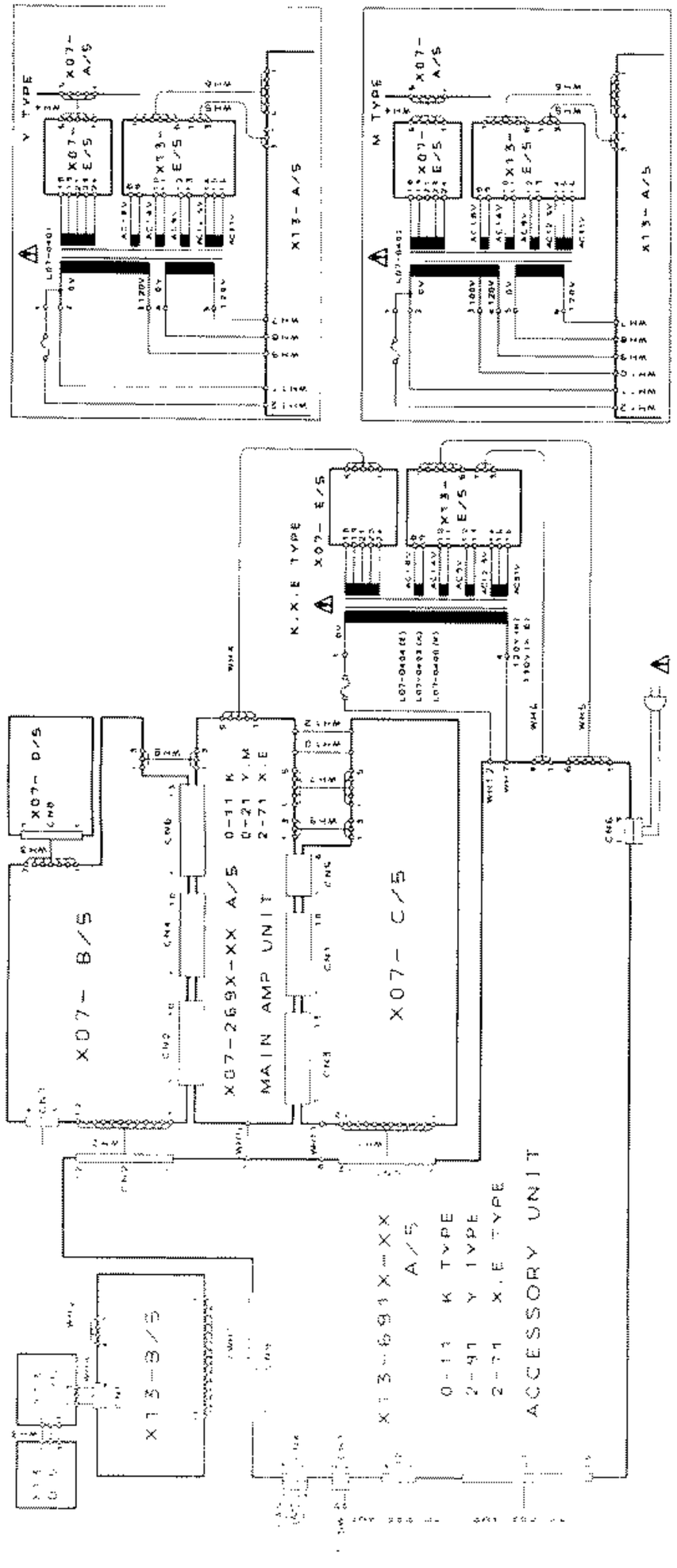
WIRING DIAGRAM



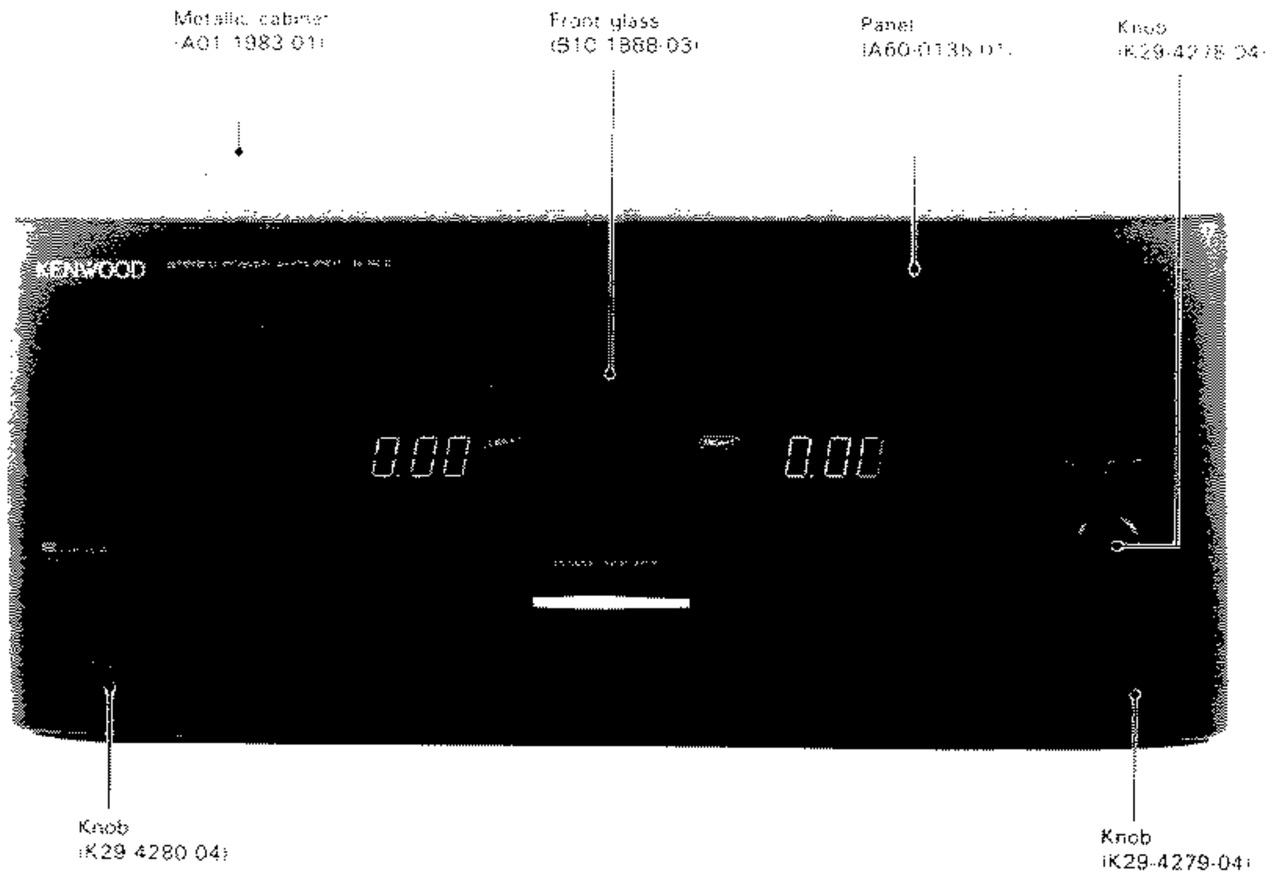
STEREO POWER AMPLIFIER

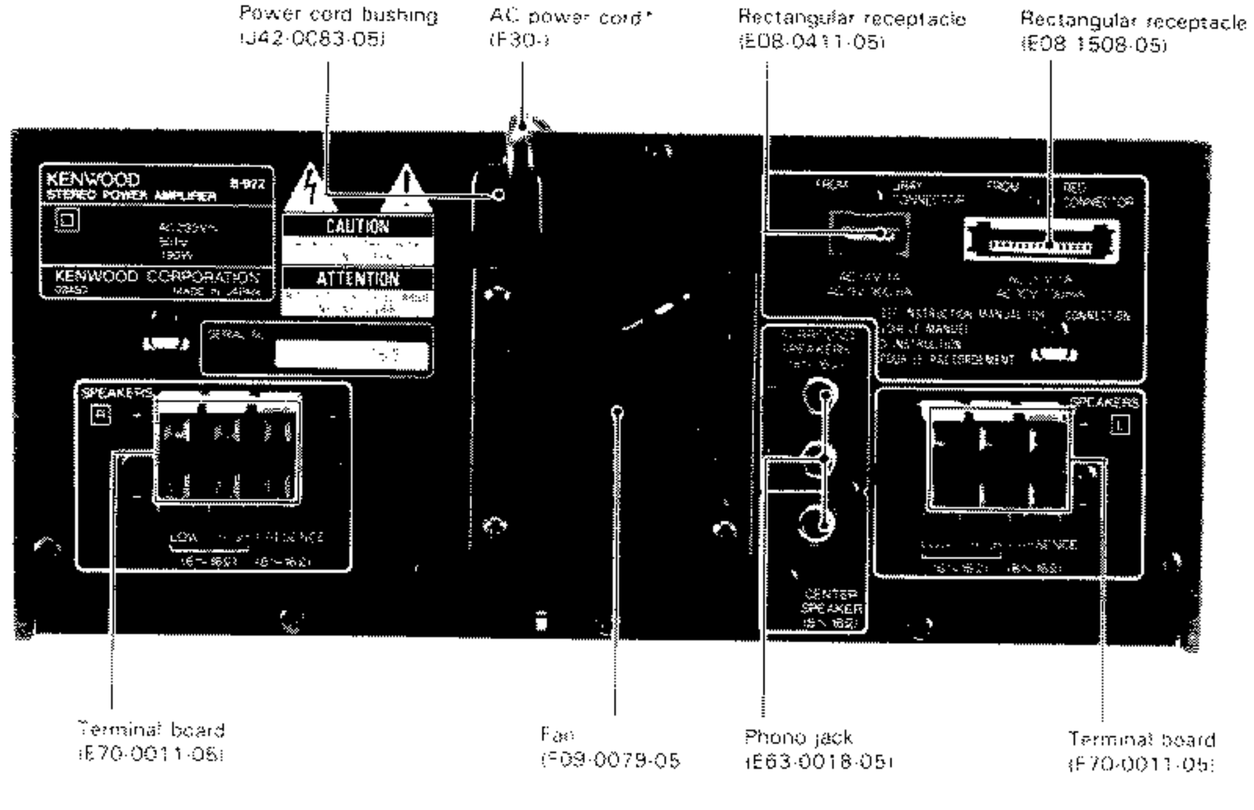
B-922

SERVICE MANUAL

KENWOOD

B51-4387-00(S)2434





· Refer to parts list on page 27.

