

FM/AM STEREO RECEIVER

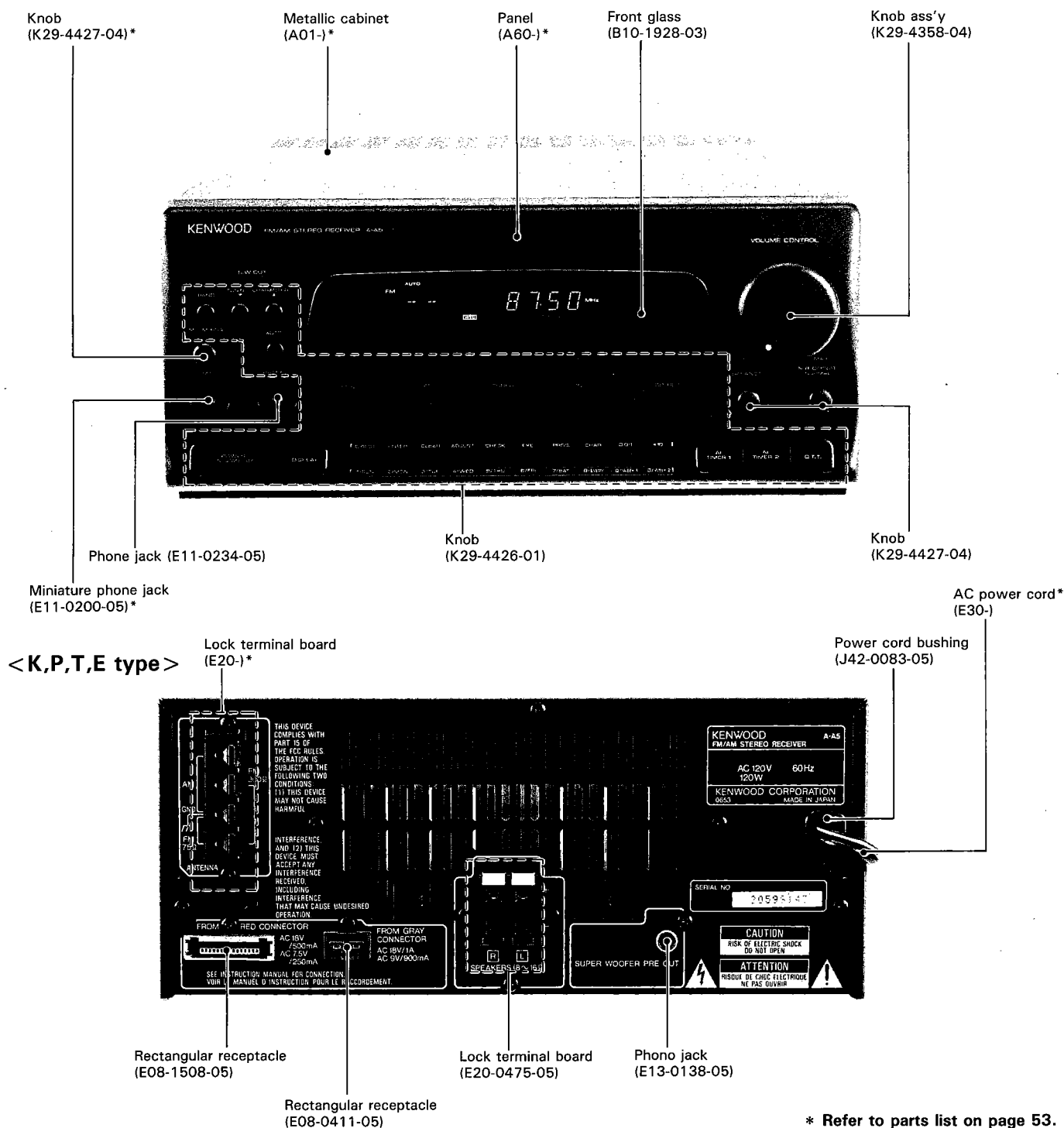
KENWOOD

A-A5/A5L

SERVICE MANUAL

(COMPACT HIFI SYSTEM UD COMPONENT SYSTEM UD-500/500M)

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B51-4600-00(MC) 4114



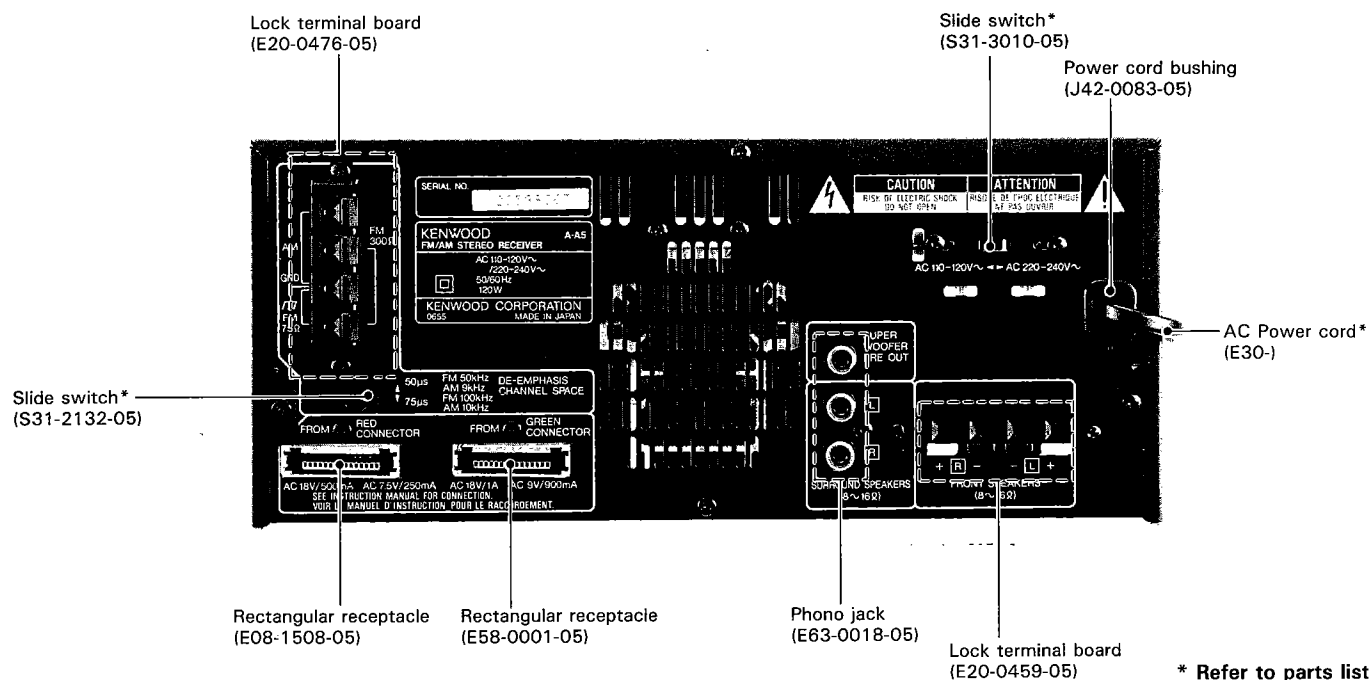
* Refer to parts list on page 53.
Photo is A-A5.

[A-A5 : K,P,Y,M,X type
A-A5L: T,E type]

Refer to the SERVICING NOTES on page 2 before repair.

CONTENTS/SERVICING NOTES

<Y,M,X type>



* Refer to parts list on page 53.

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Servicing notes

- ① This unit does not contain a selector IC. However, as INPUT SELECTOR IC is incorporated into the graphic equalizer (GE-A5), signal system goes through the graphic equalizer. Since each speaker relay of this unit is operated according to the data that is serially transmitted from the graphic equalizer (GE-A5), the receiver cannot output sound alone. To output a tuner signal to each speaker terminal, follow the following procedures.

Procedure 1)

Direct the tuner output to the main amplifier input. Connect the test pin on the right (lower right of the tuner board) of the main amplifier board (X09, A/6) (Fig. 1 or 2)

Front amplifier

K,P,T,E type (Fig. 1)	[Pins 8 and 9 (Left channel) Pins 6 and 4 (Right channel)
Y,M,X type (Fig. 2)	[Pins 3 and 1 (Left channel) Pins 4 and 17 (Right channel)

After turning power ON in this setting, front L & R channels are output.

Procedure 2)

Enter the test mode. (Hold down the CHARACTER key, and insert the AC plug into the outlet.)

All fluorescent displays light.

- 1) Press the LD/AUX key. (The front speaker outputs sound.)
- 2) Press the CHARACTER key. (S.W. OUT outputs sound.)

* Normally, S.W. OUT is operated by Remote control unit.

- ② Be sure to use the designated part (parts no. F20-1284-05) for the isolation of the power (final) transistor.

- ③ Y,M,X type only.

The cooling fan of the Main board (X09) is usually rotating at a low speed but, when the heat sink temperature rises above 80°C, temperature assurance switch S1 opens and the fan starts high-speed rotation. When the temperature further rises above 105°C, temperature assurance switch S2 also opens and the protection circuitry is activated to stop the output. (To release the protection, turn power OFF. To check the high-speed rotation operation of the fan, short-circuit test points W67 and W92.)

SERVICING NOTES/ACCESSORIES

Fig. 1 (K, P, T, E type)

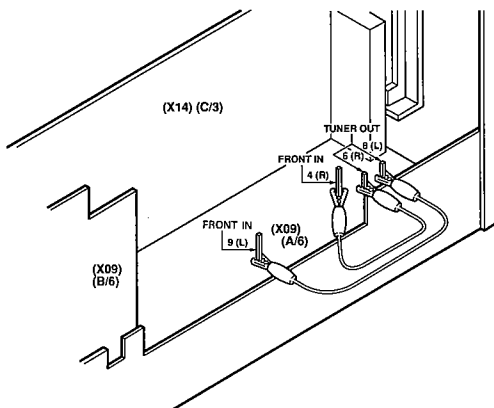
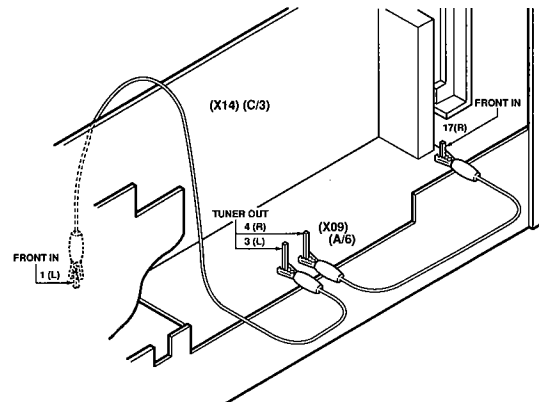


Fig. 2 (Y, M, X type)

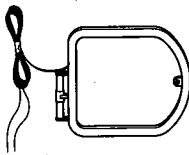


④ The A-A5 and A-A5L are made in different countries. However, their circuits are identical.

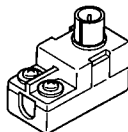
Model name	ABB.	Audio unit			Display unit		
		Japan made	Singapore made	France made	Japan made	Singapore made	France made
A-A5	K	X09-3680-11	X09-3720-10	—	X14-3620-12	X14-3640-11	—
	P	X09-3680-11	X09-3720-10	—	X14-3620-12	X14-3640-11	—
	Y	X09-3670-22	—	—	X14-3620-22	—	—
	M	X09-3670-22	X09-3710-22	—	X14-3620-22	X14-3640-22	—
	X	X09-3670-72	X09-3710-72	—	X14-3620-72	X14-3640-72	—
A-A5L	T	X09-3680-51	X09-3720-51	X09-3720-52	X14-3622-72	X14-3642-72	X14-3642-73
	E	X09-3682-71	X09-3722-71	X09-3722-72	X14-3622-72	X14-3642-72	X14-3642-73

Accessories

- AM loop antenna 1
(T90-0173-05): Japan made
(T90-0174-05): Singapore made
(T90-0153-05): France made



- Antenna adaptor
(75 Ω /300 Ω) 1
(For U.K. and Europe)
(T90-0185-05)

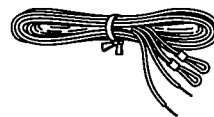


- Remote control unit 1
(X94-1000-61)
Battery cover (A09-0115-13)

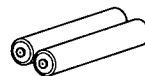


Remote control unit is packed with the graphic equalizer unit.

- FM indoor antenna 1
(T90-0176-05): Japan made
France made
(T90-0175-05): Singapore made



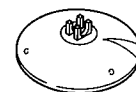
- Batteries (R03/AAA) 2



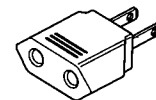
- Speaker cords (E30-1297-05)
..... Red/Black x 2



- Loop antenna stand 1
(J19-2815-04)



- AC plug adaptor 1
(Except for some areas)
(E03-0115-05)



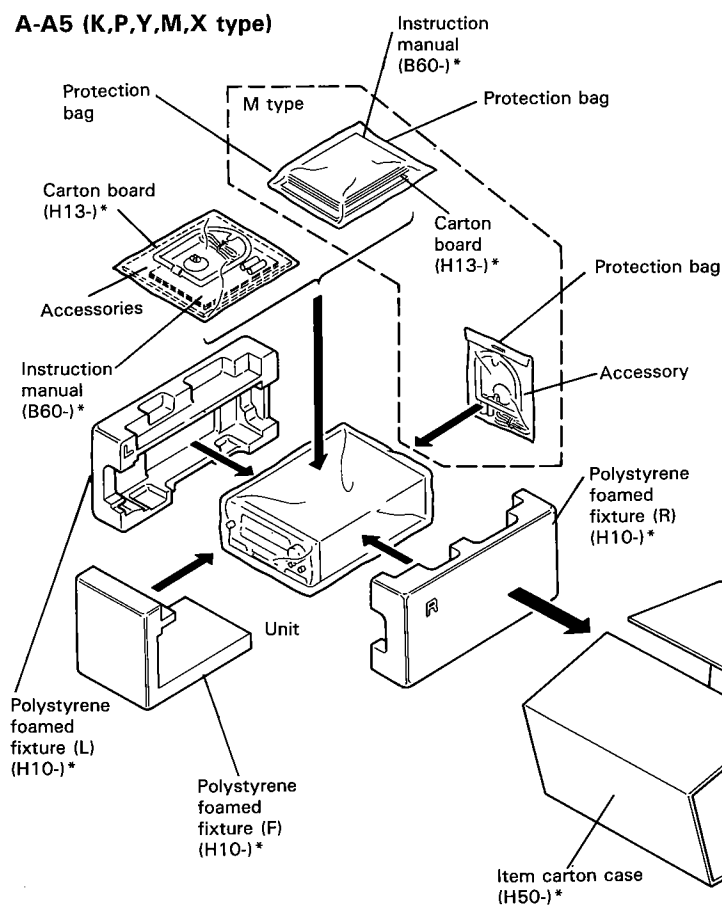
For the unit with a European AC plug in areas other than Europe.

Speaker cords are packed with the speakers. Remote control unit is packed with the graphic equalizer unit. All other accessories are packed with the receiver unit.

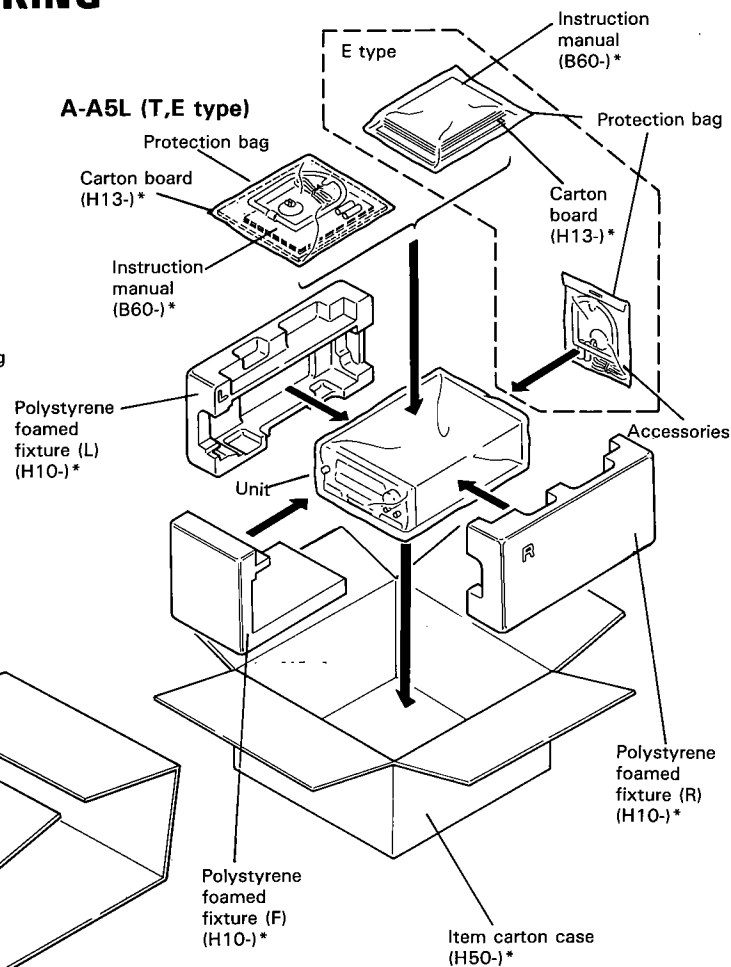
A-A5/A5L

PACKING

A-A5 (K,P,Y,M,X type)

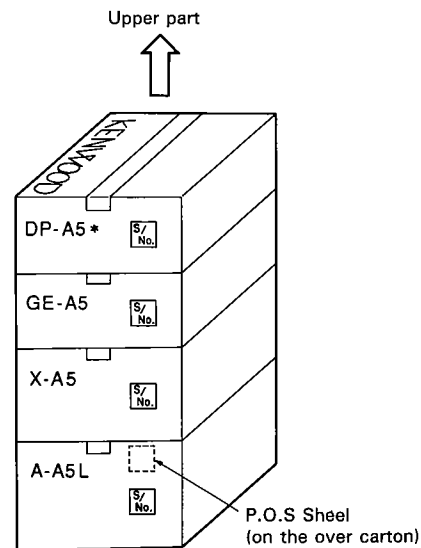
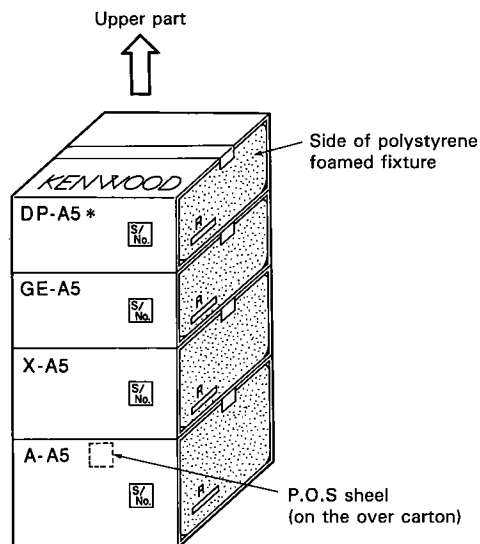


A-A5L (T,E type)



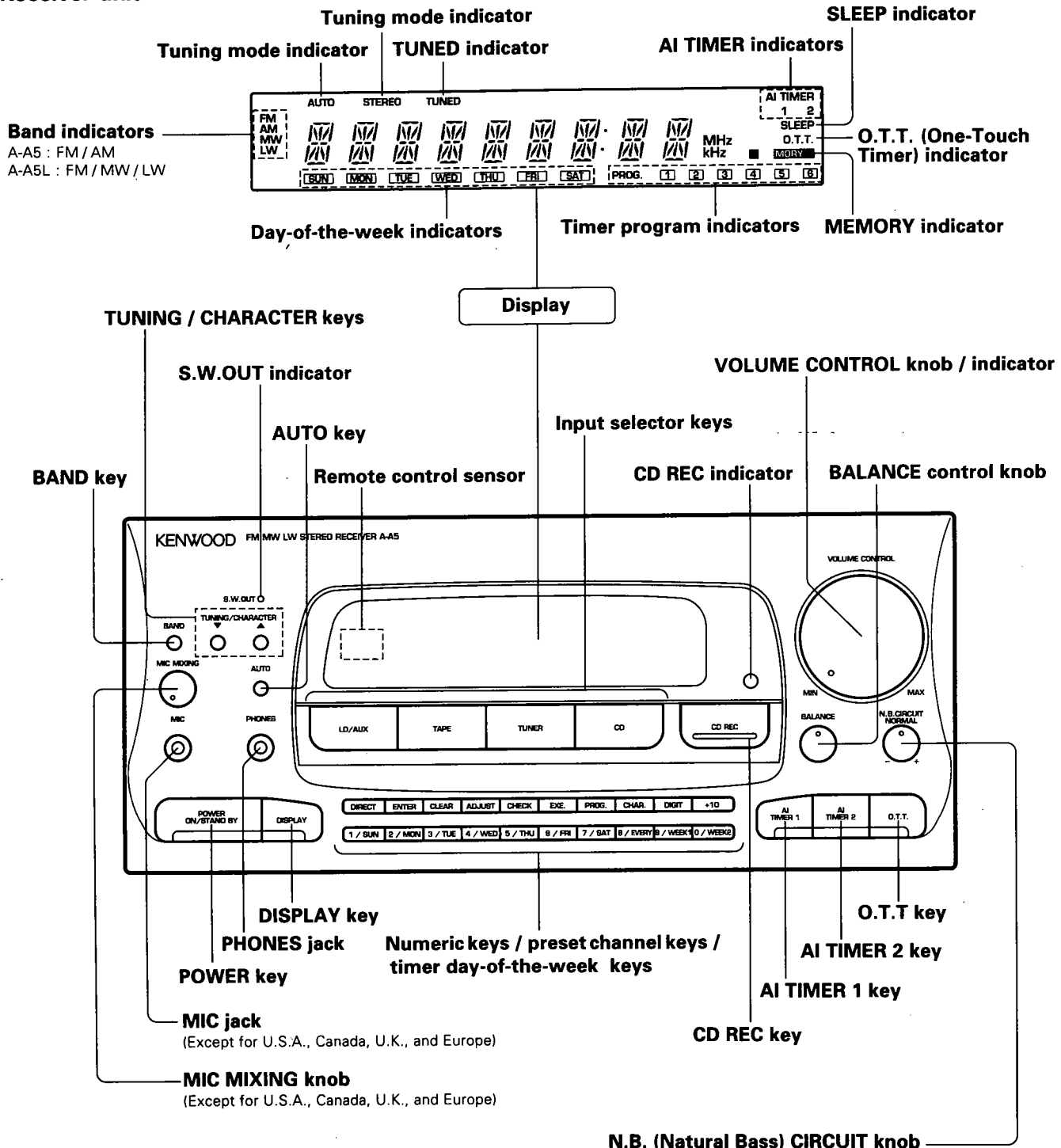
* Refer to parts list on page 53.

