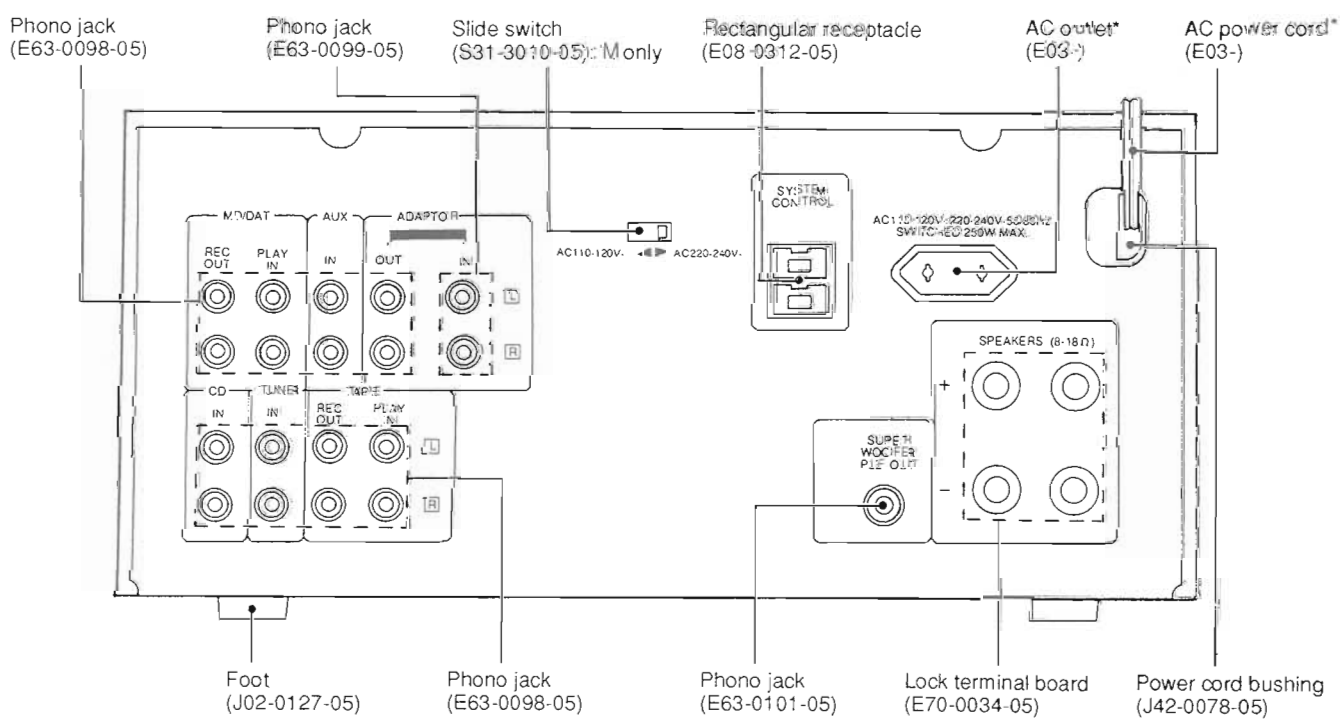


# A-1001

## SERVICE MANUAL



\* Refer to parts list on page 23.

# A-1001

## CONTENTS/ACCESSORIES

REMOTE CONTROL OPERATION.....	3	WIRING DIAGRAM.....	11
BLOCK DIAGRAM.....	4	PC BOARD .....	13
CIRCUIT DESCRIPTION.....	5	SCHEMATIC DIAGRAM .....	17
ADJUSTMENT.....	10	EXPLODED VIEW .....	22
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ABGLEICH.....	10	SPECIFICATIONS.....	BACK COVER

### Accessories

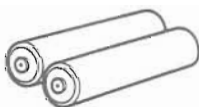
Check that the following accessories are present.

Remote control unit ..... 1  
(A70-0939-05)



Battery cover (A09-0149-08)

Batteries (R6/AA) ..... 2

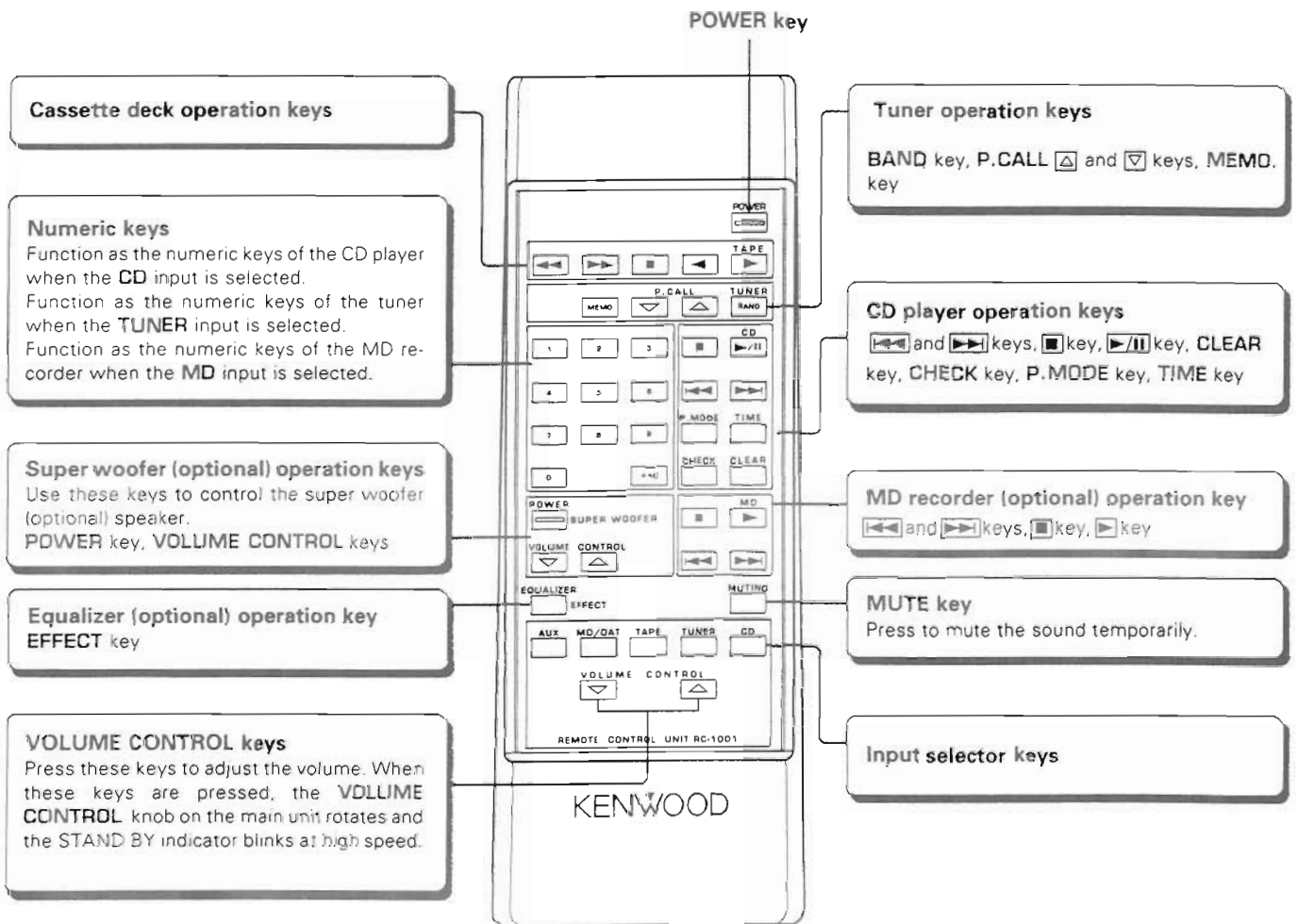


AC plug adaptor ..... 1  
(Except for some areas)  
(E03-0115-05): M ONLY



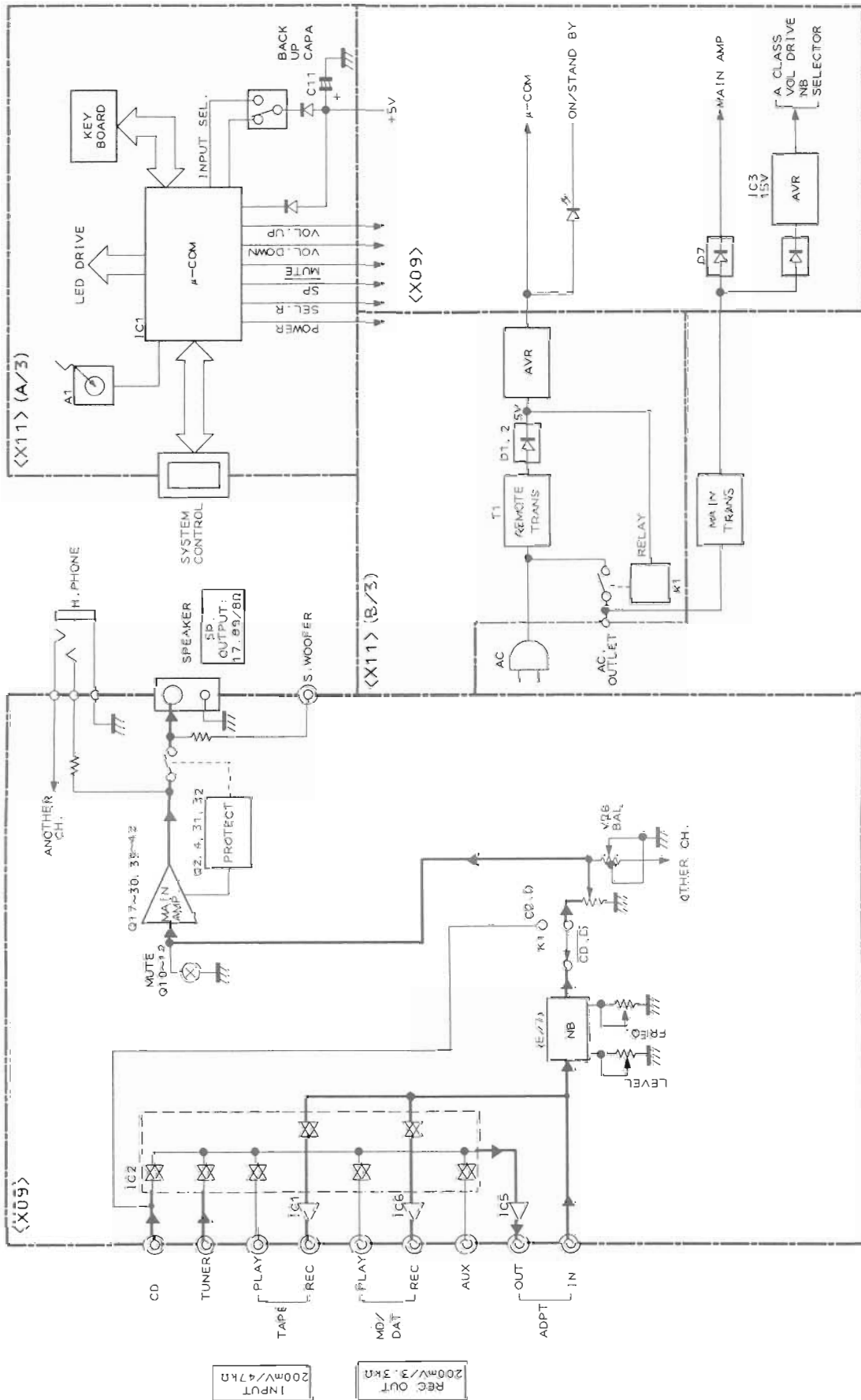
For the unit with a European AC  
plug in areas other than Europe

## REMOTE CONTROL OPERATION



Model: RC-1001  
Infrared ray system

## BLOCK DIAGRAM



## CIRCUIT DESCRIPTION

### AMP $\mu$ -COM: $\mu$ PD75004CU-199 (X11:IC1)

#### 1. Initial Status

After the power is turned ON, the initial status will be as follows:

POSITION = TUNER  
CD DIRECT = OFF  
MUTE = OFF

MUTE = ON (Sound is muted)  
MUTE = OFF (Sound is not muted)

The VOLUME LED will blink for four seconds after the power is turned ON, then it will stay lit.

