 100KX8 J 1/6W MULTI-COMP 100KX4 J 1/6W		
R16 R21			RD14AB2E101J RD14AB2E101J	FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W		
R51 R53 R54 R55 R56 R57 R162			RD14AB2E151J RS14KB3D181J RS14KB3D271J RS14KB3A271J RS14KB3A222J	FL-PROOF RD 150 J 1/4W FL-PROOF RS 180 J 2W FL-PROOF RS 270 J 2W FL-PROOF RS 270 J 1W FL-PROOF RS 2.2K J 1W		TE
R177 VR1 VR2 VR3			R92-0173-05 R12-3128-05 R12-1089-05 R12-5060-05	RC 2.2M M 1/2W TRIMMING POT. (22K)TUNE LEVEL TRIMMING POT. (4.7K)VCO TRIMMING POT. (220K)SEPARATION		KP
S1 S36 S37 S38	3B, 3C		S40-1064-05 S31-2094-05 S31-2082-05 S31-2128-05	PUSH SWITCH (CH. SPACE, DE-EM.) SLIDE SWITCH (POWER TYPE) SLIDE SWITCH (POWER TYPE) SLIDE SWITCH (POWER TYPE)		YM M Y
D1 D1 D1 D1 D9			HSS104 1SS133 HSS104 1SS133 HSS104	DIODE DIODE DIODE DIODE DIODE		TE TE KP KP KP
D9 D11 D11 D11 D18 D21 D22			1SS133 HSS104 1SS133 S5566B S5566B	DIODE DIODE DIODE DIODE DIODE		YM YM YM KP KP
D23 D23 D25 D25 D30 D30 D48 D48 D53			HSS104 1SS133 HSS104 HSS104 HSS104 1SS133 HSS104 HSS104 1SS133	DIODE DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE		YM YM TE TE TE TE
D56 D56 D62 D62 D63 D63 D65 D65 D67 D67 D67 D68			HSS104 1SS133 HSS104 HSS104 HSS104 HSS104 HSS104 HSS104 HSS104 HSS104 HSS104 HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE		TE TE TE TE TE TE TE TE TE TE TE TE

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D68 D202 D202 FL1 IC1	2B	*	1SS133 HZS5.1S(B2) RD5.1JS(B2) 8-BT-980K LA1265	DIODE ZENER DIODE ZENER DIODE FLUORESCENT INDICATOR TUBE IC(FM/AM TUNER)		KPYM
IC2 IC3 IC5 IC6 IC7		*	AN7470 LM7001 CXP50112-127Q UPD7538ACU-232 PST529D	IC(FM MPX) IC(FULL FREQUENCY SYNTHESIZER) IC(TUNER u-COM) IC(AMP. u-COM) IC(RESET)		
IC9 IC9 Q1 Q2 Q3			AN7805F UPC7805HF 2SC1923(R,0) 2SK163(L,M) 2SC1740S(Q,R)	IC(VOLTAGE REGULATOR/ +5V) IC(VOLTAGE REGULATOR/ +5V) TRANSISTOR FET TRANSISTOR		TE
Q3 Q4 Q5 Q5 Q8			2SC945(A)(Q,P) 2SC1845(F,E) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		TE TE TE KP KP
Q8 Q8 Q8 Q10 Q10			2SA933S(Q,R) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SA733(A)(Q,P) 2SA933S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		YM YM YM KP KP
Q11 Q11 Q13 Q13 Q14 Q14 Q17 Q17 Q18 Q20			2SC1740S(Q,R) 2SC945(A)(Q,P) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SC1740S(Q,R) 2SC945(A)(Q,P) 2SC1740S(Q,R) 2SD1302(S,T) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		YM YM YM YM YM YM YM YM YM TE TE
Q20 Q21 Q22 Q22			2SC945(A)(Q,P) 2SD1266(Q,P) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		YM YM TE TE
A1 A1 DT1 DT1	3B 3B 1C 1C	*	W02-1048-05 W02-1049-05 W02-1041-05 W02-1042-05	ELECTRIC CIRCUIT MODULE ELECTRIC CIRCUIT MODULE FM FRONT-END ASSY(A-711L) FM FRONT-END ASSY(A-711)		TE KP YM KP
AUDIO UNIT (X09-314X-XX, 0-11; K, P type, 0-21; M type, 2-71; X, T, E, type 2-91; Y type)						
C1 C3 C5 C7 C11	2 4 6 10 12		CC45FSL1H221J CE04KW1H010M CF92FV1H153J CK45FB1H391K CK45FB1H222K	CERAMIC ELECTRO MF CERAMIC CERAMIC		J J J K K
C13 C19 C21 C23 C25	18 20 22 24 28		CE04KW1V100M CF92FV1H823J CF92FV1H243J CF92FV1H104J CC45FSL1H101J	ELECTRO MF MF MF CERAMIC		35WV J J J J

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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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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		
Q52 ,53			2SA933S(Q,R)	TRANSISTOR		
Q54			2SA992(F,E)	TRANSISTOR		
Q55			2SC3666	TRANSISTOR		
Q56			2SC1740S(Q,R)	TRANSISTOR		
Q56			2SC945(A)(Q,P)	TRANSISTOR		
Q57			2SD1266(Q,P)	TRANSISTOR		

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