* UD-500: DP-A5
UD-500M: DP-MA5

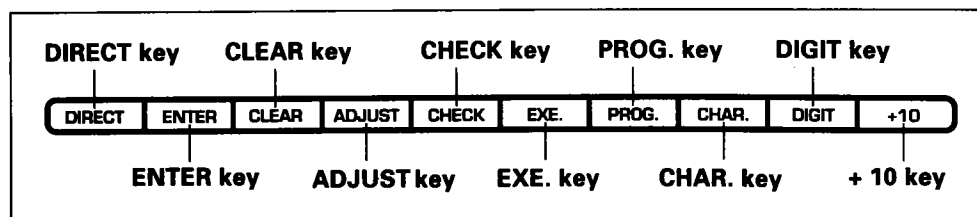


CONTROLS & INDICATORS

Receiver unit

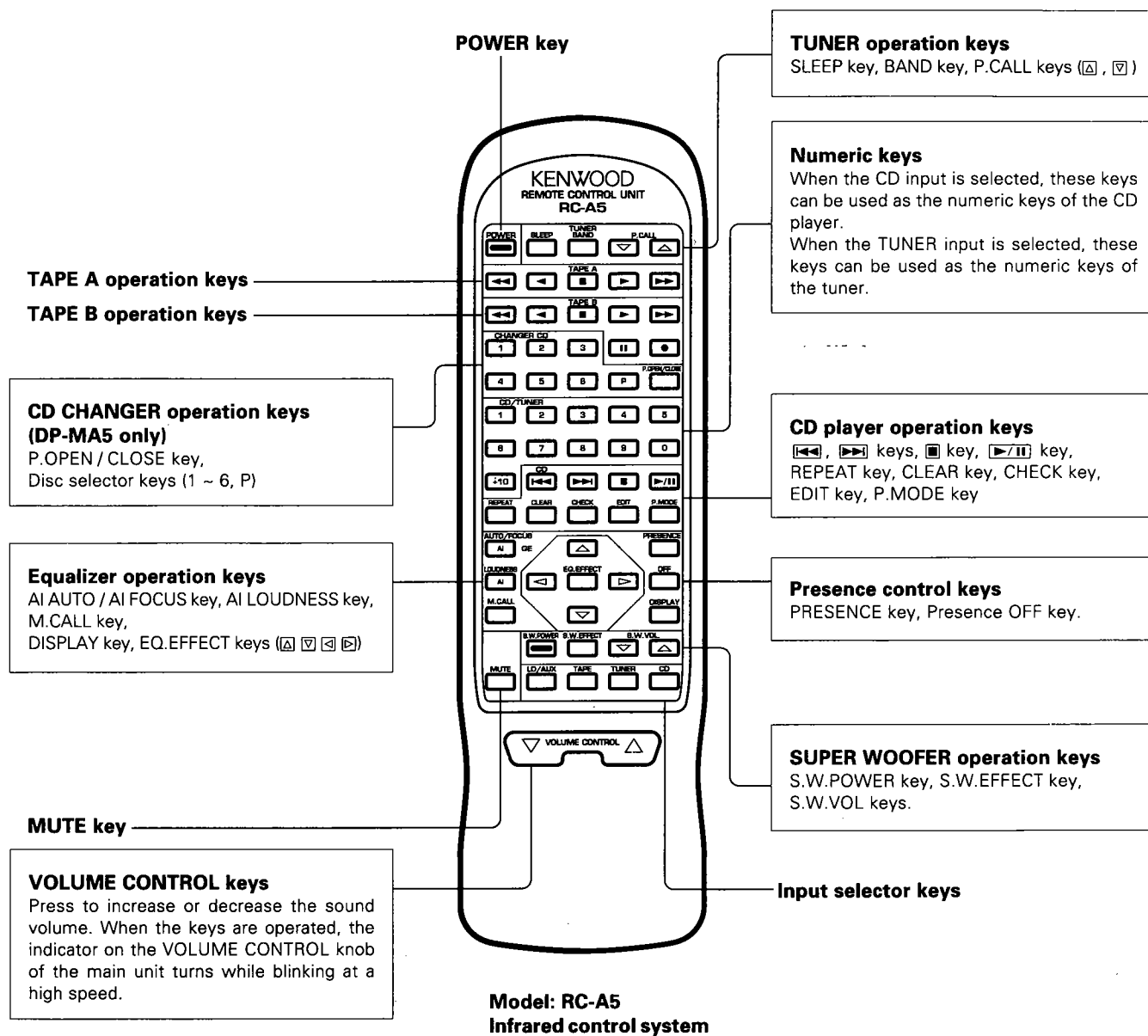


N.B. (Natural Bass) CIRCUIT knob



CONTROLS & INDICATORS

Remote control unit



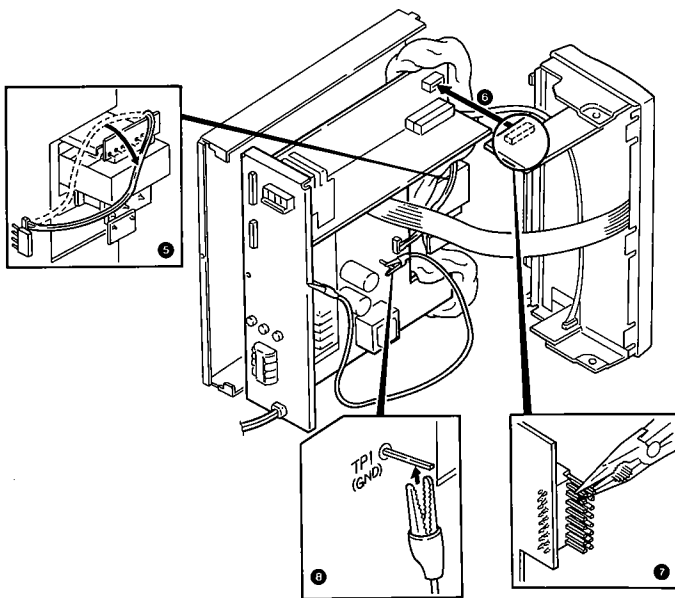
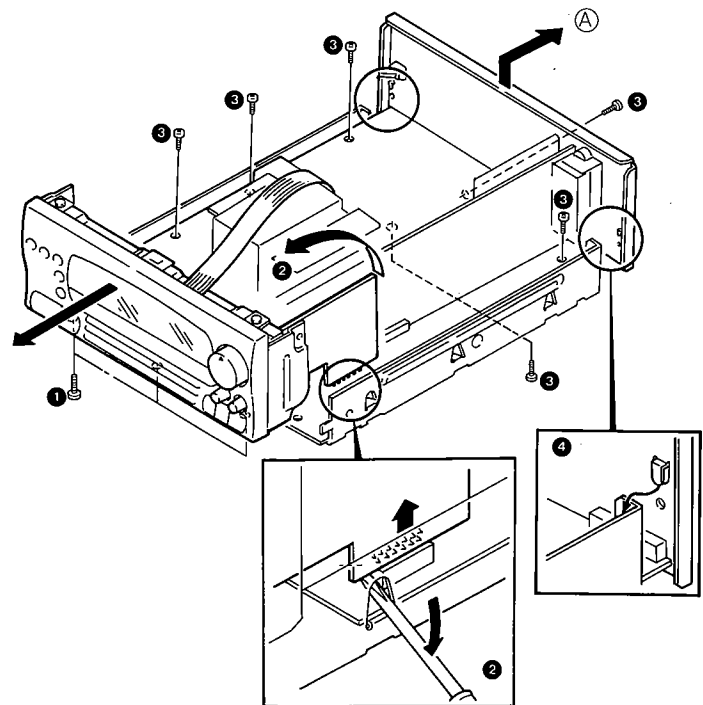
DISASSEMBLY FOR REPAIR

<K,P,T,E type>

1) Removing the audio main unit (X09: A/6)

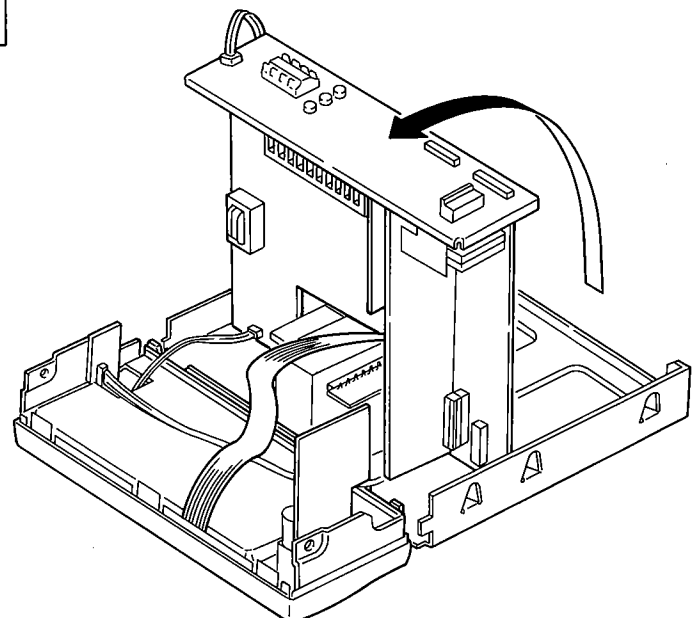
1. Remove the three screws (1), then remove the front panel while disconnecting the connector in the direction of arrow (2).
2. Remove the six screws (3), then remove the audio main unit in the direction of arrow (A).

Note: When installing the audio main unit, insert the clows as shown in the figure (4).



2) How to check the audio main unit (X09: A/6)

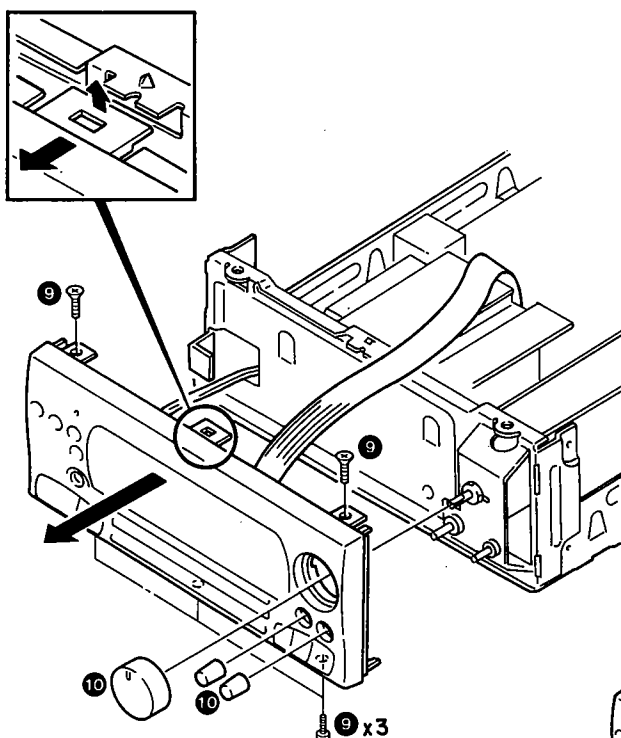
1. Stand the set with the right side upward, then move the audio main unit to parallel while moving the secondary parallel lead as shown in the figure (5).
 2. Insert the connector of volume unit (X09: B/6) to the connector of audio main unit (6).
- Note: When the pins of connector is bent, correct them as shown in the figure (7).
3. Lay a cloth between the audio main unit and transformer, and connect the board ground TPI to the rear panel (8).



4. In case check the main unit only, be able to check without connect the front panel side. Stand the audio main unit with the rear panel side upward as shown in the figure.

A-A5/A5L

DISASSEMBLY FOR REPAIR



3) Removing the front panel

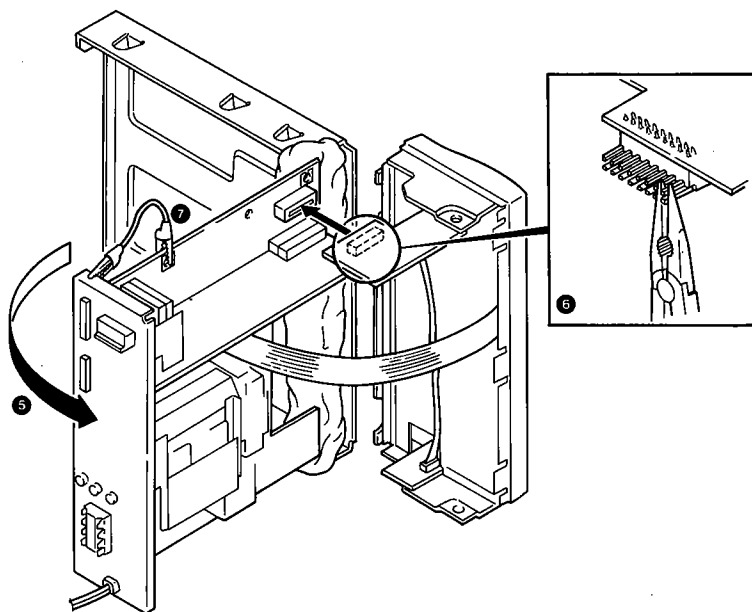
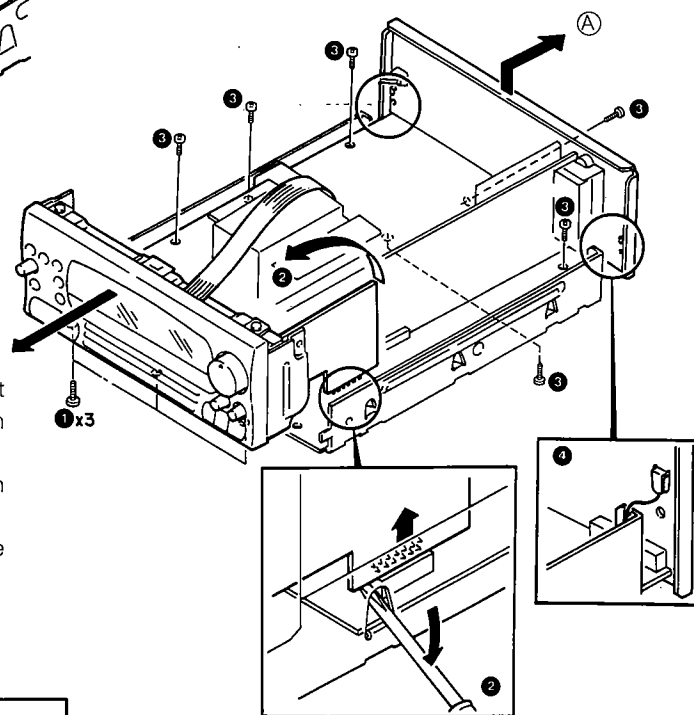
1. Remove the five screws (9).
2. Remove the three knobs (10), then remove the front panel in the direction of arrow.

<Y,M,X type>

1) Removing the audio main unit (X09: A/6)

1. Remove the three screws (1), then remove the front panel while disconnecting the connector in the direction of arrow (2).
2. Remove the six screws (3), then remove the audio main unit in the direction of arrow (A).

Note: When installing the audio main unit, insert the clows as shown in the figure (4).



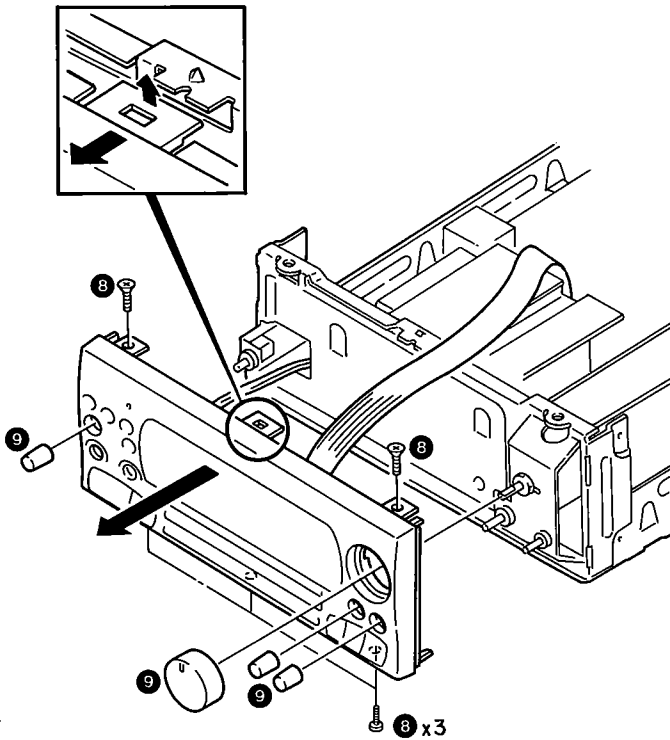
2) How to check the audio main unit (X09: A/6)

1. Stand the set with the right side upward, the move the audio main unit in the direction of arrow (5).
2. Insert the connector of volume unit (X09: B/6) to the connector of audio main unit.
Note: When the pins of connector is bent, correct them as shown in the figure (6).
3. Lay a cloth between the audio main unit and transformer, and connect the board ground as shown in the figure (7).

DISASSEMBLY FOR REPAIR

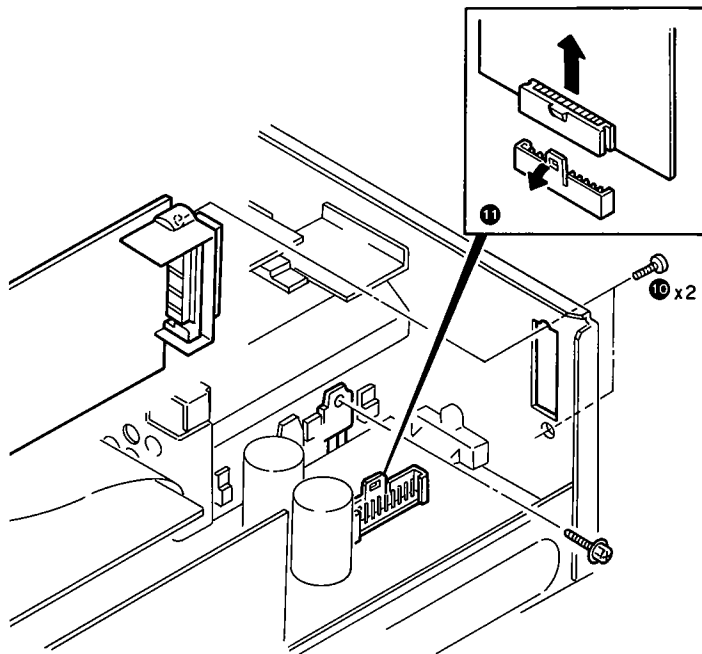
3) Removing the front panel

1. Remove the five screws (8).
2. Remove the four knobs (9), then remove the front panel in the direction of arrow.

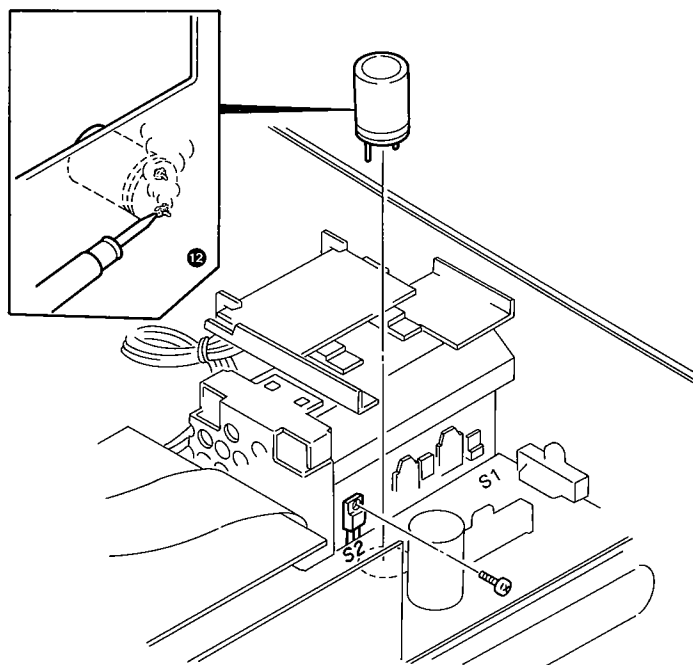


4) Removing the power transistor

1. Removing the two screws (10), then remove the tuner unit (X14: C/3).
2. Remove the X09: E/6 unit as shown in the figure (11).
3. Remove the screws, then remove the power transistor.



DISASSEMBLY FOR REPAIR

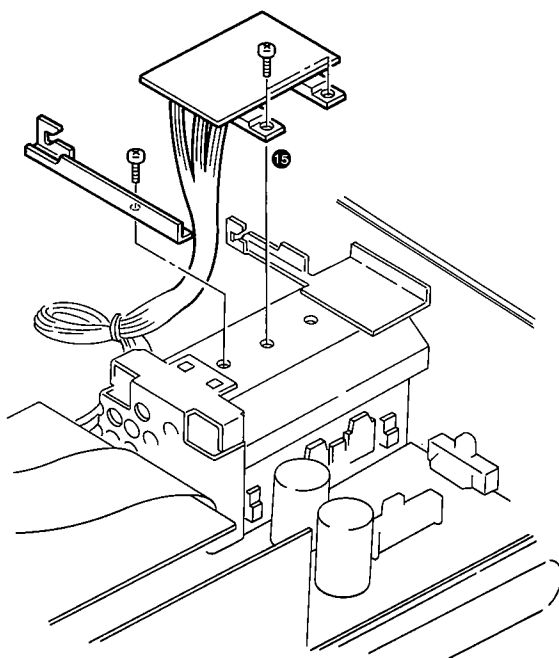
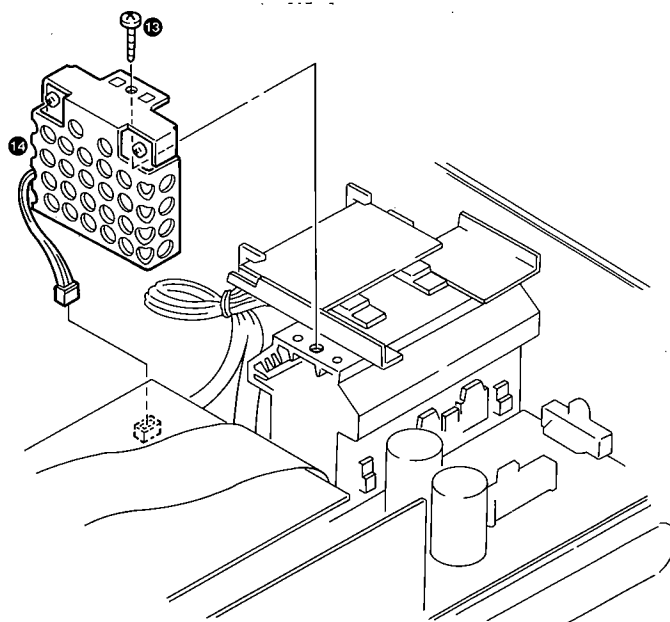


5) Removing the temperature compensating switch (S2)

1. Remove the tuner unit (X14: C/3) and X09: E/6 unit, then remove the capacitor (C90) (12).
2. Remove the one screw, then remove the temperature compensating switch.