#### 2. Test Mode

##### 2-1 Test Mode with the Main Unit Keys

###### (1) Setting Procedure

- While pressing the CD DIR key, connect the AC outlet.

###### (2) Cancellation

- Disconnect the AC outlet. The initial setting will take effect and the test mode will be canceled.

###### (3) Description

##### 1. Auto POWER ON

- When the AC outlet is connected while the CD DIR key is held down, the POWER will turn ON and all function will be at the initial setting.

##### 2. ALL LED ON Mode

- When the AC outlet is connected while the CD DIR key is held down, all the LEDs will light. Any key operation on the main unit thereafter will return the LEDs to normal.

##### 3. Auto Motor VR UP/DOWN

- When the CD DIR key is pressed during the test mode set with the main unit keys, the motor VR will operate as follows:

16 sec. UP - 16 sec. DOWN - STOP

- During this motor operation, the CD DIR key will be ineffective.

##### 4. MUTE Signal Output

- The MUTE signal will function normally.

##### 2-2 Test Mode With Serial Communications

###### (1) Setting Procedure

- Connect the AC outlet and enter the TEST ON code.

TEST ON (C27F)

###### (2) Cancellation

- Enter the TEST OFF code or disconnect the AC outlet.

TEST OFF (C27E)

###### (3) Description

- Other operations during the test mode (serial communications)

- During the test mode (serial communications), the main unit's keys, remote controller keys, and normal serial code will be ineffective.

- Required operations for the test mode (serial communications)

- The serial code for the test mode (serial communications) can be used to check the operation of all circuits. Refer to the test mode serial code table.

- During the test mode (serial communications), the MUTE signal is not output. This is for reducing the input-output switching time during the measurement.

- When a valid serial code for the test mode is received, the code identical to the code entered will be output.

- The code entered during the test mode (serial communications) will become valid regardless of the display mode.

- For checking the MUTE operation, MUTE has specific codes.

MUTE ON (C20D)  
MUTE ALL OFF (C20F)

To switch cyclically, enter the individual serial code.

Ex.: Enter the following two codes for SPEAKER ON/OFF.

SPEAKER ON (C21F)  
SPEAKER OFF (C21E)

- Set the motor VR UP/DOWN.

- All LEDs will light. To cancel, enter the ALL LED ON cancellation code. The LEDs will then return to normal.

ALL LED ON OFF (C27B)

- All functions (including the test mode) will be initialized.

AMP INITIAL (C27D)

## CIRCUIT DESCRIPTION

### 2-3 Initial Settings

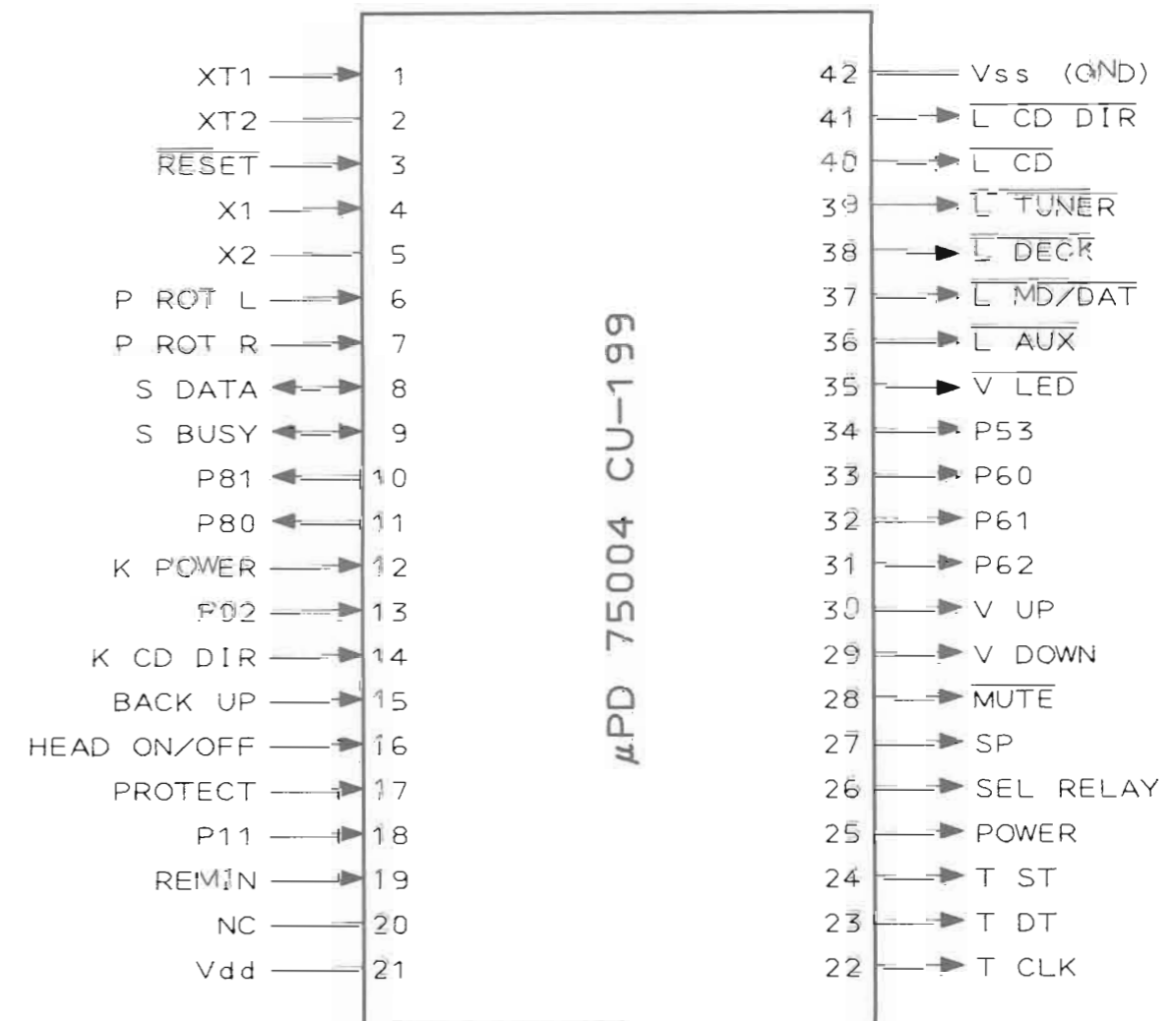
#### (1) Setting Procedure

- To set the initial settings, hold down the POWER key and connect the AC outlet.
- To initialize, disconnect the AC outlet during the test mode (set with the main unit keys or serial communications).

#### (2) Description

- All function (including test mode) will be initialized.

### Pin Connection



Unused pin settings:

Open: XT2, P53 to P62, P80, P81  
Vss Connected: XT1, P02, P11  
Vdd Connected: NC

# A-1001 A-1001

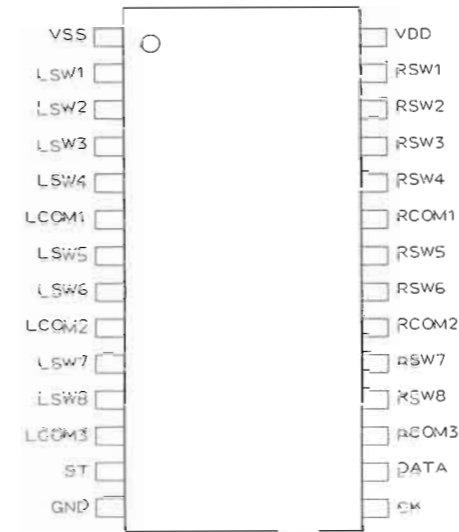
## CIRCUIT DESCRIPTION

### Pin Description

No.	Pin Name	Name	I/O	Description
1	XT1		I	GND
2	XT2			Open
3	RESET		I	Reset signal input port
4	X1		I	Oscillator
5	X2			Oscillator
6	P33	P ROT L	I	Rotary encoder L
7	P32	P ROT R	I	Rotary encoder R
8	P31	S DATA	I/O	Serial data
9	P30	S BUSY	I/O	Serial busy
10	P81	Not used	O	Open
11	P80	Not used	O	Open
12	P03	K POWER	I	Key power
13	P02	Not used	I	GND
14	P01	K CD DIR	I	Key CD direct
15	P00	BACK UP	I	Back up
16	P13	HEAD ON/OFF	I	Switch headphones on/off
17	P12	PROTECT	I	Protection detection
18	P11	Not used	I	GND
19	INTO	REMIN	I	Remote control input terminal
20	NC			+5V
21	VDD			+5V
22	P23	T CLK	O	Selector IC clock
23	P22	T DT	O	Data
24	P21	T ST	O	Strobe
25	P20	POWER	O	Power
26	P73	SEL RELAY	O	CD DIR control port
27	P72	SP	O	Speaker
28	P71	MUTE	O	Mute
29	P70	V DOWN	O	Volume down
30	P63	V UP	O	Volume up
31	P62	Not used	O	Open
32	P61	Not used	O	Open
33	P60	Not used	O	Open
34	P53	Not used	O	Open
35	P52	V LED	O	Volume LED
36	P51	AUX	O	AUX LED
37	P50	MD/DAT	O	MD/DAT LED
38	P43	DECK	O	Deck LED
39	P42	TUNER	O	Tuner LED
40	P41	CD	O	CD LED
41	P40	CD DIR	O	CD DIR LED
42	VSS	VSS		GND

## CIRCUIT DESCRIPTION

### SELECTOR IC: TC9164N(X09, IC2)



Status	SW	TP MD							
		1	2	3	4	5	6	7	8
TAPE		1	0	0	0	0	0	0	1
TUNER		0	1	0	0	0	0	1	1
CD		0	0	1	0	0	0	1	1
AUX		0	0	0	1	0	0	1	1
MD/DAT		0	0	0	0	1	0	1	0

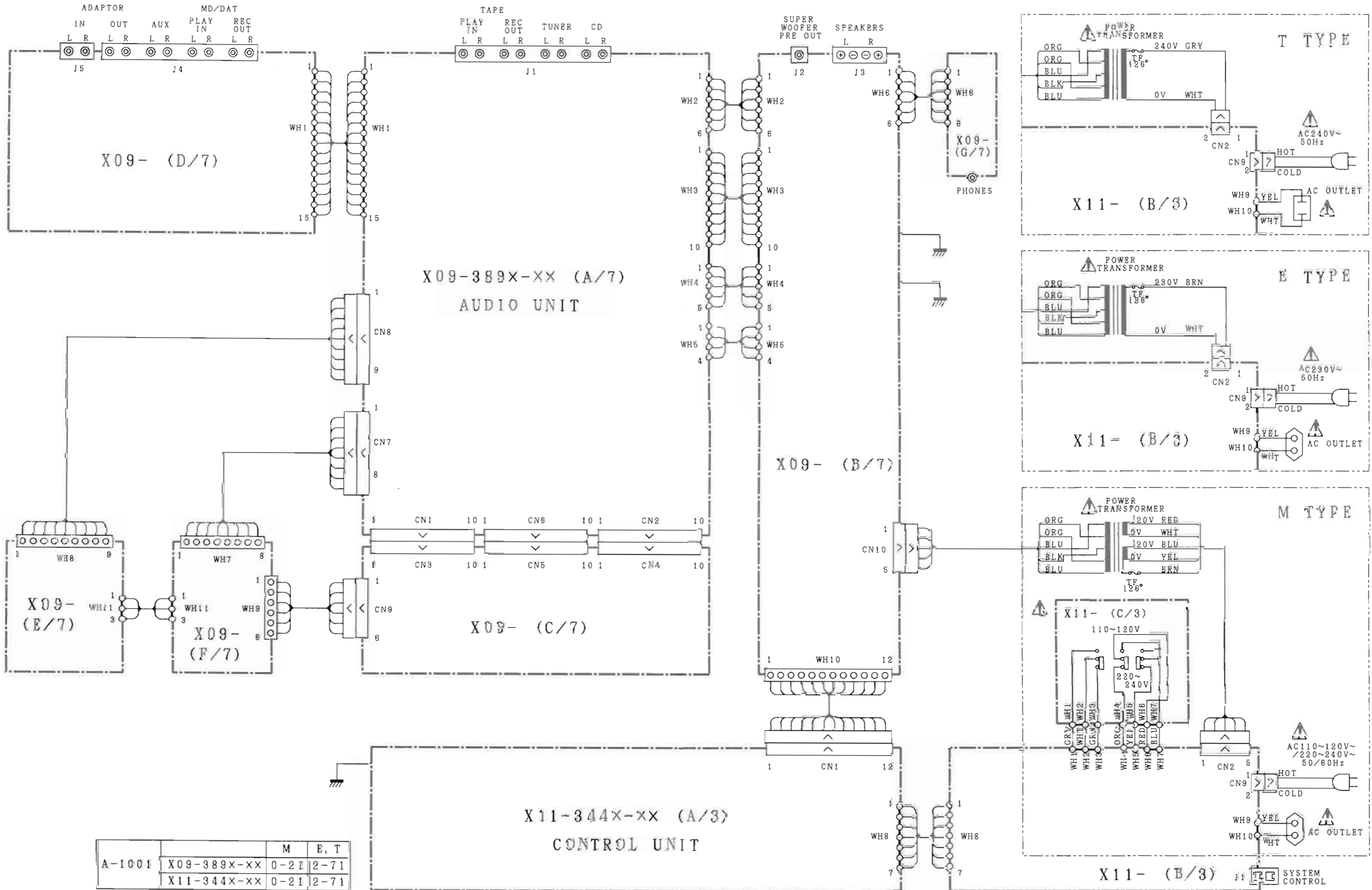
(0: SW OFF 1: SW ON)