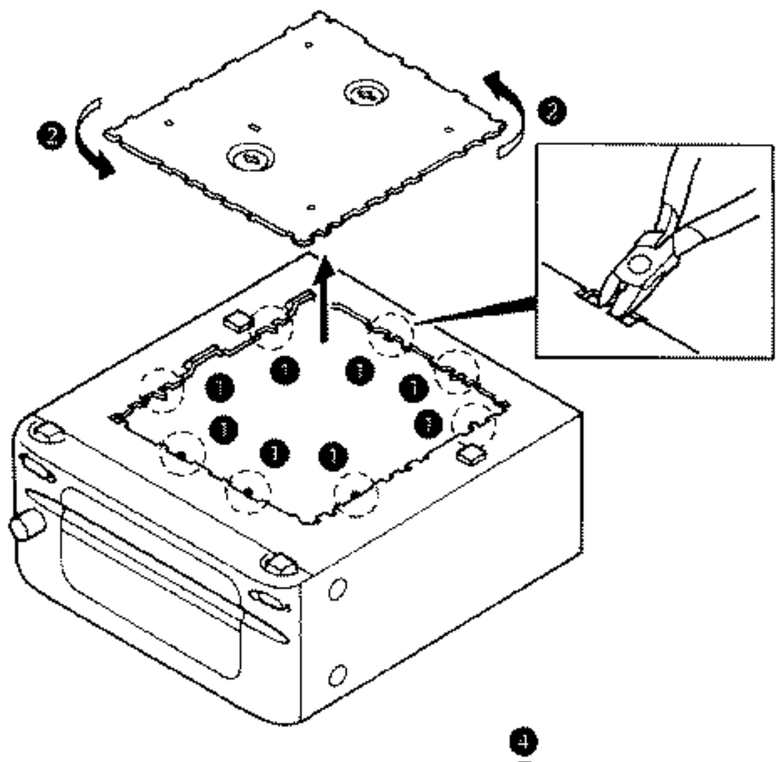
UD-100 series main AMP

CONTENTS

DISASSEMBLY FOR REPAIR

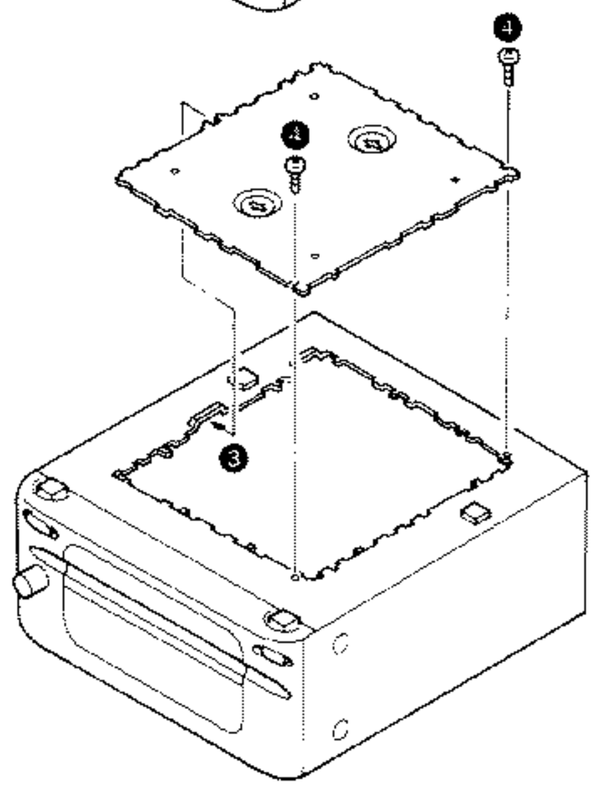
How to remove the repairing chassis

1 Cut the 6 parts ❶ of the repairing chassis. Remove the repairing chassis from main chassis.



After repair

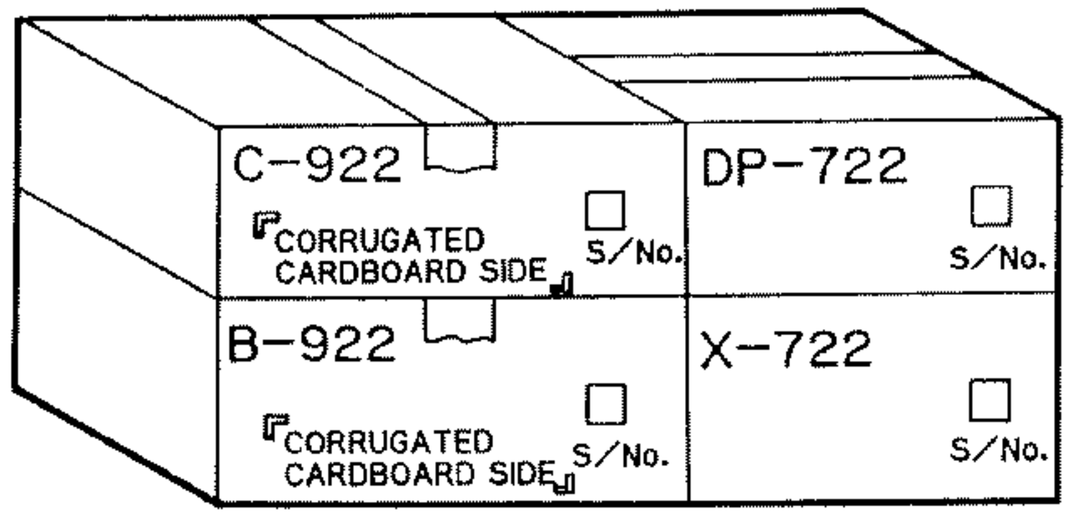
2 Turn the repairing chassis 180 degrees in the arrow direction ❷.
3 Insert the 2 claws ❸ into main chassis.
4 Lock to the main chassis by 2 screws (M3 × 6) ❹



SYSTEM CONFIGURATION

UD 100 Outside BOx		C-922	B-922	DP-722	X-722
H60-0054-04(P,M,Y) H60-0056-04(X) H60-0057-04(K)	Packaging box	H50-0164-04	H50-0166-04	H50-0191-04	H50-0096-04
	Foam material (L)	H10-5203-02	H10-5205-02	H10-5186-02	H10-5153-02
	(R)	H10-5204-02	H10-5206-02	H10-5187-02	H10-5154-02
	Protective bag	H25-0400-04	H25-0397-04	H25-0397-04	H25-0397-04

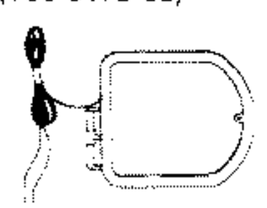
System Packing Diagram



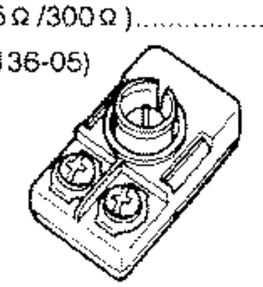
INSTRACTION MANUAL
B60-0597-00 (ENGLISH)
B60-0598-00 (FRENCH)
B60-0600-00 (DUTCH)
B60-0602-00 (CHINESE)
B60-0603-00 (SPANISH)

ACCESSORIES

- AM Loop antenna.....1 (T90-0173-05)

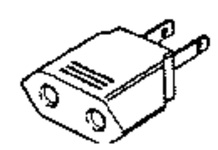


- Antenna adaptor (75Ω/300Ω)..... 1 (T90-0136-05)



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

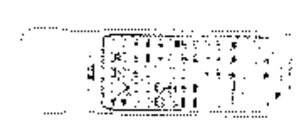
- AC Plug adaptor.....1 (Except for some areas) (E03-0115-05)



- FM Indoor antenna.....1 (T90-0176-05)

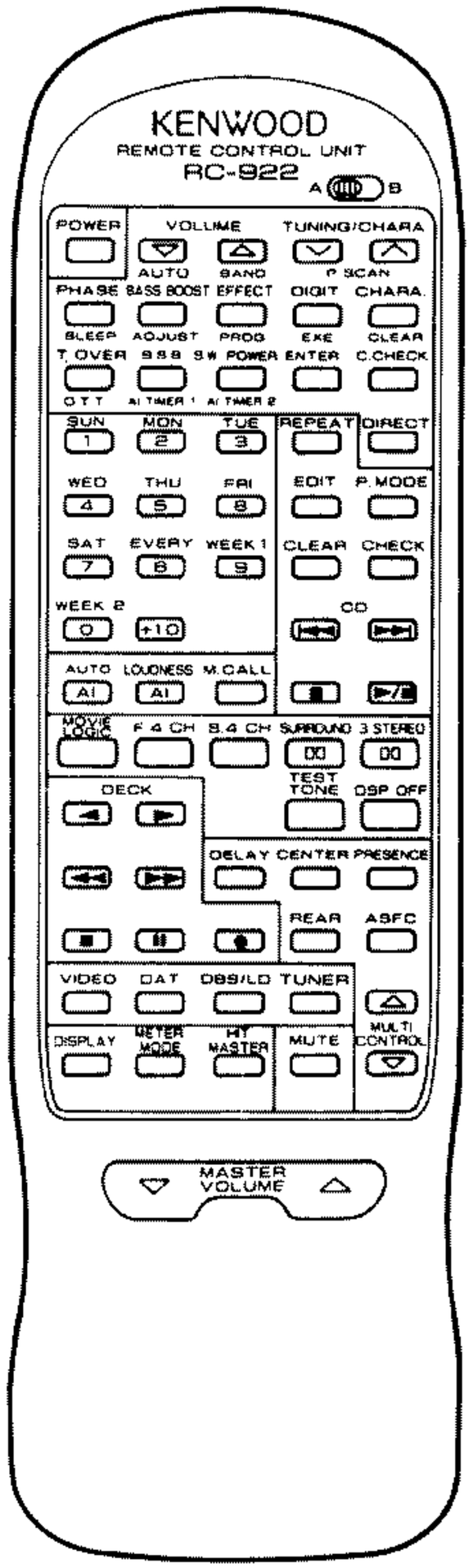
- Batteries (RO3/AAA).....2

- Remote control unit.....1 (X94-1000-31) (BATTERY COVER A09-0115-13)



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

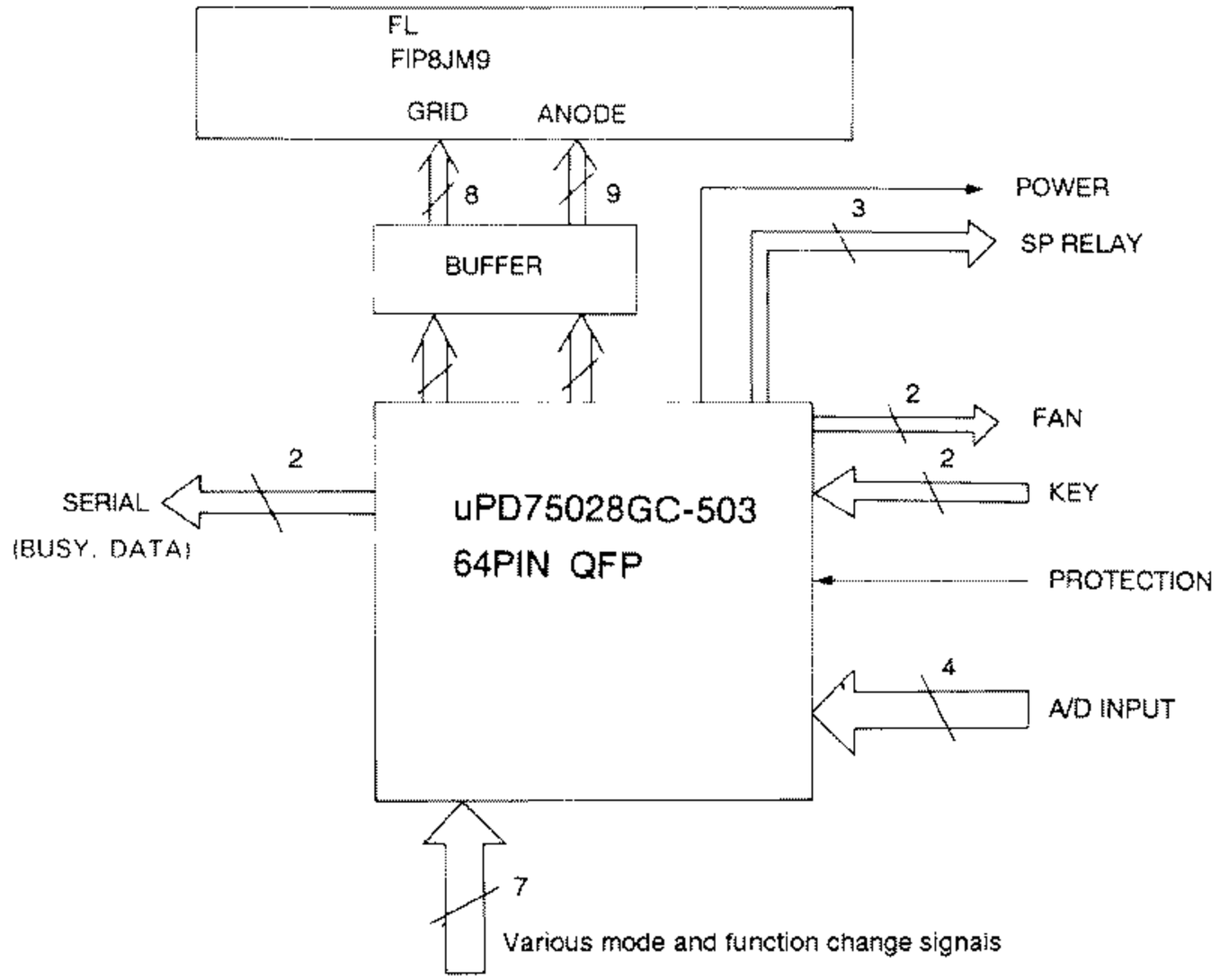
REMOTE CONTROL



Model Name: RC-922
Infrared ray system

CIRCUIT DESCRIPTION

Micro Processor (μPD75028GC-503)
CPU Block Diagram



1. Initial Setup

•POWER	OFF
•INDICATION MODE	Lch — Rch
•RELAY	NORMAL MODE

2. Test Mode

(1) Initiation Method

Apply AC power while depressing the Mode Key.

(2) Cancellation Method (RESET)

Turn AC power OFF.

(3) Verification

- Operates with power ON.
- All FL's should light up (Canceled if any key is depressed).
- Each time the Mode Key is depressed, the SP Mode steps successively from NORMAL to PRESENCE to DOLBY and back to NORMAL.

NORMAL → PRESENCE → DOLBY

The Meter Mode should not change during this operation.

3. Speaker Relay Control

The speaker relay is controlled by the Surround Mode data sent by the Preamplifier.

Relay / Surround Mode	K1 Front LR	K2 Presence	K3 Center Rear
F 4ch (Front DSP 4ch)	ON	ON	OFF
S 4ch	ON	OFF	ON
3 STEREO (DOLBY 3 STEREO)	ON	OFF	ON
PRO LOGIC (DOLBY PRO LOGIC)	ON	OFF	ON
MOVIE LOGIC	ON	ON	OFF
NORMAL (SURROUND OFF)	ON	OFF	OFF
SP OFF (Same as power OFF)	OFF	OFF	OFF

When the PROTECTION signal is enabled, all speaker relays are immediately put into their "OFF" condition.