6) Removing the fan

1. Remove the one screw (13).
2. Remove the fan (14).

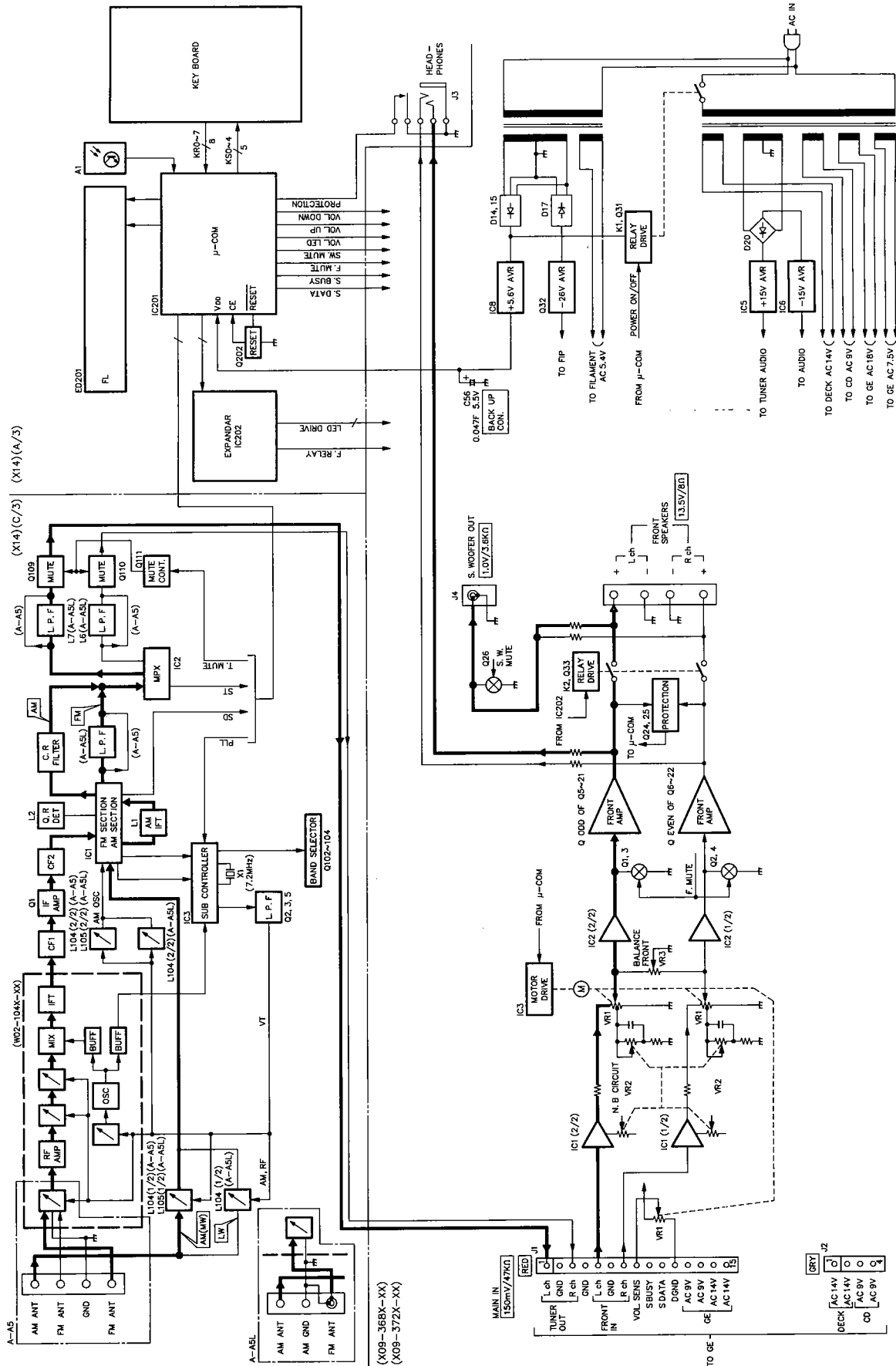


7) Removing the X09: C/6 unit

1. Remove the three screws, then remove the X09: C/6 unit. (15).

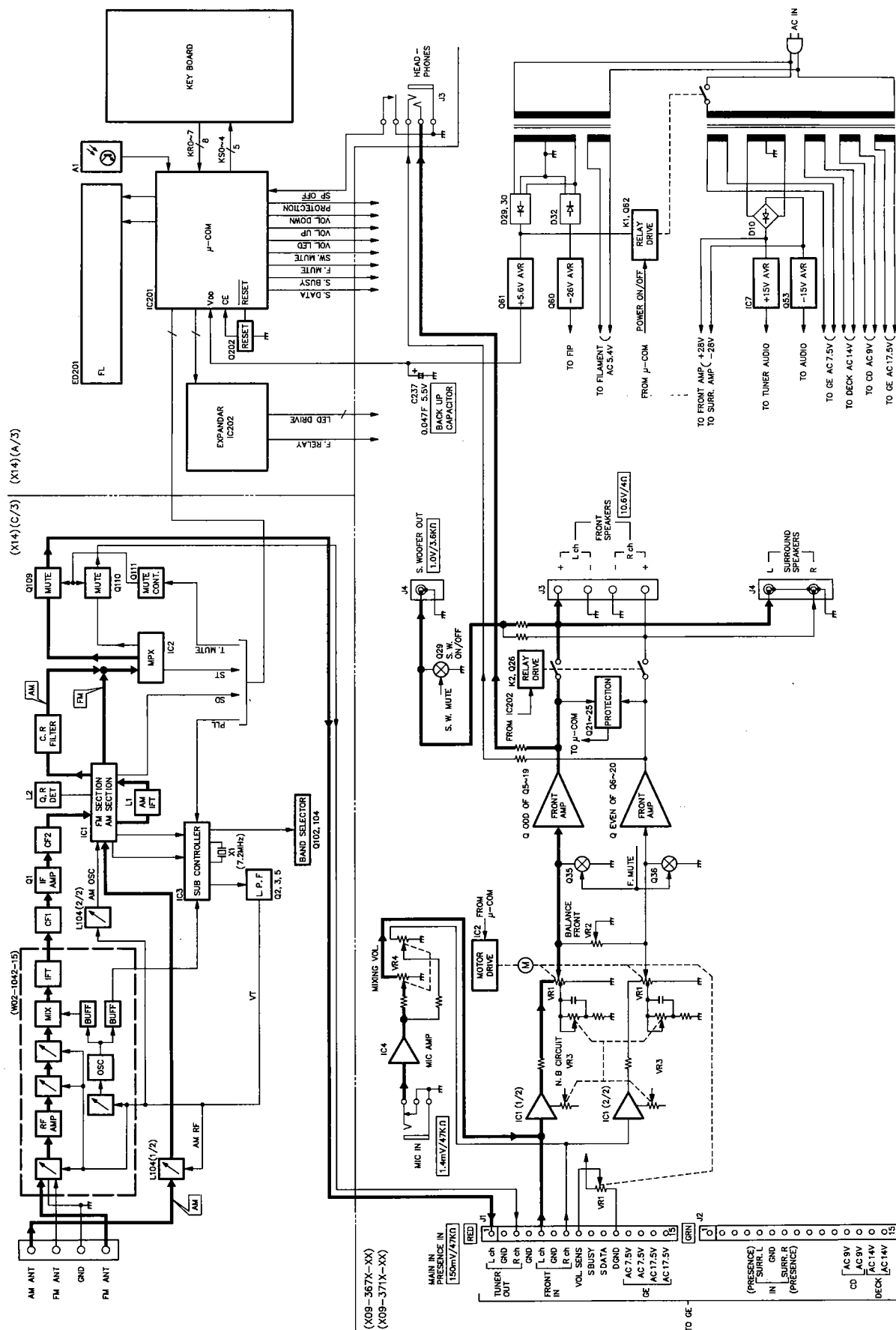
BLOCK DIAGRAM

<K,P,T,E type>



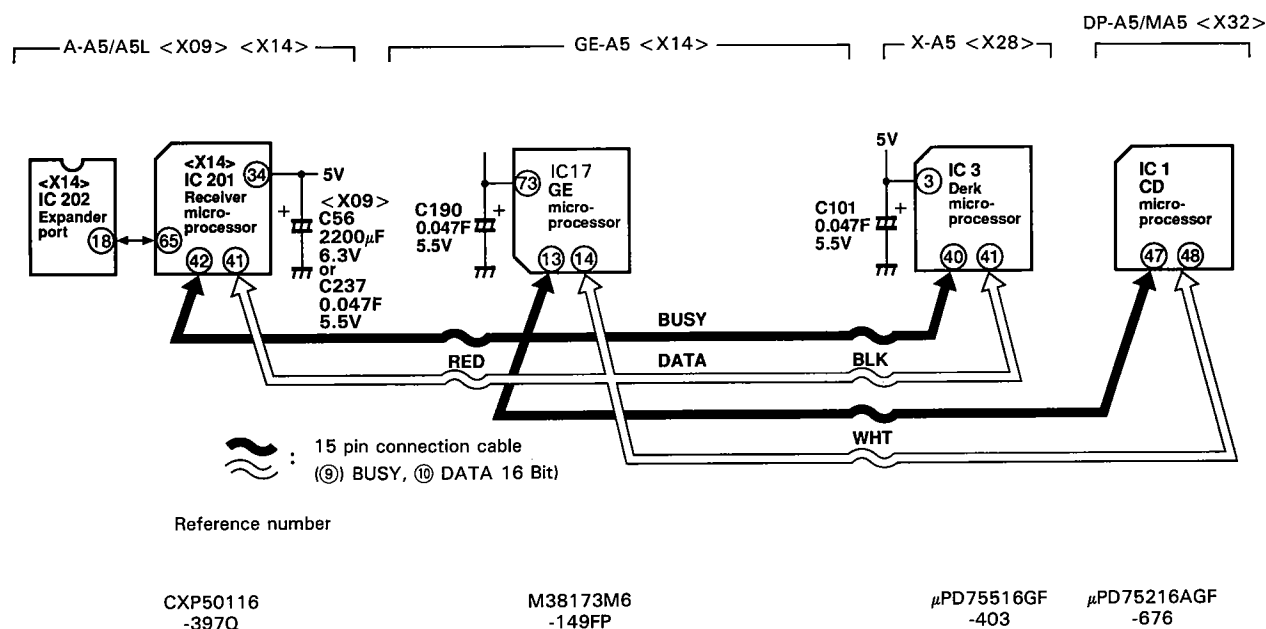
BLOCK DIAGRAM

<Y,M,X type>



CIRCUIT DESCRIPTION

1. Microprocessor and back-up condenser of this unit (16-bit serial transmission is supported like the UD-100/90/70, unlike the UD-7/9 series (8 bits).)



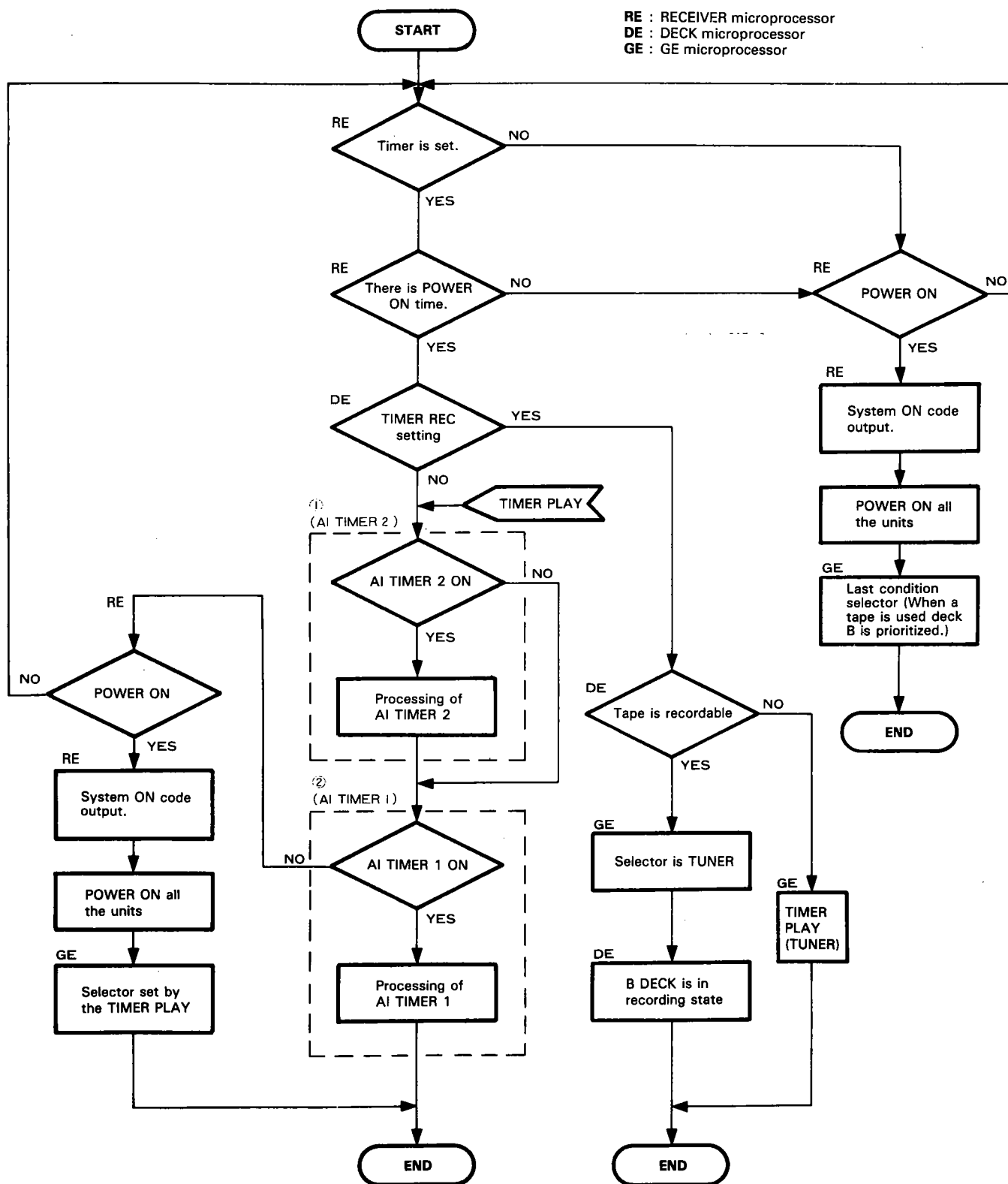
2. Microprocessor initialization (reset) and test mode

		A-A5/A5L	GE-A5	X-A5	DP-A5/MA5
		RECEIVER microprocessor (X14) IC201 CXP50116-397Q	GE microprocessor (X14) IC17 M38173M6-149FP	DECK microprocessor (X28) IC3 μPD75516GF-403	CD microprocessor (X32) IC1 μPD75216AGF-676
Backup capacitor		(X09) C56 2200 μ F 6.3 V (K,P,T,E type) C237 0.047 F 5.5 V (Y,M,X type)	(X14) C190 0.047 F 5.5 V	(X28) C101 0.047 F 5.5 V	None
Initialization (reset)		Hold down the ENTER key, and insert the AC plug into the outlet.	Hold down the MEMORY key, and turn AC on.	Turn AC off in the CRLS test mode (see below).	Turn AC off again.
Test mode	Operation	Hold down the CHARACTER key, and insert the AC plug into the outlet.	Hold down the FLAT key, and insert the AC plug into the outlet.	Short test pin ⑧ $\rightarrow$ ⑦, and insert the AC plug into the outlet.	Short-circuiting the test pins CN2 (1 pin and 2 pin)
	Release	Remove the AC plug from the outlet.	Release—AC off.	Press the PAUSE key.	Release—AC off
	Contents	① All fluorescent displays light. For details, see the service manual for each model.		No fluorescent display.	

CIRCUIT DESCRIPTION

3. Operation of UD-500/500M

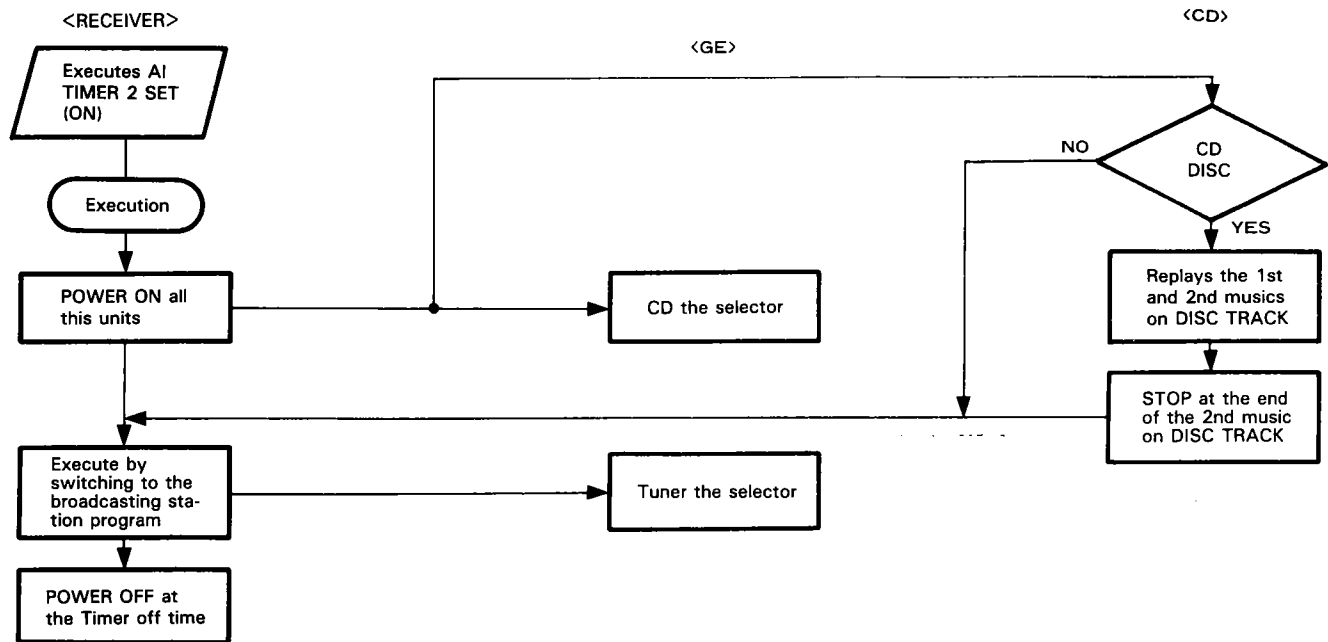
The flow chart from power on through sound generation



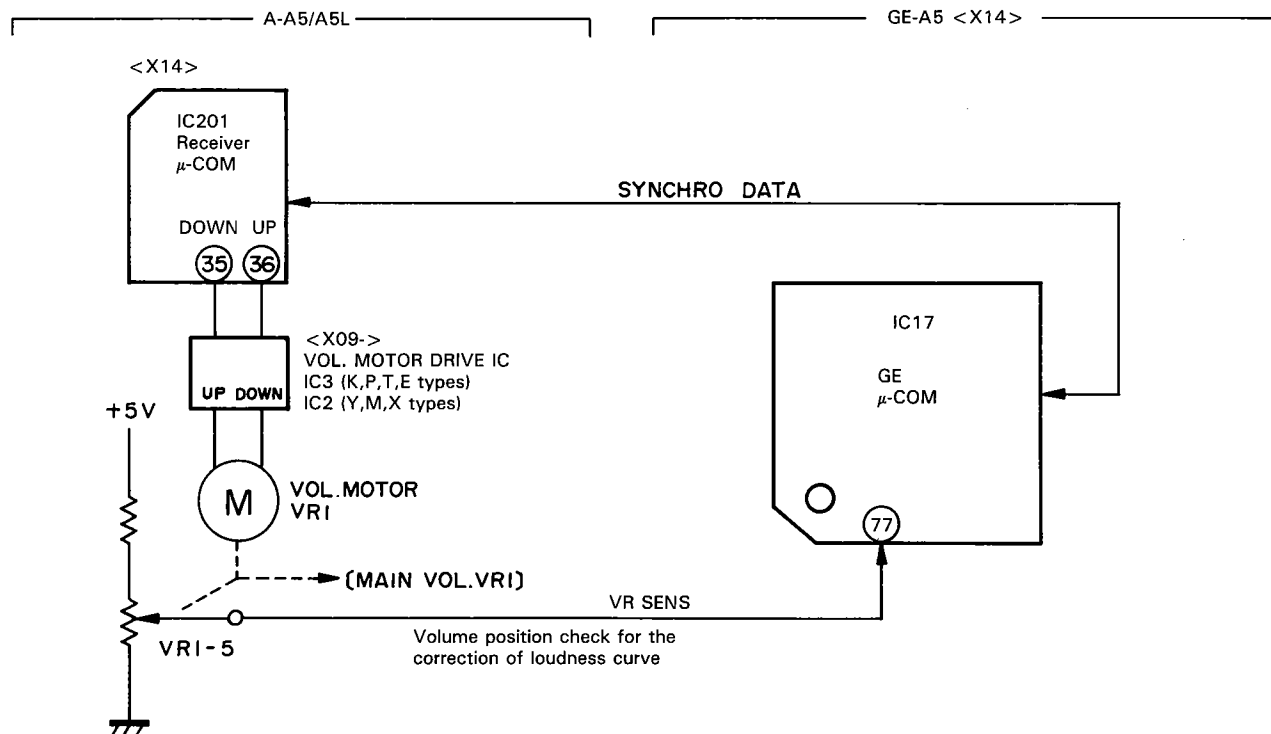
CIRCUIT DESCRIPTION

4. AI TIMER

4-1. Flow chart of AI TIMER 2

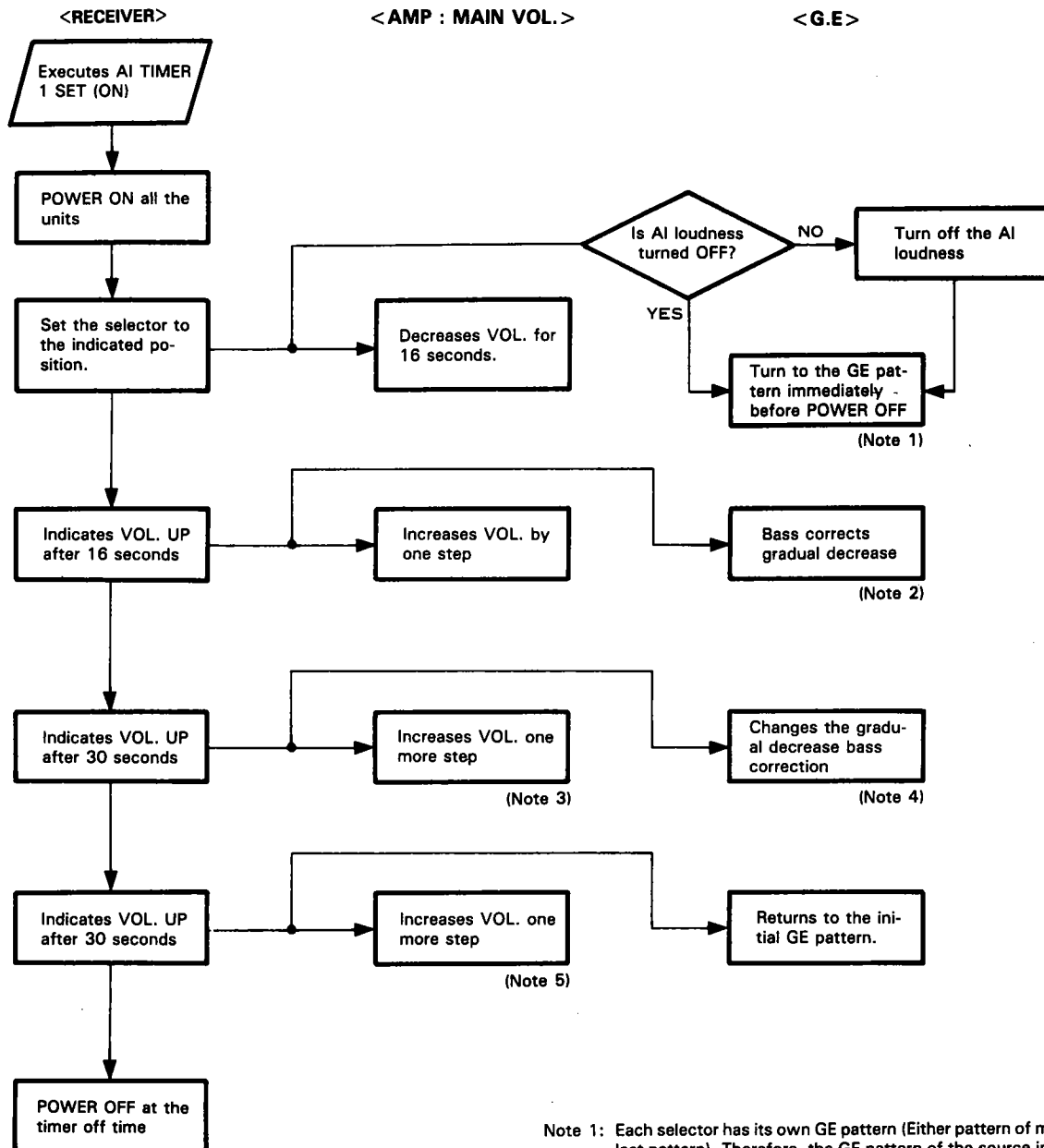


4-2. Operation of AI TIMER 1



CIRCUIT DESCRIPTION

4-3. Flow chart of AI TIMER 1



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

Note 2: Shifts to the pattern which has the loudness effect (There are two patterns of the gradual decrease bass correction of AI TIMER 1).

Note 3: The three steps of increase volume can be selected.

Note 4: Decrease correction volume is lowered in accordance with VR UP.

Note 5: Same as Note 3. However, the VR position is limited at the position of 12.

CIRCUIT DESCRIPTION

4-4. Function description

a) AI TIMER 1

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

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

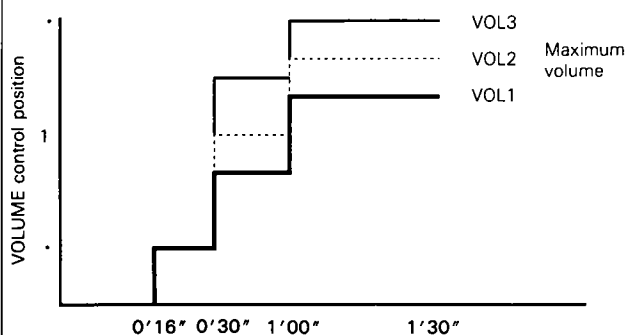
→ OFF → VOL. 1 → VOL. 2 → VOL. 3

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

Example: When VOL. 2 is selected

→ VOL. 2 → VOL. 3 → OFF → VOL. 1

Reference for volume selection



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

b) AI TIMER 2

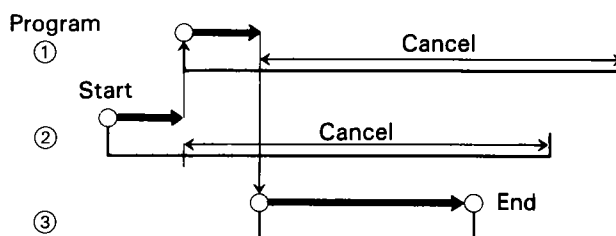
- With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 2 is activated if the AI TIMER 2 is set to ON (FL indicator is lit).
- When the AI TIMER 2 is turned ON, if the disc is loaded in the CD player, the two tracks on the disc is played regardless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

5. Timer program operation

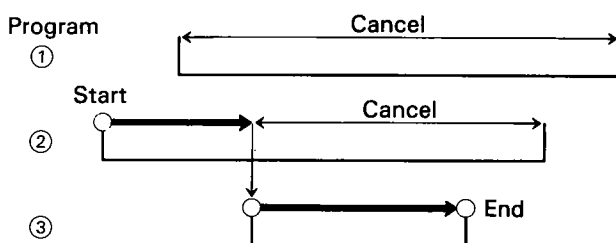
<When the program settings are registered within the same period>

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

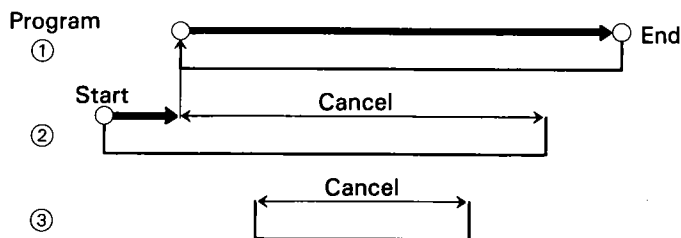
Example 1: When the operation modes for all three programs are set to PLAY:



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



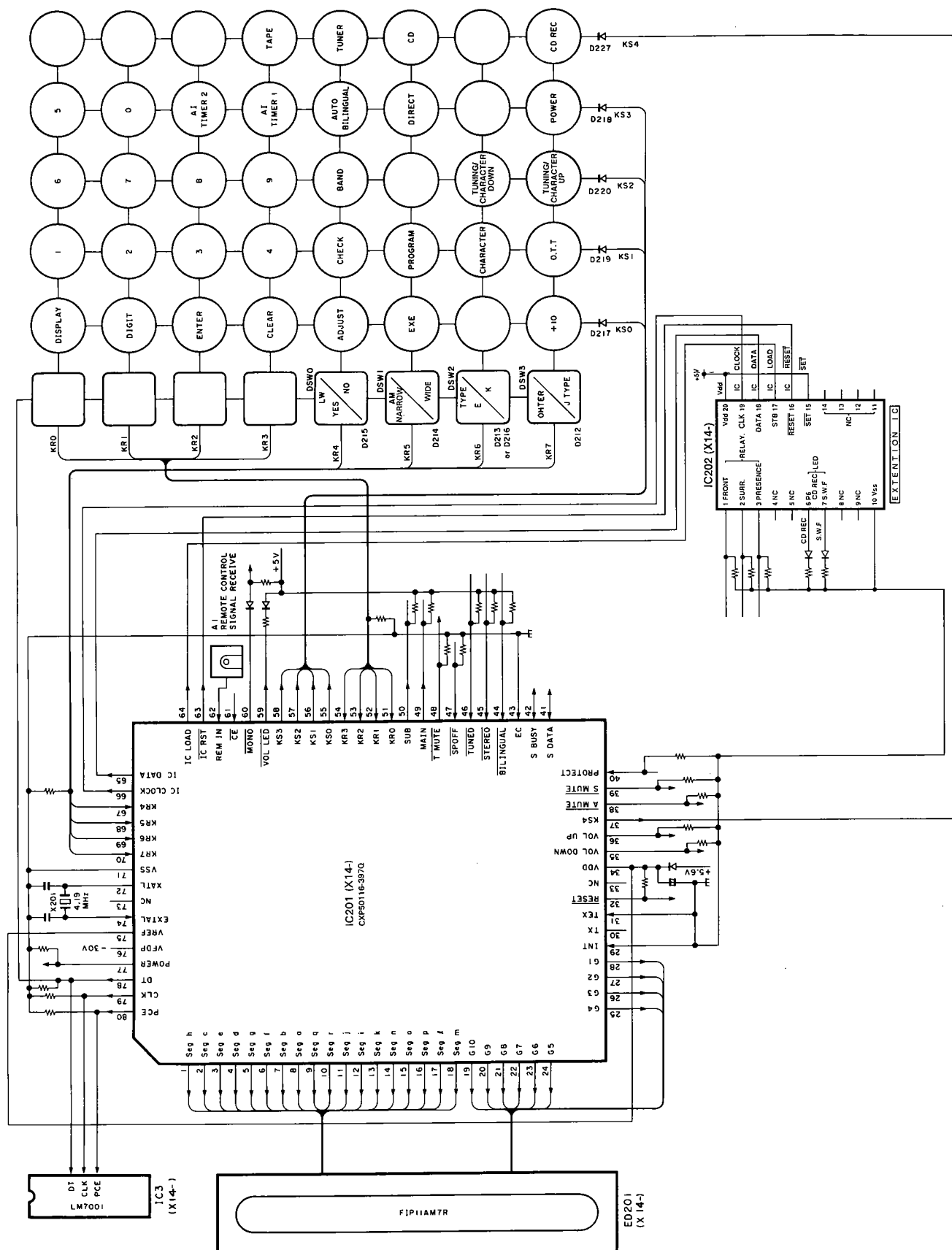
Example 3: When the operation mode for programs ①, ② are set to REC and that for program ③ is set to PLAY:



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

CIRCUIT DESCRIPTION

6. Block diagram of surrounding microprocessor



CIRCUIT DESCRIPTION

10. Test frequency

CH	TYPE	A-A5			A-A5L	
		K, P	Y, M (AM 10 kHz, FM 100 kHz step)	Y, M, X (AM 9 kHz, FM 50 kHz step)	T, E	
1	FM	98.0 MHz	FM 98.0 MHz	FM 98.0 MHz	FM	98.0 MHz
2	FM	108.0 MHz	FM 108.0 MHz	FM 108.0 MHz	FM	108.0 MHz
3	AM	630 KHz	AM 630 KHz	AM 630 KHz	AM	630 KHz
4	AM	990 KHz	AM 990 KHz	AM 990 KHz	AM	990 KHz
5	AM	1440 KHz	AM 1440 KHz	AM 1440 KHz	AM	1440 KHz
6	AM	1610 KHz	AM 1610 KHz	AM 1602 KHz	AM	1602 KHz
7	AM	1700 KHz	FM 87.5 MHz	FM 87.5 MHz	LW	162 KHz
8	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW	216 KHz
9	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW	270 KHz
10	FM	89.1 MHz	FM 89.1 MHz	FM 89.1 MHz	FM	89.1 MHz
11	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW	280 KHz
12	FM	90.0 MHz	FM 90.0 MHz	FM 90.0 MHz	FM	90.0 MHz
13	FM	106.0 MHz	FM 106.0 MHz	FM 106.0 MHz	FM	106.0 MHz
14	AM	530 KHz	AM 530 KHz	AM 531 KHz	AM	531 KHz
15	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW	153 KHz
16~20	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM	87.5 MHz

11. Expansion port IC: CX-7991 (X14: IC202)

Pin functions

Pin No.	Pin name	I/O	Name	Description
1	P1	O	FRONT RLY	Front speaker relay OFF/ON
2	P2	O	SURR. RLY	S4ch speaker relay OFF/OF
3	P3	O	PRESE RLY	F4ch speaker relay OFF/ON
4	P4	O		No used (Open)
5	P5	O	VFIX	No used OFF/ON
6	P6	O	CDREC	CD REC LED OFF/ON
7	P7	O	SWF	SUPER WOOFER LED OFF/ON
8	P8	O	ALC	No used OFF/ON
9	P9	O		No used (Open)
10	VSS			GND
11	P10	O		No used (Open)
12	P11	O		No used (Open)
13	P12	O		No used (Open)
14	SO	O		No used (Open)
15	SET	I		+ 5 V power supply
16	RESET	I		Reset signal input
17	STB	I	ICLOAD	Strube input
18	DATA	I	ICDATA	Data input
19	CLK	I	ICCLOCK	Clock input
20	VDD			+ 5 V power supply

CIRCUIT DESCRIPTION

Microprocessor: CPX50116-397Q (X14: IC201)

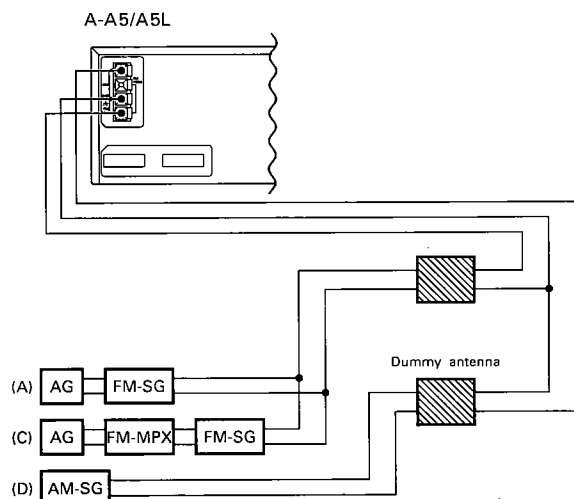
Pin functions

Pin No.	Pin name	I/O	Name	Description
1 ~ 18	S4 ~ S21/PG0 ~ PG3 PK0 ~ PK3, PJ0 ~ PJ3 T15 ~ T10	O	Segment	Segment (h, c, e, d, g, f, b, a, q, r, j, i, k, n, o, p, l, m)
19 ~ 28	S22, S23/T9, T8, T7 ~ T0	O	G10 ~ G1	Grid 10 ~ 1
29 ~ 31	INT, TX, TEX		INT, TX, TEX	No used.
32	RST	I	RESET	Reset pin Low: RESET High: NORMAL
33	NC		NC	No used.
34	Vdd		Vdd	+5 V power supply
35	PI0	O	VOLD	Motor volume down Low: STOP High: ACTIVE
36	PI1	O	VOLU	Motor volume up Low: STOP High: ACTIVE
37	PI2	O	KS4	Key scan signal output (KS4)
38	PI3	O	AMUTE	Amplifier mute Low: ON High: OFF
39	PB0	O	SMUTE	Super woofer mute Low: ON High: OFF
40	PB1	I	PROTECT	Protection detection Low: OFF High: ON
41	PB2	I/O	SDATA	Serial communication DATA
42	PB3	I/O	SBUSY	Serial communication BUSY
43	EC		EC	No used.
44	PX0	I	BILINGUAL	No used
45	PX1	I	STEREO	Stereo signal detection Low: STEREO High: MONAURAL
46	PX2	I	TUNED	SD signal detection Low: TUNED High: OFF
47	PA0	I	SPOFF	Head phone use detection Low: Use High: No use
48	PA1	O	TMUTE	Tuner mute Low: OFF High: ON
49	PA2	O	MAIN	No used
50	PA3	O	SUB	No used
51 ~ 54	PF0 ~ PF3	I	KR0 ~ KR3	Key return signal input (KR0 ~ KR3)
55 ~ 58	PE0 ~ PE3	O	KS0 ~ KS3	Key scan signal output (KS0 ~ KS3)
59	PY0	O	VOLLED	Volume LED drive Low: ON High: OFF
60	PY1	O	MONO	Forced monaural output Low: ON High: OFF
61	PY2	I	CE	Chip enable signal input Low: OFF High: ON
62	PY3	I	REMIN	Remote control signal input
63	PD0	O	ICRST	Expansion port IC RESET
64	PD1	O	ICLOAD	Expansion port IC STROBE
65	PD2	O	ICDATA	Expansion port IC DATA
66	PD3	O	ICCLOCK	Expansion port IC CLOCK
67 ~ 70	PC0 ~ PC3	I	KR4 ~ KR7	Key return signal input (KR4 ~ KR7)
71	Vss		Vss	GND
72	XTAL		XTAL	Crystal oscillator input (4.19 MHz)
73	NC		NC	No used.
74	EXTAL		EXTAL	Crystal oscillator input (4.19 MHz)
75	Vref		Vref	No used.
76	Vfdp		Vfdp	-30 V power supply.
77	S0/PH0	O	POWER	Power ON/OFF signal output Low: OFF High: ON
78	S1/PH1	O	DT	PLL IC (LM7001) DATA
79	S2/PH2	O	CLK	PLL IC (LM7001) CLOCK
80	S3/PH3	O	PCE	PLL IC (LM7001) STROBE

ADJUSTMENT

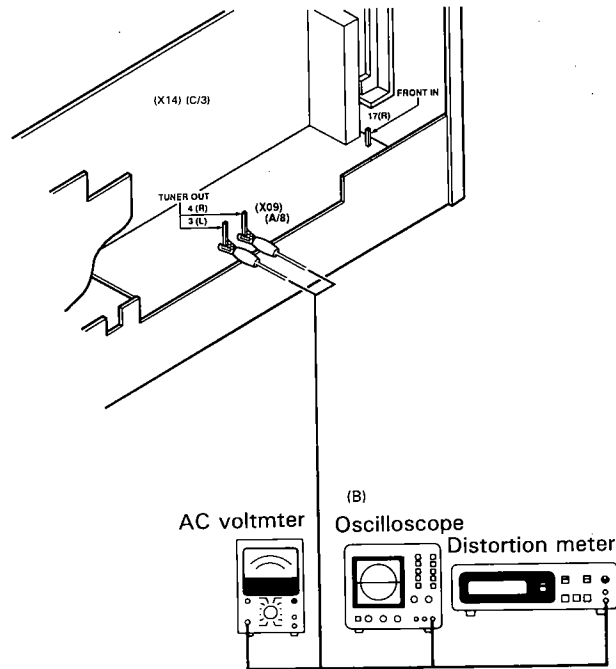
1. TUNER UNIT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR: FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ± 75 kHz dev (K,P,M,Y,X type) 1kHz, ± 40 kHz dev (E,T type) 60dB μ (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X14-)	AUTO or MONO 98.0MHz	L2 (X14-)	0V	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ± 68.25 kHz dev Pilot: ± 7.5 kHz dev (K,P,M,Y,X type) 1kHz, ± 40 kHz dev Pilot: ± 6 kHz dev (E,T type) 60dB μ (ANT input)	(B)	MONO 98.0MHz	IFT (W02-)	Minimum distortion	
3	SEPARATION	(C) 98.0MHz 1kHz, ± 40 kHz dev Pilot ± 6 kHz dev Selector: L or R 60dB μ (ANT input)	(B)	AUTO 98.0MHz	VR5 (X14-)	Minimum crosstalk	
4	TUNING LEVEL	(A) 98.0MHz 1kHz, ± 75 kHz dev (K,P,M,Y,X type) 1kHz, ± 45 kHz dev (E,T type) 14dB μ (ANT input) 750 18dB μ (ANT input) 3000	(B)	AUTO or MONO 98.0MHz	VR1 (X14-)	Adjust VR1 and stop at the point where ED201(TUNED) goes on.	
AM (MW) SECTION		SELECTOR: AM(MW)					
(1)	TUNING LEVEL	(D) 1008kHz 400Hz, 30% mod 26dB μ (ANT input)	(B)	1008kHz	VR3 (X14-)	Adjust VR3 and stop at the point where ED201 (TUNED) goes on.	

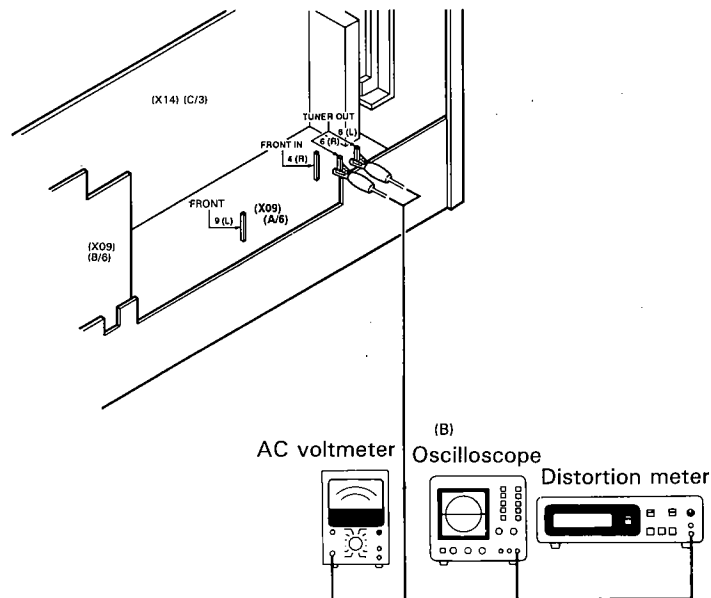


ADJUSTMENT

(K,P,T,E type)

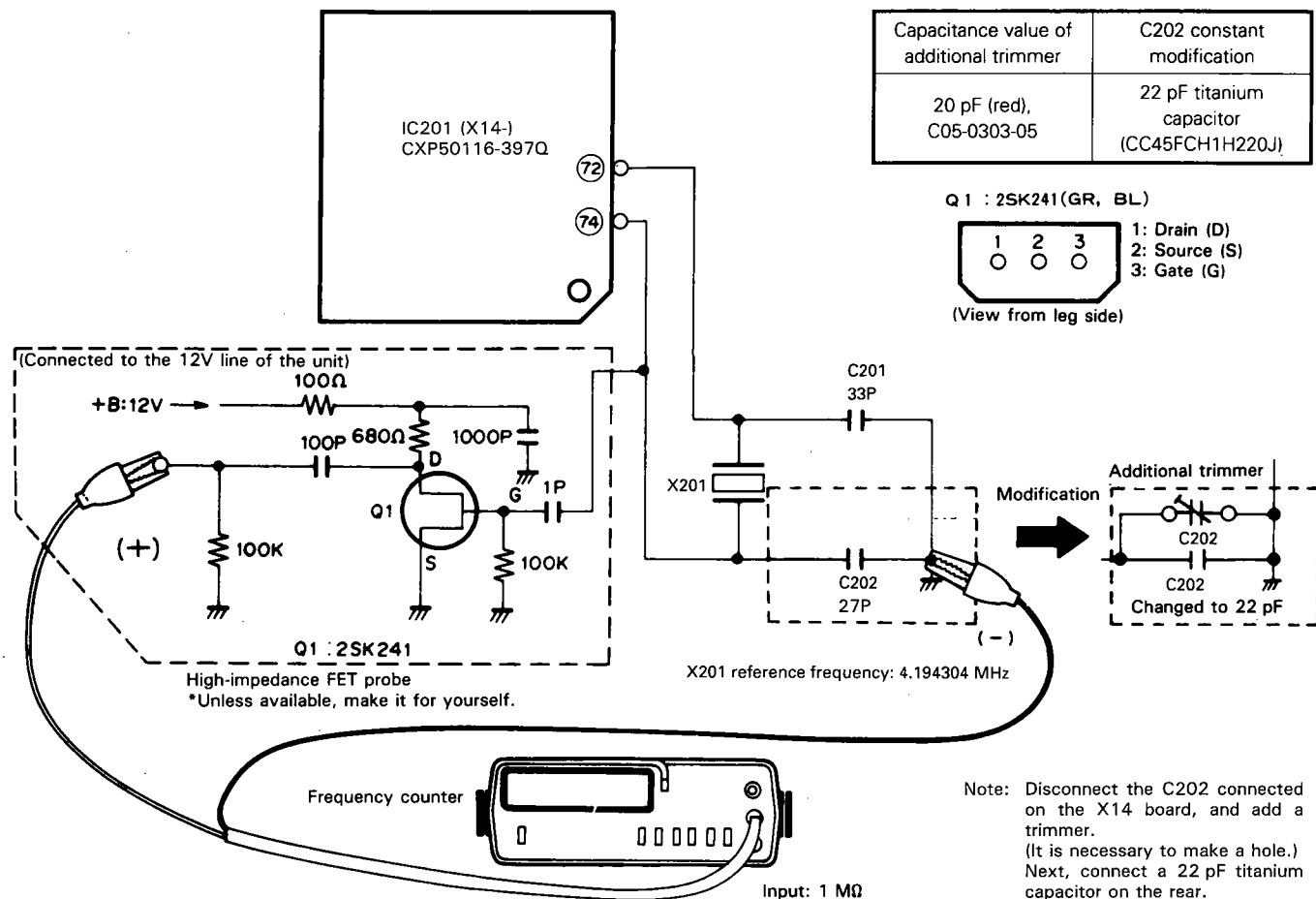


(Y,M,X type)



ADJUSTMENT

2. Timer accuracy improvement method



The timer accuracy is within ±40 seconds for one month as a standard. For improved timer accuracy, perform the following procedure:

- (1) If the timer accuracy is without the standard, replace X201 (L77-1176-05) near the microprocessor IC on a printed board (X14-)
- (2) Even if within the standard, for further improved accuracy, change the constant of C202 in the crystal oscillation circuit of microprocessor IC201 and add a trimmer.

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

Connect a high-accuracy frequency counter to pin 74 by way of the FET probe shown above, and adjust the frequency fully up to the first digit of the X201 reference frequency 4,194,304 Hz. (Connect the negative (-) side of the frequency counter to the GND side of C202.)

Note (a) As regards the positive (+) side of the frequency counter, arrange as short a distance as possible between pin 74 of IC201 and 1P of the input stage of the FET probe.

Note (b) Perform the trimmer adjustment after energization of around 10 minutes at normal temperature.

(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 $f_o = 4,194,304$ [Hz])

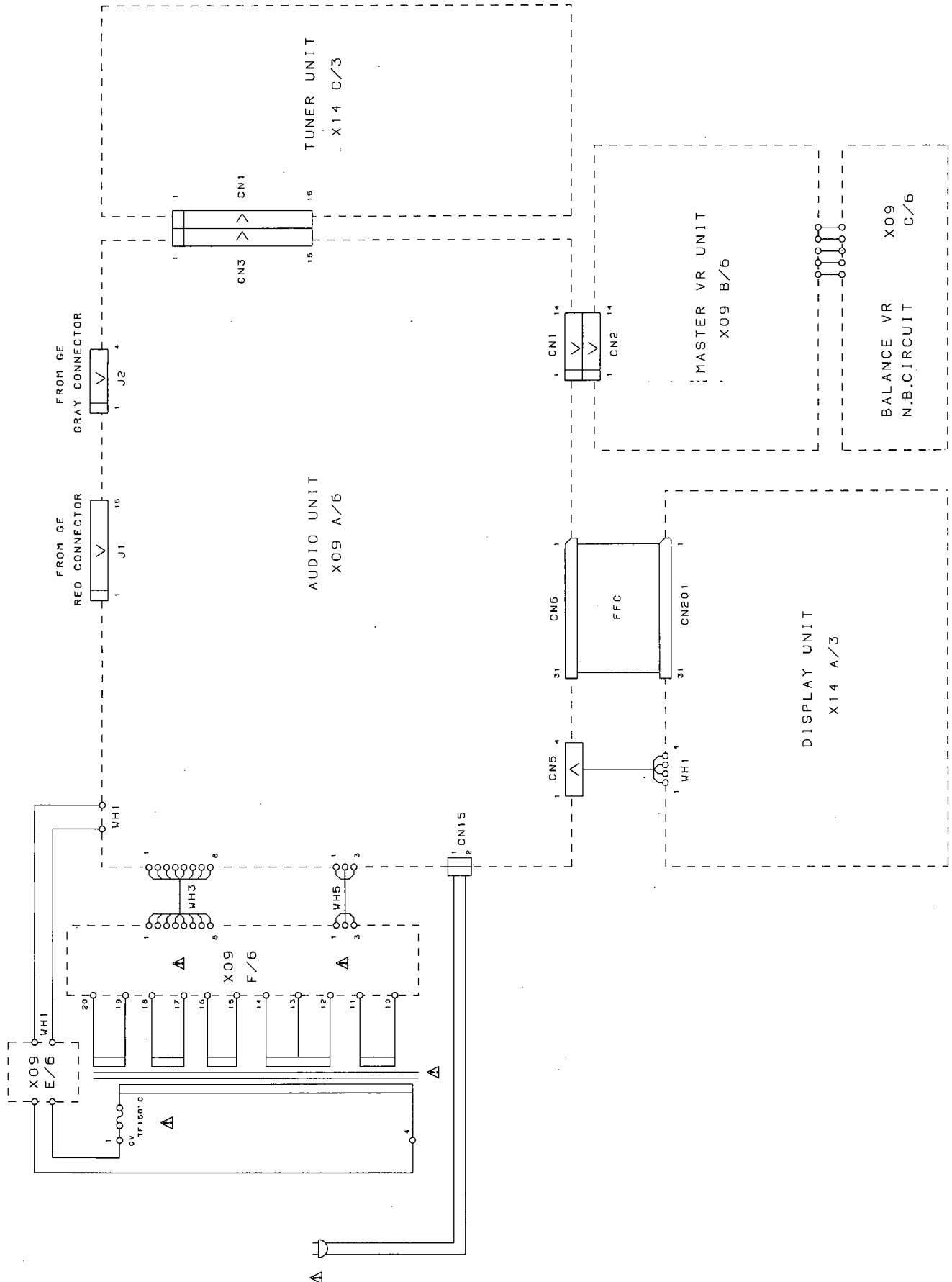
$$\text{Monthly error [sec]} = \frac{f_x - f_o}{f_o} \times \text{the number of seconds}$$

$$\begin{aligned} &\text{taken for one month} \\ &= \frac{4,194,275 - 4,194,304}{4,194,304} \\ &\quad \times (60 \times 60 \times 24 \times 30) \\ &= -17.9 [\text{sec}] \end{aligned}$$

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

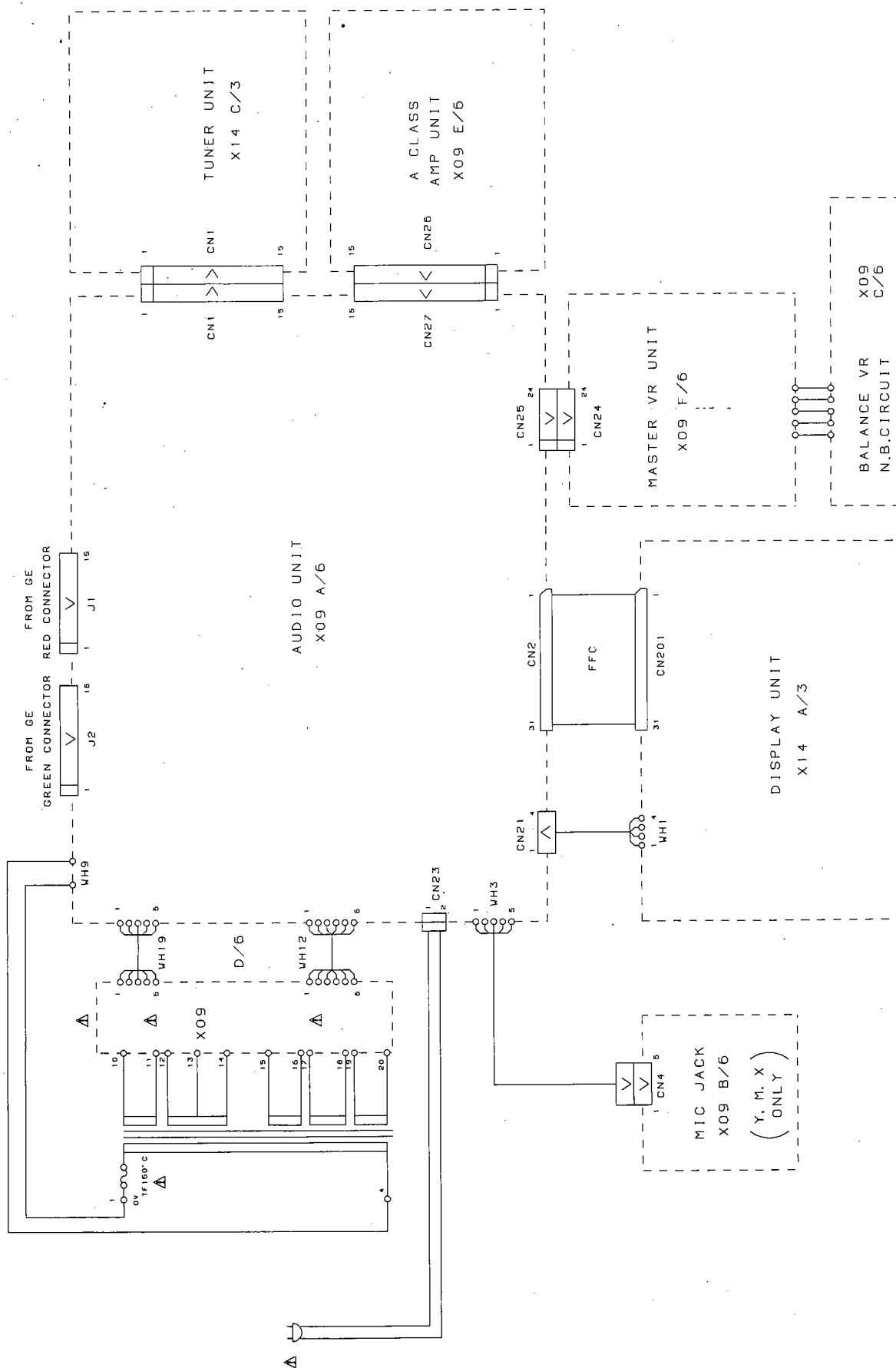
WIRING DIAGRAM

<K,P,T,E type>

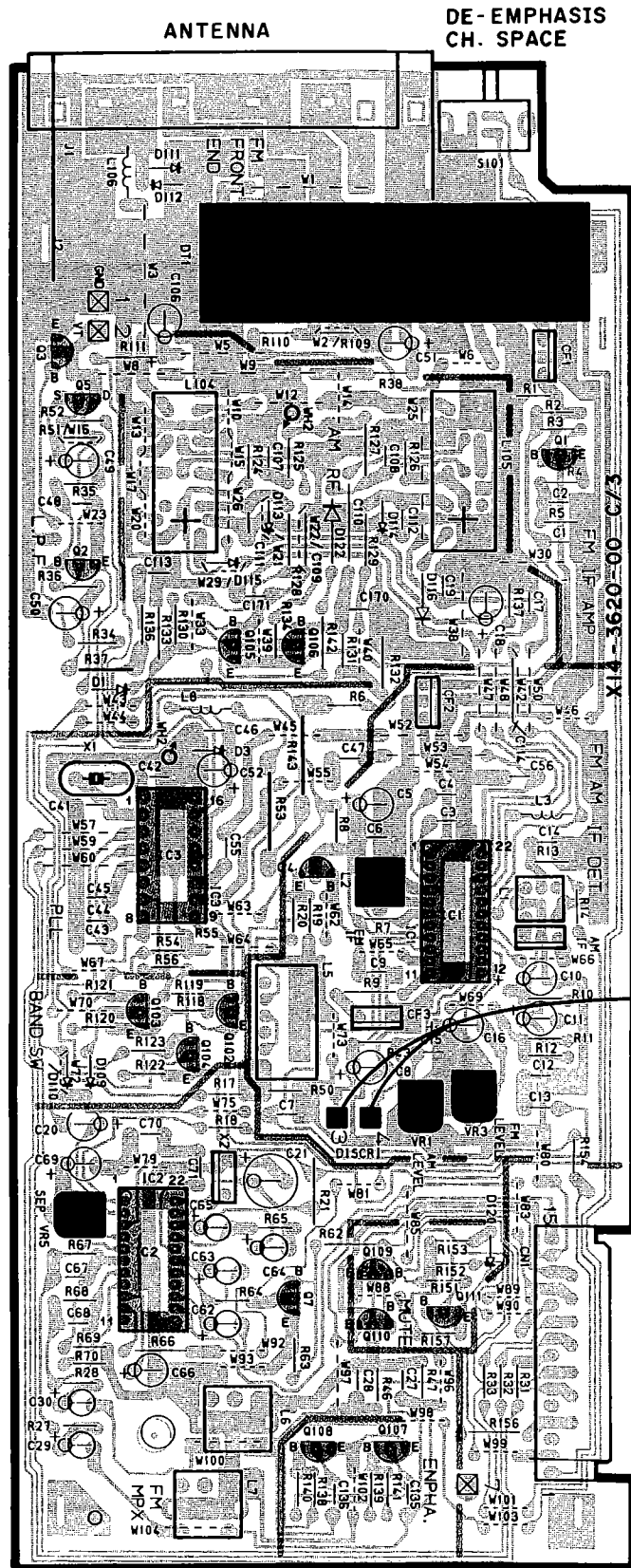


WIRING DIAGRAM

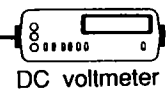
<Y,M,X type>



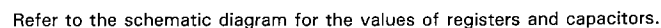
PC BOARD (Component side view)