	SEL RELAY Status
CD DIR ON	H
CD DIR OFF	L



# A-1001 A-1001

## WIRING DIAGRAM

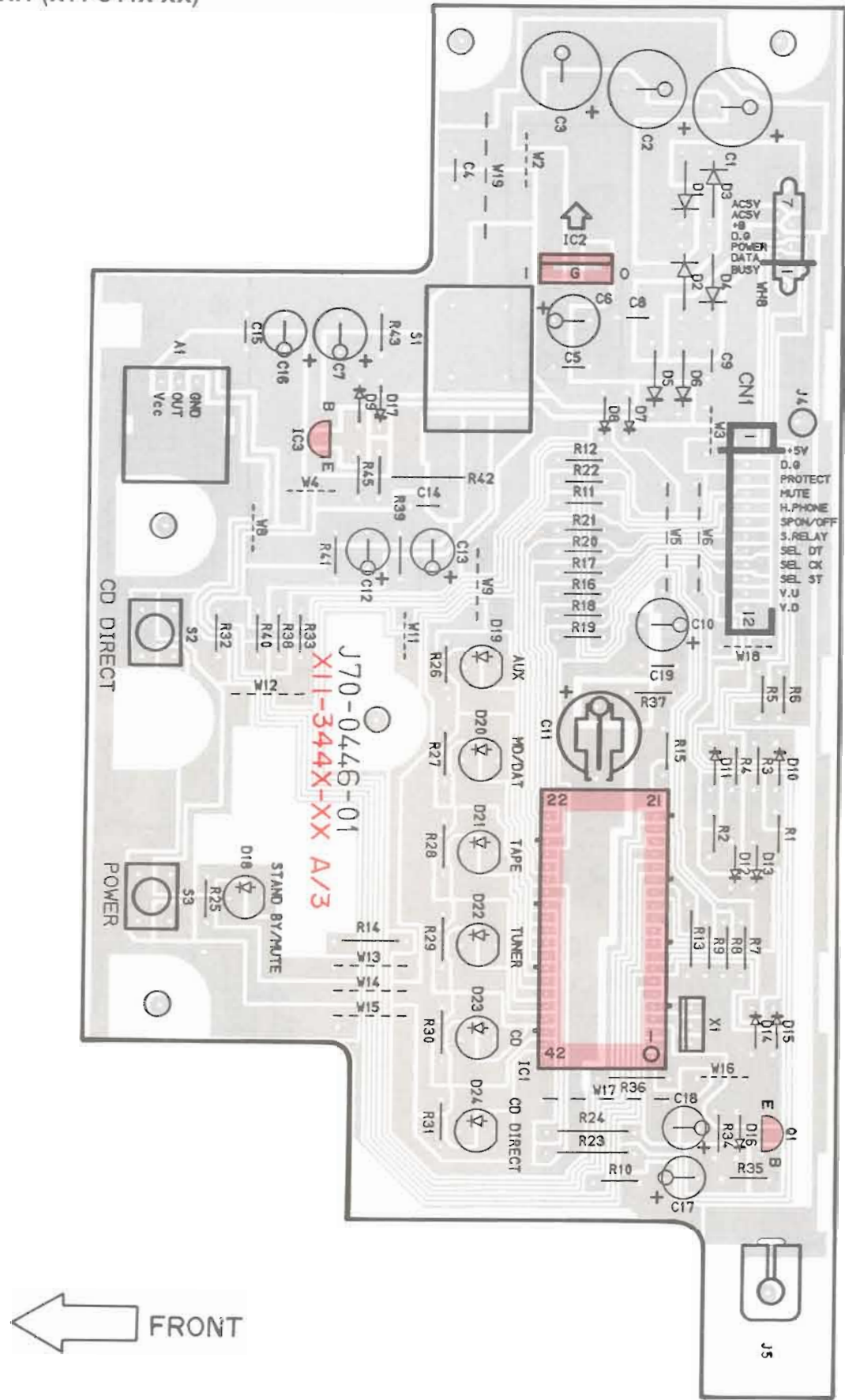


A-1001	X09-389X-XX	M	E, T
	X11-344X-XX	0-21	2-71

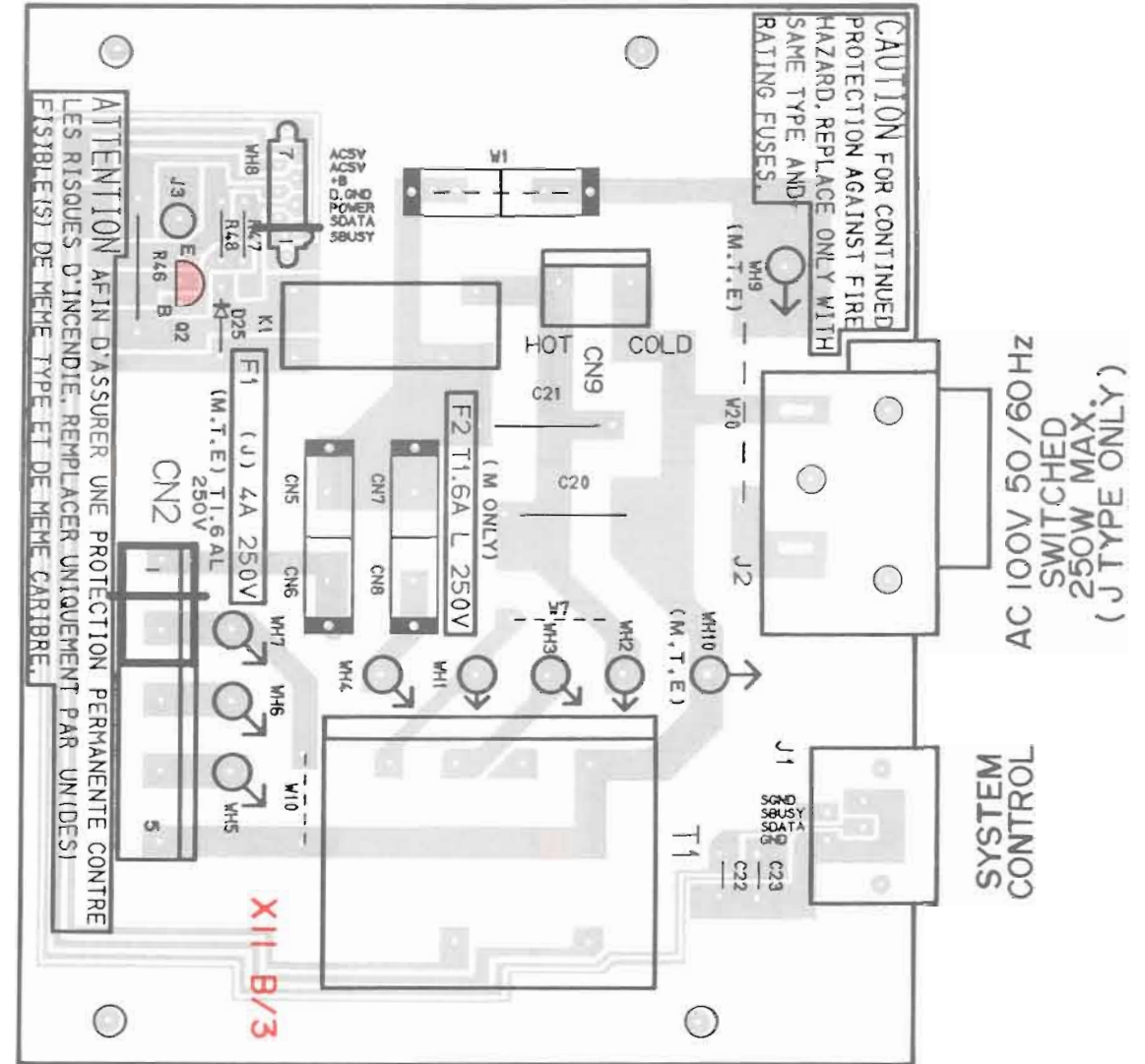
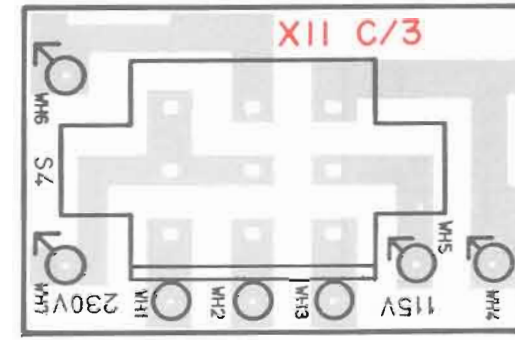


# PC BOARD (Component side view)

CONTROL UNIT (X11-344X-XX)