CIRCUIT DESCRIPTION

4. Pin Description

PIN No	Name	Pin Name	I/O	Description	
1	GRID4	P43	O	FL Grid 4 Drive Signal	H = OFF L = ON
2	GRID3	P42	O	FL Grid 3 Drive Signal	H = OFF L = ON
3	GRID2	P41	O	FL Grid 2 Drive Signal	H = OFF L = ON
4	GRID1	P40	O	FL Grid 1 Drive Signal	H = OFF L = ON
5	SHIMU33	P33	I	Mode Key operation change	H = L = NORMAL
6	SHIMU32	P32	I	Mode Key operation change	H = L = NORMAL
7	SBUSY	P31	I/O	Serial I/O Busy	
8	SDATA	P30	I/O	Serial I/O Data	
9	Vss	Vss		Connected to GND	
10		P03	I	Not Used (Connected to GND)	
11		P02	I	Not Used (Connected to GND)	
12		P01	I	Not Used (Connected to GND)	
13	SHIMUJ	P00	I	Destination Change	H = STBY Disabled L = STBY Enabled
14	SHIMU3	P23	I	Destination Change	H = FAN 80sec L = FAN 1sec
15	SHIMU2	P22	I	Destination Change	H = HOLD 2sec L = 1.8sec
16	SHIMU1	P21	I	Destination Change	H = RENEW 180m L = 300ms
17	SHIMU0	P20	I	Destination Change	H = RANDAM ADD L = NORMAL
18		P103	I	Not Used (Connected to GND)	
19		P102	I	Not Used (Connected to GND)	
20		P101	I	Not Used (Connected to GND)	
21		P100	I	Not Used (Connected to GND)	
22	RESET	RESET	I	Reset input	H = NORMAL L = RESET
23	X1	X1	I	4.19 MHZ Clock	
24	X2	X2	O	4.19 MHZ Clock	
25		IC	—	Connected to VDD	
26	XT1	XT1	I	Connected to GND	
27	XT2	XT2	O	OPEN	
28	Vdd	Vdd	—	Power (Connected to 5V)	
29	AVdd	AVdd	—	A/D Converter Power (Connected to 5V)	
30	AVref +	AVref +	—	A/D Conversion Reference Voltage [+] (Connected to 5V)	
31	AVref −	AVref −	—	A/D Conversion Reference Voltage [−] (Connected to GND)	
32	AN7	AN7	I	Not Used (Connected to GND)	
33	AN6	AN6	I	Not Used (Connected to GND)	
34	AN5	AN5	I	Not Used (Connected to GND)	
35	AN4	AN4	I	Not Used (Connected to GND)	

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CIRCUIT DESCRIPTION

PIN No	Name	Pin Name	I/O	Description	
36	Rlow	AN3	I	Rch Low A/D input	
37	Llow	AN2	I	Lch Low A/D input	
38	Rhigh	AN1	I	Rch HIGH A/D input	
39	Lhigh	AN0	I	Lch HIGH A/D input	
40	AVss	AVss	—	A/D Converter Vss (Connected to GND)	
41	TPOWER	P13	I	Power Key	H = KEY ON L = KEY OFF
42	TMODE	P12	I	Mode Key	H = KEY ON L = KEY OFF
43		P11	I	Not Used (Connected to GND)	
44	PROTECT	P10	I	Protection Detect	H = PROTECT ON L = NORMAL
45	FANONOF	P93	O	Fan ON/OFF	H = OFF L = ON
46	FANHL	P92	O	Fan Speed Change	H = LOW SPEED L = HIGH
47	POWER	P91	O	Power Relay Control	H = POWER ON L = POWER OFF
48	STBY	P90	O	Power Indicator	H = ON L = OFF
49	FRONT	P83	O	Front SP Relay Control	H = ON L = OFF
50	PRESENCE	P82	O	Presence SP Relay Control	H = ON L = OFF
51	DOLBY	P81	O	Center and Rear SP Relay Control	H = ON L = OFF
52	GRID8	P80	O	FL Grid 8 Drive	H = OFF L = ON
53	GRID7	P73	O	FL Grid 7 Drive	H = OFF L = ON
54	GRID6	P72	O	FL Grid 6 Drive	H = OFF L = ON
55	GRID5	P71	O	FL Grid 5 Drive	H = OFF L = ON
56	SGa	P70	O	FL a Segment Drive	H = OFF L = ON
57	SGb	P63	O	FL b Segment Drive	H = OFF L = ON
58	SGc	P62	O	FL c Segment Drive	H = OFF L = ON
59	SGd	P61	O	FL d Segment Drive	H = OFF L = ON
60	SGe	P60	O	FL e Segment Drive	H = OFF L = ON
61	SGf	P53	O	FL f Segment Drive	H = OFF L = ON
62	SGg	P52	O	FL g Segment Drive	H = OFF L = ON
63	SGh	P51	O	FL h Segment Drive	H = OFF L = ON
64	SGi	P50	O	FL i Segment Drive	H = OFF L = ON

CIRCUIT DESCRIPTION

PIN No	Name	Pin Name	I/O	MODE	Description	
51	DOLBY	P81	O		Center and Rear SP Relay Control	H = ON L = OFF
52	GRID8	P80	O		FL Grid 8 Drive	H = OFF L = ON
53	GRID7	P73	O		FL Grid 7 Drive	H = OFF L = ON
54	GRID6	P72	O		FL Grid 6 Drive	H = OFF L = ON
55	GRID5	P71	O		FL Grid 5 Drive	H = OFF L = ON
56	SGa	P70	O		FL a Segment Drive	H = OFF L = ON
57	SGb	P63	O		FL b Segment Drive	H = OFF L = ON
58	SGc	P62	O		FL c Segment Drive	H = OFF L = ON
59	SGd	P61	O		FL d Segment Drive	H = OFF L = ON
60	SGe	P60	O		FL e Segment Drive	H = OFF L = ON
61	SGf	P53	O		FL f Segment Drive	H = OFF L = ON
62	SGg	P52	O		FL g Segment Drive	H = OFF L = ON
63	SGh	P51	O		FL h Segment Drive	H = OFF L = ON
64	SGi	P50	O		FL i Segment Drive	H = OFF L = ON

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CIRCUIT DESCRIPTION

Conversion Chart for A/D Reference Points to Output Power

A/D	Output (W)	A/D	Output (W)	A/D	Output (W)	A/D	Output (W)	A/D	Output (W)
0	0.00	33	0.39	66	6.27	99	25.15	CC	53.98
1	0.00	34	0.42	67	6.43	9A	25.64	CD	54.02
2	0.00	35	0.43	68	6.79	9B	26.17	CE	54.70
3	0.01	36	0.45	69	6.94	9C	26.79	CF	55.31
4	0.02	37	0.48	6A	7.22	9D	27.23	D0	55.83
5	0.03	38	0.50	6B	7.56	9E	27.80	D1	56.29
6	0.03	39	0.51	6C	7.71	9F	28.21	D2	56.74
7	0.03	3A	0.60	6D	7.95	A0	28.99	D3	57.75
8	0.04	3B	0.64	6E	8.28	A1	29.42	D4	58.28
9	0.04	3C	0.68	6F	8.49	A2	30.18	D5	58.81
A	0.04	3D	0.76	70	8.60	A3	30.57	D6	59.42
B	0.05	3E	0.78	71	8.83	A4	31.17	D7	60.00
C	0.05	3F	0.81	72	9.17	A5	31.64	D8	60.87
D	0.06	40	0.89	73	9.64	A6	32.03	D9	61.65
E	0.06	41	0.94	74	9.89	A7	32.75	DA	62.13
F	0.07	42	1.01	75	10.31	A8	33.31	DB	62.86
10	0.07	43	1.06	76	10.76	A9	33.86	DC	63.71
11	0.07	44	1.18	77	10.98	AA	34.19	DD	64.04
12	0.08	45	1.27	78	11.13	AB	34.90	DE	64.79
13	0.08	46	1.36	79	11.65	AC	35.32	DF	65.27
14	0.09	47	1.44	7A	12.02	AD	35.81	E0	65.99
15	0.09	48	1.50	7B	12.54	AE	36.27	E1	66.43
16	0.10	49	1.59	7C	13.14	AF	36.80	E2	66.95
17	0.10	4A	1.68	7D	13.67	B0	37.35	E3	67.61
18	0.10	4B	1.73	7E	13.96	B1	37.84	E4	68.10
19	0.11	4C	1.86	7F	14.49	B2	38.43	E5	68.84
1A	0.11	4D	2.02	80	15.13	B3	38.99	E6	69.62
1B	0.12	4E	2.11	81	15.13	B4	39.52	E7	70.45
1C	0.13	4F	2.27	82	15.31	B5	40.01	E8	71.28
1D	0.13	50	2.46	83	15.52	B6	40.87	E9	72.11
1E	0.14	51	2.52	84	15.84	B7	41.20	EA	72.94
1F	0.14	52	2.59	85	16.19	B8	41.85	EB	73.77
20	0.15	53	2.67	86	16.65	B9	42.36	EC	74.60
21	0.15	54	2.83	87	17.18	BA	43.11	ED	75.43
22	0.16	55	3.08	88	17.33	BB	43.84	EE	76.26
23	0.17	56	3.24	89	17.77	BC	44.43	EF	77.09
24	0.17	57	3.31	8A	18.40	BD	44.99	F0	77.92
25	0.18	58	3.43	8B	18.92	BE	45.12	F1	78.75
26	0.19	59	3.58	8C	19.21	BF	46.08	F2	79.58
27	0.21	5A	3.66	8D	19.76	C0	46.87	F3	80.41
28	0.21	5B	3.84	8E	20.04	C1	47.01	F4	81.24
29	0.22	5C	4.02	8F	20.55	C2	47.65	F5	82.07
2A	0.23	5D	4.25	90	21.19	C3	48.09	F6	82.90
2B	0.24	5E	4.47	91	21.87	C4	49.10	F7	83.73
2C	0.26	5F	4.59	92	21.93	C5	49.84	F8	84.56
2D	0.27	60	4.74	93	22.10	C6	50.43	F9	85.39
2E	0.28	61	4.99	94	22.65	C7	51.18	FA	86.22
2F	0.31	62	5.21	95	23.26	C8	51.86	FB	87.05
30	0.33	63	5.53	96	23.78	C9	52.21	FC	87.88
31	0.34	64	5.87	97	24.01	CA	52.97	FD	90.00
32	0.36	65	6.10	98	24.52	CB	53.65	FF, FE	99.99

CIRCUIT DESCRIPTION

Fan Control Circuit (X 13—6910—00)

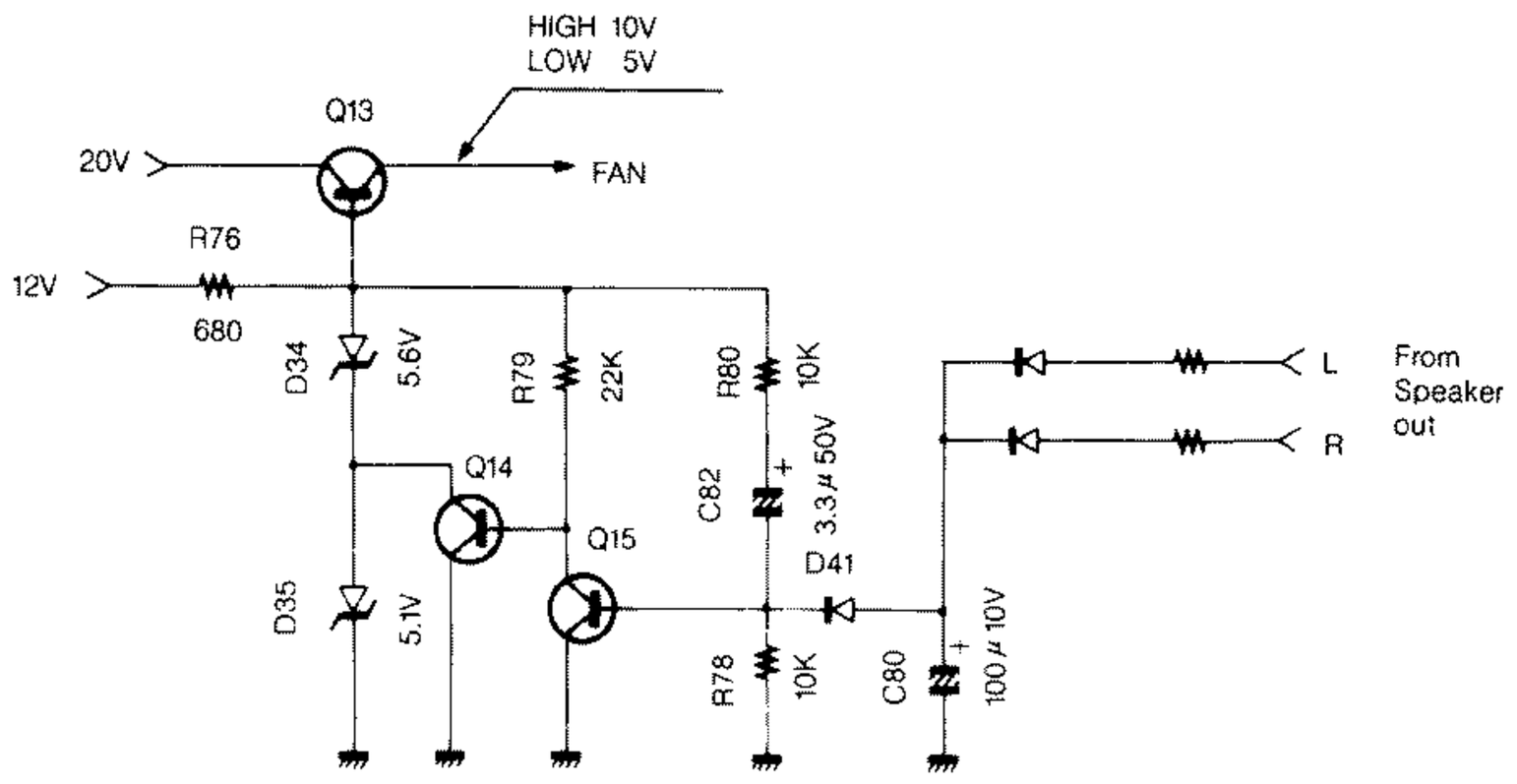
The circuit monitors and detects changes in the amplifier Speaker OUT lines and controls the voltage provided to the fan, enabling the fan to rotate at either one of two speeds, low or high.