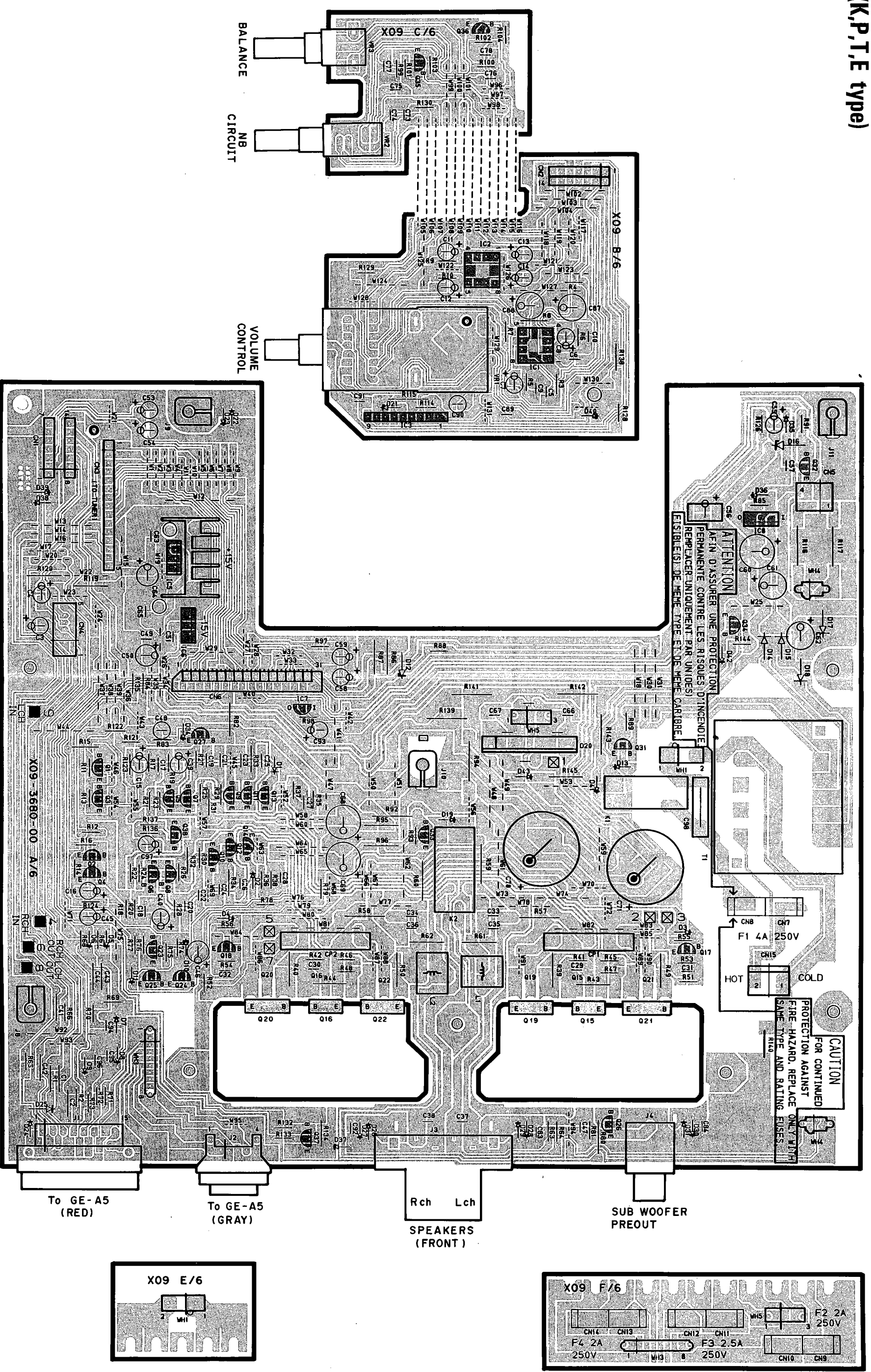


(a) Discriminator : 0V

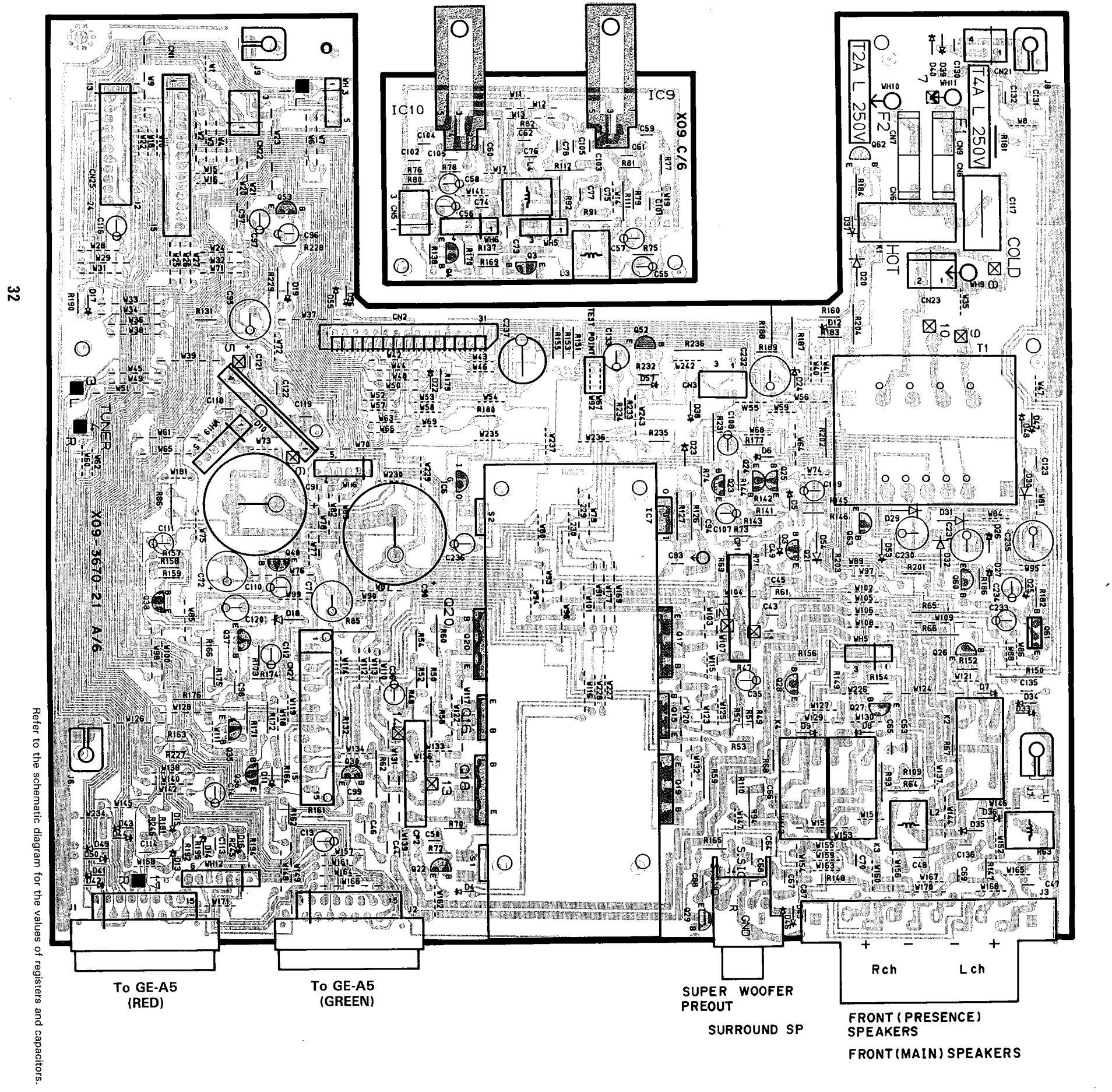
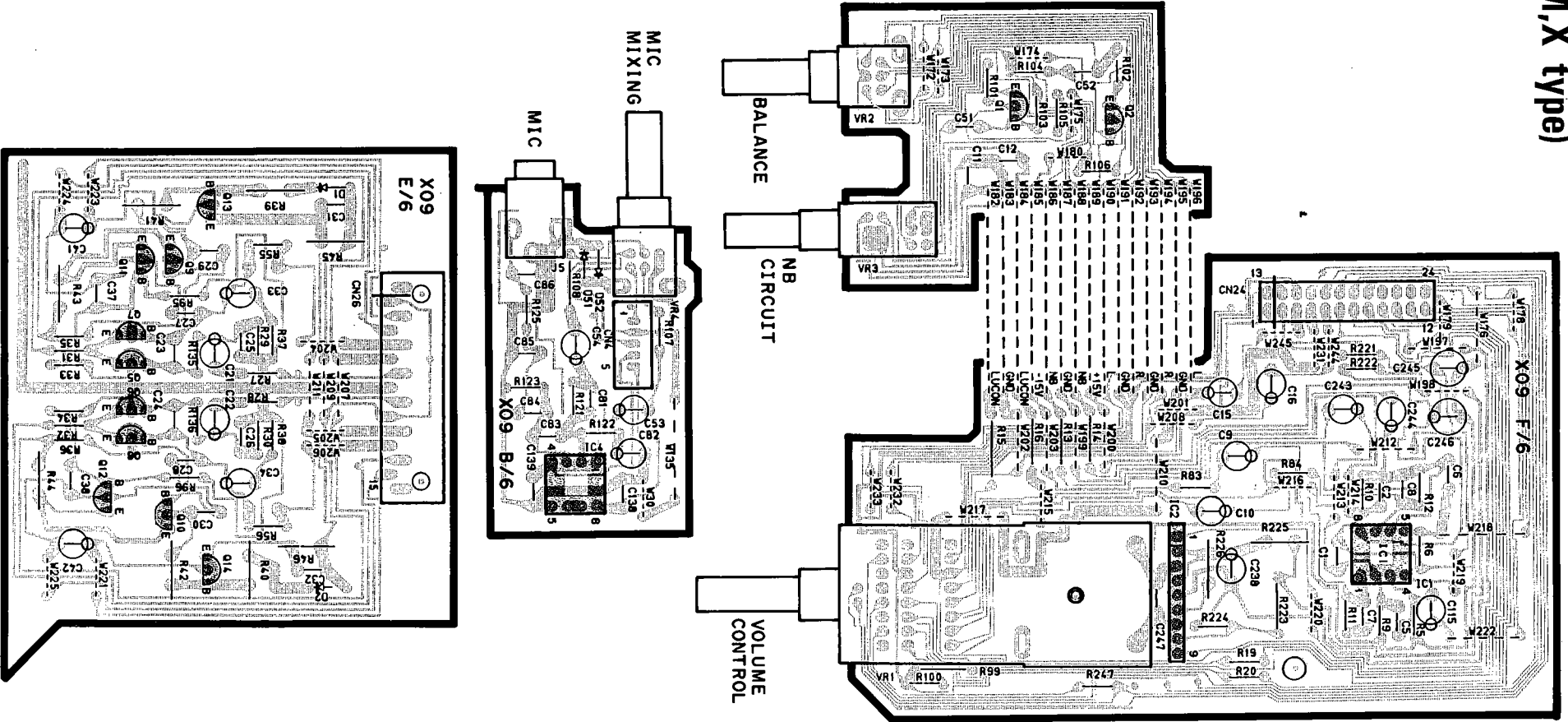


Refer to the schematic diagram for the values of registers and capacitors.



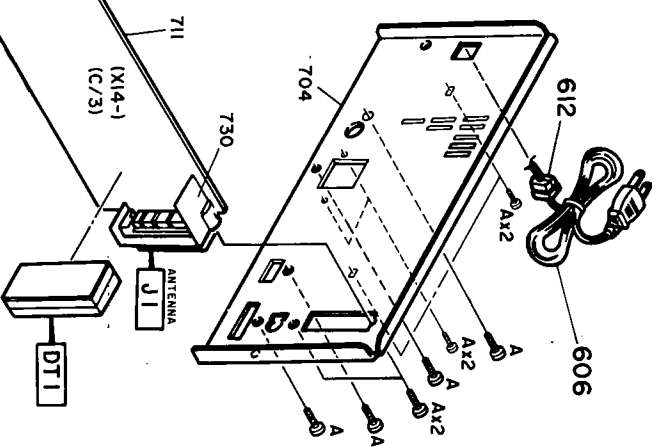
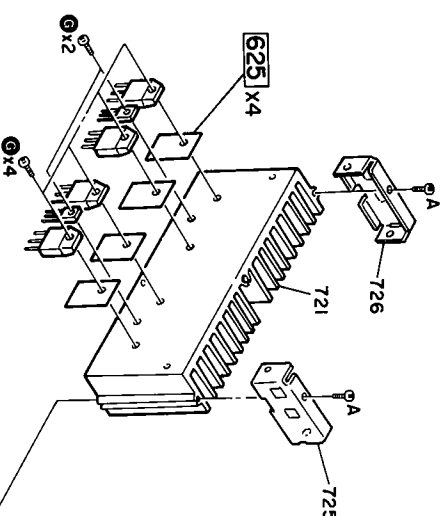
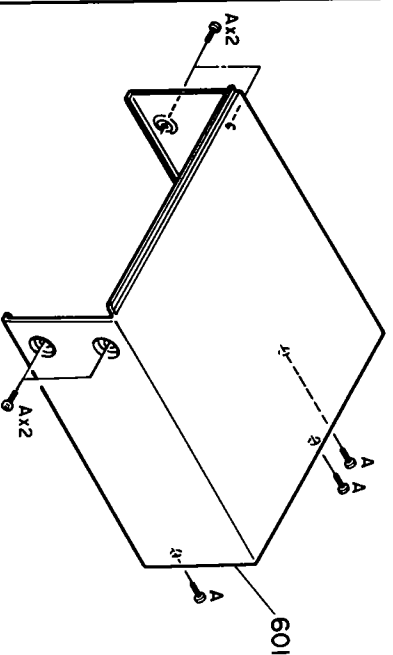
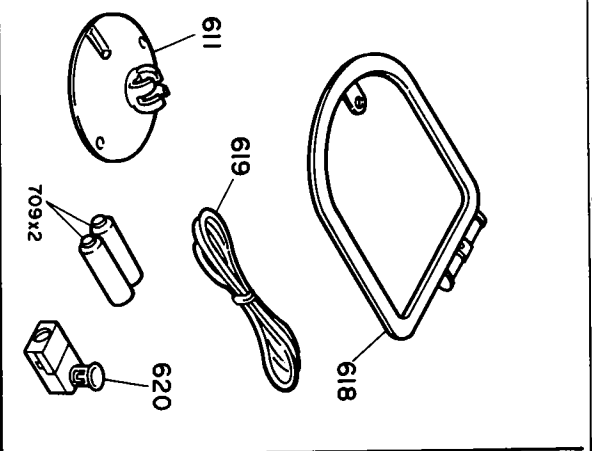


Refer to the schematic diagram for the values of registers and capacitors.

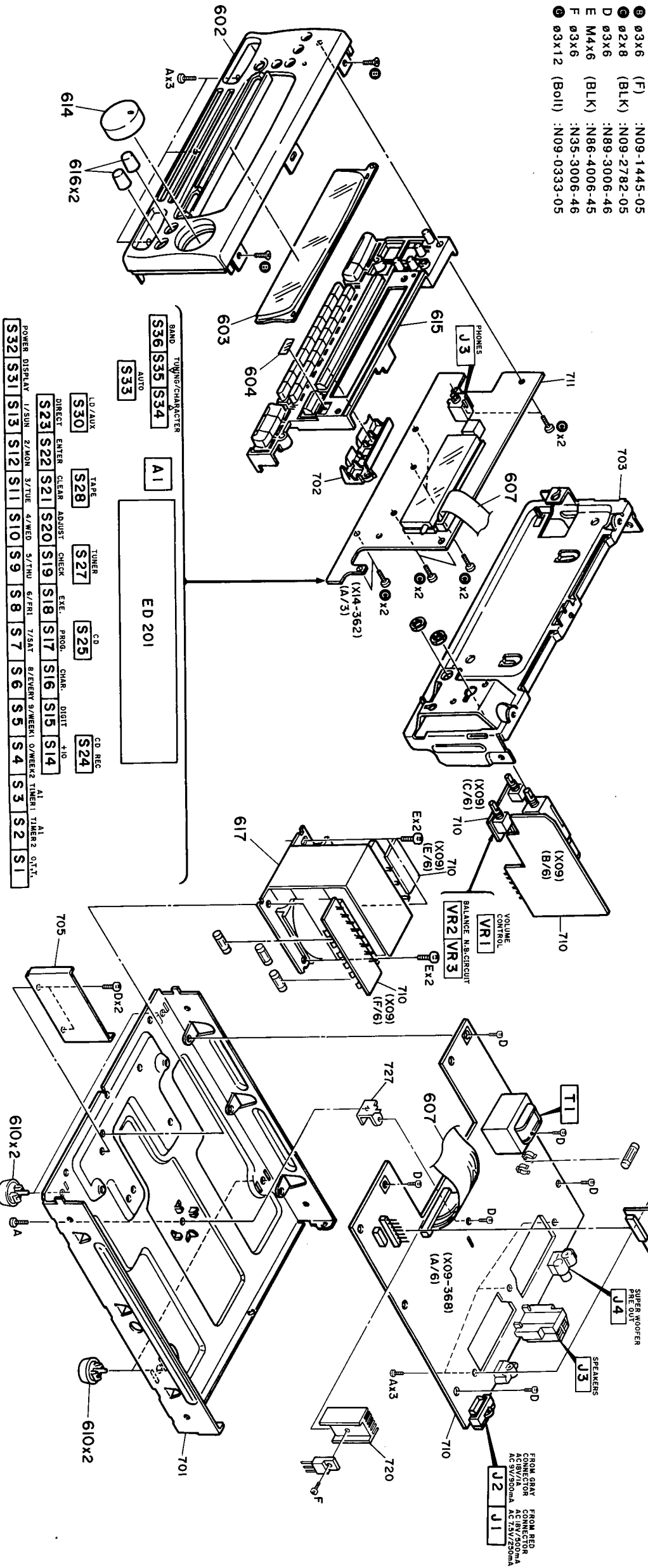


A-A5/A5L A-A5/A5L

EXPLODED VIEW (K,P,T,E type)

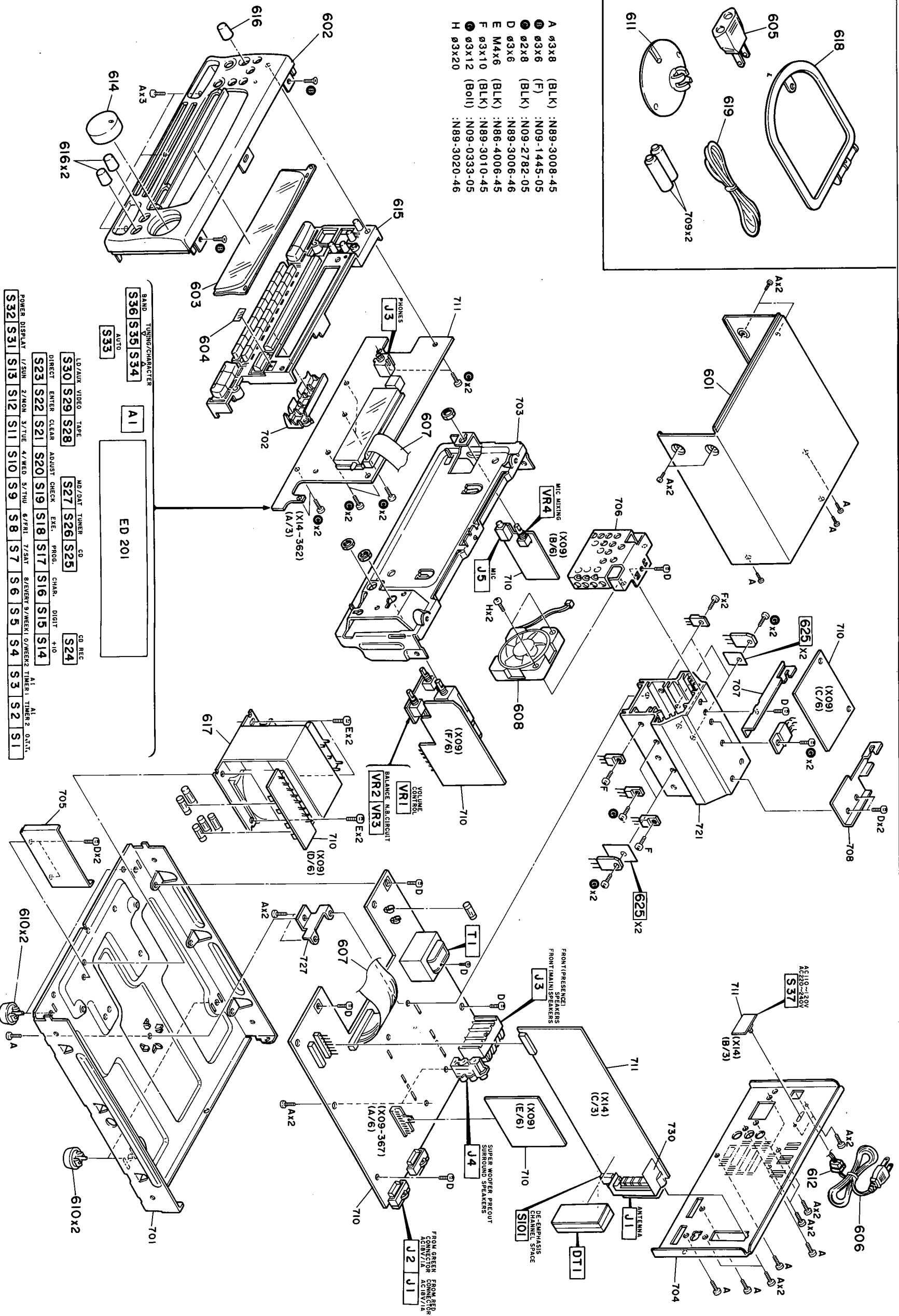
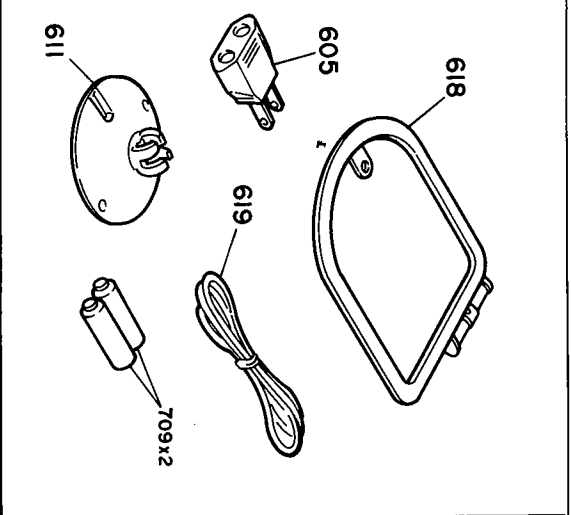


- A Ø3x8 (BLK) :N89-3008-45
- B Ø3x6 (F) :N09-1445-05
- C Ø2x8 (BLK) :N09-2782-05
- D Ø3x6 :N89-3006-46
- E M4x6 (BLK) :N86-4006-45
- F Ø3x6 :N35-3006-46
- G Ø3x12 (Boil) :N09-0333-05



A-A5/A5L

EXPLODED VIEW (Y,M,X type)



PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
A-A5/A5L (K,P,T,E type): JAPAN MADE						
601	1B	*	A01-2956-01	METALLIC CABINET	KP TE	
602	3A	*	A60-0258-01	PANEL(A-A5)		
602	3A	*	A60-0259-01	PANEL(A-A5L)		
603	3A	*	B10-1928-03	FRONT GLASS	K P E	
604	3B	*	B11-0259-04	SMOKED FILTER		
-	-	-	B46-0092-13	WARRANTY CARD		
-	-	-	B46-0121-13	WARRANTY CARD	T	
-	-	-	B46-0122-23	WARRANTY CARD		
-	-	-	B46-0143-13	WARRANTY CARD	E PE	
-	-	*	B60-0930-00	INSTRUCTION MANUAL(ENGLISH)		
-	-	*	B60-0932-00	INSTRUCTION MANUAL(SPANISH)		
-	-	*	B60-0934-00	INSTRUCTION MANUAL(FRENCH)	E E E	
-	-	*	B60-0935-00	INSTRUCTION MANUAL(GERMAN)		
-	-	*	B60-0936-00	INSTRUCTION MANUAL(DUTCH)		
-	-	*	B60-0937-00	INSTRUCTION MANUAL(ITALIAN)	E T KP	
△ 606	1D	-	E30-2592-15	AC POWER CORD		
△ 606	1D	-	E30-2593-15	AC POWER CORD	KPE	
△ 606	1D	-	E30-2650-05	AC POWER CORD		
△ 607	2B, 2C	*	E35-0495-05	WIRING HARNESS		
-	-	-	H10-5300-02	POLYSTYRENE FOAMED FIXTURE(L)	T	
-	-	-	H10-5301-02	POLYSTYRENE FOAMED FIXTURE(R)		
-	-	-	H10-5391-03	POLYSTYRENE FOAMED FIXTURE(F)		
-	-	-	H13-0039-04	CARTON BOARD	KP TE	
-	-	-	H25-0632-24	PROTECTION BAG		
-	-	-	H25-0644-04	PROTECTION BAG (0632 PRINTED)		
-	-	*	H25-0681-04	PROTECTION BAG	KP TE	
-	-	*	H50-0356-04	ITEM CARTON CASE(A-A5)		
-	-	*	H50-0357-04	ITEM CARTON CASE(A-A5L)		
610	3D	-	J02-0370-05	FOOT	KP E T	
611	1A	-	J19-2815-04	ANTENNA HOLDER		
△ 612	1D	-	J42-0083-05	POWER CORD BUSHING		
-	-	-	J61-0307-05	WIRE BAND	KPE	
614	3A	-	K29-4358-04	KNOB ASSY(VOLUME CONTROL)		
615	2A	*	K29-4426-01	KNOB(POWER, DISPLAY etc.)		
616	3A	*	K29-4427-04	KNOB(BALANCE, N.B.CIRCUIT)	KP E T	
△ 617	3C	*	L07-0546-15	POWER TRANSFORMER		
△ 617	3C	*	L07-0549-15	POWER TRANSFORMER		
△ 617	3C	*	L07-0570-15	POWER TRANSFORMER	TE	
A	1B	-	N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	3A	-	N09-1445-05	SET SCREW (M3X8)		
C	2B	-	N09-2782-05	TAPTITE SCREW (2.6X8)		
D	3C	-	N89-3006-46	BINDING HEAD TAPTITE SCREW		
E	2C	-	N86-4006-45	BINDING HEAD TAPTITE SCREW		
F	2B	-	N35-3006-46	BINDING HEAD MACHINE SCREW		
G	2C	-	N09-0333-05	TAPPING SCREW (3X12)		
618	1A	-	T90-0173-05	LOOP ANTENNA(AM)	TE	
619	1A	-	T90-0176-05	T TYPE ANTENNA(FM)		
620	1A	-	T90-0185-05	ANTENNA ADAPTOR		

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AAFES(Europe)

X:Australia

M:Other Areas

S: SINGAPORE MADE

F: FRANCE MADE

△ indicates safety critical components.