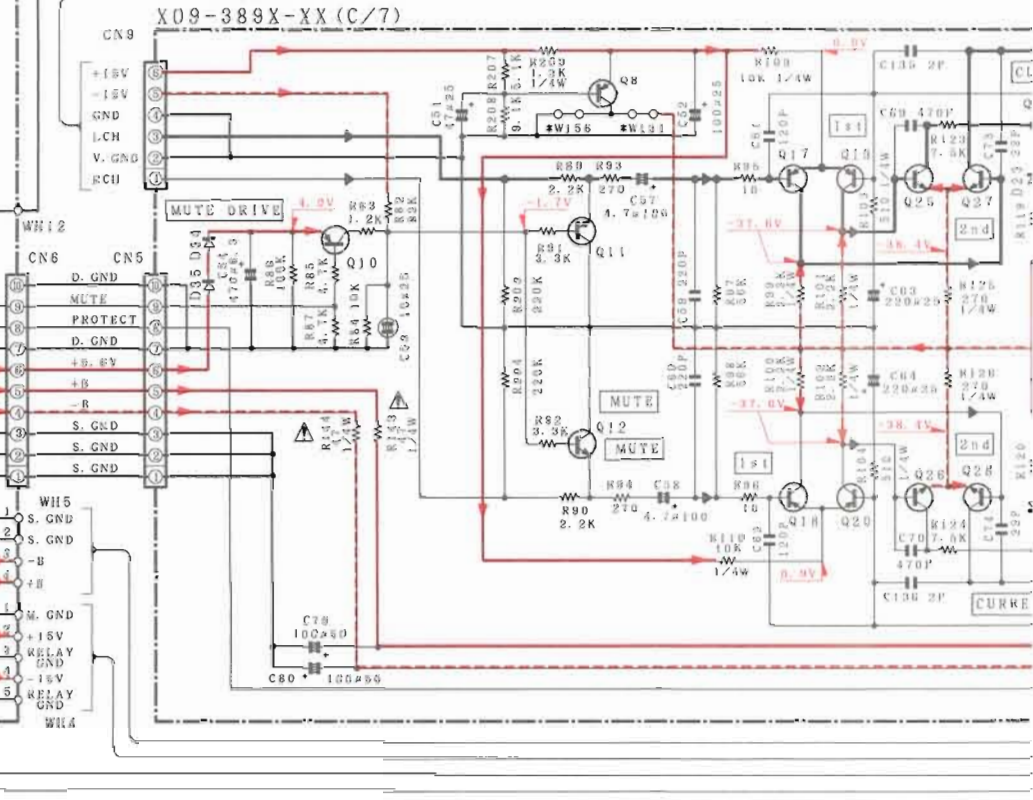
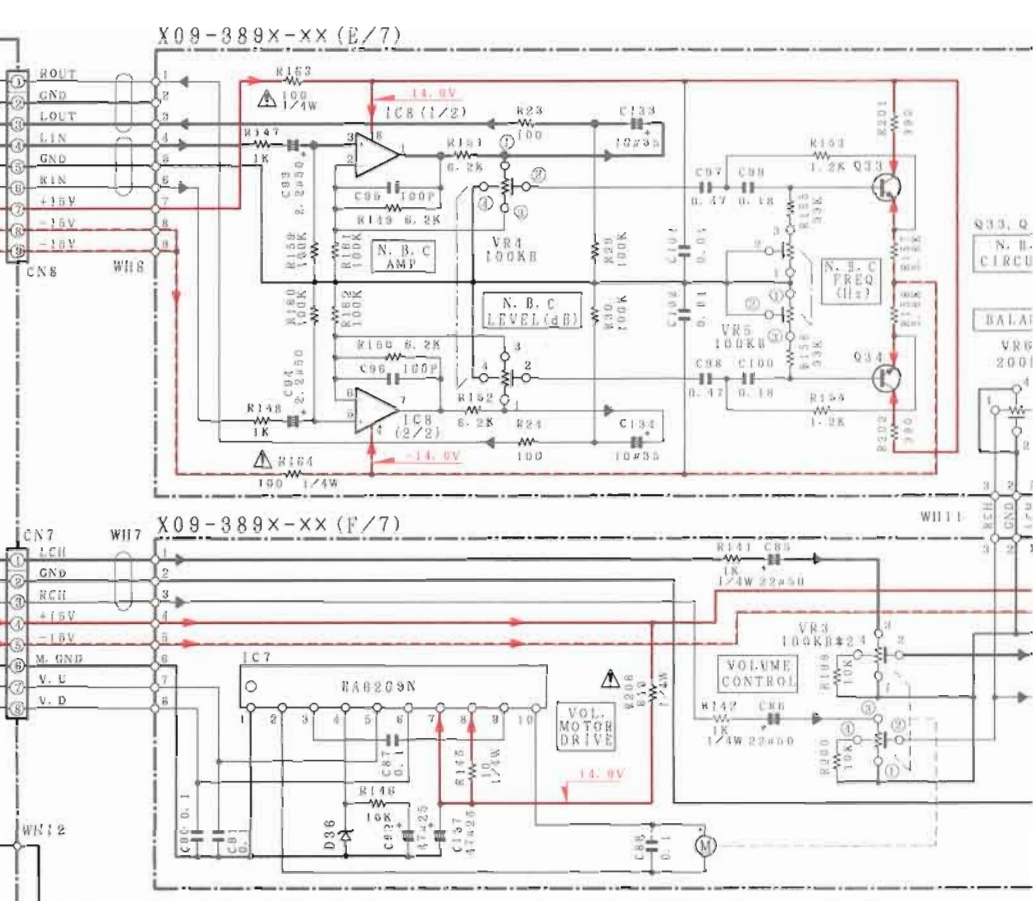
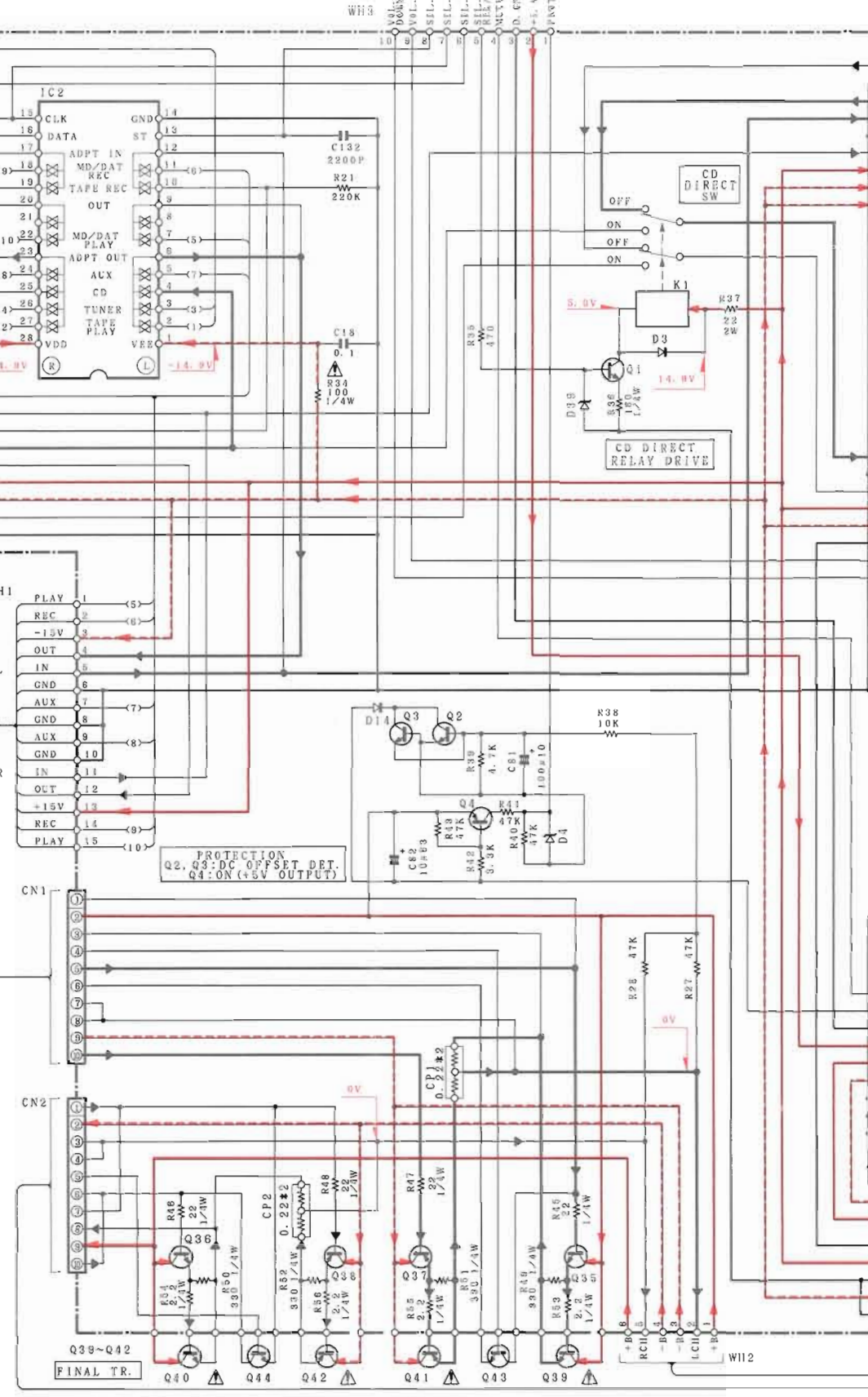
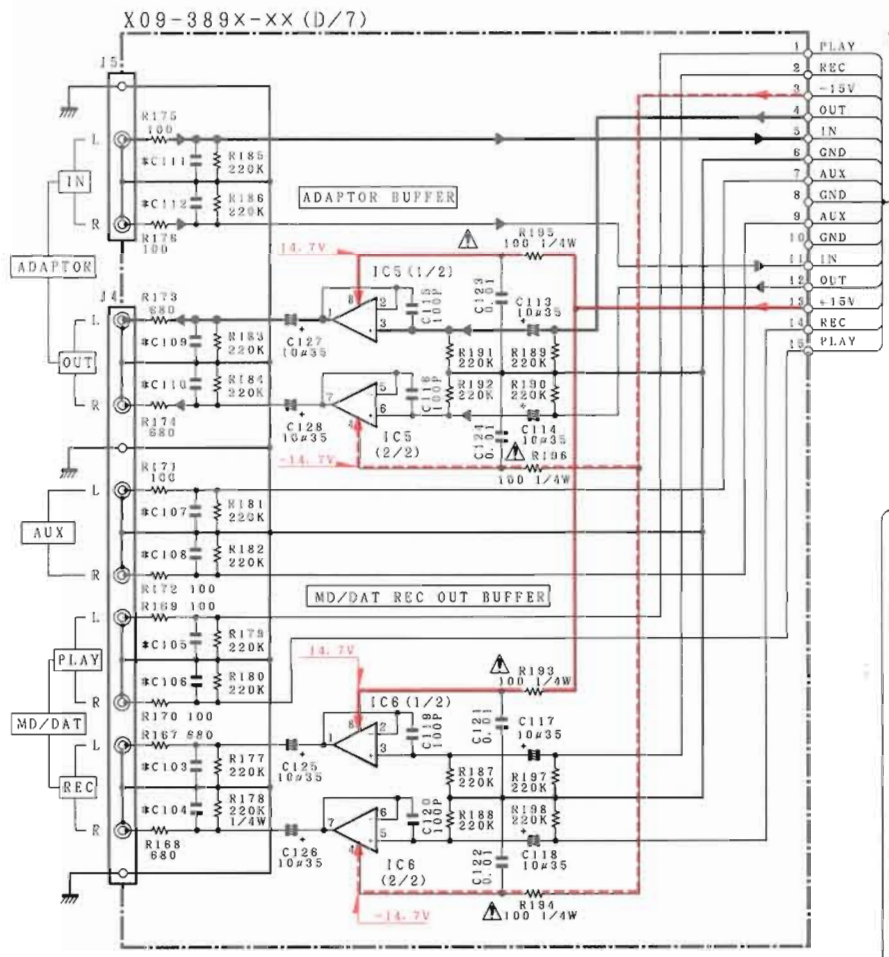
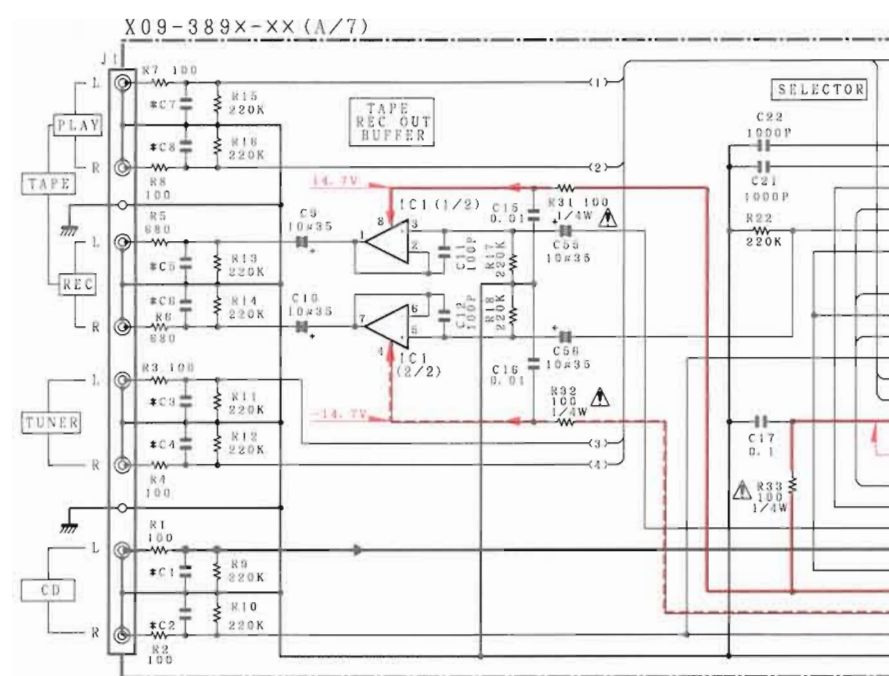