When AC power is supplied to the amplifier and the power switch is in the OFF position, Q13 has 20 volts on it's collector but since the 12 volt bias voltage through R76 to the base is not yet available, Q13 is cutoff. This causes the output to the fan is be ZERO volts and the fan does not rotate.

Turning the power switch ON, produces 12 volts and through the timing action of RC network, R78 and C82, turns Q15 ON and Q14 OFF, for 100 msec. This in turn provides the fan with an initial "HIGH" starting voltage. After the initial 100 msec, Q15 turns OFF and Q14 turns ON, providing a LOW output from Q13, causing the fan to rotate at it's low speed. At the same time that the power switch is turned ON, the amplifier Speaker Out Signal activates.

If the Speaker Out Signal exceeds constantly the set power output detection cut-off voltage point of 1W, then Q15 turns ON and Q14 turns OFF, resulting in a HIGH output from Q13, causing the fan to rotate at it's high speed.

When the amplifier Speaker Out Signal drops back down below the detection voltage point (over the output power all ways IW point), Q15 turns OFF and Q14 turns ON, causing Q13 to output a LOW and the fan rotates at it's low speed once again.



ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO							
2	IDLE CURRENT (Low amp)	-	Connect a DC Volt Meter between pins 1 & 2 of CN9 (TP1) and CN10 (TP2)	VOLUME: 0	VR3 (L) VR4 (R)	2.7 mV	(a)
3	IDLE CURRENT (Hi amp)		Connect a DC Volt Meter between pins 3 & 4 of CN9 (TP1) and CN10 (TP2)	VOLUME: 0	VR5 (L) VR6 (R)	6.6 mV	(a)

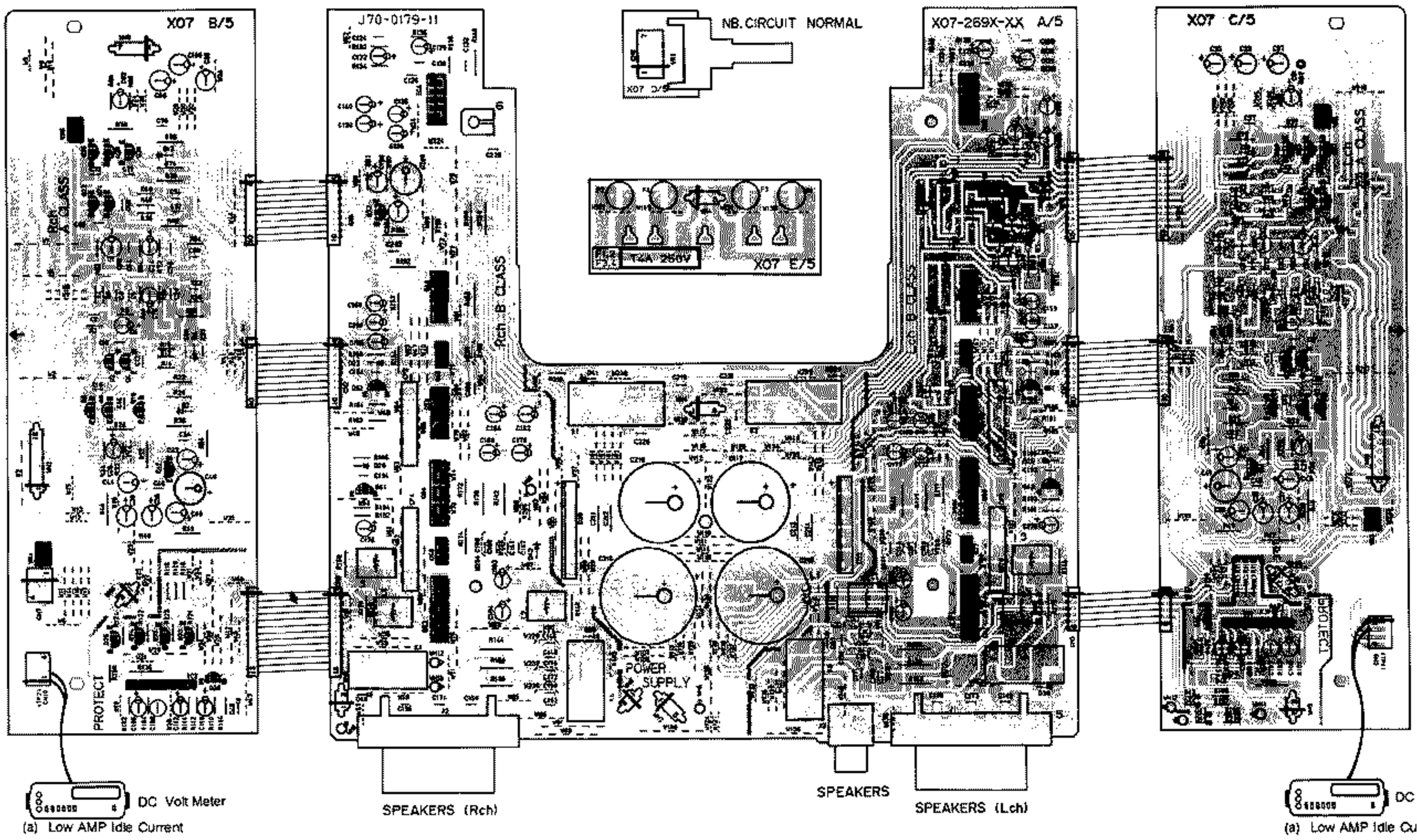
REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
Sauf indicationcontraire, régler comme suit les commandes respectives: POWER:ON SPEAKER: B REC OUT: OFF SELECTOR:PHONO							
2	COURANT DE POLARI-SATION (Amp bas)	-	Connecter un voltmètre CC entre les broches 1 et 2 de CN9 (TP1) et CN10 (TP2).	VOLUME: 0	VR3 (L) VR4 (R)	2,7 mV	(a)
3	COURANT DE POLARI-SATION (Amp haut)		Connecter un voltmètre CC entre les broches 3 et 4 de CN9 (TP1) et CN10 (TP2).	VOLUME: 0	VR5 (L) VR6 (R)	6,6 mV	(a)

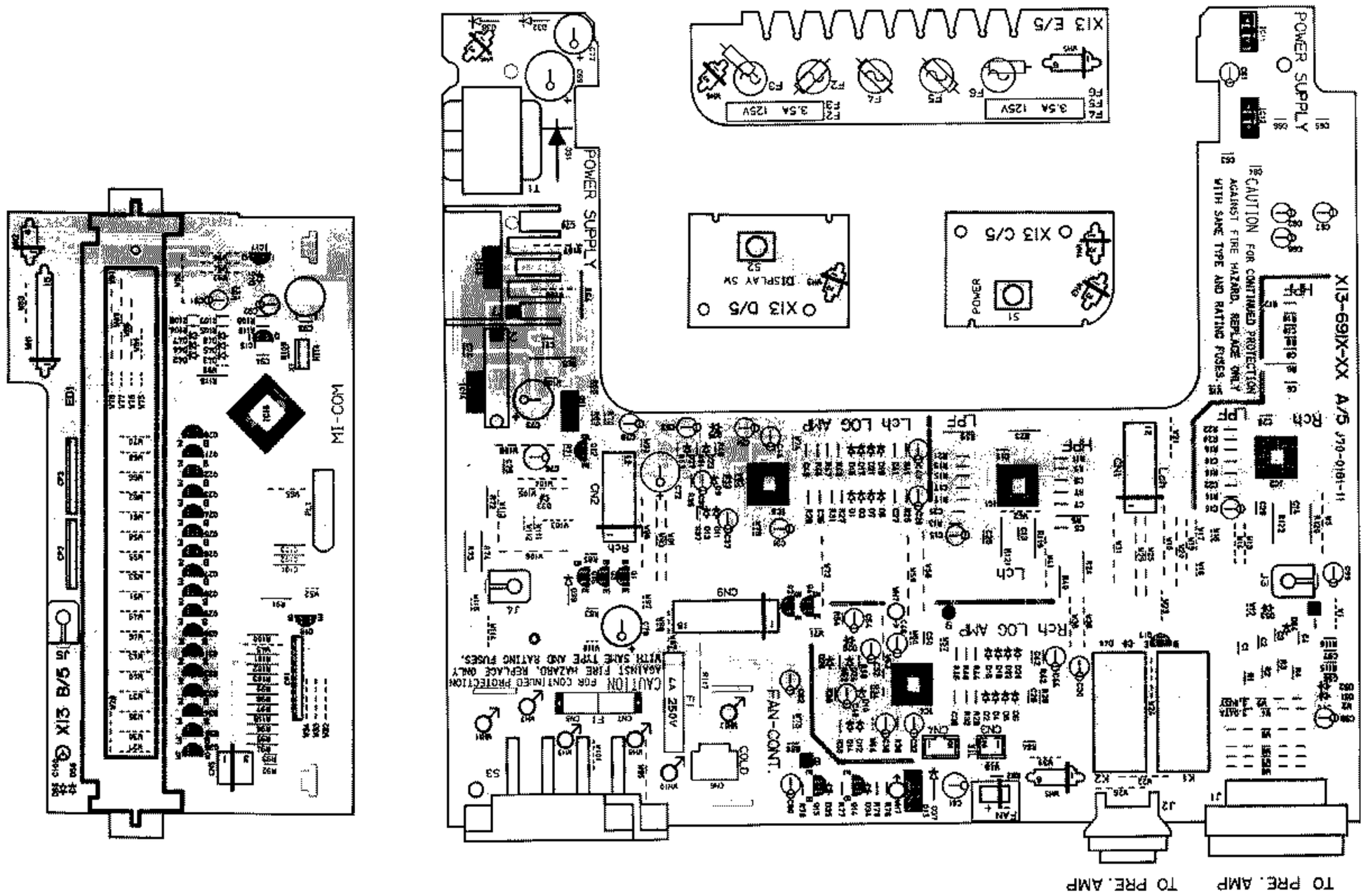
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FUR	ABB.
Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: POWER: ON SPEAKER: B REC OUT: OFF SELECTER: PHONO							
2	LEERLAUFSTROM (Niederfrequenz verstärker)	-	Einen Gleichs-pannungsmes-ser zwischen Pin 1 u. 2 von CN9 (TP1) und CN10 (TP2) schließen	VOLUME: 0	VR3 (L) VR4 (R)	2,7 mV	(a)
3	LEERLAUFSTROM (Hochfrequenz-verstärker)		Einen Gleichs-pannungsmes-ser zwischen Pin 3 u. 4 von CN9 (TP1) und CN10 (TP2) schließen	VOLUME: 0	VR5 (L) VR6 (R)	6,6 mV	(a)

PC BOARD (Component side view)