A-A5/A5L

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A-A5/A5L (K,P,T,E type): SINGAPORE MADE						
601	1B	*	A01-2966-01	METALLIC CABINET	KP TE	S
602	3A	*	A60-0258-01	PANEL(A-A5)		
602	3A	*	A60-0259-01	PANEL(A-A5L)		
603	3A	*	B10-1928-03	FRONT GLASS	K P E	
604	3B	*	B11-0259-04	SMOKED FILTER		
-	-	-	B46-0092-13	WARRANTY CARD		
-	-	-	B46-0121-13	WARRANTY CARD		
-	-	-	B46-0122-23	WARRANTY CARD	T	
-	-	-	B46-0143-13	WARRANTY CARD		
-	-	*	B60-0930-00	INSTRUCTION MANUAL(ENGLISH)	E PE	
-	-	*	B60-0932-00	INSTRUCTION MANUAL(SPANISH)		
-	-	*	B60-0934-00	INSTRUCTION MANUAL(FRENCH)		
-	-	*	B60-0935-00	INSTRUCTION MANUAL(GERMAN)	E E E	
-	-	*	B60-0936-00	INSTRUCTION MANUAL(DUTCH)		
-	-	*	B60-0937-00	INSTRUCTION MANUAL(ITALIAN)		
△ 606	1D	-	E30-2592-15	AC POWER CORD	E T KP	
△ 606	1D	-	E30-2593-15	AC POWER CORD		
△ 606	1D	-	E30-2650-05	AC POWER CORD		
△ 607	2B, 2C	*	E35-0495-05	WIRING HARNESS		
-	-	*	H10-5324-02	POLYSTYRENE FOAMED FIXTURE(L)	KPE	S S S S
-	-	*	H10-5325-02	POLYSTYRENE FOAMED FIXTURE(R)		
-	-	*	H10-5390-03	POLYSTYRENE FOAMED FIXTURE(F)		
-	-	-	H13-0086-04	CARTON BOARD		
-	-	-	H25-0632-24	PROTECTION BAG	T	
-	-	-	H25-0644-04	PROTECTION BAG (0632 PRINTED)		
-	-	*	H25-0681-04	PROTECTION BAG	KP TE	S S
-	-	*	H50-0418-04	ITEM CARTON CASE(A-A5)		
-	-	*	H50-0420-04	ITEM CARTON CASE(A-A5L)		
△ 610	3D	-	J02-0370-05	FOOT		
△ 611	1A	-	J19-2815-04	ANTENNA HOLDER		
△ 612	1D	-	J42-0083-05	POWER CORD BUSHING		
-	-	-	J61-0307-05	WIRE BAND		
614	3A	-	K29-4358-04	KNOB ASSY(VOLUME CONTROL)		
615	2A	*	K29-4426-01	KNOB(POWER, DISPLAY etc.)		
616	3A	*	K29-4427-04	KNOB(BALANCE, N.B.CIRCUIT)		
△ 617	3C	*	L07-0546-15	POWER TRANSFORMER	KP E T	
△ 617	3C	*	L07-0549-15	POWER TRANSFORMER		
△ 617	3C	*	L07-0570-15	POWER TRANSFORMER		
A	1B	-	N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	3A	-	N09-1445-05	SET SCREW (M3X8)		
C	2B	-	N09-2782-05	TAPTITE SCREW (2.6X8)		
D	3C	-	N89-3006-46	BINDING HEAD TAPTITE SCREW		
E	2C	-	N86-4006-45	BINDING HEAD TAPTITE SCREW		
F	2B	-	N35-3006-46	BINDING HEAD MACHINE SCREW		
G	2C	-	N09-0333-05	TAPPING SCREW (3X12)		
618	1A	-	T90-0174-05	LOOP ANTENNA(AM)	TE	S
619	1A	-	T90-0175-05	T TYPE ANTENNA(FM)		
620	1A	-	T90-0185-05	ANTENNA ADAPTOR		

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AAFES(Europe)

X:Australia

M:Other Areas

S: SINGAPORE MADE

F: FRANCE MADE

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A-A5L (T,E type): FRANCE MADE						
601	1B	*	A01-2956-01	METALLIC CABINET		
602	3A	*	A60-0259-01	PANEL(A-A5L)		
603	3A	*	B10-1928-03	FRONT GLASS		
604	3B	*	B11-0259-04	SMOKED FILTER		
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-		*	B60-0930-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0932-00	INSTRUCTION MANUAL(SPANISH)	E	
-		*	B60-0934-00	INSTRUCTION MANUAL(FRENCH)	E	
-		*	B60-0935-00	INSTRUCTION MANUAL(GERMAN)	E	
-		*	B60-0936-00	INSTRUCTION MANUAL(DUTCH)	E	
-		*	B60-0937-00	INSTRUCTION MANUAL(ITALIAN)	E	
△ 606	1D		E30-2592-15	AC POWER CORD	E	
△ 606	1D		E30-2593-15	AC POWER CORD	T	
607	2B, 2C	*	E35-0495-05	WIRING HARNESS		
-		*	H10-5326-02	POLYSTYRENE FOAMED FIXTURE(L)		F
-		*	H10-5327-02	POLYSTYRENE FOAMED FIXTURE(R)		F
-		*	H10-5389-03	POLYSTYRENE FOAMED FIXTURE(F)		F
-			H13-0039-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG	E	
-			H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-		*	H25-0681-04	PROTECTION BAG		
-		*	H50-0421-04	ITEM CARTON CASE(A-A5L)		F
610	3D		J02-0370-05	FOOT		
611	1A		J19-2815-04	ANTENNA HOLDER		
△ 612	1D		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
614	3A		K29-4358-04	KNOB ASSY(VOLUME CONTROL)		
615	2A	*	K29-4426-01	KNOB(POWER, DISPLAY etc.)		
616	3A	*	K29-4427-04	KNOB(BALANCE, N.B.CIRCUIT)		
△ 617	3C	*	L07-0549-15	POWER TRANSFORMER	E	
△ 617	3C	*	L07-0570-15	POWER TRANSFORMER	T	
A	1B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	3A		N09-1445-05	SET SCREW (M3X8)		
C	2B		N09-2782-05	TAPTITE SCREW (2.6X8)		
D	3C		N89-3006-46	BINDING HEAD TAPTITE SCREW		
E	2C		N86-4006-45	BINDING HEAD TAPTITE SCREW		
F	2B		N35-3006-46	BINDING HEAD MACHINE SCREW		
G	2C		N09-0333-05	TAPPING SCREW (3X12)		
618	1A		T90-0153-05	LOOP ANTENNA(AM)		S
619	1A		T90-0176-05	T TYPE ANTENNA(FM)		
620	1A		T90-0185-05	ANTENNA ADAPTOR		
A-A5 (Y,M,X type): JAPAN MADE						
601	1F	*	A01-2956-01	METALLIC CABINET		
602	2E	*	A60-0257-01	PANEL(A-A5)		
603	3E	*	B10-1928-03	FRONT GLASS		
604	3F	*	B11-0259-04	SMOKED FILTER		
-			B46-0094-03	WARRANTY CARD	Y	

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PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	X	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-0930-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0931-00	INSTRUCTION MANUAL(CHINESE)	M	
-		*	B60-0932-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B60-0987-00	INSTRUCTION MANUAL(ARABIC)	M	
△ 605	1E		E03-0115-05	AC PLUG ADAPTER	M	
△ 606	1H		E30-2592-15	AC POWER CORD	M	
△ 606	1H		E30-2594-15	AC POWER CORD	X	
△ 606	1H		E30-2605-05	AC POWER CORD	Y	
607	2F, 2G	*	E35-0404-05	WIRING HARNESS		
608	2G	*	F09-0082-05	FAN		
-			H10-5300-02	POLYSTYRENE FOAMED FIXTURE(L)		
-			H10-5301-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H10-5391-03	POLYSTYRENE FOAMED FIXTURE(F)		
-			H13-0039-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG		
-		*	H25-0681-04	PROTECTION BAG		
-		*	H50-0356-04	ITEM CARTON CASE(A-A5)		
610	3H		J02-0370-05	FOOT		
611	1E		J19-2815-04	ANTENNA HOLDER		
△ 612	1H		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
614	3E		K29-4358-04	KNOB ASSY(VOLUME CONTROL)		
615	2E	*	K29-4426-01	KNOB(POWER, DISPLAY etc.)		
616	3E	*	K29-4427-04	KNOB(BALANCE, N.B. CIRCUIT)		
△ 617	3G	*	L07-0547-15	POWER TRANSFORMER	YM	
△ 617	3G	*	L07-0548-15	POWER TRANSFORMER	X	
A	1F		N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	3E		N09-1445-05	SET SCREW (M3X8)		
C	2F		N09-2782-05	TAPTITE SCREW (2.6X8)		
D	2F		N89-3006-46	BINDING HEAD TAPTITE SCREW		
E	2G		N86-4006-45	BINDING HEAD TAPTITE SCREW		
F	1G		N89-3010-45	BINDING HEAD TAPTITE SCREW		
G	1G		N09-0333-05	TAPPING SCREW (3X12)		
H	2F		N89-3020-46	BINDING HEAD TAPTITE SCREW		
618	1E		T90-0173-05	LOOP ANTENNA(AM)		
619	1E		T90-0176-05	T TYPE ANTENNA(FM)		
A-A5 (M,X type): SINGAPORE MADE						
601	1F	*	A01-2966-01	METALLIC CABINET		S
602	2E	*	A60-0257-01	PANEL(A-A5)		
603	3E	*	B10-1928-03	FRONT GLASS		
604	3F	*	B11-0259-04	SMOKED FILTER		
-		*	B46-0096-33	WARRANTY CARD	X	
-		*	B60-0930-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B60-0931-00	INSTRUCTION MANUAL(CHINESE)	M	
-		*	B60-0932-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B60-0987-00	INSTRUCTION MANUAL(ARABIC)	M	
△ 605	1E		E03-0115-05	AC PLUG ADAPTER	M	

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Δ 606	1F		E30-2592-15	AC POWER CORD	M	
Δ 606	1F		E30-2594-15	AC POWER CORD	X	
607	2F, 2G	*	E35-0404-05	WIRING HARNESS		
608	2G	*	F09-0082-05	FAN		
-		*	H10-5324-02	POLYSTYRENE FOAMED FIXTURE(L)		S
-		*	H10-5325-02	POLYSTYRENE FOAMED FIXTURE(R)		S
-		*	H10-5390-03	POLYSTYRENE FOAMED FIXTURE(F)		S
-			H13-0086-04	CARTON BOARD		S
-			H25-0632-24	PROTECTION BAG		
-		*	H25-0681-04	PROTECTION BAG		
-		*	H50-0418-04	ITEM CARTON CASE(A-A5)	X	S
-		*	H50-0419-04	ITEM CARTON CASE(A-A5)	M	S
610	3H		J02-0370-05	FOOT		
611	1E		J19-2815-04	ANTENNA HOLDER		
Δ 612	1H		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
614	3E		K29-4358-04	KNOB ASSY(VOLUME CONTROL)		
615	2E	*	K29-4426-01	KNOB(POWER, DISPLAY etc.)		
616	3E	*	K29-4427-04	KNOB(BALANCE, N.B. CIRCUIT)		
Δ 617	3G	*	L07-0547-15	POWER TRANSFORMER	M	
Δ 617	3G	*	L07-0548-15	POWER TRANSFORMER	X	
A	1E		N89-3008-45	BINDING HEAD TAPTITE SCREW		
B	3F		N09-1445-05	SET SCREW (M3X8)		
C	2F		N09-2782-05	TAPTITE SCREW (2.6X8)		
D	2F		N89-3006-46	BINDING HEAD TAPTITE SCREW		
E	2G		N86-4006-45	BINDING HEAD TAPTITE SCREW		
F	1G		N89-3010-45	BINDING HEAD TAPTITE SCREW		
G	1G		N09-0333-05	TAPPING SCREW (3X12)		
H	2F		N89-3020-46	BINDING HEAD TAPTITE SCREW		
618	1E		T90-0174-05	LOOP ANTENNA(AM)		S
619	1E		T90-0175-05	T TYPE ANTENNA(FM)		
AUDIO UNIT (K,P,T,E type) X09-368: JAPAN MADE X09-372: SINGAPORE, FRANCE MADE						
C1 ,2			C91-0749-05	CERAMIC 220PF K		
C3 ,4			CE04KW1V100M	ELECTRO 10UF 35WV		
C5 ,6			CC45FSL1H560J	CERAMIC 56PF J		
C7 ,8			C90-3253-05	ELECTRO 1UF 50WV		
C9 ,10			CK45FB1H561K	CERAMIC 560PF K		
C11 ,12			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C13 ,14			C90-3253-05	ELECTRO 1UF 50WV		
C15 ,16			C90-3254-05	ELECTRO 2.2UF 50WV		
C17 ,18			CC45FSL1H220J	CERAMIC 22PF J		
C19 ,20			CC45FSL1H221J	CERAMIC 220PF J		
C21 ,22			CC45FSL1H100D	CERAMIC 10PF D		
C23 ,24			CC45FSL1H470J	CERAMIC 47PF J		
C25 ,26			CC45FSL1H390J	CERAMIC 39PF J		
C27 ,28			CC45FSL1H221J	CERAMIC 220PF J		
C29 ,30			CF92FV1H103J	MF 0.010UF J		
C31 ,32			CF92FV1H222J	MF 2200PF J		
C33 ,36			CF92FV1H104J	MF 0.10UF J		
C37 ,38			CF92FV1H472J	MF 4700PF J		
C39 ,40			CE04KW1C101M	ELECTRO 100UF 16WV		
C41 -44			C91-0749-05	CERAMIC 220PF K		

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C45			C90-3258-05	ELECTRØ 10UF 50WV		
C46			CE04KW1A101M	ELECTRØ 100UF 10WV		
C47			CF92FV1H472J	MF 4700PF J		
C48			CE04HW1E330M	NP-ELEC 33UF 25WV		
C49			CF92FV1H104J	MF 0.10UF J		
C50			CE04KW1C101M	ELECTRØ 100UF 16WV		
C51			CF92FV1H104J	MF 0.10UF J		
C53 , 54			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C55			CE04KW1H470M	ELECTRØ 47UF 50WV		
C56			C90-1826-05	BACKUP 0.047F 5.5WV		
C57			CF92FV1H104J	MF 0.10UF J		
C58 , 59			CE04KW1H220M	ELECTRØ 22UF 50WV		
C60			CE04KW1E471M	ELECTRØ 470UF 25WV		
C61			CE04KW1V470M	ELECTRØ 47UF 35WV		
C62			CE04KW1E101M	ELECTRØ 100UF 25WV		
C63			CF92FV1H104J	MF 0.10UF J		
C64			CE04KW1C101M	ELECTRØ 100UF 16WV		
C65			CF92FV1H104J	MF 0.10UF J		
C66 , 67			CF92FV1H103J	MF 0.010UF J		
C68 , 69			CE04KW1H221M	ELECTRØ 220UF 50WV		
C70 , 71		*	C90-1966-05	ELECTRØ 4700UF 42WV		
C73 , 74			CF92FV1H154J	MF 0.15UF J		
C75 , 76			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C77 , 78			CF92FV1H105J	MF 1.0UF J		
C83 , 84			CK45FB1H102K	CERAMIC 1000PF K		
C87 , 88		*	C90-3247-05	ELECTRØ 47UF 35WV		
C89			CK45FF1H103Z	CERAMIC 0.010UF Z		
C91			CK45FF1H223Z	CERAMIC 0.022UF Z		
C92			CK45FB1H102K	CERAMIC 1000PF K		
C93			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C94 -96			CK45FB1H102K	CERAMIC 1000PF K		
△ C97			CE04KW1C330M	ELECTRØ 33UF 16WV		
△ C98			C91-1439-05	FILM 0.01UF 250VAC		
J1	2D		E08-1508-05	RECTANGULAR RECEPTACLE(RED)		
J2	2D		E08-0411-05	RECTANGULAR RECEPTACLE(GRAY)		
J3	2D		E20-0475-05	LOCK TERMINAL BOARD(SPEAKERS)		
J4	2D		E13-0138-05	PHONE JACK(SUPER WOOFER)		
625	1C		F20-1284-05	INSULATING BOARD		
△ F1			F05-1222-05	FUSE (SEMKØ) (250V T1.25A)	TE	
△ F1			F06-2525-05	FUSE (UL) (250V 2.5A)	KP	
△ F2			F04-2025-05	FUSE (UL) (250V 2A)	KP	
△ F2			F06-2021-05	FUSE (SEMKØ) (250V T2A)	TE	
△ F3			F06-2021-05	FUSE (SEMKØ) (250V T2A)	TE	
△ F3			F06-2525-05	FUSE (UL) (250V 2.5A)	KP	
△ F4			F04-2025-05	FUSE (UL) (250V 2A)	KP	
△ F4			F06-2021-05	FUSE (SEMKØ) (250V T2A)	TE	
CN7 -14			J13-0075-05	FUSE CLIP		
L1 , 2			L39-0085-05	PHASE COMPENSATION COIL		
△ T1	2C		L07-0332-05	POWER TRANSFORMER	KP	
△ T1	2C		L07-0333-05	POWER TRANSFORMER	T	
△ T1	2C		L07-0334-05	POWER TRANSFORMER	E	
CP1 , 2			R90-0826-05	MULTI-COMP 0.22X2 J 5W		
R39 , 40			RD14NB2E4R7J	RD 4.7 J 1/4W		

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R49 ,50 R57 ,58 R61 ,62 R86 ,87 R94			RD14NB2E4R7J RS14KB3D100J RD14NB2E100J RD14NB2E101J RS14KB3D391J	RD 4.7 J 1/4W FL-PROOF RS 10 J 2W RD 10 J 1/4W RD 100 J 1/4W FL-PROOF RS 390 J 2W		
R95 ,96 R116,117 R119,120 △ R139 △ R140			RD14NB2E101J RS14KB3D391J RD14NB2E470J RS14KB3D100J R92-0173-05	RD 100 J 1/4W FL-PROOF RS 390 J 2W RD 47 J 1/4W FL-PROOF RS 10 J 2W RC 2.2M M 1/2W	KP	
R142 R143 R147 VR1 VR2	2C 2C	* *	RS14KB3D121J RS14KB3D151J RS14KB3D681J R29-5073-05 R11-9023-05	FL-PROOF RS 120 J 2W FL-PROOF RS 150 J 2W FL-PROOF RS 680 J 2W POTENTIOMETER(VOLUME CONTROL) POTENTIOMETER(BALANCE)		
VR3	2C		R05-5046-05	POTENTIOMETER(N.B.CIRCUIT)		
△ K1 K2			S76-0009-05 S76-0005-05	MAGNETIC RELAY(POWER) MAGNETIC RELAY(FRONT SPEAKERS)		
D1 -9 D1 -9 D10 D10 D11			HSS104 1SS133 HZS4.7N(B2) RD4.7ES(B2) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D11 D12 D12 D13 D13			1SS133 HZS6.8N(B2) RD6.8ES(B2) HSS104 1SS133	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
△ D14 ,15 D16 D16 △ D17 ,18 D19			S5688B HZS27N(B2) RD27ES(B2) S5688B HSS104	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D19 △ D20 D21 D21 D22 -31			1SS133 D3SBA20F03 HZS4.7N(B2) RD4.7ES(B2) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D22 -31 D34 D34 D35 ,36 D35 ,36			1SS133 HZS4.7N(B2) RD4.7ES(B2) HSS104 1SS133	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D37 D37 D38 ,39 D38 ,39 D40			HZS4.7N(B2) RD4.7ES(B2) HSS104 1SS133 HZS5.6N(B2)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE		
D40 D41 -45 D41 -45 IC1 ,2 IC3			RD5.6ES(B2) HSS104 1SS133 NJM4565D-D TA8409S	ZENER DIODE DIODE DIODE IC(MOT AMP X2) IC(MOTOR CONTROL)		

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IC5			TA7815S	IC(VOLTAGE REGULATOR/ +15V)		
IC5			UPC7815AHF	IC(VOLTAGE REGULATOR/+15V)		
IC6			TA79015S	IC(VOLTAGE REGULATOR/ -15V)		
IC7			PST529D	IC(SYSTEM RESET)		
IC8			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC8			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		
Q1 -4			2SC1740S(Q,R)	TRANSISTOR		
Q1 -4			2SC2458(Y,GR)	TRANSISTOR		
Q1 -4			2SC2785(F,E)	TRANSISTOR		
Q1 -4			2SC3311A(Q,R)	TRANSISTOR		
Q5 -8			2SA992(E,F)	TRANSISTOR		
Q9 -12			2SC1845(F,E)	TRANSISTOR		
Q13 ,14			2SA992(E,F)	TRANSISTOR		
Q15 ,16			2SC4137(V,W)	TRANSISTOR		
Q17 ,18			2SC1845(F,E)	TRANSISTOR		
△ Q19 ,20			2SD2340	TRANSISTOR		
△ Q21 ,22			2SB1531	TRANSISTOR		
Q23			2SA1048(Y,GR)	TRANSISTOR		
Q23			2SA1175(F,E)	TRANSISTOR		
Q23			2SA1309A(Q,R)	TRANSISTOR		
Q23			2SA933S(Q,R)	TRANSISTOR		
Q24 ,25			2SC2003(L,K)	TRANSISTOR		
Q26			2SC2878(B)	TRANSISTOR		
Q27			2SA1048(Y,GR)	TRANSISTOR		
Q27			2SA1175(F,E)	TRANSISTOR		
Q27			2SA1309A(Q,R)	TRANSISTOR		
Q27			2SA933S(Q,R)	TRANSISTOR		
Q31			2SC2003(L,K)	TRANSISTOR		
△ Q32			2SB764	TRANSISTOR		
Q33			2SC2003(L,K)	TRANSISTOR		
Q34			2SA992(E,F)	TRANSISTOR		
Q35 ,36			2SC1845(F,E)	TRANSISTOR		
Q37			2SA1048(Y,GR)	TRANSISTOR		
Q37			2SA1175(F,E)	TRANSISTOR		
Q37			2SA1309A(Q,R)	TRANSISTOR		
Q37			2SA933S(Q,R)	TRANSISTOR		
Q38			2SC1740S(Q,R)	TRANSISTOR		
Q38			2SC2458(Y,GR)	TRANSISTOR		
Q38			2SC2785(F,E)	TRANSISTOR		
Q38			2SC3311A(Q,R)	TRANSISTOR		
AUDIO UNIT (Y,M,X type) X09-367 :JAPAN MADE X09-371: SINGAPORE MADE						
C1 ,2			CK45FB1H471K	CERAMIC 470PF K		
C5 ,6			CC45FSL1H151J	CERAMIC 150PF J		
C7 ,8			CF92FV1H222J	MF 2200PF J		
C9 ,10			C90-3225-05	ELECTRO 10UF 16WV		
C11 ,12			CF92FV1H154J	MF 0.15UF J		
C13 ,14			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C15 ,16			C90-3225-05	ELECTRO 10UF 16WV		
C21 ,22			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C23 -26			CC45FSL1H121J	CERAMIC 120PF J		
C27 ,28			CC45FSL1H100D	CERAMIC 10PF D		
C29 ,30			CC45FSL1H470J	CERAMIC 47PF J		
C31 ,32			CC45FSL1H221J	CERAMIC 220PF J		
C33 ,34			C90-1845-05	ELECTRO 100UF 6.3WV		
C35 ,36			CE04KW1V100M	ELECTRO 10UF 35WV		