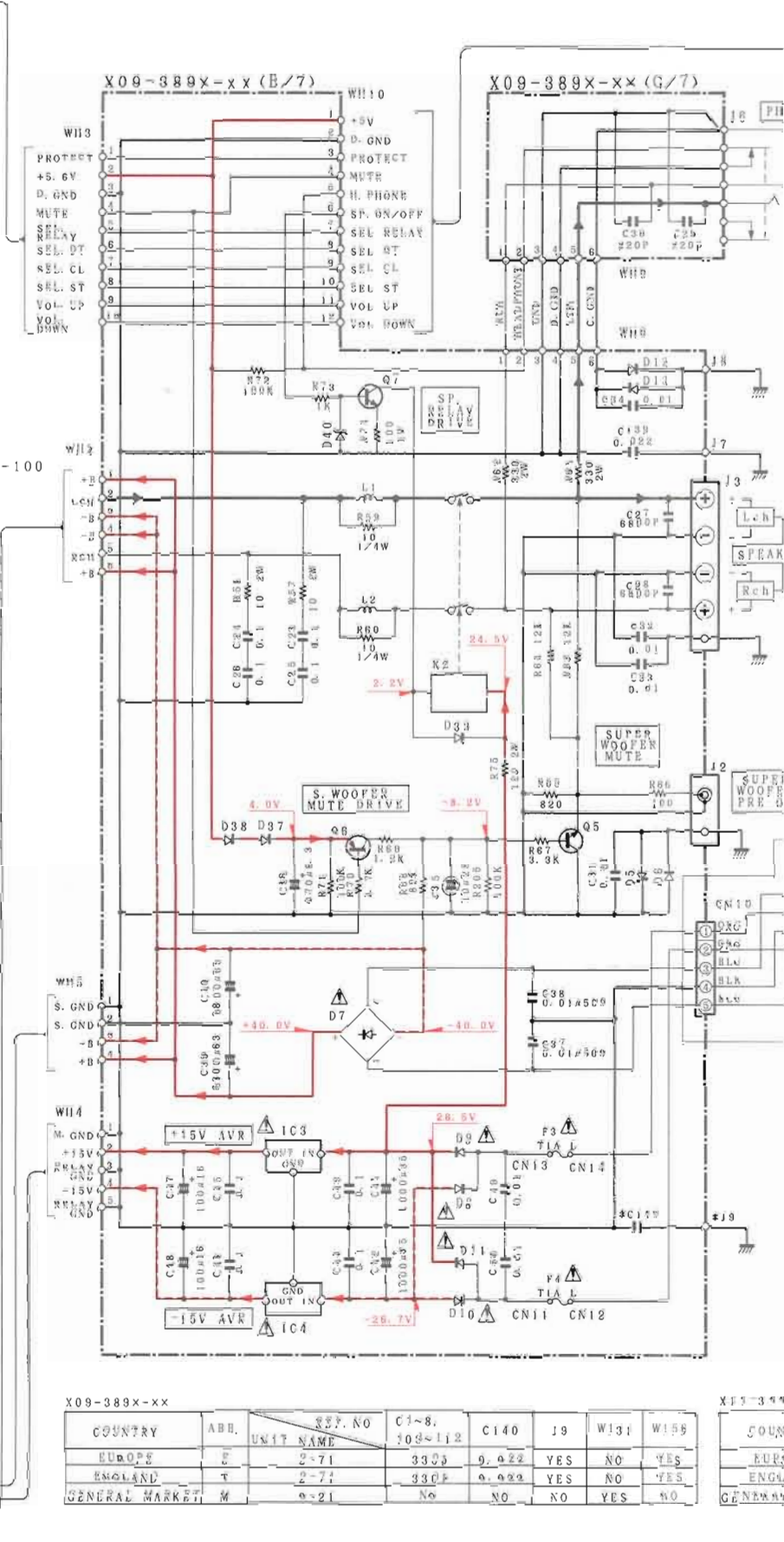
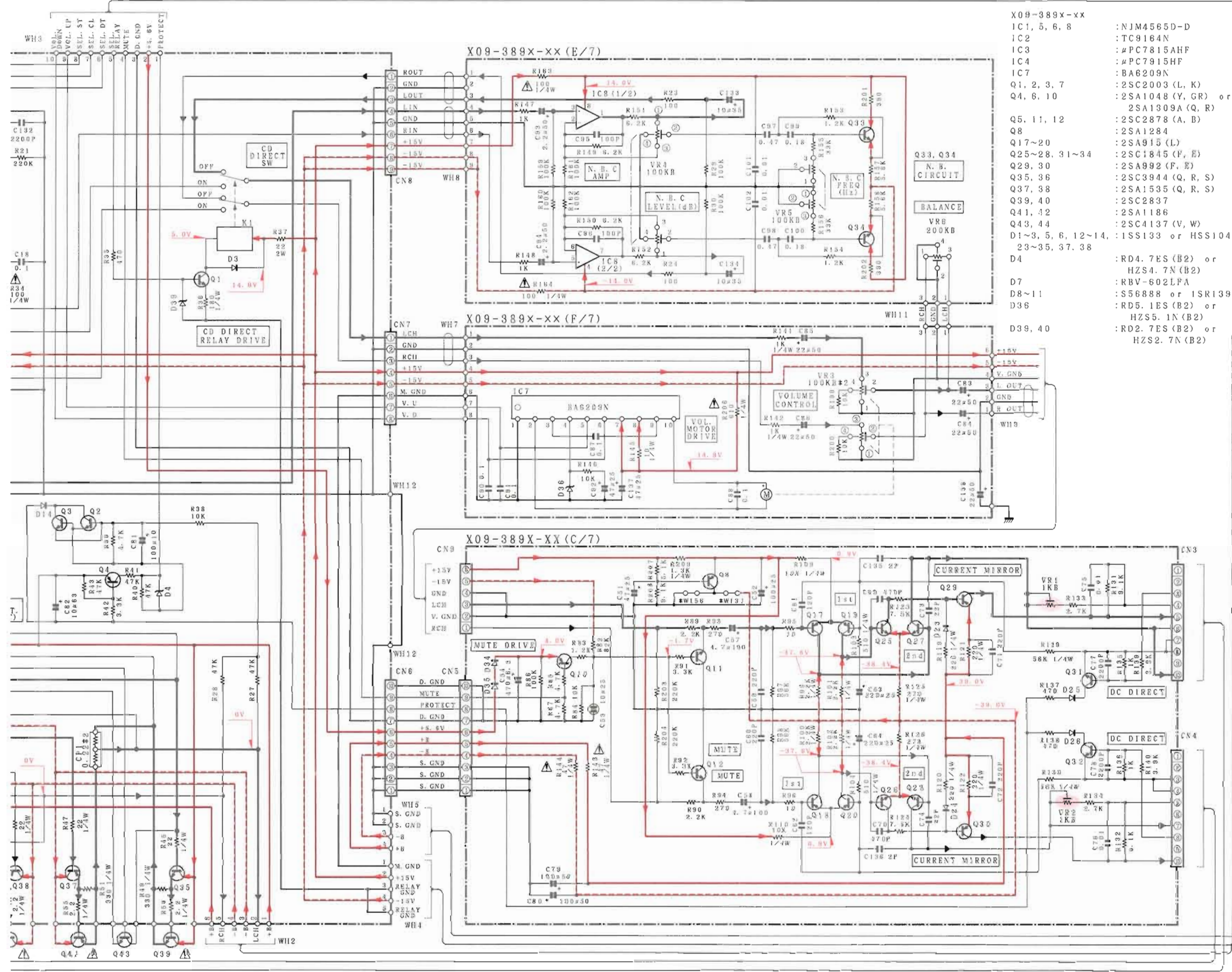
M TYPE ONLY



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







COUNTRY	ABB.	UNIT NAME	REF. NO	C1~8	C140	J9	W131	W159	COUN
EUROPE	F	2-71	3300	0.922	YES	NO	YES	YES	EUR
ENGLAND	T	2-71	3300	0.922	YES	NO	YES	YES	ENG
GENERAL MARKET	M	0-21	NO	NO	NO	YES	NO	NO	GEN

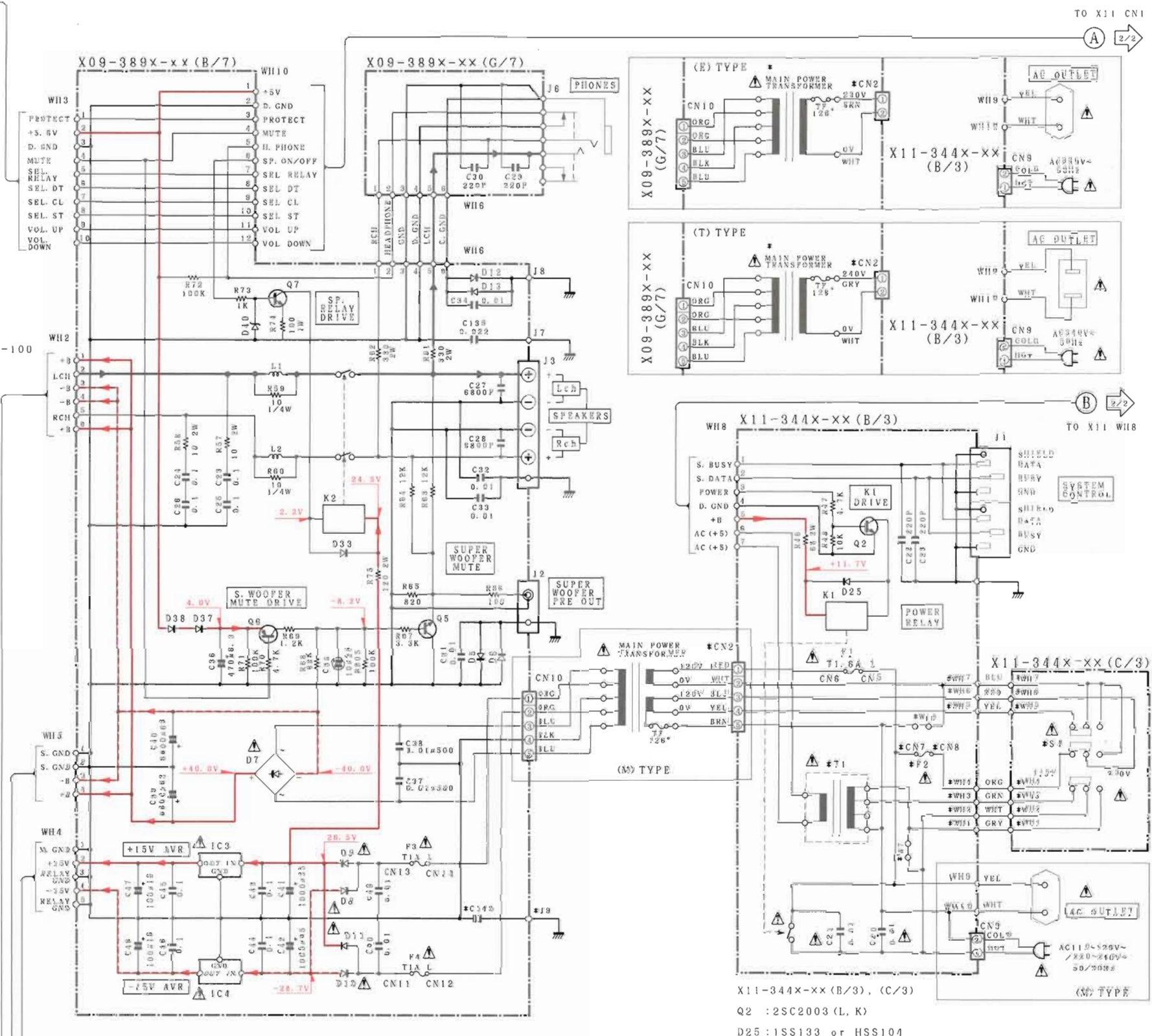
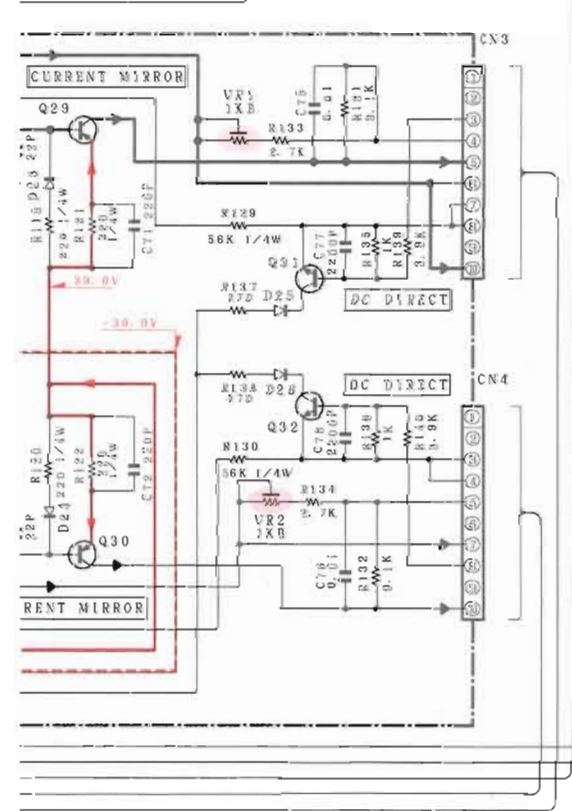
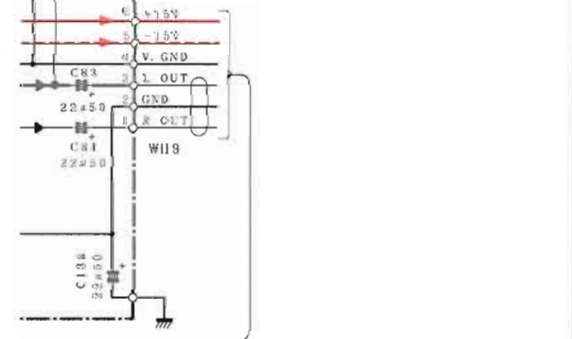
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angeg. chohmige Dabeil sch chen einz