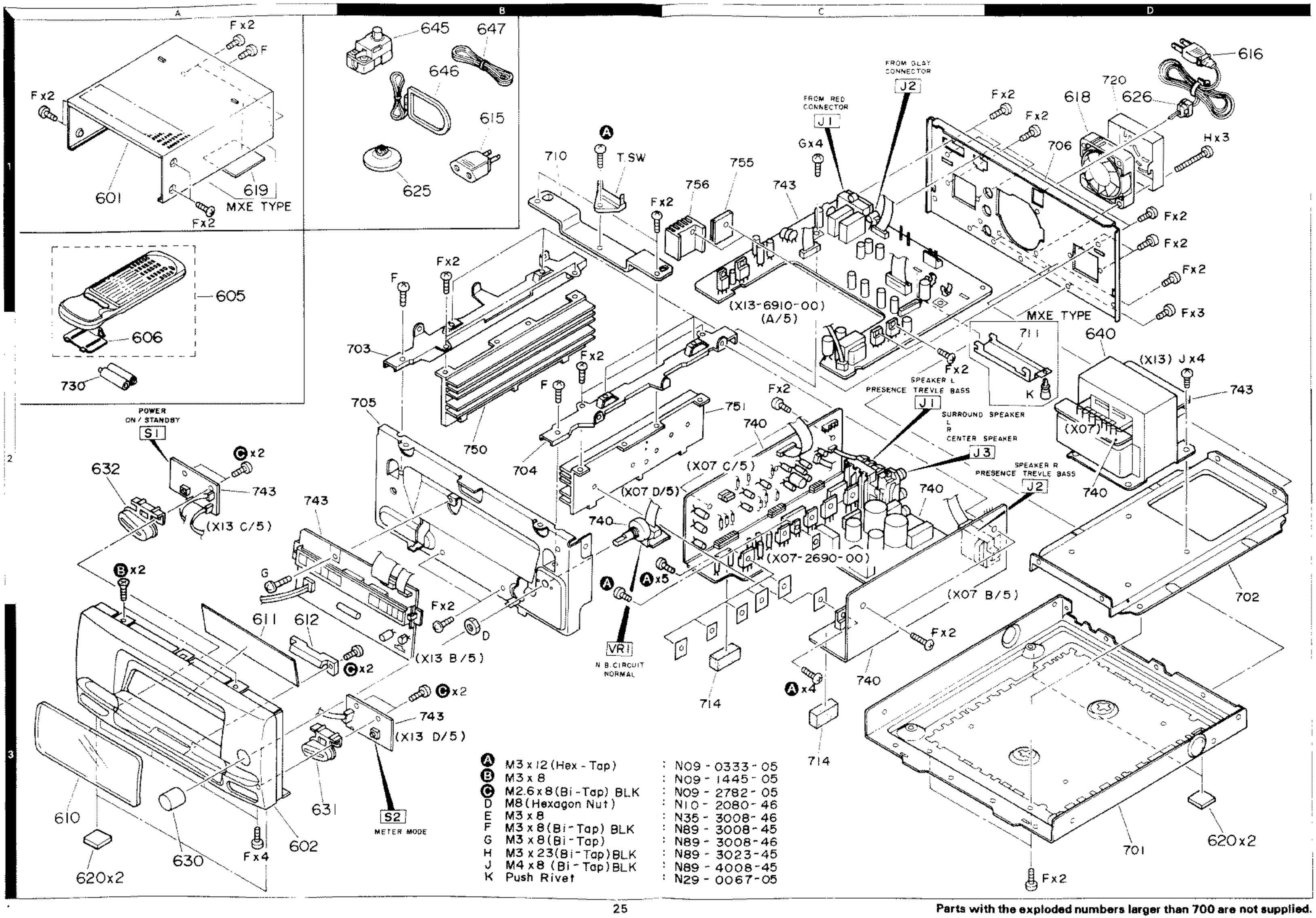
Refer to the schematic diagram for the values of resistors and capacitors



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

PC BOARD (Component side view)

B-922 B-922
EXPLODED VIEW (UNIT)



A	M3 x 12 (Hex - Tap)	:	N09 - 0333 - 05
B	M3 x 8	:	N09 - 1445 - 05
C	M2.6 x 8 (Bi - Tap) BLK	:	N09 - 2782 - 05
D	M8 (Hexagon Nut)	:	N10 - 2080 - 46
E	M3 x 8	:	N35 - 3008 - 46
F	M3 x 8 (Bi - Tap) BLK	:	N89 - 3008 - 45
G	M3 x 8 (Bi - Tap)	:	N89 - 3008 - 46
H	M3 x 23 (Bi - Tap) BLK	:	N89 - 3023 - 45
J	M4 x 8 (Bi - Tap) BLK	:	N89 - 4008 - 45
K	Push Rivet	:	N29 - 0067 - 05

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

(X13-691X-XX) (A/5)

(X13-691X-XX) (B/5)

TO PRE. AMP

TO PRE. AMP

HIGH PASS FILTER

LOW PASS FILTER

HIGH PASS FILTER

LOW PASS FILTER

LEVEL DISPLAY AMP

FAN MOTER DRIVE

HIGH 10V
LOW 5V

POWER>1W=HIGH
POWER<1W=LOW

SCREW EARTH

SCREW EARTH

CHECK IN

FAN

2SA954
2SA922
2SC1845
2SC2631
2SC3246

2SD1266

2SB1493*5
2SD2255*5

DTA124ES
UN4112
2SA933S
2SC1740S

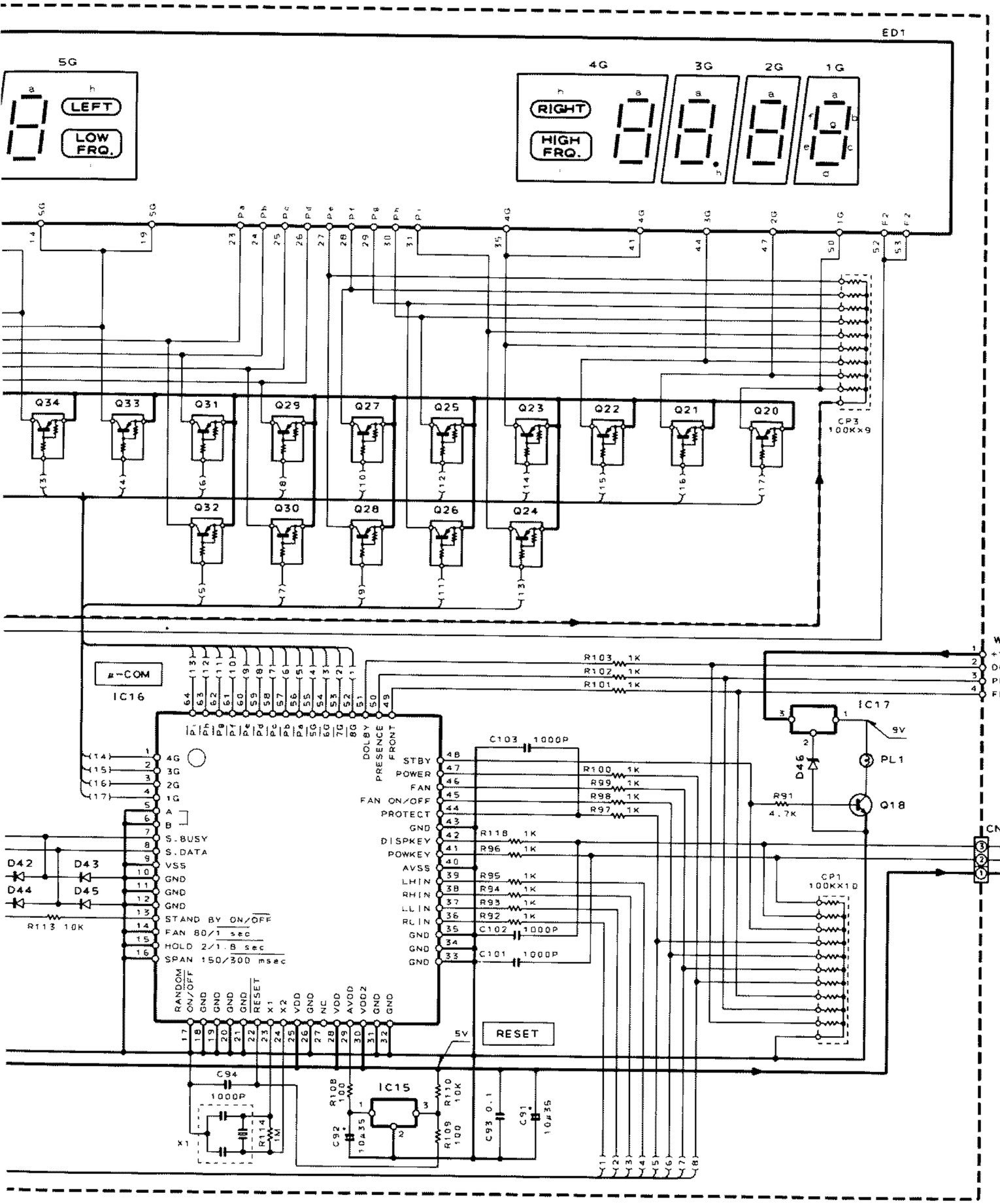
2SC4137

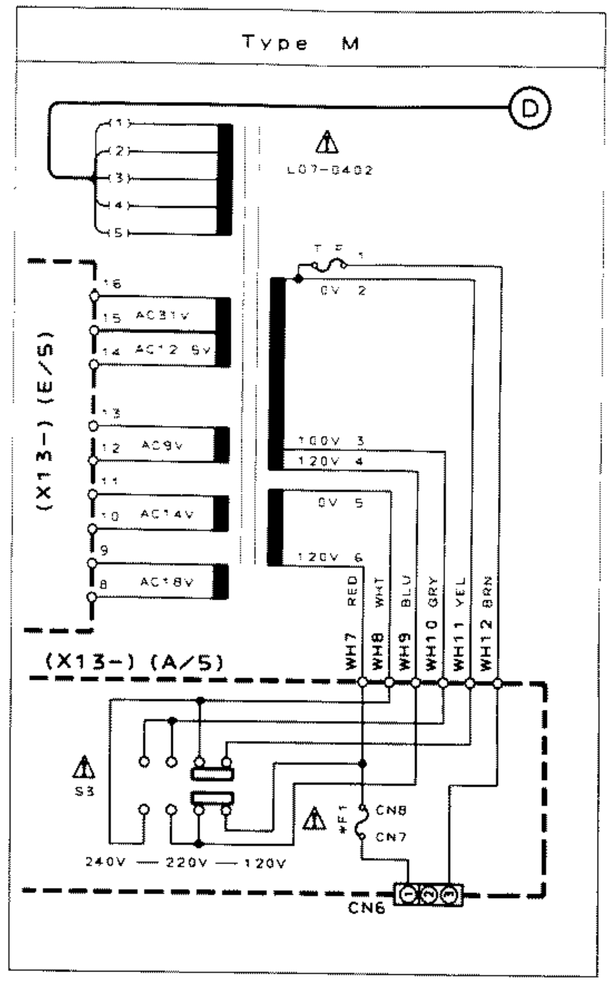
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or and units.

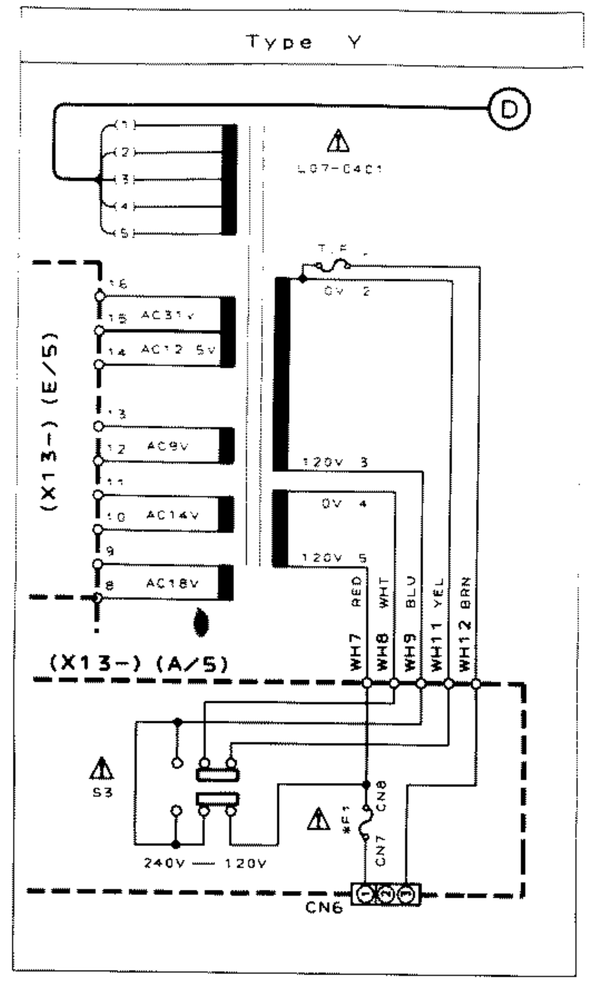
Les tensions c c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