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C37 ,38 C41 ,42 C43 -46 C49 ,50 C51 ,52			CC45FSL1H390J CE04KW1C220M CF92FV1H473J CF92FV1H103J CF92FV1H023J	CERAMIC 39PF J ELECTRO 22UF 16WV MF 0.047UF J MF 0.010UF J MF 0.082UF J		
C53 ,54 C71 C72 C81 C82			CE04KW1C100M CE04KW1H470M CE04KW1H221M CF92FV1H102J CE04KW1C100M	ELECTRO 10UF 16WV ELECTRO 47UF 50WV ELECTRO 220UF 50WV MF 1000PF J ELECTRO 10UF 16WV		
C83 C84 C86 C90 ,91 C93 ,94		*	CC45FSL1H221J CF92FV1H473J CF92FV1H472J C90-1966-05 CF92FV1H104J	CERAMIC 220PF J MF 0.047UF J MF 4700PF J ELECTRO 4700UF 42WV MF 0.10UF J		
C95 -97 C98 ,99 C107 C108 C109			CE04KW1C101M CF92FV1H104J CE04KW1H4R7M CE04KW1H010M CE04KW1A101M	ELECTRO 100UF 16WV MF 0.10UF J ELECTRO 4.7UF 50WV ELECTRO 1.0UF 50WV ELECTRO 100UF 10WV		
C110 C111 C112 C113,114 C115			CE04KW1C470M CE04KW1C101M CE04KW1H2R2M CC45FSL1H101J C90-3253-05	ELECTRO 47UF 16WV ELECTRO 100UF 16WV ELECTRO 2.2UF 50WV CERAMIC 100PF J ELECTRO 1UF 50WV		
C116 △ C117 C118,119 C120 C121,122			CE04KW1H010M C91-1439-05 CK45FF1H103Z CE04KW1C101M CK45FF1H103Z	ELECTRO 1.0UF 50WV FILM 0.01UF 250VAC CERAMIC 0.010UF Z ELECTRO 100UF 16WV CERAMIC 0.010UF Z		
C133 C138,139 C140,141 C142 C230			CE04KW1V330M CF92FV1H104J C91-0769-05 CF92FV1H224J CE04KW1E101M	ELECTRO 33UF 35WV MF 0.10UF J CERAMIC 0.01UF K MF 0.22UF J ELECTRO 100UF 25WV		
C231,232 C233,234 C235 C236 C237			CE04KW1V470M CE04KW1V100M CE04KW1E471M CE04KW1H010M C90-1827-05	ELECTRO 47UF 35WV ELECTRO 10UF 35WV ELECTRO 470UF 25WV ELECTRO 1.0UF 50WV BACKUP 0.047F 5.5WV		
C238 C243,244 C245,246		*	C90-3239-05 C90-3253-05 C90-3237-05	ELECTRO 100UF 25WV ELECTRO 1UF 50WV ELECTRO 47UF 25WV		
J1 J2 J3 J4 J5	2H 2H 2G 2H 2F		E08-1508-05 E58-0001-05 E20-0459-05 E63-0018-05 E11-0220-05	RECTANGULAR RECEPTACLE(RED) RECTANGULAR RECEPTACLE(GREEN) LOCK TERMINAL BOARD(F.SP.) PHONE JACK(S.WOOFER,SURR.SP.) MINIATURE PHONE JACK(MIC)		
△ 625 △ F1 △ F2 △ F3 ,4 △ F5 -7 CN6 ,7	1F,1G		F20-1284-05 F05-4025-05 F06-2021-05 F05-4025-05 F06-2021-05 J13-0075-05	INSULATING BOARD FUSE (SEMKO) (250V T4A) FUSE (SEMKO) (250V T2A) FUSE (SEMKO) (250V T4A) FUSE (SEMKO) (250V T2A) FUSE CLIP	YM	

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CN8 ,9 CN10-19			J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP	YM	
L1 ,2 T1 T1	2G 2G		L39-0085-05 L07-0333-05 L07-0335-05	PHASE COMPENSATION COIL POWER TRANSFORMER POWER TRANSFORMER	X YM	
CP1 ,2 R37 ,38 R39 ,40 R41 ,42 R43 ,44			R90-0187-05 RN14BK2C1471F RD14NB2E151J RD14NB2E222J RD14NB2E181J	MULTI-COMP 0.22X2 K 5W RN 1.47K F 1/6W RD 150 J 1/4W RD 2.2K J 1/4W RD 180 J 1/4W		
R45 ,46 R55 ,56 R57 -60 R61 ,62 R63 ,64			RD14NB2E151J RN14BK2C1003F RD14NB2E4R7J RS14KB3D100J RD14NB2E4R7J	RD 150 J 1/4W RN 100K F 1/6W RD 4.7 J 1/4W FL-PROOF RS 10 J 2W RD 4.7 J 1/4W		
R65 ,66 R85 R86 R150 R187,188			RS14KB3D561J RD14NB2E221J RD14NB2E101J RS14KB3D271J RD14NB2E221J	FL-PROOF RS 560 J 2W RD 220 J 1/4W RD 100 J 1/4W FL-PROOF RS 270 J 2W RD 220 J 1/4W		
R202 R204 R225,226 R229 R231			RS14KB3D121J RS14KB3D151J RD14NB2E100J R92-0513-05 RS14KB3D101J	FL-PROOF RS 120 J 2W FL-PROOF RS 150 J 2W RD 10 J 1/4W FUSE RESIST 10 G 1/4W FL-PROOF RS 100 J 2W		
R236 VR1 VR2 VR3 VR4	2G 2G 2G 2F	* * *	RS14KB3D681J R29-9028-05 R10-5043-05 R11-9022-05 R10-5060-05	FL-PROOF RS 680 J 2W POTENTIOMETER(VOLUME CONTROL) POTENTIOMETER(BALANCE) POTENTIOMETER(N.B. CIRCUIT) POTENTIOMETER(MIC MIXING)		
K1 K2 S1 S2		* * *	S76-0002-05 S76-0005-05 S79-0006-05 S79-0007-05	MAGNETIC RELAY(POWER) MAGNETIC RELAY(FRONT SP.) SWITCH ASSY (80°C CUT FAN) SWITCH ASSY(105°C CUT PROTECT)		
D1 -5 D1 -5 D6 D6 D7			HSS104A 1SS131 HZS4.7N(B) RD4.7ES(B) HSS104A	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D7 D10 D10 D11 D11			1SS131 D5SBA20F03 RBV-602LFA HZS4.7N(B) RD4.7ES(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D12 D12 D13 ,14 D13 ,14 D15 -17			HSS104A 1SS131 HZS5.6N(B2) RD5.6ES(B2) HSS104A	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D15 -17 D18 D18 D19 D19			1SS131 HZS4.7N(B) RD4.7ES(B) HZS16N(B2) RD16ES(B2)	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		

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D20			S5688B	DIODE		
D20			1SR139-100	DIODE		
D22 ,23			HSS104A	DIODE		
D22 ,23			1SS131	DIODE		
D24			HZS6.8N(B2)	ZENER DIODE		
D24			RD6.8ES(B2)	ZENER DIODE		
D25			HZS6.2N(B2)	ZENER DIODE		
D25			RD6.2ES(B2)	ZENER DIODE		
D26			HZS11N(B2)	ZENER DIODE		
D26			RD11ES(B2)	ZENER DIODE		
D27			HZS16N(B2)	ZENER DIODE		
D27			RD16ES(B2)	ZENER DIODE		
△ D29 -32			S5688B	DIODE		
△ D29 -32			1SR139-100	DIODE		
D33 -44			HSS104A	DIODE		
D33 -44			1SS131	DIODE		
D47 -58			HSS104A	DIODE		
D47 -58			1SS131	DIODE		
IC1			NJM4565D-D	IC(OP AMP X2)		
IC2			TA8409S	IC(MOTOR CONTROL)		
IC4			NJM4565D-D	IC(OP AMP X2)		
IC6			PST529C	IC(SYSTEM RESET)		
△ IC7			TA7815S	IC(VOLTAGE REGULATOR/ +15V)		
△ IC7			UPC7815AHF	IC(VOLTAGE REGULATOR/+15V)		
Q1 ,2			2SC1845(F,E)	TRANSISTOR		
Q5 -8			2SA992(F,E)	TRANSISTOR		
Q9 -12			2SC1845(F,E)	TRANSISTOR		
Q13 ,14			2SA992(F,E)	TRANSISTOR		
Q15 ,16			2SC4137(V,W)	TRANSISTOR		
Q17 ,18			2SD2340	TRANSISTOR		
Q19 ,20			2SB1531	TRANSISTOR		
Q21 ,22			2SC1845(F,E)	TRANSISTOR		
Q23			2SA1123(R,S)	TRANSISTOR		
Q24 ,25			2SC1845(F,E)	TRANSISTOR		
Q26			2SC2003(L,K)	TRANSISTOR		
Q29			2SC2878(B)	TRANSISTOR		
Q30			2SA1048(Y,GR)	TRANSISTOR		
Q30			2SA1175(F,E)	TRANSISTOR		
Q30			2SA1309A(Q,R)	TRANSISTOR		
Q30			2SA933S(Q,R)	TRANSISTOR		
Q35 ,36			2SC2878(B)	TRANSISTOR		
Q37			2SA1048(Y,GR)	TRANSISTOR		
Q37			2SA1175(F,E)	TRANSISTOR		
Q37			2SA1309A(Q,R)	TRANSISTOR		
Q37			2SA933S(Q,R)	TRANSISTOR		
Q38			2SC1740S(Q,R)	TRANSISTOR		
Q38			2SC2458(Y,GR)	TRANSISTOR		
Q38			2SC2785(F,E)	TRANSISTOR		
Q38			2SC3311A(Q,R)	TRANSISTOR		
Q40			DTC124ES	DIGITAL TRANSISTOR		
Q40			UN4212	TRANSISTOR		
Q52			2SC2003(L,K)	TRANSISTOR		
△ Q53			2SA954(L,K)	TRANSISTOR		
△ Q60			2SA1534A(R,S)	TRANSISTOR		
△ Q61			2SD2061(E,F,G)	TRANSISTOR		

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Q62 Q63			2SC2003(L,K) 2SA992(F,E)	TRANSISTOR TRANSISTOR		
DISPLAY UNIT (All destination) X14-362: JAPAN MADE X14-364: SINGAPORE, FRANCE MADE						
D201, 202			B30-1291-05	LED		
C1 -4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C5			CE04KW1C470M	ELECTRO 47UF 16WV		
C6 ,7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C9			CC45FSL1H101J	CERAMIC 100PF J		
C10			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C11			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			CQ92FM1H153J	MYLAR 0.015UF J		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C17			CK45FF1H223Z	CERAMIC 0.022UF Z		
C18			CE04KW1V100M	ELECTRO 10UF 35WV		
C19			CK45FF1H223Z	CERAMIC 0.022UF Z		
C20			CE04KW1V100M	ELECTRO 10UF 35WV		
C21			C90-3230-05	ELECTRO 100UF 16WV		
C27 ,28			CQ92FM1H153J	MYLAR 0.015UF J	YMX	
C27 ,28			CQ92FM1H223J	MYLAR 0.022UF J	KP	
C27 ,28			CQ92FM1H392J	MYLAR 3900PF J	TE	
C29 ,30			C90-3253-05	ELECTRO 1UF 50WV		
C41 ,42			CC45FCH1H220J	CERAMIC 22PF J		
C43 -45			CK45FB1H471K	CERAMIC 470PF K		
C46 ,47			CK45FF1H103Z	CERAMIC 0.010UF Z		
C48			CQ92FM1H273J	MYLAR 0.027UF J		
C49			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C50			CE04KW1C470M	ELECTRO 47UF 16WV		
C51			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C52			CE04KW1A470M	ELECTRO 47UF 10WV		
C55			CK45FF1H103Z	CERAMIC 0.010UF Z		
C56			CC45FSL1H220J	CERAMIC 22PF J		
C62 -64			C90-3253-05	ELECTRO 1UF 50WV		
C65			C90-3249-05	ELECTRO 0.22UF 50WV		
C66			C90-3244-05	ELECTRO 10UF 35WV		
C67 ,68			CC45FSL1H101J	CERAMIC 100PF J	KPYMX	
C67 ,68			CC45FSL1H271J	CERAMIC 270PF J	TE	
C69			CE04KW1V100M	ELECTRO 10UF 35WV		
C70			CC45FSL1H561J	CERAMIC 560PF J		
C71			CQ92FM1H103J	MYLAR 0.010UF J		
C106			CE04KW1C470M	ELECTRO 47UF 16WV		
C107			CK45FF1H223Z	CERAMIC 0.022UF Z		
C108			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C109,110			C91-0085-05	CERAMIC 0.022UF N	TE	
C111-114			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C135,136			CQ92FM1H682J	MYLAR 6800PF J	YM	
C170			CC45FSL1H101J	CERAMIC 100PF J	TE	
C171			CC45FSL1H470J	CERAMIC 47PF J	TE	
C201			CC45FCH1H330J	CERAMIC 33PF J		
C202			CC45FCH1H270J	CERAMIC 27PF J		
C203			CE04DW1A101M	ELECTRO 100UF 10WV		
C204,205			C91-0769-05	CERAMIC 0.01UF K		

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C206 C209 C210-214 C215	1D, 1H 1D, 1H 2A, 2E		C90-3240-05 C90-3253-05 C91-0769-05 C90-3210-05	ELECTRØ 2.2UF 35WV ELECTRØ 1UF 50WV CERAMIC 0.01UF K ELECTRØ 22UF 6.3WV	TE KPYMX	
J1 J1 J3			E20-0321-05 E20-0476-05 E11-0234-05	LOCK TERMINAL BOARD(ANTENNA) LOCK TERMINAL BOARD(ANTENNA) PHONE JACK(PHONES)		
CF1, 2 CF1, 2 CF3 L1 L2			L72-0531-05 L72-0536-05 L72-0096-05 L30-0488-05 L30-0439-25	CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER AM IFT FM IFT<DISCRIMINATOR>		
L2 L3 L5 L6, 7 L8			L30-0494-05 L40-1021-14 L79-0125-05 L79-0790-05 L40-1091-17	FM IFT<DISCRIMINATOR> SMALL FIXED INDUCTØR<1.0mH, K> LC FILTER LC FILTER SMALL FIXED INDUCTØR<1UH>		
L104 L104 L105 L106 X1			L39-0189-05 L39-0195-05 L39-0192-05 L40-1091-17 L77-1122-05	COMBINATION COIL COMBINATION COIL COMBINATION COIL SMALL FIXED INDUCTØR<1UH> CRYSTAL RESONATOR<7.2MHz>		
X2 X201			L78-0208-05 L77-1176-05	RESONATOR (456kHz) CRYSTAL RESONATOR<4.194304MHZ>	KPYMX TE TE TE TE	
CP201 CP202 CP203			R90-0855-05 R90-0482-05 R90-0824-05	MULTI-COMP 100KX5 J MULTI-COMP 100KX4 J MULTI-COMP 4.7KX4 J		
R21 R37			RD14NB2E680J RD14GB2E101J	RD 68 J 1/4W FL-PROOF RD 100 J 1/4W		
R53 R143 VR1 VR3 VR5			RS14KB3D101J RS14KB3D121J R12-3687-05 R12-3685-05 R12-6663-05	FL-PROOF RS 100 J 2W FL-PROOF RS 120 J 2W TRIMMING POT.(33K)<FM T-LEVEL> TRIMMING POT.(10K)<AM T-LEVEL> TRIMMING POT.(330K)<SEPA.>		
S1 S27, 28 S30 S37 S101			S40-1064-05 S40-1064-05 S40-1064-05 S31-3010-05 S31-2132-05	PUSH SWITCH<1-0, AI TIMER etc.> PUSH SWITCH<TUNER, TAPE> PUSH SWITCH<LD/AUX, DISPLAY> SLIDE SWITCH<110-120/220-240V> SLIDE SWITCH<DE-EM., CH.SPACE>		
D1 D1 D1 D3 D3			HSS104 1N4148 1SS133 BZX55-CSV1 HZS5.1N(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	TE TE TE TE F	
D3			RD5.1ES(B2)	ZENER DIODE		
D109, 110 D109, 110 D109, 110 D109, 110 D111, 112			HSS104 1N4148 1SS133 1SS133 HSS104	DIODE DIODE DIODE DIODE DIODE		
D111, 112 D111, 112 D113-116 D113-116 D113-116			1N4148 1SS133 HSS104 1N4148 1SS133	DIODE DIODE DIODE DIODE DIODE		
D113-116			1SS133	DIODE		

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D120 D120 D120 D122 D122			BZX55-C3V3 HZS3.3N(B2) RD3.3ES(B2) HSS104 1N4148	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE	TE TE TE TE TE	F
D122 D122 D122 D122 D123			1SS133 HSS104 1N4148 1SS133 1N4148	DIODE DIODE DIODE DIODE DIODE		
D213 D213 D214 D214 D214			1SS133 HSS104 1N4148 1SS133 1SS133	DIODE DIODE DIODE DIODE DIODE		
D215 D215 D215 D216			HSS104 1N4148 1SS133 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		
D217-227 D217-227 D217-227 D231-234 D231-234			HSS104 1N4148 1SS133 HSS104 1N4148	DIODE DIODE DIODE DIODE DIODE		
D231-234 D231-234 D231-234 D231-234 D231-234	3B, 3F		1SS133 FIP11AM7R LA1265 LA3401 LM7001	DIODE INDICATOR TUBE IC(FM/AM TUNER) IC(FM MPX) IC(PLL FREQUENCY SYNTHESIZER)	TE TE TE TE TE	
IC201 IC201 IC202			CXP50116-397Q CXP50116-397QA CX-7991	IC<4BIT MICROPROCESSOR> IC<4BIT MICROPROCESSOR> IC<SERIAL/PARALLEL CONVERTER>		
Q1 Q2			2SC1923(R, Ø) 2SC1845(F, E)	TRANSISTØR TRANSISTØR		
Q3 Q3 Q3 Q3 Q3			JC501(P, Q) 2SC1740S(Q, R) 2SC2458(Y, GR) 2SC2785(F, E) 2SC3311A(Q, R)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
Q4 Q4 Q4 Q4 Q4			JC501(P, Q) 2SC1740S(Q, R) 2SC2458(Y, GR) 2SC2785(F, E) 2SC3311A(Q, R)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
Q5 Q5 Q7 Q7 Q7			2SK163(L, M) 2SK364(GR, BL) JC501(P, Q) 2SC1740S(Q, R) 2SC2458(Y, GR)	FET FET TRANSISTØR TRANSISTØR TRANSISTØR	TE TE TE TE TE	S
Q7 Q7 Q7 Q7 Q7			2SC2785(F, E) 2SC3311A(Q, R) JA101(P, Q) 2SA1048(Y, GR) 2SA1175(F, E)	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR		
Q102 Q102 Q102						
Q102						
Q102						

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Q102			2SA1309A(Q,R)	TRANSISTOR		
Q102			2SA933S(Q,R)	TRANSISTOR	TE	S
Q103			JA101(P,Q)	TRANSISTOR	TE	
Q103			2SA1048(Y,GR)	TRANSISTOR	TE	
Q103			2SA1175(F,E)	TRANSISTOR	TE	
Q103			2SA1309A(Q,R)	TRANSISTOR	TE	
Q103			2SA933S(Q,R)	TRANSISTOR	TE	
Q104			JA101(P,Q)	TRANSISTOR		S
Q104			2SA1048(Y,GR)	TRANSISTOR		
Q104			2SA1175(F,E)	TRANSISTOR		
Q104			2SA1309A(Q,R)	TRANSISTOR		
Q105,106			2SA933S(Q,R)	TRANSISTOR	TE	S
Q105,106			JC501(P,Q)	TRANSISTOR	TE	
Q105,106			2SC1740S(Q,R)	TRANSISTOR	TE	
Q105,106			2SC2458(Y,GR)	TRANSISTOR	TE	
Q105,106			2SC2785(F,E)	TRANSISTOR	TE	
Q105,106			2SC3311A(Q,R)	TRANSISTOR	TE	
Q107,108			2SC2458(Y,GR)	TRANSISTOR	YM	
Q107,108			2SC3311A(Q,R)	TRANSISTOR		
Q109,110			2SD1302(S,T)	TRANSISTOR		
Q111			JA101(P,Q)	TRANSISTOR		S
Q111			2SA1048(Y,GR)	TRANSISTOR		
Q111			2SA1175(F,E)	TRANSISTOR		
Q111			2SA1309A(Q,R)	TRANSISTOR		
Q111			2SA933S(Q,R)	TRANSISTOR		
Q201,202		*	2SC4038(Q,R)	TRANSISTOR	YM	
Q203		*	2SA1561(Q,R)	TRANSISTOR		
A1	3B,3F		W02-1046-05	ELECTRIC CIRCUIT MODULE	TE	
DT1	2D,2H		W02-1041-15	FM FRONT-END ASSY	KPYMX	
DT1	2D,2H		W02-1042-15	FM FRONT-END ASSY		

L:Scandinavia K:USA P:Canada S: SINGAPORE MADE
Y:PX(Far East, Hawaii) T:England E:Europe F: FRANCE MADE
Y:AAFE(S(Europe)) X:Australia M:Other Areas

△ indicates safety critical components.

SPECIFICATIONS

< K,P type >

Receiver unit (A-A5)

Amplifier section

Rated power output

28 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion

Total harmonic distortion

... 0.09 % (40 Hz ~ 20 kHz, 1/2 Rated power, 8 Ω)
... 0.06 % (1 kHz, 1/2 Rated power, 8 Ω)

Signal to noise ratio

... 95 dB(IHF-66) / 80 dB(IHF-78)

Input sensitivity / Impedance

LD / AUX IN ... 150 mV / 47 kΩ

N.B. circuit (-30 dB Volume level)(max.) ... + 15 dB (at 60 Hz)

Output level / Impedance

SUPER WOOFER OUT ... 1.5 V / 3.6 kΩ

FM Tuner section

Tuning frequency range ... 87.5 MHz ~ 108 MHz
Sensitivity (MONO at 75 Ω) ... 1.2 μV / 12.8 dBf

Total harmonic distortion (at 1 kHz)

MONO ... 0.5 % (65 dBf input)

STEREO ... 0.6 % (65 dBf input)

Signal to noise ratio (at 1 kHz)

MONO ... 80 dB (85 dBf input)

STEREO ... 74 dB (85 dBf input)

Selectivity (± 400 kHz) ... 50 dB

Stereo separation (at 1 kHz) ... 40 dB

Frequency response ... 30 Hz ~ 15 kHz, + 0.5 dB, - 3 dB

AM Tuner section

Tuning frequency range

... 530 kHz ~ 1,700 kHz

Usable sensitivity ... 10 μV / (500 μV / m)

Signal to noise ratio

(at 30 % mod. 1 mV input) ... 48 dB

[General]

Power consumption ... 120 W

Dimensions ... W: 270 mm (10.5 / 8")

... H: 120 mm (4.3 / 4")

... D: 332 mm (13.1 / 16")

Weight (Net) ... 6.5 kg (14.3 lb)

SPECIFICATIONS

<T,E type>

Amplifier section**Rated power output**

(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.

at 8 Ω 30 W + 30 W(DIN) 1 kHz at 8 Ω 30 W + 30 W**Total harmonic distortion**.... 0.09 % (40 Hz ~ 20 kHz, 1/2 Rated power, 8 Ω)..... 0.06 % (1 kHz, 1/2 Rated power, 8 Ω)**Signal to noise ratio**

..... 95 dB(IHF'66) / 80 dB(IHF'78)

Input sensitivity / ImpedanceLD / AUX IN 150 mV / 47 k Ω N.B. circuit (-30 dB Volume level)(max.) +15 dB
(at 60 Hz)**Output level / Impedance**SUPER WOOFER OUT 1.5 V / 3.6 k Ω **FM Tuner section**

Tuning frequency range 87.5 MHz ~ 108 MHz

Sensitivity (DIN at 75 Ω)MONO 0.7 μ V

Total harmonic distortion (DIN at 1 kHz)

MONO 0.6 % (65.2 dBf input)

STEREO 0.8 % (65.2 dBf input)

Signal to noise ratio (DIN weighted at 1 kHz)

MONO 70 dB (65.2 dBf input)

STEREO 64 dB (65.2 dBf input)

Selectivity (DIN $\pm$ 300 kHz) 60 dB

Stereo separation (DIN)

1 kHz 40 dB

Frequency response 30 Hz ~ 15 kHz, +0.5 dB, -3 dB

MW Tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

Usable sensitivity 10 μ V / (500 μ V / m)

Signal to noise ratio

(at 30 % mod. 1 mV input) 48 dB

LW Tuner section

Tuning frequency range 153 kHz ~ 281 kHz

Usable sensitivity 22 μ V

Signal to noise ratio

(at 30 % mod. 1 mV input) 45 dB

[General]

Power consumption 120 W

Dimensions W: 270 mm (10-5 / 8")

H: 120 mm (4-3 / 4")

D: 332 mm (13-1 / 16")

Weight (Net) 6.5 kg (14.3 lb)

A-A5/A5L

SPECIFICATIONS

<Y,M,X type>

Amplifier section

Rated power output

(EIAJ 8 Ω) 35 W + 35 W

(IHF'66) From 40 Hz to 20 kHz, 0.09 % T.H.D.

at 8 Ω 30 W + 30 W

(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.

at 8 Ω 30 W + 30 W

Total harmonic distortion

.... 0.09 % (40 Hz ~ 20 kHz, 1/2 Rated power, 8 Ω)

..... 0.06 % (1 kHz, 1/2 Rated power, 8 Ω)

Signal to noise ratio

..... 95 dB(IHF'66) / 80 dB(IHF'78)

Input sensitivity / Impedance

LD / AUX IN 150 mV / 47 k Ω

MIC 1.2 mV / 47 k Ω

N.B. circuit (-30 dB Volume level)(max.) +15 dB
(at 60 Hz)

Output level / Impedance

SUPER WOOFER OUT 1.5 V / 3.6 k Ω

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Sensitivity (MONO at 75 Ω) 1.2 μ V / 12.8 dBf

Total harmonic distortion (at 1 kHz)

MONO 0.5 % (65 dBf input)

STEREO 0.6 % (65 dBf input)

Signal to noise ratio (at 1 kHz)

MONO 80 dB (85 dBf input)

STEREO 74 dB (85 dBf input)

Selectivity ($\pm$ 400 kHz) 50 dB

Stereo separation (at 1 kHz) 40 dB

Frequency response 30 Hz ~ 15 kHz, +0.5 dB, -3 dB

AM Tuner section

Tuning frequency range

9 kHz step 531 kHz ~ 1,700 kHz

10 kHz step 530 kHz ~ 1,610 kHz

Usable sensitivity 10 μ V / (500 μ V / m)

Signal to noise ratio

(at 30 % mod. 1 mV input) 48 dB

[General]

Power consumption 120 W

Dimensions W: 270 mm (10-5 / 8")

H: 120 mm (4-3 / 4")

D: 332 mm (13-1 / 16")

Weight (Net) 6.5 kg (14.3 lb)

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

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.