X09-389x-xx

IC1, 5, 6, 8	: NJM4565D-D
IC2	: TC9164N
IC3	: μPC7815AHF
IC4	: μPC7915HF
IC7	: BA6209N
Q1, 2, 3, 7	: 2SC2003 (L, K)
Q4, 6, 10	: 2SA1048 (Y, GR) or 2SA1309A (Q, R)
Q5, 11, 12	: 2SC2878 (A, B)
Q8	: 2SA1284
Q17~20	: 2SA915 (L)
Q25~28, 31~34	: 2SC1845 (F, E)
Q29, 30	: 2SA892 (F, E)
Q35, 36	: 2SC3944 (Q, R, S)
Q37, 38	: 2SA1535 (Q, R, S)
Q39, 40	: 2SC2837
Q41, 42	: 2SA1186
Q43, 44	: 2SC4137 (V, W)
D1~3, 5, 6, 12~14, 23~35, 37, 38	: ISS133 or HSS104
D4	: RD4, 7ES (B2) or HZS4, 7N (B2)
D7	: RBV-602LFA
D8~11	: S56888 or ISR139-100
D36	: RD5, 1ES (B2) or HZS5, 1N (B2)
D39, 40	: RD2, 7ES (B2) or HZS2, 7N (B2)



X09-389x-xx

COUNTRY	ADD.	REF. NO	C1~8, 103~112	C140	J9	W133	W158
EUROPE	E	2-71	332P	3.022	YES	NO	YES
ENGLAND	T	2-71	332P	3.922	YES	NO	YES
GENERAL MARKET	M	2-71	NO	NO	NO	YES	NO

X11-344x-xx

COUNTRY	ADD.	REF. NO	F2	T1	CN2	WH1~WH7, S4	W7, W10	MAIN POWER TRANSFORMER
EUROPE	E	2-71	NO	L07-0772-05	E40-4245-05	NO	YES	L07-0736-05
ENGLAND	T	2-71	NO	L07-0772-05	E40-4245-05	NO	YES	L07-0734-05
GENERAL MARKET	M	0-21	YES	L07-0773-05	E40-4281-05	YES	NO	L07-0733-05

TO X11 CN1 (A) 2/2

(E) TYPE

X09-389x-xx (G/7)

X11-344x-xx (B/3)

(T) TYPE

X09-389x-xx (G/7)

X11-344x-xx (B/3)

TO X11 W18 (B) 2/2

X11-344x-xx (B/3), (C/3)

X11-344x-xx (C/3)

(M) TYPE

X11-344x-xx (C/3)

(M) TYPE

Q2 : 2SC2003 (L, K)

D25 : ISS133 or HSS104

Legend: — SIGNAL LINE, - - - INV. LINE, —+B LINE, —-B LINE

2SA992  
2SC1845  
2SC2003  
2SC2878

2SA915

2SA1186  
2SC2837

2SA1048  
2SC2458

2SC4137

2SA1535  
2SC3944

2SA1309A  
2SC3311A

NJM4565D-D

UPD75004CU-199

UPC7815AHF

TC9164N

UPC7915HF

BA6209N

S-80740AL

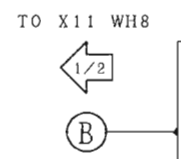
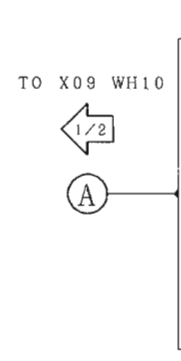
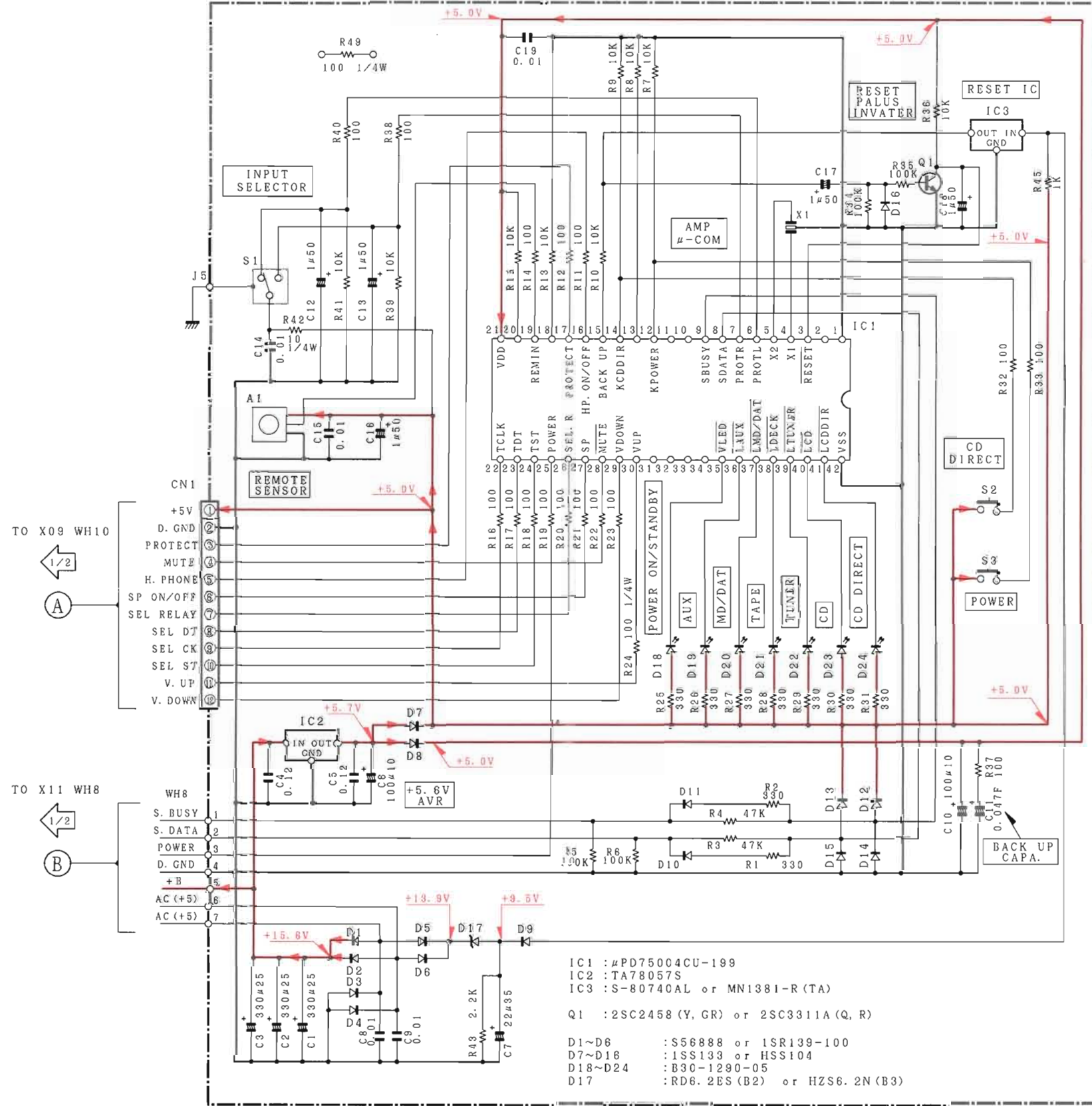
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Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

**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.

X11-344X-XX (A/3)



- IC1 : μPD75004CU-199
- IC2 : TA78057S
- IC3 : S-80740AL or MN1381-R (TA)
- Q1 : 2SC2458 (Y, GR) or 2SC3311A (Q, R)
- D1~D6 : S56888 or 1SR139-100
- D7~D16 : 1SS133 or HSS104
- D18~D24 : B3C-1290-05
- D17 : RD6.2ES (B2) or HZS6.2N (B3)