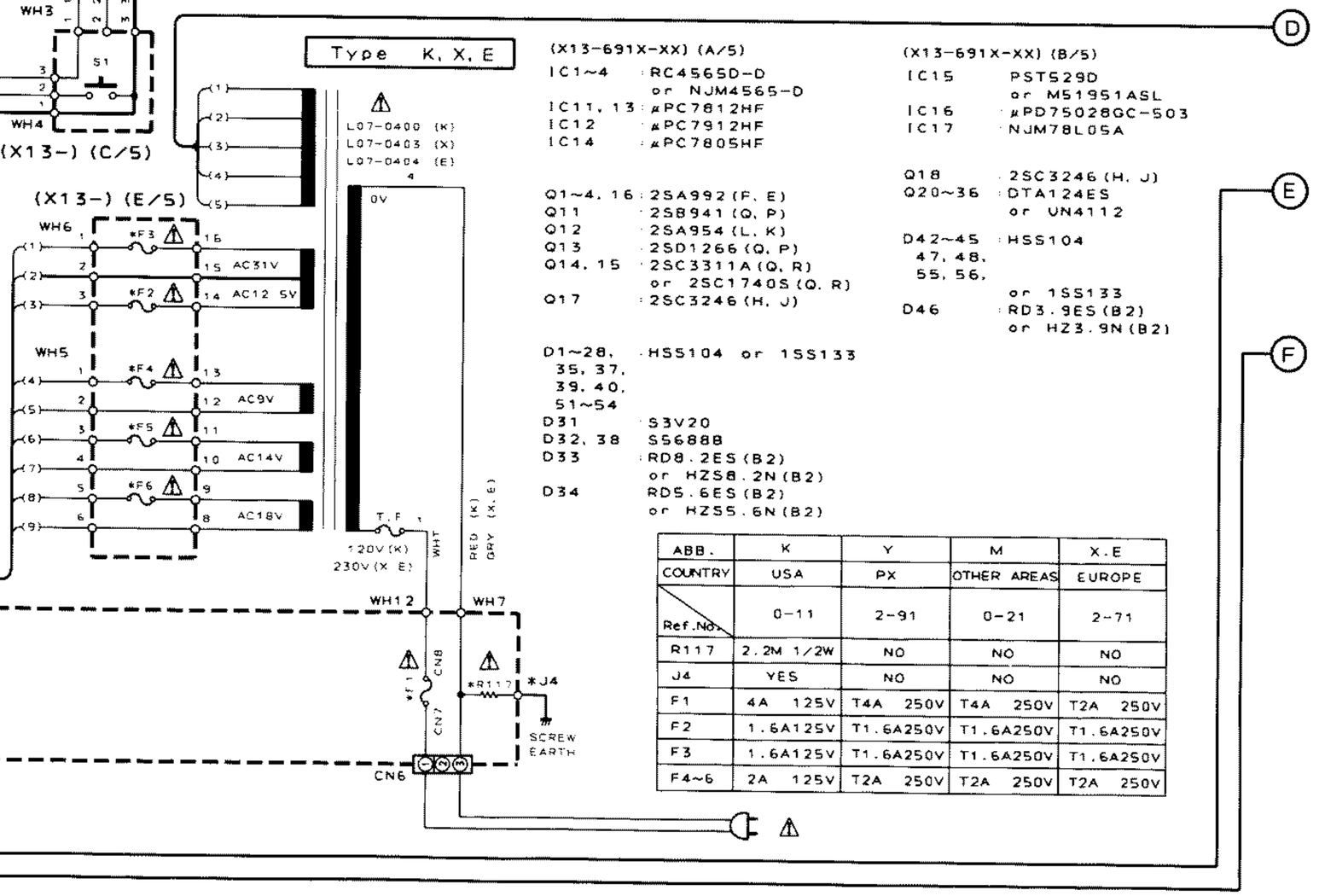
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

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.









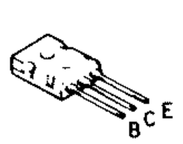
(X13-691X-XX) (A/5)

IC1~4	RC4565D-D or NJM4565-D
IC11, 13	μPC7812HF
IC12	μPC7912HF
IC14	μPC7805HF
Q1~4, 16	2SA992 (F, E)
Q11	2SB941 (Q, P)
Q12	2SA954 (L, K)
Q13	2SD1266 (Q, P)
Q14, 15	2SC3311A (Q, R) or 2SC1740S (Q, R)
Q17	2SC3246 (H, J)
D1~28, 35, 37, 39, 40, 51~54	HSS104 or 1SS133
D31	S3V20
D32, 38	S56888
D33	RD8.2ES (B2) or HZS8.2N (B2)
D34	RD5.6ES (B2) or HZS5.6N (B2)

(X13-691X-XX) (B/5)

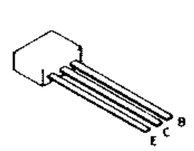
IC15	PST529D or M51951ASL
IC16	μPD75028GC-503
IC17	NJM78L05A
Q18	2SC3246 (H, J)
Q20~36	DTA124ES or UN4112
D42~45, 47, 48, 55, 56,	HSS104 or 1SS133
D46	RD3.9ES (B2) or HZ3.9N (B2)

ABB.	K	Y	M	X, E
COUNTRY	USA	PX	OTHER AREAS	EUROPE
Ref.No.	0~11	2~91	0~21	2~71
R117	2.2M 1/2W	NO	NO	NO
J4	YES	NO	NO	NO
F1	4A 125V	T4A 250V	T4A 250V	T2A 250V
F2	1.6A125V	T1.6A250V	T1.6A250V	T1.6A250V
F3	1.6A125V	T1.6A250V	T1.6A250V	T1.6A250V
F4~6	2A 125V	T2A 250V	T2A 250V	T2A 250V

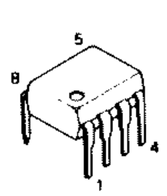


2SB1502*5
2SD2275*5

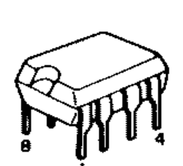
2SB941



2SA1309A
2SC3311A

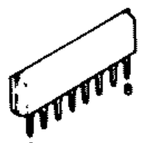


NJM4565D-D

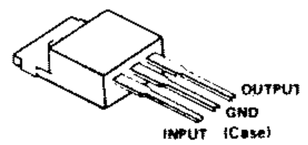


RC4565D-D

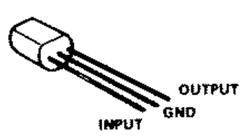
SIGNAL LINE
GND LINE
+B LINE
-B LINE



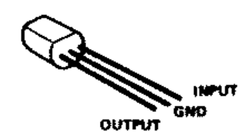
UPC1237HA



μPC7805HF
μPC7812HF



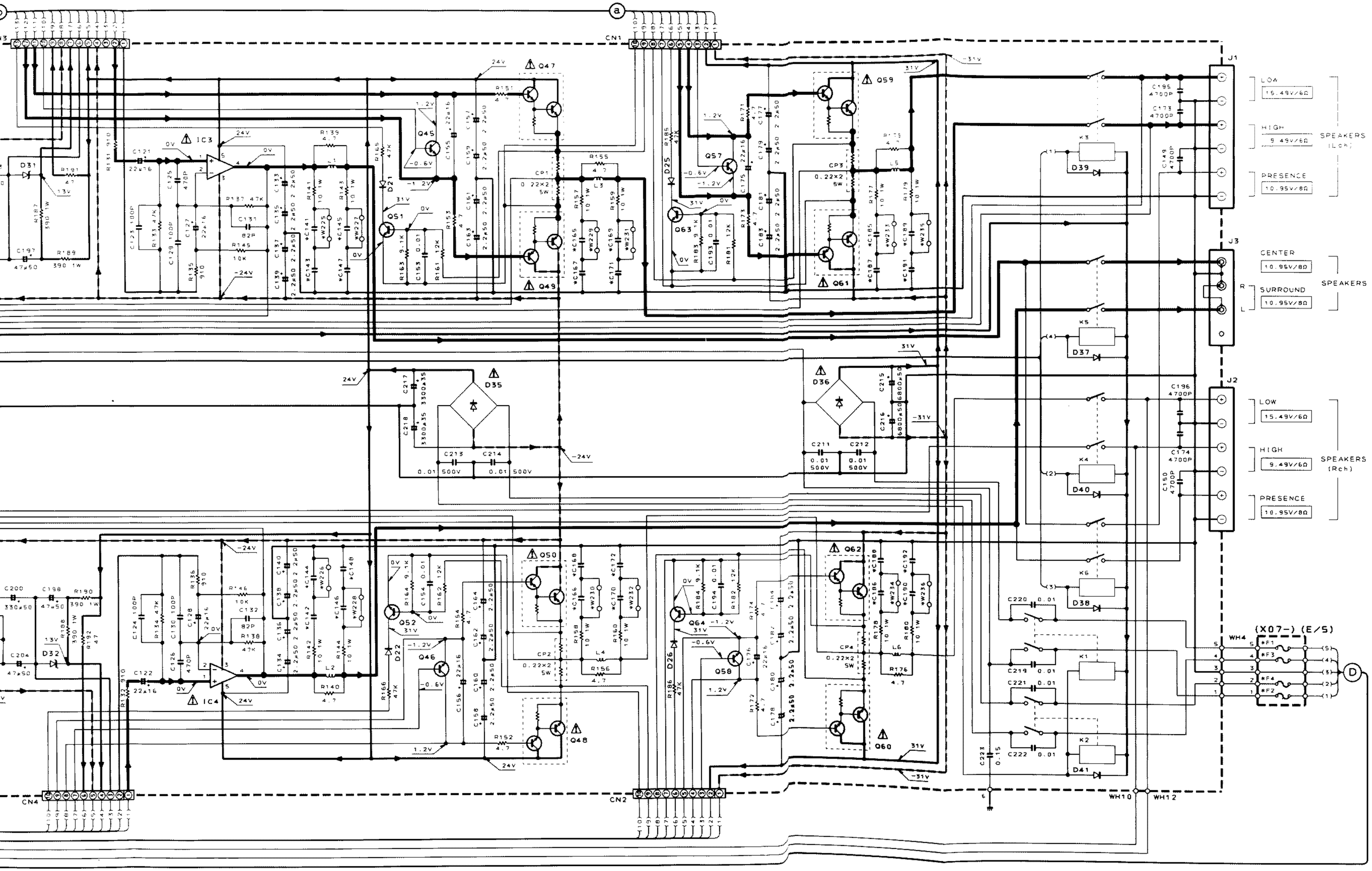
M51951ASL
PST529D



NJM78L05A

UPC7912HF

B-922



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.

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1237HA	Q11, 12,	2SA1309A (Q, R)
18752	71, 72	or 2SA933S (Q, R)
	Q45, 46,	
	57, 58	2SC4137
	Q47, 48	2SD2255*5
	Q49, 50	2SB1493*5
	Q51, 52,	
	63, 64	2SC2631 (R, S)
992 (F, E)	Q59, 60	2SD2275*5
1845 (F, E)	Q61, 62	2SB1502*5
	Q73~76	2SC3246 (H, J)

D1, 2,	
11, 12,	
45, 46	HSS104A or 1SS133
D3, 4	RD15JS(B) or HZS15S(B)
D21, 22,	HSS140A or 1SS131
25, 26,	
37~41,	
43, 44,	
47, 48	
D31, 32	RD13ES(B2) or HZS13N(B2)
D35, 36	D5SBA20F03

Ref. No. / DESTINATION		F1~4	W225~236	C141 144 145 146	C142 143 147 148	C165 166 169 170	C167 168 171 172	C185 186 189 190	C187 188 191 192
0-11	K	4A 125V	YES	NO	0.1μ	NO	0.1μ	NO	0.1μ
0-21	Y, M	T4A 250V	NO	0.22μ	0.22μ	0.22μ	0.22μ	0.22μ	0.22μ
2-71	X, E	T4A 250V	NO	0.22μ	0.22μ	0.22μ			

SURROUND MODE	SPEAKER RELAY FRONT (LOW & HI)	SURROUND & CENTER	PRESENCE
F 4ch	ON	OFF	ON
S 4ch	ON	ON	OFF
3 STEREO	ON	ON	OFF
PRO LOGIC	ON	ON	OFF
MOVIE LOGIC	ON	OFF	ON
NORMAL	ON	OFF	OFF
SP OFF	OFF	OFF	OFF

SIGNAL LINE
GND LINE
+B LINE
-B LINE

(X07-269X-XX) (C/5)

(X07-269X-XX) (B/5)

(X07-269X-XX) (A/5)

CN9 (TP1)

CN10 (TP2)

WH1
NBC(+)
NBC(-)
LOW L
GND
HI L
GND
C L
GND
FILTER G
-24V
GND
+24V

WH2
GND
LOW R
GND
HI R
GND
C R
NBC(-)
NBC(+)
A.COM
+12V
POWER
PROTECT

CN7
+12V
DOLBY
PRESENCE
FRONT

WH11

WH12

WH10

WH9

WH7

WH3

WH8

WH5

WH6

CN1

CN2

CN3

CN4

CN5

CN6

CN8

(X07-) (D/5)

IC1

IC2

PROTECTION

OVER LOAD DET

OFFSET VOL. DET.