Note:

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

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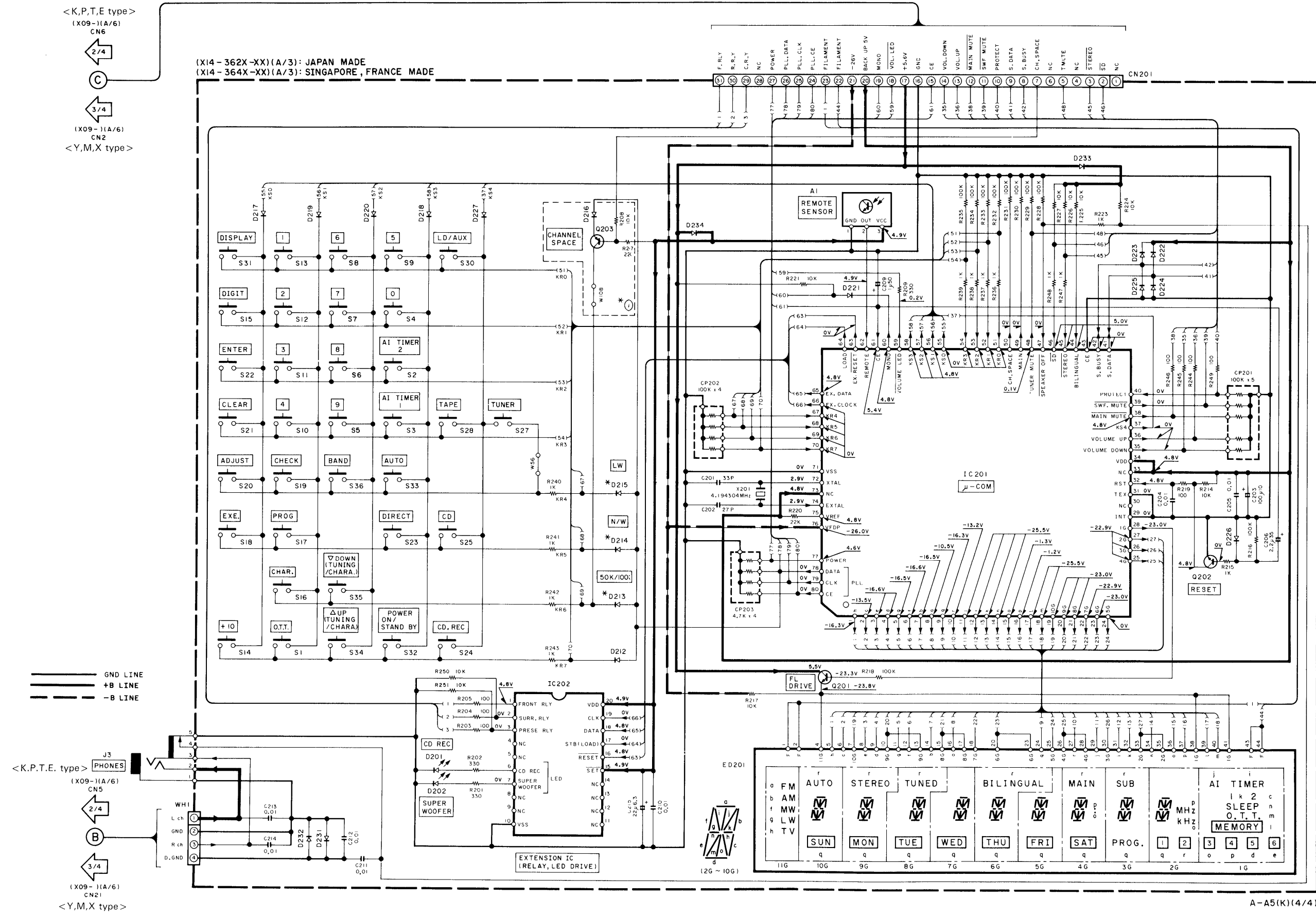
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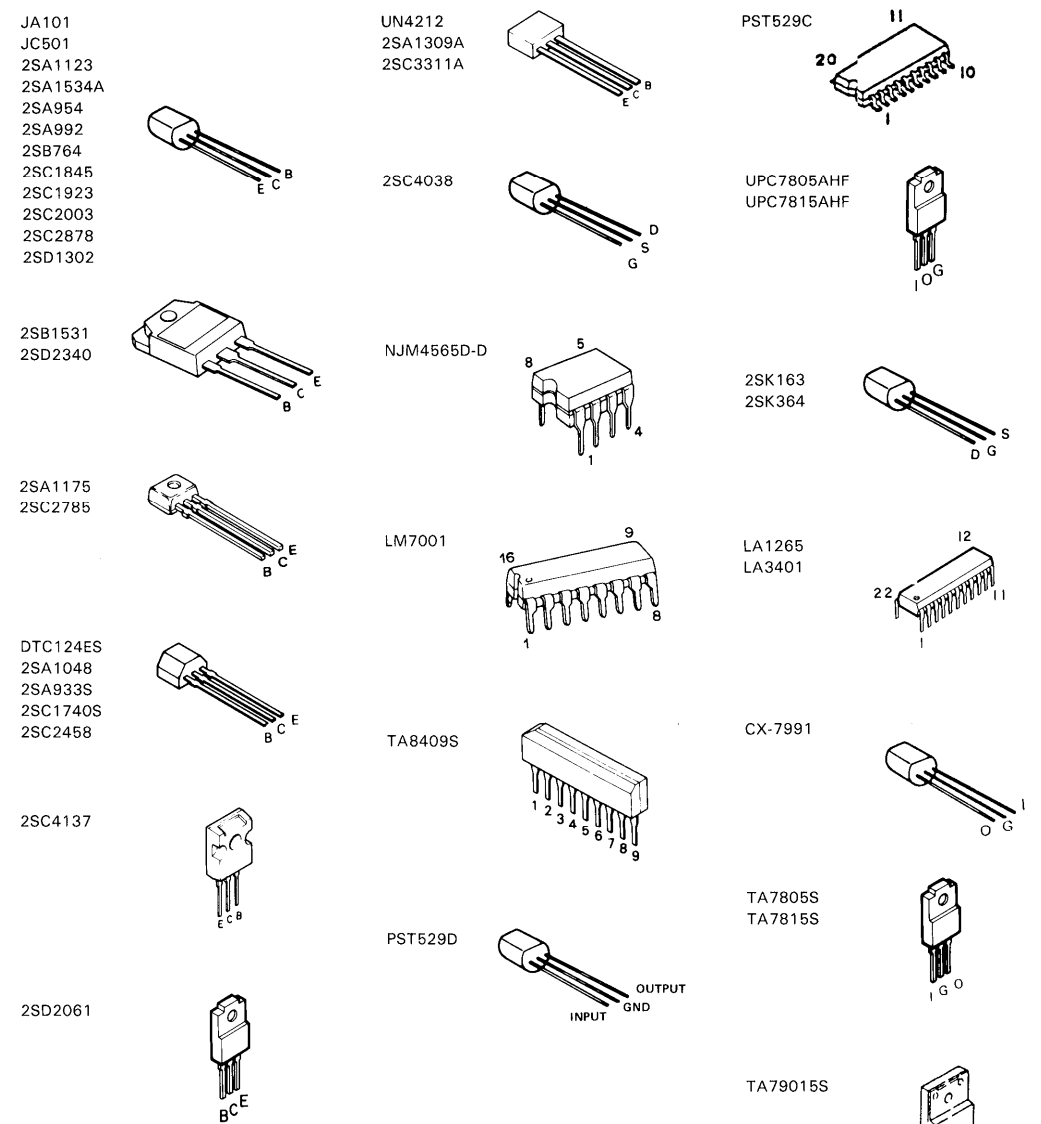
KENWOOD ELECTRONICS SINGAPORE PTE LTD

No. 1 Genting Lane # 07-00, Singapore, 1334



PRODUCT	MODEL	DESTINATION	UNIT NAME	D213	D214	D215	ⓐ
JAPAN MADE	A-5	U.S.A. CANADA	K P	X14-3620-12	NO	NO	NO
		PX GENERAL MARKET	Y M	X14-3620-22	NO	YES	NO
		AUSTRALIA	X	X14-3620-72	YES	YES	NO
		EUROPE ENGLAND	E	X14-3622-72	YES	YES	YES
SINGAPORE MADE	A-5	U.S.A. CANADA	K P	X14-3640-11	NO	NO	NO
		PX GENERAL MARKET	M	X14-3640-22	NO	YES	NO
		AUSTRALIA	X	X14-3640-72	YES	YES	NO
		EUROPE ENGLAND	E	X14-3642-72	YES	YES	YES
FRANCE MADE	A-6L	EUROPE ENGLAND	T E	X14-3642-73	YES	YES	YES
		EUROPE ENGLAND	T E	X14-3642-73	YES	YES	YES

IC201 : GP50116-397Q
or GP50116-397QA
Q1-7991
Q201,202 : 2IC4038(Q,R)
Q203 : 2A1561(Q,R)
D201,202 : B0-1291-05
D212-227,23-234
-H5104
or SS133
or N4148
A1 : W2-1046-05
ED201 : P11AM7R



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. 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.

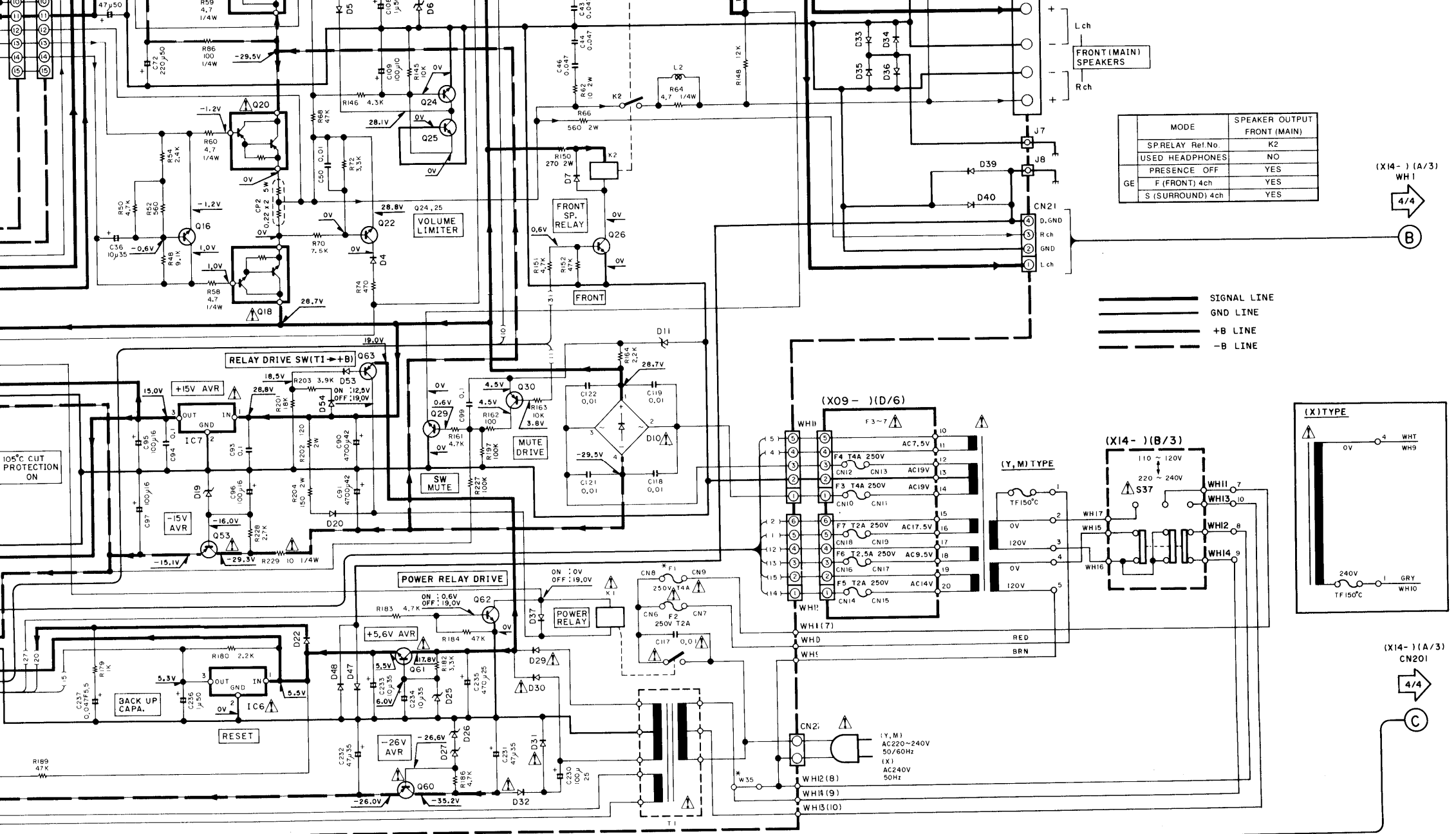
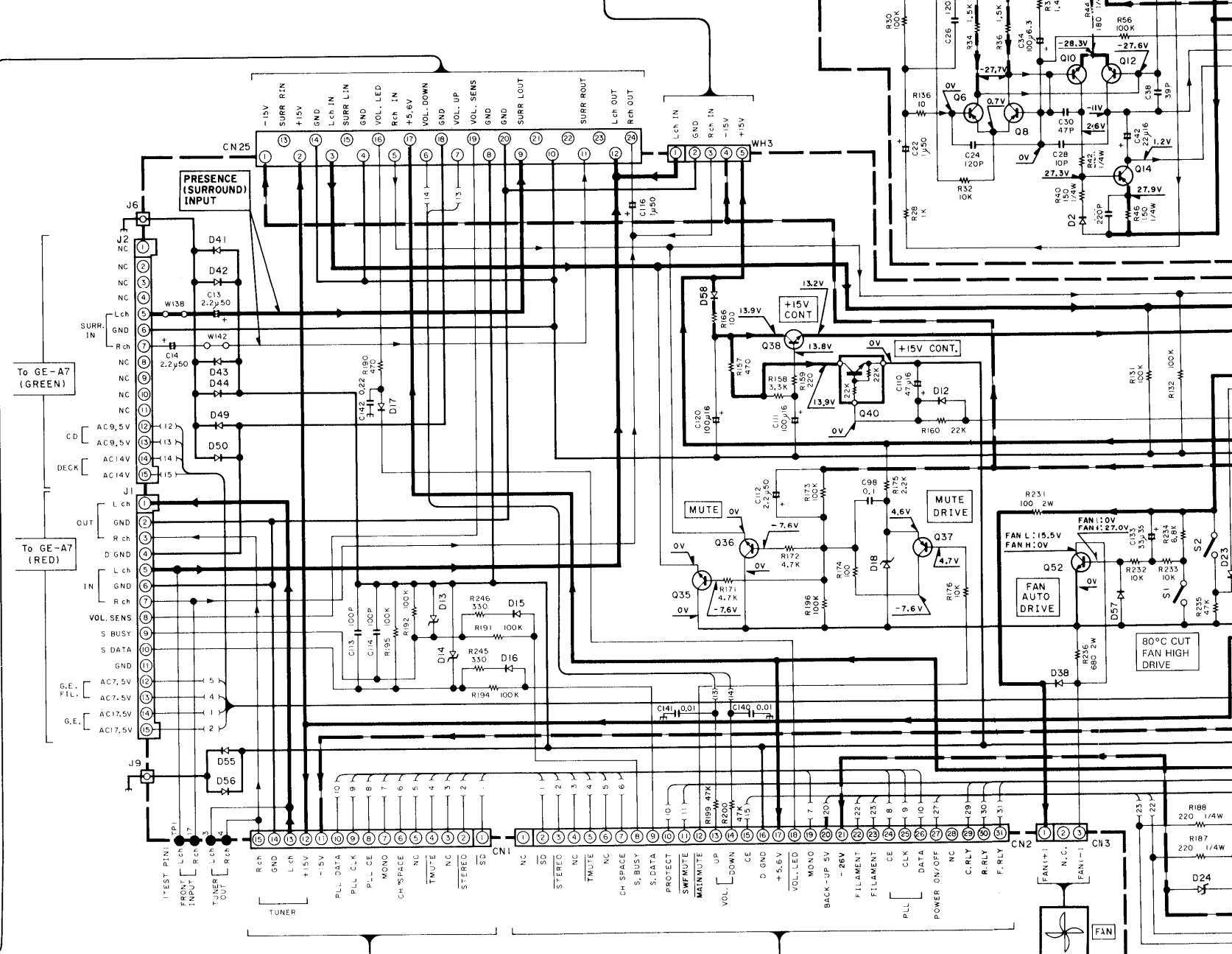
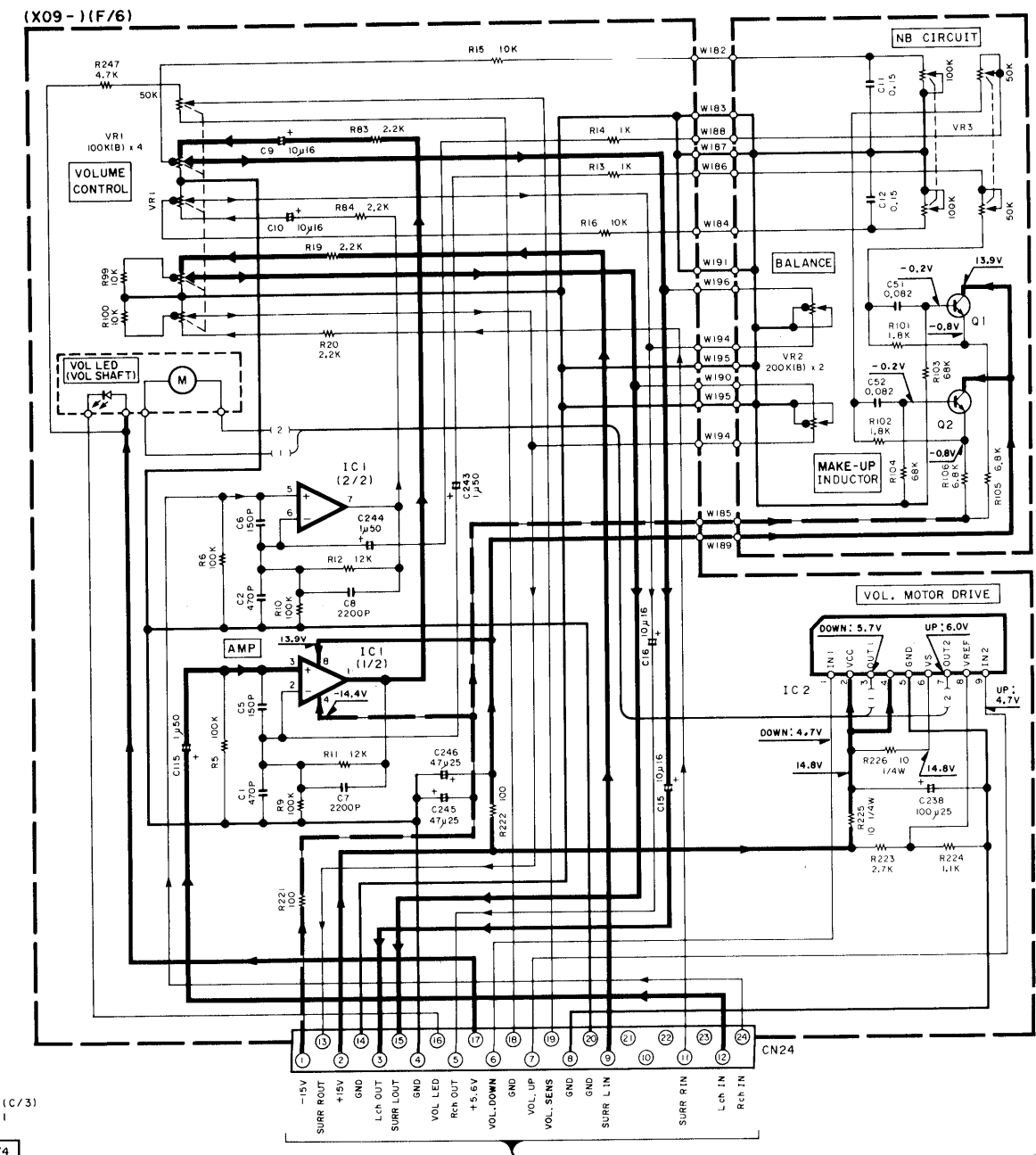
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

IC1,4 : NJM4565D-D
IC2 : TA8409S
IC6 : PST529C
IC7 : TA7815S or μ PC7815AHF

Q1,2,9-12,21,22,24,25 : 2SC1845(F,E)
Q5-8,13,14,63 : 2SA992(F,E)
Q15,16 : 2SC4137(V,W)
Q17,18 : 2SD2340
Q19,20 : 2SB1531
Q23 : 2SA1123(R,S)
Q26,52,62 : 2SC2003(L,K)
Q29,35,36 : 2SC2878(B)
Q30,31 : 2SA1309A(Q,R) or 2SA1175(F,E)
Q38 : 2SC2785(F,E) or 2SA1048(Y,G) or 2SC1740S(Q,R) or 2SC2458(Y,G) or 2SC3311A(Q,R)

Q40 : DTC124ES or U14212
Q53 : RN1203
Q60 : 2SA954(L,K)
Q61 : 2SA1534A(R,S)
2SD2061(E,F,G)

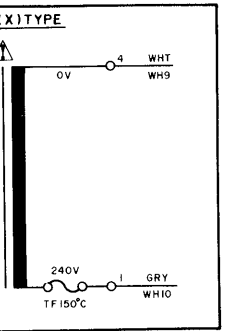
D1-5,7,12,15-17,22,23,33-44,47-58 : 2SC1845(F,E)
HSS104A or 1S831
D6,11,18 : HZS4.7N(B) or J34.7S(B)
D10 : DSS8A20F03 or 18V-60LFA
D13,14 : HZS5.6N(B2) or D5.6S(B2)
D19 : HZS16N(B2) or D16.6S(B2)
D20,29-32 : S668B or 15R10-100
D24 : HZS6.8N(B2) or D6.8S(B2)
D25 : HZS6.2N(B2) or D6.2S(B2)
D26 : HZS11N(B2) or D11.1S(B2)
D27 : HZS16N or D16.1S(B2)



PRODUCT	MODEL	DESTINATION	UNIT NAME	FT	W35
JAPAN	AAS	GENERAL MARKET	M	X09-3670-22	YES NO
MADE	AAS	AUSTRALIA	X	X09-3670-72	NO YES
SINGAPORE	AAS	GENERAL MARKET	M	X09-3710-22	YES NO
MADE	AAS	AUSTRALIA	X	X09-3710-72	NO YES

MODE	SPEAKER OUTPUT
SPEAKER Ref No.	K2
USED HEADPHONES	NO
PRESENCE OFF	YES
F (FRONT) 4ch	YES
S (SURROUND) 4ch	YES

— SIGNAL LINE
— GND LINE
— +B LINE
— -B LINE



JA101 : 2SB764
JC601 : 2SC1845
2SA1123 : 2SC1923
2SA1534A : 2SC2003
2SA954 : 2SC2878
2SA992 : 2SD1302

2SB1531 : 2SD2340
2SA1175 : 2SC2785

DTC124ES : 2SA1048
2SA933S : 2SC1740S
2SC2458

2SC4137 : 2SD2061

UN4212 : 2SA1309A
2SC3311A

2SC4038 : NJM4565D-D

LM7001 : TA8409S

PST529D : PST529C

UPC7805AHF : UPC7815AHF

2SK163 : 2SK364

LA1285 : LA3401

CX-7991 : TA7806S
TA7815S

TA79015S

(Y,M,X type)
A-A5/A5L
KENWOOD