**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.

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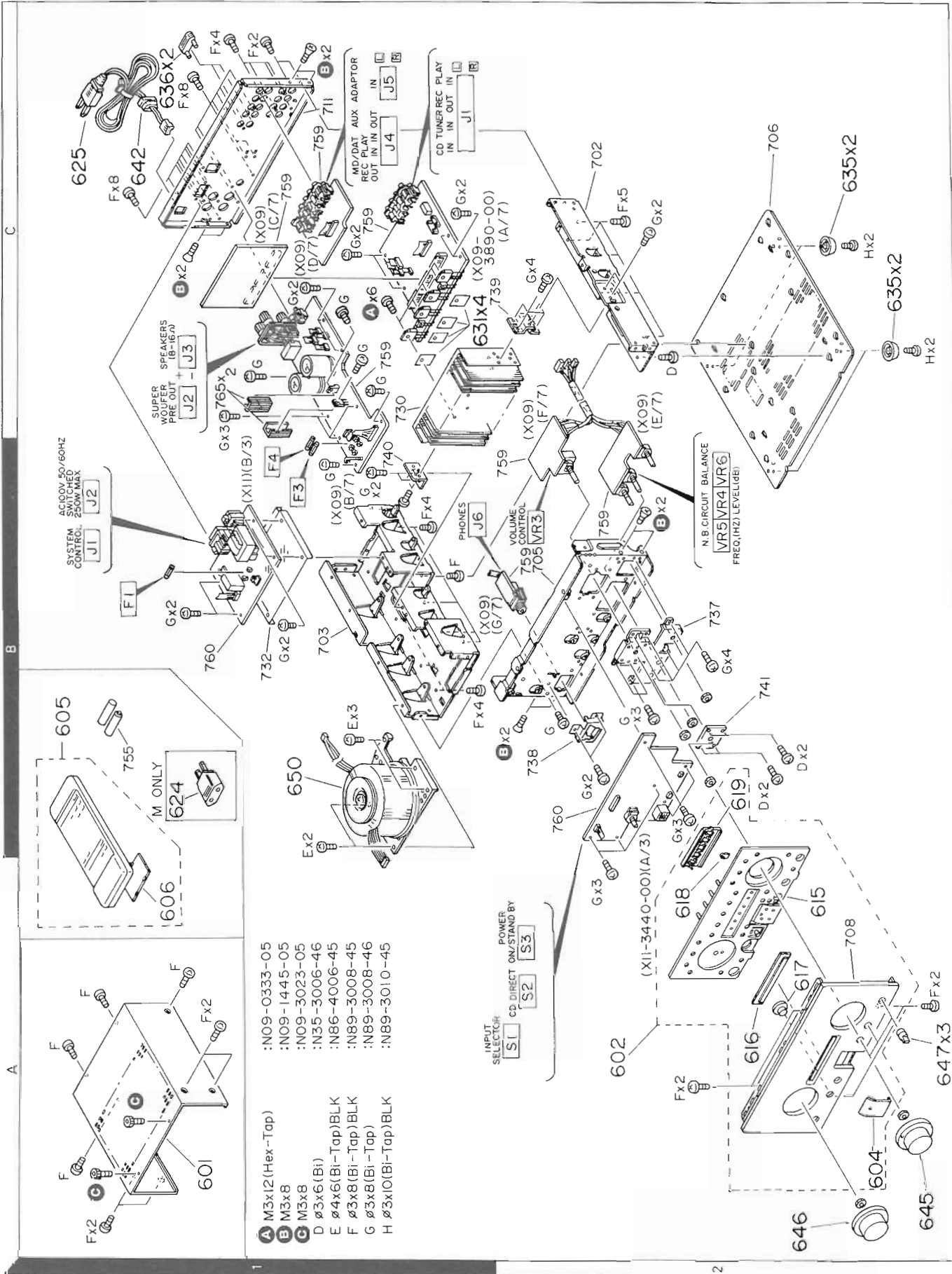
2/2

Y08-4900-21

— GND LINE  
— +B LINE



## EXPLODED VIEW



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

## PARTS LIST

### AUDIO UNIT

Unit No.	Destination
X09-3890-21	M
X09-3892-71	T, E

### CONTROL UNIT

Unit No.	Destination
X11-3440-21	M
X11-3442-71	T, E

No.1

Ref. No. 参照番号	Address 位 置	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Desti- nation 任 向	Re- marks 備 考
<b>A-1001 (UNIT)</b>					
601	1A	A01-3044-01	METALLIC CABINET		
602	2A	A60-0424-11	PANEL ASSY		
604	2A	A21-1847-04	DRESSING PANEL		
605	1B	A70-0939-05	REMOTE CONTROLLER ASSY		
606	1A	A09-0149-08	BATTERY COVER		
615	2A	B01-0510-01	PANEL ESCUTCHEON		
616	2A	B10-1992-04	FRONT GLASS		
617	2A	B11-0267-04	COLOR FILTER		
618	2A	B12-0149-04	INDICATOR		
619	2B	B12-0226-04	INDICATOR		
-	-	B46-0310-03	WARRANTY CARD	TE	
-	-	B52-0539-00	CONNECTING DIAGRAM		
-	-	B60-1220-00	INSTRUCTION MANUAL (ENGLISH)		
-	-	B60-1221-00	INSTRUCTION MANUAL (F.C.D.)	E	
-	-	B60-1225-00	INSTRUCTION MANUAL (CHINESE)	M	
-	-	B60-1226-20	INSTRUCTION MANUAL (SPANISH)	ME	
624	1B	E03-0115-05	AC PLUG ADAPTER	M	
625	1C	E30-2592-15	AC POWER CORD	T	
625	1C	E30-2721-05	AC POWER CORD	T	
J2		E03-0055-05	AC OUTLET	ME	
J2		E03-0085-05	AC OUTLET	T	
631	1C	F20-1297-05	INSULATING SHEET		
-	-	H50-0693-04	ITEM CARTON CASE	ME	
-	-	H50-0843-04	ITEM CARTON CASE	T	
-	-	H10-5528-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H10-5529-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H12-2170-04	PACKING FIXTURE	T	
-	-	H13-0039-04	CARTON BOARD		
-	-	H25-0330-04	PROTECTION BAG	ME	
-	-	H25-0632-24	PROTECTION BAG	ME	
-	-	H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-	-	H25-0658-04	PROTECTION BAG (0330 PRINTED)	T	
635	2C	J02-0127-05	FOOT		
636	1C	J12-0091-05	PIN		
642	1C	J42-0078-05	POWER CORD BUSHING		
-	-	J61-0307-05	WIRE BAND		
645	2A	K29-5753-04	KNOB VOLUME		
646	2A	K29-5754-04	KNOB INPUT SELECTOR		
647	2A	K29-5818-14	KNOB N. B. CIRCUIT, BALANCE		
650	1B	L07-0733-05	POWER TRANSFORMER	M	
650	1B	L07-0734-05	POWER TRANSFORMER	T	
650	1B	L07-0736-05	POWER TRANSFORMER	E	
A	1C	N09-0333-05	TAPPING SCREW (3X12)		
B	2B, 1C	N09-1445-05	SET SCREW (M3X8)		
C	1A	N09-3023-05	MACHINE SCREW (3 X 8)		
D	2B, 2C	N35-3006-46	BINDING HEAD MACHINE SCREW		
E	1A, 1B	N88-4006-45	BINDING HEAD TAPTITE SCREW		
F	1A, 2A	N89-3008-45	BINDING HEAD TAPTITE SCREW		
C	1B, 2B	N89-3008-46	BINDING HEAD TAPTITE SCREW		
H	2C	N89-3010-45	BINDING HEAD TAPTITE SCREW		

L:Scandinavia K:USA P:Canada  
 Y:PA(Far East, Hawaii) T:England E:Europe  
 Y:A:EE(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

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



x 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.

No.3

Ref. No. 参照番号	Address 位 置	New Parts 新 部 品	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Desti- nation 任 務	Re- marks 備 考
C129-131			CK45FF1H103Z	CERAMIC		
C132			CK45FB1H222K	CERAMIC		
C133,134			CE04KW1V100M	ELECTRO		
C135,136			CC45FSL1H020C	CERAMIC		
C137			CE04KW1E470M	ELECTRO		
J1		*	E63-0098-05	PHONE JACK		
J2		*	E63-0101-05	PHONE JACK		
J3		*	E70-0034-05	LOCK TERMINAL BOARD SPEAKERS		
J4		*	E63-0098-05	PHONE JACK		
J5		*	E63-0099-05	PHONE JACK		
J6			E11-0210-05	PHONE JACK		
F3, 4			F06-1022-05	FUSE (SEKKO) (250V TIAL)		
CN11-14			J13-0075-05	FUSE CLIP		
L1, 2			L39-0085-05	PHASE COMPENSATION COIL		
G	1C		N89-3008-46	BINDING HEAD TAPITE SCREW		
CP1, 2			R90-0187-05	MULTI-COMP		
R31			R014NB2E101J	RD		
R36			R014NB2E181J	RD		
R37			RS14KB3D220J	FL-PROOF RS		
R45			R014NB2E220J	RD		
R49			R014NB2E331J	RD		
R53			R014NB2E282J	RD		
R57			RS14KB3D100J	FL-PROOF RS		
R59			R014NB2E100J	RD		
R61, 62			RS14KB3D331J	FL-PROOF RS		
R74			RS14KB3A101J	FL-PROOF RS		
R75			RS14KB3D121J	FL-PROOF RS		
R77, 78			R014NB2E470J	RD		
R119-122			R014NB2E221J	RD		
R125,126			R014NB2E271J	RD		
R143,144			R014NB2E470J	RD		
R145			R014NB2E100J	RD		
R163,164			R014NB2E101J	RD		
R193-196			R014NB2E101J	RD		
R206			R014NB2E100J	RD		
VR1, 2		*	R12-1084-05	TRIMMING POT.(1K) IDLE ADJ		
VR3		*	R29-5081-05	POTENTIOMETER(100K) VOLUME		
VR4		*	R06-5203-05	POTENTIOMETER(100K) N-B C FREQ		
VR5		*	R06-5204-05	POTENTIOMETER(100K) N-B C LEVE		
VR6		*	R01-5087-05	POTENTIOMETER(100K) BALANCE		
K1			S51-2089-05	MAGNETIC RELAY		
K2			S51-2078-05	MAGNETIC RELAY		
D1			HSS104	DIODE		
D1			ISS133	DIODE		
D4			HZ54.7N(B2)	ZENER DIODE		
D4			R04.7ES(B2)	ZENER DIODE		
D5			HSS104	DIODE		
D5			ISS133	DIODE		
D7			RBV-602LFA	DIODE		
D8			S5686B	DIODE		
D8			LSR139-100	DIODE		

No.2

Ref. No. 参照番号	Address 位 置	New Parts 新 部 品	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Desti- nation 任 務	Re- marks 備 考
<b>AUDIO UNIT (X09-389X-XX)</b>						
C1			CF92FV1H331K	MF	TE	
C3			C91-0751-05	330PF K	TE	
C9			CE04KW1V100M	100UF J		
C11			CC45FSL1H101J	100PF J		
C13, 14			CK45FF1H103Z	0.010UF Z		
C15			CE04KW1E470M	47UF 25WV		
C17			CE92FV1H104J	0.10UF J		
C19			CE04KW1E470M	47UF 25WV		
C21			CK45FB1H102K	1000PF K		
C23			CF92FV1H104J	0.10UF J		
C27			CF92FV1H682J	6800PF J		
C29			CC45FSL1H221J	220PF J		
C31			CK45FF1H103Z	0.010UF Z		
C35			CE04HW1E100M	10UF 25WV		
C36			CE04KW0J471M	470UF 6.3WV		
C37			CK45FE2H103P	0.010UF P		
C39		*	C90-3523-05	ALUMINIUM ELECTROLYTIC C.		
C41			CE04KW1V102M	1000UF 35WV		
C43			CF92FV1H104J	0.10UF J		
C47			CE04KW1010M	1000UF 16WV		
C49			CK45FE1H103Z	0.010UF Z		
C51			CE04KW1010M	100UF 16WV		
C53			CE04HW1E100M	10UF 25WV		
C54			CE04KW0J471M	470UF 6.3WV		
C55			CE04KW1V100M	100UF 35WV		
C57			CE04KW1V4R7M	4.7UF 35WV		
C59			CC45FSL1H221J	220PF J		
C61			CC45FSL1H121J	120PF J		
C63			CE04KW1E221M	220UF 25WV		
C69			CK45FB1H471K	470PF K		
C71			CC45FSL1H221J	220PF J		
C73			CC45FSL1H030C	3.0PF J		
C75			CK45FE1H103Z	0.010UF Z		
C77			CK45FB1H222K	2200PF K		
C79			CE04KW1H101M	100UF 50WV		
C81			CE04KW1A101M	100UF 10WV		
C82			CE04KW1J100M	10UF 63WV		
C83			CE04KW1V100M	10UF 35WV		
C87			CF92FV1H104J	0.10UF J		
C90			CK45FF1H103Z	0.010UF Z		
C92			CE04KW1E470M	47UF 25WV		
C93			CE04KW1H2R2K	2.2UF 50WV		
C95			CC45FSL1H101J	100PF J		
C97			CF92FV1H474J	0.47UF J		
C99			CF92FV1H184J	0.18UF J		
C101,102			CE04KW1E101M	100UF 25WV		
C103-112			CF92FV1H331K	330PF K		
C113,114			CE04KW1V100M	100UF 35WV		
C115,116			CC45FSL1H101J	100PF J		
C117,118			CE04KW1V100M	100UF 35WV		
C119,120			CC45FSL1H101J	100PF J		
C121-124			CE04KW1E470M	47UF 25WV		
C125-128			CE04KW1V100M	100UF 35WV		

x 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.