FLIP-FLOP

VCC ON MUTE

AC OFF DET

AUTO RECOVERY LATCH SW

RELAY DRIVER

Q35 Q36 Q73 Q74 Q75 Q76

D45 D46 D47 D48

RELAY ON 4V
RELAY OFF 0V

IC1, 2	μPC1237HA	Q11, 1
IC3, 4	SI-18752	71, 7
		Q45, 4
		57, 5
Q1~4,		Q47, 4
9, 10,		Q49, 5
21~24,		Q51, 5
29, 30,		63, 6
35, 36	2SA992 (F, E)	Q59, 6
Q5~8,		Q61, 6
25~28	2SC1845 (F, E)	Q73~7

SPECIFICATIONS

(For U.S.A. and other country)
Power Amplifier unit (B-922)
Ratwd power output
For the U.S.A. and Canada
(LOW)

37 watts per channel minimum RMS , both Cannels driven, at 6 Ω from 40 Hz to 400 Hz with no more than 0.08% total harmonic distortion

(HIGH)

20 watts per channel minimum RMS, both Cannels driven , at 6 Ω from 400 Hz to 20,000 Hz with no more than 0.08 % total harmonic distortion

For other countries
(IHF' 66) From 40 Hz to 400 Hz , 0.08 % T.H.D.
at 6 Ω [LOW] ..... 40 W + 40 W
From 400 Hz to 20 kHz , 0.08 % T.H.D.
at 6 Ω [HIGH] ..... 25 W + 25 W
(IEC/NF)
From 63 Hz to 400 Hz , 0.7 % T.H.D.
[LOW] ... 35 W + 35 W (at 8 Ω)
... 40 W + 40 W (at 6 Ω)
From 400 Hz to 12,500 Hz, 0.7 % T.H.D.
[HIGH] ... 20 W +20 W (at 8 Ω)
... 25 W + 25 W (at 6 Ω)
Presence 1 kHz at 8 Ω ..... 20 W + 20 W
Total harmonic distortion
..... 0.08 % (40 Hz~ 20 kHz Rated power 6 Ω)
..... 0.005 % 1 kHz , Rated power 6Ω)
Frequency response
..... 40 Hz ~ 70 kHz , + 0 dB , -3 dB
Signal to noise ratio
..... 105 dB (IHF' 66) / 90 dB (IHF' 78)

N.B. circuit (-30 dB Volume level) ..... + 13 dB
(at 60 Hz)

[General]
Power comsumption ..... 190 W
Dimensions ..... W : 270 mm (10-5/8")
H : 120 mm (4-3/4")
D : 330 mm (13 ")
Weight (net) .....7.8 kg (17.2 lb)

(For U.K. and Europe)
Rated power output
(IEC / NF)
From 63 Hz to 400 Hz , 0.7 % T.H.D.
[LOW] ..... 35 W + 35 W (at 8Ω)
..... 40 W + 40 W (at 6Ω)
From 400 Hz to 12,500 Hz , 0.7 % T.H.D.
[HIGH] ..... 20 W + 20 W (at 8 Ω)
..... 25 W + 25 W (at 6 Ω)
(DIN)
1 kHz at 8 Ω ..... 35 W + 35 W (LOW)
..... 20 W + 20 W (HIGH)
1 kHz at 6Ω ..... 40 W + 40 W (LOW)
..... 25 W + 25 W (HIGH)
Presence
1 kHz at 8 Ω ..... 20 W + 20 W
Total harmonic distortion
..... 0.08 % (40 Hz~ 20 kHz , Rated power 6 Ω)
..... 0.005 % (1 kHz , Rated power 6 Ω)
Frequency response
..... 40 Hz ~ 70 kHz , + 0 dB , - 3 dB
Signal to noise ratio
..... 105 dB (IHF '66)/ 90 dB (IHF '78)

N.B. circuit (- 30 dB Volume level)..... +13 dB
(at 60 Hz)

[General]
Power consumption .....190 W
Dimensions ..... W : 270 mm (10- 5/8")
H : 120 mm (4-3/4")
D : 330 mm (13 ")
Weight (net) ..... 7.8 kg (17.2 lb

KENWOOD CORPORATION
Shohogi Shibuya Building, 17-5 2-chome Shibuya Shibuya-ku Tokyo 150 Japan

KENWOOD U.S.A. CORPORATION
2201 East Dominguez Street Long Beach CA 90810
550 Clark Drive Mount Olive NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC
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KENWOOD LINEAR S.p.A.
20125, MILANO-VIA ARBE 50 ITALY

KENWOOD ELECTRONICS AUSTRALIA PTY LTD INCORPORATED IN N.S.W.
P.O. Box 504 8 Figtree Drive, Australia Centre, Homebush N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD
Wang Kee Building 4th Floor, 34-37, Connaught Road Central Hong Kong

B-922

× New Parts
Parts without Parts No. are not supplied
Les articles non mentionnés dans la 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	Destination (仕向)	Remarks (備考)
CP1			R90-0802-05	MULTI-COMP 100KX10 J 1/4W		
CP2			R90-0492-05	MULTI-COMP 100KX8 J 1/6W		
CP3			R90-0493-05	MULTI-COMP 100KX9 J 1/6W		
R64 ,65		*	RS14B3391SIJ	FL-PROOF RS 150 J 2W		
R73 ,74			RD14NB2E821J	RD 820 J 1/4W		
R117			R92-0173-05	RC 2.2M M 1/2W	K	
R119-122			RD14NB2E100J	RD 10 J 1/4W	K	
K1 ,2			S51-2094-05	MAGNETIC RELAY		
S1 ,2			S40-1064-05	PUSH SWITCH POWER METER		
S3			S31-2322-05	SLIDE SWITCH VOLTAGE SELECTOR	M	
S3			S62-0001-05	SLIDE SWITCH VOLTAGE SELECTOR	Y	
D1 -28			HSS104	DIODE		
D1 -28			1SS133	DIODE		
D31			S3V20	DIODE		
D32			S56088	DIODE		
D33			HZS8.2N(B2)	ZENER DIODE		
D33			RD8.2ES(B2)	ZENER DIODE		
D34			HZS5.6N(B2)	ZENER DIODE		
D34			RD5.6ES(B2)	ZENER DIODE		
D35			HSS104			
D35			1SS133			
D37			HSS104	DIODE		
D37			1SS133	DIODE		
D38			S56088	DIODE		
D39 -40			HSS104	DIODE		
D39 -40			1SS133	DIODE		
D42 -45			HSS104	DIODE		
D42 -45			1SS133	DIODE		
D46			HZS3.9N(B2)	ZENER DIODE		
D46			RD3.9ES(B2)	ZENER DIODE		
D47 ,48			HSS104	DIODE		
D47 ,48			1SS133	DIODE		
D51 -56			HSS104	DIODE		
D51 -56			1SS133	DIODE		
FD1 -4		*	FIP8JM9	FLUORESCENT INDICATOR TUBE		
IC1 -4			NJM4565D-0	IC(6P AMP X2)		
IC11			RC4565D-0	IC(VOLTAGE REGULATOR/ -12V)		
IC12			UPC7912HF	IC(VOLTAGE REGULATOR/ -12V)		
IC13			UPC7812HF	IC(VOLTAGE REGULATOR/ +12V)		
IC14			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)		
IC15			MS1951ASL	IC(SYSTEM RESET)		
IC15		*	PST529D	IC(SYSTEM RESET)		
IC16			UPD75028GC-503			
IC17 -4			NJM78L05A	IC(VOLTAGE REGULATOR/ +5V)		
Q1 -4			2SA992(F,E)	TRANSISTOR		
Q11			2SB941(Q,P)	TRANSISTOR		
Q12			2SA954(L,K)	TRANSISTOR		
Q13			2SD1266(Q,P)	TRANSISTOR		
Q14 ,15			2SC1740S(Q,R)	TRANSISTOR		
Q14 ,15			2SC3311A(Q,R)	TRANSISTOR		
Q16			2SA992(F,E)	TRANSISTOR		
Q17 ,18			2SC3246(H,J)	TRANSISTOR		
Q20 -36			DTA124ES	DIGITAL TRANSISTOR		

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

⚠ indicates safety critical components

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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	Destination (仕向)	Remarks (備考)
C15 ,16			CE04KW1H220M	ELECTRO 22UF 50WV		
C17 ,18			CF92FV1H472J	MF 4700PF J		
C19 ,20			CC45SL1H101J	CERAMIC 100PF J		
C21 ,22			CF92FV1H472J	MF 4700PF J		
C25 ,26			CF92FV1H104J	MF 0.10UF J		
C27 ,28			CC45SL1H100D	CERAMIC 10PF D		
C29 -32			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C35 ,36			CF92RV1H102J	MF 1000PF J		
C37 -40			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C41 ,42			CC45SL1H221J	CERAMIC 220PF J		
C43 -46			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C49 ,50			CF92FV1H102J	MF 1000PF J		
C51 ,52			CE04KW1C470M	ELECTRO 47UF 16WV		
C53 ,54			CE04KW1C220M	ELECTRO 22UF 16WV		
C61 ,62			CE04KW1H220M	ELECTRO 22UF 50WV		
C63 -66			CF92FV1H104J	MF 0.10UF J		
C67 ,68			CE04KW1C220M	ELECTRO 22UF 16WV		
C69			CE04KW1E102M	ELECTRO 1000UF 25WV		
C70 ,71			CF92FV1H104J	MF 0.10UF J		
C72			CE04KW1C471M	ELECTRO 470UF 16WV		
C73			CE04KW1E471M	ELECTRO 470UF 25WV		
C74 ,75			CF92FV1H104J	MF 0.10UF J		
C76			CE04KW1C101M	ELECTRO 100UF 16WV		
C77			CE04KW1J221M	ELECTRO 220UF 63WV		
C78			CE04KW1V470M	ELECTRO 47UF 35WV		
C79			CE04KW1H221M	ELECTRO 220UF 50WV		
C80			CE04KW1A101M	ELECTRO 100UF 10WV		
C81			CE04KW1C101M	ELECTRO 100UF 16WV		
C82			CE04KW1V100M	ELECTRO 10UF 35WV		
C91			CE04KW1V100M	ELECTRO 10UF 35WV		
C92			CE04JW1V100M	ELECTRO 10UF 35WV		
C93			C91-0700-05	CERAMIC 0.1UF J		
C94 ,97			CF92FV1H102J	MF 1000PF J		
C96 ,97			CC45SL1H221J	CERAMIC 220PF J		
C98 ,99			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C100			CE04JW1H010M	ELECTRO 1.0UF 50WV		
C101-103			C91-0757-05	CERAMIC .1000PF K		
J1			E08-1508-05	RECTANGULAR RECEPTACLE 15P PRE		
J2			E08-0411-05	RECTANGULAR RECEPTACLE 4P PRE		
F1			F05-4025-05	FUSE (SEMKO) (250V T4A)	YM	
F1			F05-4028-05	FUSE (UL)	K	
F1			F06-2021-05	FUSE (SEMKO) (250V T2A)	XE	
F2 ,3			F53-0018-05	FUSE(SEMKO)	YMXE	
F2 ,3			F53-0032-05	FUSE(UL)	K	
F4 -6			F53-0019-05	FUSE(SEMKO)	YMXE	
F4 -6			F53-0033-05	FUSE(UL)	K	
-			J11-0099-05	WIRE CRIMPER		
CN7 ,8			J13-0075-05	FUSE CLIP		
T1		*	L07-0412-05	POWER TRANSFORMER		
X1			L78-0267-05	RESONATOR		
E	2C		N35-3008-46	BINDING HEAD MACHIN SCREW		
F	2C		N89-3008-45	BINDING HEAD TAPTITE SCREW		