No.3

Ref. No. 参照番号	Address 位 置	New Parts 新 部 品	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Desti- nation 任 務	Re- marks 備 考
C129-131			CK45FF1H103Z	CERAMIC		
C132			CK45FB1H222K	CERAMIC		
C133,134			CE04KW1V100M	ELECTRO		
C135,136			CC45FSL1H020C	CERAMIC		
C137			CE04KW1E470M	ELECTRO		
J1		*	E63-0098-05	PHONE JACK		
J2		*	E63-0101-05	PHONE JACK		
J3		*	E70-0034-05	LOCK TERMINAL BOARD SPEAKERS		
J4		*	E63-0098-05	PHONE JACK		
J5		*	E63-0099-05	PHONE JACK		
J6			E11-0210-05	PHONE JACK		
F3, 4			F06-1022-05	FUSE (SEKKO) (250V TIAL)		
CN11-14			J13-0075-05	FUSE CLIP		
L1, 2			L39-0085-05	PHASE COMPENSATION COIL		
G	1C		N89-3008-46	BINDING HEAD TAPITE SCREW		
CP1, 2			R90-0187-05	MULTI-COMP		
R31			R014NB2E101J	RD		
R36			R014NB2E181J	RD		
R37			RS14KB3D220J	FL-PROOF RS		
R45			R014NB2E220J	RD		
R49			R014NB2E331J	RD		
R53			R014NB2E282J	RD		
R57			RS14KB3D100J	FL-PROOF RS		
R59			R014NB2E100J	RD		
R61, 62			RS14KB3D331J	FL-PROOF RS		
R74			RS14KB3A101J	FL-PROOF RS		
R75			RS14KB3D121J	FL-PROOF RS		
R77, 78			R014NB2E470J	RD		
R119-122			R014NB2E221J	RD		
R125,126			R014NB2E271J	RD		
R143,144			R014NB2E470J	RD		
R145			R014NB2E100J	RD		
R163,164			R014NB2E101J	RD		
R193-196			R014NB2E101J	RD		
R206			R014NB2E100J	RD		
VR1, 2		*	R12-1084-05	TRIMMING POT.(1K) IDLE ADJ		
VR3		*	R29-5081-05	POTENTIOMETER(100K) VOLUME		
VR4		*	R06-5203-05	POTENTIOMETER(100K) N-B C FREQ		
VR5		*	R06-5204-05	POTENTIOMETER(100K) N-B C LEVE		
VR6		*	R01-5087-05	POTENTIOMETER(100K) BALANCE		
K1			S51-2089-05	MAGNETIC RELAY		
K2			S51-2078-05	MAGNETIC RELAY		
D1			HSS104	DIODE		
D1			ISS133	DIODE		
D4			HZ54.7N(B2)	ZENER DIODE		
D4			R04.7ES(B2)	ZENER DIODE		
D5			HSS104	DIODE		
D5			ISS133	DIODE		
D7			RBV-602LFA	DIODE		
D8			S5686B	DIODE		
D8			LSR139-100	DIODE		

x New Parts  
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No.3

Ref. No. 参照番号	Address 位 置	New Parts 新 部 品	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Desti- nation 任 務	Re- marks 備 考
C129-131			CK45FF1H103Z	CERAMIC		
C132			CK45FB1H222K	CERAMIC		
C133,134			CE04KW1V100M	ELECTRO		
C135,136			CC45FSL1H020C	CERAMIC		
C137			CE04KW1E470M	ELECTRO		
J1		*	E63-0098-05	PHONE JACK		
J2		*	E63-0101-05	PHONE JACK		
J3		*	E70-0034-05	LOCK TERMINAL BOARD SPEAKERS		
J4		*	E63-0098-05	PHONE JACK		
J5		*	E63-0099-05	PHONE JACK		
J6			E11-0210-05	PHONE JACK		
F3, 4			F06-1022-05	FUSE (SEKKO) (250V TIAL)		
CN11-14			J13-0075-05	FUSE CLIP		
L1, 2			L39-0085-05	PHASE COMPENSATION COIL		
G	1C		N89-3008-46	BINDING HEAD TAPITE SCREW		
CP1, 2			R90-0187-05	MULTI-COMP		
R31			R014NB2E101J	RD		
R36			R014NB2E181J	RD		
R37			RS14KB3D220J	FL-PROOF RS		
R45			R014NB2E220J	RD		
R49			R014NB2E331J	RD		
R53			R014NB2E282J	RD		
R57			RS14KB3D100J	FL-PROOF RS		
R59			R014NB2E100J	RD		
R61, 62						

## PARTS LIST

No.5

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
F1 ,2		F05-1623-05 F05-1623-05	FUSE (SEMKO) (250V T1.6A) FUSE (SEMKO) (250V T1.6A)	TE M
CNS -8 CNS ,6		J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP	M TE
T1 X1	*	L07-0772-05 L07-0773-05 L78-0267-05	POWER TRANSFORMER POWER TRANSFORMER RESONATOR (4.194MHZ)	TF M
RA2 RA6		RD14NB2E100J RS14KB3D680J	RD PL-PROOF RS 66 J 1/4W J 2W	
K1 S2 ,3 S4		S76-0002-05 S40-1064-05 S31-3010-05	MAGNETIC RELAY PUSH SWITCH CD DIRECT POWER SLIDE SWITCH VOLTAGE SELECTOR	M
S1	*	T99-0540-05	ROTARY ENCODER INPUT SELECTOR	
D1 -6 D1 -6 D7 -16 D7 -16 D17		SS688B 1SR139-100 HSS104 1SS133 HZ56.2N(B2)	DIODE DIODE DIODE DIODE ZENER DIODE	
D17 D25 D25		RD4-2ES(B2) HSS104 1SS133	ZENER DIODE DIODE DIODE	
IC1 IC2	*	UP0750Q4CU-199 TA78057S	IC(VOLTAGE REGULATOR/+5.75V) IC(VOLTAGE REGULATOR/+5.75V)	
IC3 IC3 Q1 Q1 Q2		MN1361-R(TA) S-8074DAL 2SC2458(Y,GR) 2SC331A(G,R) 2SC2003(L,K)	IC(VOLTAGE DETECT) IC(VOLTAGE DETECTOR) TRANSISTOR TRANSISTOR TRANSISTOR	
A1		W02-1174-05	ELECTRIC CIRCUIT MODULE	

\* New Parts  
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No.4

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
D12 -14 D12 -14 D23 -35 D23 -35 D36		HSS104 HSS133 HSS104 1SS133 1SS133 HZ55.1N(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	
D36 D37 ,38 D37 ,38 D39 ,40 D39 ,40		RD5.1ES(B2) HSS104 1SS133 HZ52.7N(B2) RD2.7ES(B2)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE	
IC1 IC2 IC3 IC4 ICS ,6		NJM4565D-D TC9164N UPC7815AHF UPC7915HF NJM4565D-D	IC(OP AMP X2) IC(16CH BILATERAL SELECTOR SW) IC(VOLTAGE REGULATOR/+15V) IC(VOLTAGE REGULATOR/-15V) IC(OP AMP X2)	
IC7 IC8 Q1 -3 Q4 Q4		B46209N NJM4565D-D 2SC2003(L,K) 2SA1048(Y,GR) 2SA1309A(Q,R)	IC(MOTOR DRIVER) IC(OP AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR	
Q5 Q6 Q6 Q7 Q7 Q10		2SC2878(B) 2SA1048(Y,GR) 2SA1309A(Q,R) 2SC2003(L,K) 2SA1048(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q10 Q11 ,12 Q17 -20 Q25 -28 Q29 ,30		2SA1309A(Q,R) 2SC2878(B) 2SA915(L) 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q31 -34 Q35 ,36 Q37 ,38 Q39 ,40 Q41 ,42 Q43 ,44		2SC1845(F,E) 2SC3944(Q,R,S) 2SA1535(Q,R,S) 2SC2837 2SA1186 2SC4137	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
<b>CONTROL UNIT (X11-344X-XX)</b>				
D18 -24		B30-1290-05	LED(LN2IRCALSX(U)-(TA4))	
C1 -3 C4 ,5 C6 C7 C8 ,9		CE04KW1B331M CF92FV1H124J C90-3222-05 C90-3245-05 CF92FV1H103J	ELECTRO ME ELECTRO ELECTRO ME	
C10 C11 C12 ,13 C14 ,15 C16		C90-3222-05 C90-1627-05 C90-3253-05 CK45FF1H103Z C90-3253-05	ELECTRO BACKUP ELECTRO CERAMIC ELECTRO	
C17 ,18 C19 C20 ,21 C22 ,23		CE04KW1H010M CK45FF1H103Z C91-1439-05 CC45FSL1H221J	ELECTRO CERAMIC FILM CERAMIC	
J1		E08-0312-05	RECTANGULAR RECEPTACLE SYNCHRO	

\* New Parts  
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L:Scandinavia  
Y:Far East, Hawaii  
Y:AFES(Europe)

K:USA  
T:England  
X:Australia

P:Canada  
E:Europe  
M:Other Areas

△ indicates safety critical components

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L:Scandinavia  
Y:Far East, Hawaii  
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K:USA  
T:England  
X:Australia

P:Canada  
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△ indicates safety critical components

# A-1001

## SPECIFICATIONS

(For UK and Europe)

Rated power output

From 20 Hz to 20 kHz, 0.09 % T.H.D.  
at 8 Ω ..... 40 W + 40 W

(DIN) 1 kHz at 8 Ω ..... 45 W + 45 W

(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.  
at 8 Ω ..... 45 W + 45 W

Total harmonic distortion

..... 0.09 % (20 Hz ~ 20 kHz, 20 W, 8 Ω)

..... 0.009 % (1 kHz, 20 W, 8 Ω)

Frequency response

LINE (CD) ..... 10 Hz ~ 80 kHz, +0 dB, -3 dB

Signal to noise ratio

(IHF'66)

LINE (CD) ..... 100 dB

CD DIRECT ..... 103 dB

(DIN)

LINE (CD) ..... 65 dB (50 mW output)

CD DIRECT ..... 65 dB (50 mW output)

Input sensitivity / impedance

LINE (CD) ..... 250 mV / 47 kΩ

ADAPTOR IN ..... 250 mV / 47 kΩ

N.B. CIRCUIT

Variable Frequency ..... 40 Hz ~ 90 Hz

Control range ..... ± 10 dB

Output level / impedance

TAPE REC ..... 200 mV / 270 Ω

ADAPTOR OUT ..... 200 mV / 270 Ω

SUPER WOOFER preout ..... 1.8 V / 600 Ω

### GENERAL

Power consumption ..... 90 W

AC outlet

SWITCHED ..... 1 (250 W max.)

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

H : 136 mm (5 - 3/8")

D : 346 mm (13 - 5/8")

Weight (Net) ..... 7.6 kg (16.7lb)

(For Other countries)

Rated power output

From 20 Hz to 20 kHz, 0.09 % T.H.D.  
at 8 Ω ..... 40 W + 40W

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

at 8 Ω ..... 45 W + 45 W

Total harmonic distortion

..... 0.09 % (20 Hz ~ 20 kHz, 20 W, 8 Ω)

..... 0.009 % (1 kHz, 20 W, 8 Ω)

Frequency response

LINE (CD) ..... 10 Hz ~ 80 kHz, +0 dB, -3 dB

Signal to noise ratio

(IHF'66)

LINE (CD) ..... 100 dB

CD DIRECT ..... 103 dB

Input sensitivity / impedance

LINE (CD) ..... 250 mV / 47 kΩ

ADAPTOR IN ..... 250 mV / 47 kΩ

N.B. CIRCUIT

Variable Frequency ..... 40 Hz ~ 90 Hz

Control range ..... ± 10 dB

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TAPE REC ..... 200 mV / 270 Ω

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SUPER WOOFER preout ..... 1.8 V / 600 Ω

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Dimensions

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

H : 136 mm (5 - 3/8")

D : 346 mm (13 - 5/8")

Weight (Net) ..... 7.6 kg (16.7lb)

**PPHU FOXEL** *Jolanta Palupska*

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

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For this reason specifications may be changed without notice.

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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.