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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	Destination 仕向	Remarks 備考
			B-922			
601	1A	*	A01-1983-01	METALLIC CABINET		
602	3A	*	A60-0135-01	PANEL		
605	1A	*	X94-1000-31	REMOTE CONTROL ASSY UNIT		
606	2A		A09-0115-13	BATTERY COVER		
610	3A	*	B10-1888-03	FRONT GLASS		
611	3A	*	B11-0245-04	COLOR FILTER		
612	3A	*	B12-0181-04	INDICATOR		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-23	WARRANTY CARD	X	
-			B46-0122-13	WARRANTY CARD	E	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-0597-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0598-00	INSTRUCTION MANUAL (FRENCH)	E	
-		*	B60-0600-00	INSTRUCTION MANUAL (DUTCH)	E	
-		*	B60-0602-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-0603-00	INSTRUCTION MANUAL (SPANISH)	M	
615	1B		E03-0115-05	AC PLUG ADAPTER	M	
616	1D		E30-2592-15	AC POWER CORD	ME	
616	1D		E30-2594-15	AC POWER CORD	X	
616	1D		E30-2605-05	AC POWER CORD	Y	
616	1D		E30-2650-05	AC POWER CORD	K	
618	1D	*	F09-0079-05	FAN		
619	1A	*	F20-1317-04	INSULATING SHEET	MXE	
620	3A,3D		G11-2052-14	CUSHION FOOT		
		*	H50-0166-04	ITEM CARTON CASE	KYM	
		*	H50-0167-04	ITEM CARTON CASE	XE	
-		*	H10-5205-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5206-12	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0397-04	PROTECTION BAG		
625	1B		J19-2815-04	ANTENNA HOLDER		
626	1D		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	3A	*	K29-4278-04	KNOB N.B CIRCUIT		
631	3A	*	K29-4279-04	KNOB METER MODE		
632	2A	*	K29-4280-04	KNOB POWER ON/STAND BY		
640	2D	*	L07-0400-05	POWER TRANSFORMER	K	
640	2D	*	L07-0401-05	POWER TRANSFORMER	Y	
640	2D	*	L07-0402-05	POWER TRANSFORMER	M	
640	2D	*	L07-0403-05	POWER TRANSFORMER	X	
640	2D	*	L07-0404-05	POWER TRANSFORMER	E	
A	1B		N09-0333-05	TAPPING SCREW (3X12)		
B	2A		N09-1445-05	SET SCREW (M3X8)		
C	2A,3B		N09-2782-05	TAPTITE SCREW (2.6X8)		
D	3B	*	N10-2080-46	HEXAGON NUT (M8)		
F	1A,1B		N89-3008-45	BINDING HEAD TAPTITE SCREW		
G	1C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
H	1D	*	N89-3023-45	BINDING HEAD TAPTITE SCREW		

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J	2D		N86-4008-46	BINDING HEAD TAPTITE SCREW				
K	2D		N29-0067-05	PUSH RIVET (3.5X4.5)			MXE	
T.SW	1B	*	S79-0003-05	THERMAL SWITCH				
645	1B		T90-0136-05	ANTENNA ADAPTOR				
646	1B		T90-0173-05	LOOP ANTENNA				
647	1B		T90-0176-05	T TYPE ANTENNA				
			MAIN AMPLIFIER UNIT (X07-2690-11:K,0-21:Y,M,2-71:X,E)					
C1 ,2			CF92FV1H473J	MF	0.047UF	J		
C3 ,4			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C5 ,6			CC45FSL1H101J	CERAMIC	100PF	J		
C9 ,10			CK45FB1H471K	CERAMIC	470PF	K		
C11 ,12			CC45FSL1H220J	CERAMIC	22PF	J		
C13 -16			CC45FSL1H101J	CERAMIC	100PF	J		
C17 ,18			CE04KW1V100M	ELECTRO	10UF	35WV		
C19 -22			CC45FSL1H101J	CERAMIC	100PF	J		
C23 ,24			CC45FSL1H221J	CERAMIC	220PF	J		
C25 ,26			CE04KW1V100M	ELECTRO	10UF	35WV		
C31 -34			CF92FV1H103J	MF	0.010UF	J		
C35 ,36			CE04KW1E101M	ELECTRO	100UF	25WV		
C37 -44			CE04KW1H470M	ELECTRO	47UF	50WV		
C45 ,46			CF92FV1H103J	MF	0.010UF	J		
C47 ,48			CE04KW1H331M	ELECTRO	330UF	50WV		
C61 ,62			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C63 ,64			CC45FSL1H101J	CERAMIC	100PF	J		
C65 ,66			CK45FB1H471K	CERAMIC	470PF	K		
C67 ,68			CC45FSL1H470J	CERAMIC	47PF	J		
C69 ,70			CC45FSL1H221J	CERAMIC	220PF	J		
C71 ,72			CC45FSL1H101J	CERAMIC	100PF	J		
C73 ,74			CE04KW1A101M	ELECTRO	100UF	10WV		
C75 ,76			CC45FSL1H101J	CERAMIC	100PF	J		
C77 ,78			CC45FSL1H151J	CERAMIC	150PF	J		
C79 ,80			CC45FSL1H470J	CERAMIC	47PF	J		
C81 ,82			CE04KW1V100M	ELECTRO	10UF	35WV		
C91 -94			CF92FV1H103J	MF	0.010UF	J		
C95 ,96			CE04KW1E101M	ELECTRO	100UF	25WV		
C97 -98			CE04KW1H470M	ELECTRO	47UF	50WV		
C99 ,100		*	C90-1925-05	ELECTRO	47UF	50WV		
C105,106			CE04KW1C220M	ELECTRO	22UF	16WV		
C107,108			C90-1333-05	NP-ELEC	22UF	10WV		
C111,112			CE04JW1A330M	ELECTRO	33UF	10WV		
C121,122			CE04KW1C220M	ELECTRO	22UF	16WV		
C123,124			CC45FSL1H101J	CERAMIC	100PF	J		
C125,126			CK45FB1H471K	CERAMIC	470PF	K		
C127,128			CE04KW1C220M	ELECTRO	22UF	16WV		
C129,130			CC45FSL1H101J	CERAMIC	100PF	J		
C131,132			CC45FSL1HB20J	CERAMIC	82PF	J		
C133-140			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C141-148			CF92FV1H224J	MF	0.22UF	J	YMXE	
C142,143			CF92FV1H104J	MF	0.10UF	J	K	
C145			CF92FV1H104J	MF	0.10UF	J	K	
C148			CF92FV1H104J	MF	0.10UF	J	K	
C149,150			CF92FV1H472J	MF	4700PF	J		
C153,154			CF92FV1H103J	MF	0.010UF	J		

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C155,156			CE04KW1C220M	ELECTRO	22UF	16WV		
C157-164			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C165-172			CF92FV1H224J	MF	0.22UF	J	YMXE	
C167,168			CF92FV1H104J	MF	0.10UF	J	K	
C171,172			CF92FV1H104J	MF	0.10UF	J	K	
C173,174			CF92FV1H472J	MF	4700PF	J		
C175,176			CE04KW1C220M	ELECTRO	22UF	16WV		
C177-184			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C185-192			CF92FV1H224J	MF	0.22UF	J	YMXE	
C187,188			CF92FV1H104J	MF	0.10UF	J	K	
C191,192			CF92FV1H104J	MF	0.10UF	J	K	
C193,194			CF92FV1H103J	MF	0.010UF	J		
C195,196			CF92FV1H472J	MF	4700PF	J		
C197,198			CE04KW1H470M	ELECTRO	47UF	50WV		
C199,200			CE04KW1H331M	ELECTRO	330UF	50WV		
C201,202			CF92FV1H103J	MF	0.010UF	J		
C203,204			CE04KW1H470M	ELECTRO	47UF	50WV		
C211-214			CK45FE2H103P	CERAMIC	0.010UF	P		
C215,216		*	C90-1945-05	ELECTRO	6800UF	50WV		
C217,218		*	C90-1944-05	ELECTRO	3300UF	35WV		
C219-222			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C223			CF92FV1H154J	MF	0.15UF	J	K	
J1 ,2		*	E70-0011-05	TERMINAL BOARD SP L/H,PRESENCE				
J3			E63-0018-05	PHONO JACK SP CENT,SURROUN				
* F1 -4			F53-0022-05	FUSE(SEMKO)			YMXE	
* F1 -4			F53-0036-05	FUSE(UL)			K	
L1 -6			L39 0086-05	PHASE-COMPENSATION COIL				
A	2B,3C		N09-0333-05	TAPPING SCREW (3X12)				
F	2C		N89-3008-45	BINDING HEAD TAPTITE SCREW				
CP1 -4			R90-0826-05	MULTI-COMP 0.22X2		5W		
R19 ,20			RD14AB2E331JTS	FL-PROOF RD	330	J 1/4W		
R21 ,22			RD14AB2E222JTS	FL-PROOF RD	2.2K	J 1/4W		
R23 ,24			RD14AB2E151JTS	FL-PROOF RD	150	J 1/4W		
R25 ,26			RD14AB2E331JTS	FL-PROOF RD	330	J 1/4W		
R45 -48			RS14DB3A681JTE	FL-PROOF RS	680	J 1W		
R49 ,50			RD14AB2E470JTS	FL-PROOF RD	47	J 1/4W		
R53 ,54			RD14AB2E470JTS	FL-PROOF RD	47	J 1/4W		
R73 ,74			RD14AB2E331JTS	FL-PROOF RD	330	J 1/4W		
R75 ,76			RD14AB2E182JTS	FL-PROOF RD	1.8K	J 1/4W		
R77 ,78			RD14AB2E151JTS	FL-PROOF RD	150	J 1/4W		
R79 ,80			RD14AB2E331JTS	FL-PROOF RD	330	J 1/4W		
R125,126			RS14DB3A272JTE	FL-PROOF RS	2.7K	J 1W		
R139,140			RD14AB2E4R7JTS	FL-PROOF RD	4.7	J 1/4W		
R141-144			RS14DB3A100JTE	FL-PROOF RS	10	J 1W		
R151-156			RD14AB2E4R7JTS	FL-PROOF RD	4.7	J 1/4W		
R157-160			RS14DB3A100JTE	FL-PROOF RS	10	J 1W		
R171-176			RD14AB2E4R7JTS	FL-PROOF RD	4.7	J 1/4W		
R177-180			RS14DB3A100JTE	FL-PROOF RS	10	J 1W		
R187-190			RS14DB3A391JTE	FL-PROOF RS	390	J 1W		
R191,192			RD14AB2E470JTS	FL-PROOF RD	47	J 1/4W		
R195,196			RD14AB2E470JTS	FL-PROOF RD	47	J 1/4W		
VR1		*	R06-3074-05	POTENTIOMETER N.B CIRCUIT				

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VR3 ,4			R12-1086-05	TRIM POT. 1K				
VR5 ,6			R12-1084-05	TRIM POT. 1K				
K1 ,2			S51-2094-05	MAGNETIC RELAY				
K3 -6			S76-0008-05	MAGNETIC RELAY				
D1 ,2			HSS104	DIODE				
D1 ,2			1SS133	DIODE				
D3 ,4			HZS15S(B)	ZENER DIODE				
D3 ,4			RD15JS(B)	ZENER DIODE				
D11 ,12			HSS104	DIODE				
D11 ,12			1SS133	DIODE				
D21 ,22			HSS104A	DIODE				
D21 ,22			1SS131	DIODE				
D25 ,26			HSS104A	DIODE				
D25 ,26			1SS131	DIODE				
D31 ,32			HZS13N(B2)	ZENER DIODE				
D31 ,32			RD13ES(B2)	ZENER DIODE				
D35 ,36			05SBA20F03	DIODE				
D37 -41			HSS104A	DIODE				
D37 -41			1SS131	DIODE				
D43 ,44			HSS104A	DIODE				
D43 ,44			1SS131	DIODE				
D45 ,46			HSS104	DIODE				
D45 ,46			1SS133	DIODE				
D47			HSS104A	DIODE				
D47			1SS131	DIODE				
IC1 ,2			UPC1237HA	IC(POWER AMP)				
IC3 ,4		*	SI-18752	IC(POWER IC)				
Q1 -4			2SA992(F,E)	TRANSISTOR				
Q5 -8			2SC1845(F,E)	TRANSISTOR				
Q9 ,10			2SA992(F,E)	TRANSISTOR				
Q11 ,12			2SA1309A(Q,R)	TRANSISTOR				
Q11 ,12			2SA933S(Q,R)	TRANSISTOR				
Q21 -24			2SA992(F,E)	TRANSISTOR				
Q25 -28			2SC1845(F,E)	TRANSISTOR				
Q29 ,30			2SA992(F,E)	TRANSISTOR				
Q35 ,36			2SA992(F,E)	TRANSISTOR				
Q45 ,46			2SC4137	TRANSISTOR				
Q47 ,48			2SD2255*5	TRANSISTOR				
Q49 ,50			2SB1493*5	TRANSISTOR				
Q51 ,52			2SC2631(R,S)	TRANSISTOR				
Q57 ,58			2SC4137	TRANSISTOR				
Q59 ,60		*	2SD2275*5	TRANSISTOR				
Q61 ,62		*	2SB1502*5	TRANSISTOR				
Q63 ,64			2SC2631(R,S)	TRANSISTOR				
Q71 ,72			2SA1309A(Q,R)	TRANSISTOR				
Q71 ,72			2SA933S(Q,R)	TRANSISTOR				
Q73 -76			2SC3246(H,J)	TRANSISTOR				
			ACCESSORY UNIT (X13-6910-11:K,0-21:M,2-71:X,E,2-91:Y)					
PL1		*	830-2411-05	LAMP				
C1 -4			CC45FSL1H221J	CERAMIC	220PF	J		
C5 -8			CF92FV1H332J	MF	3300PF	J		
C9 ,10			CC45FSL1H101J	CERAMIC	100PF	J		
C13 ,14			CF92FV1H104J	MF	0.10UF	J		

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