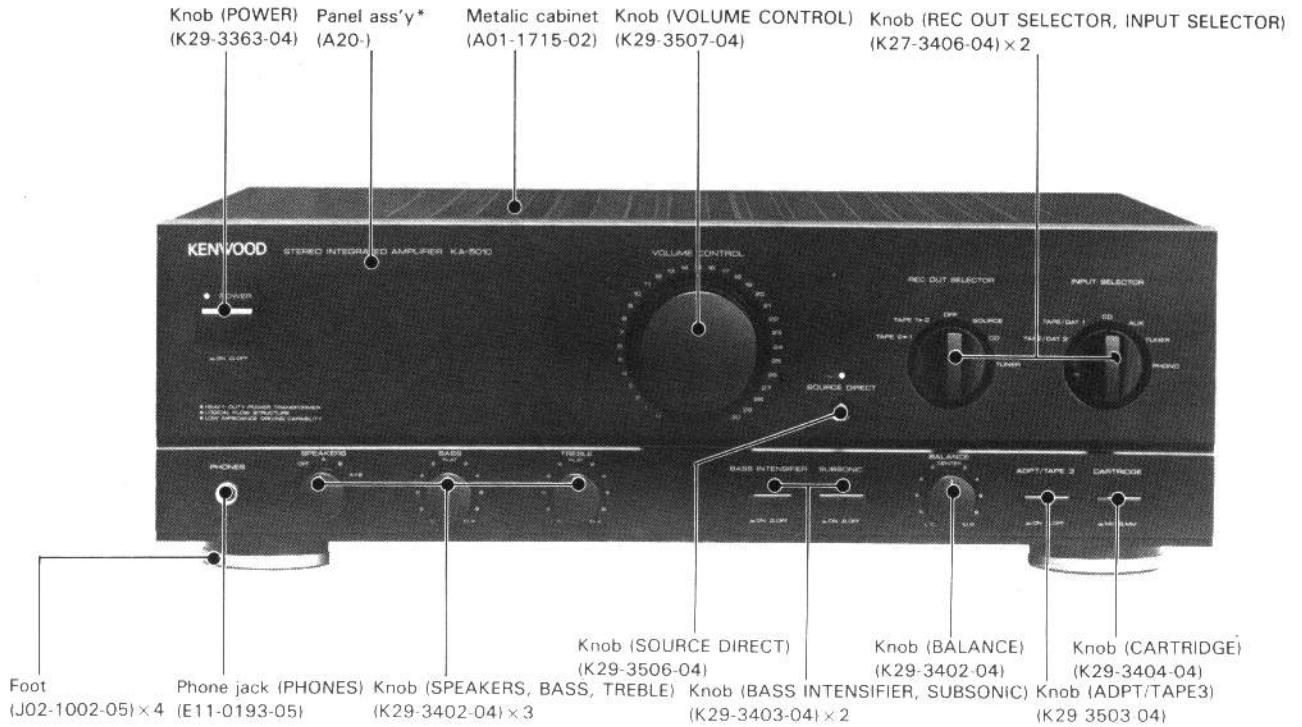
STEREO INTEGRATED AMPLIFIER

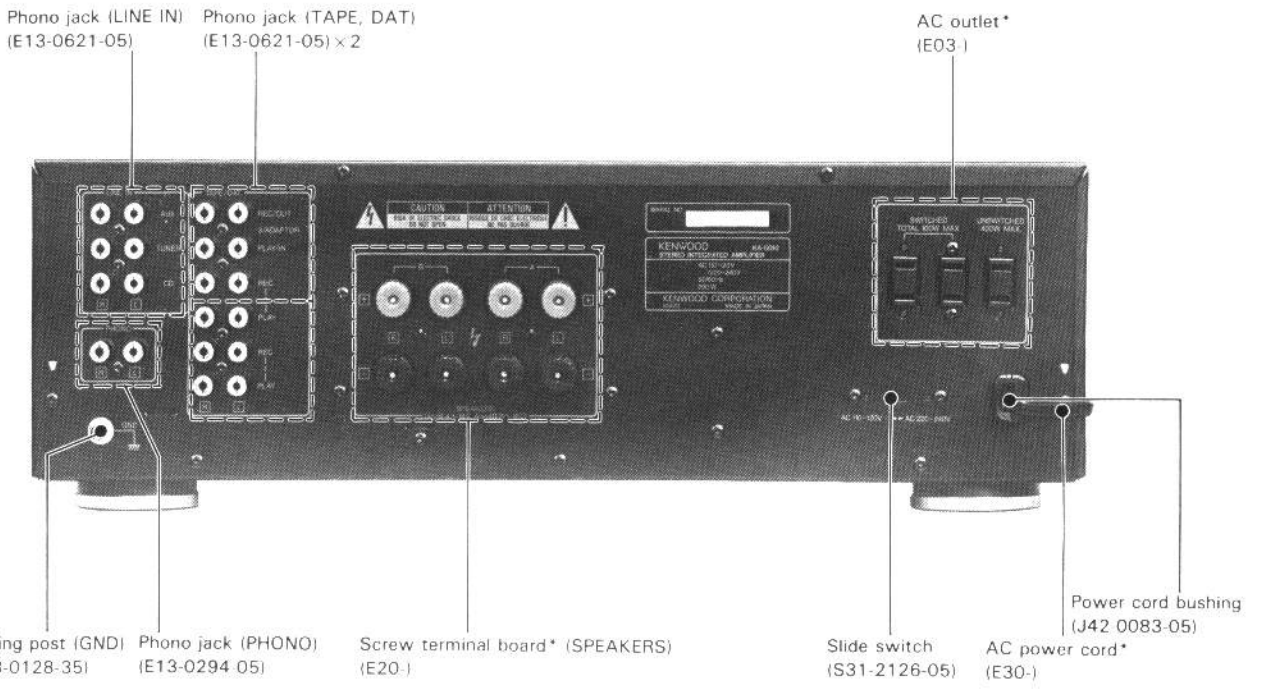
KA-5010

SERVICE MANUAL

KENWOOD

B51-3698-00(T)1852





* Refer to parts list on page 21.

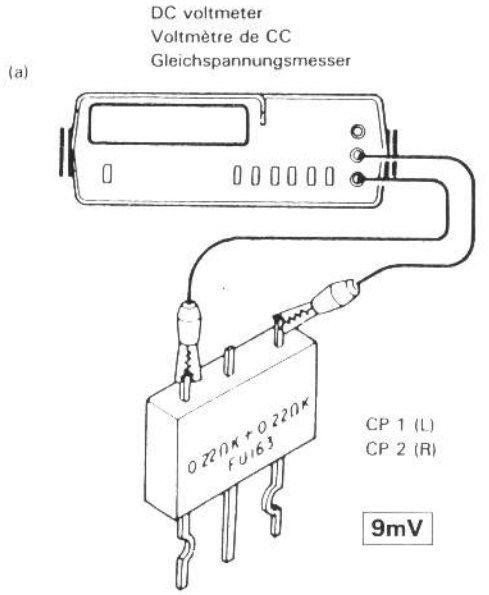
ADJUSTMENT/REGLAGES/ABGLEICH

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	–	Connect a DC voltmeter across CP1 CP2	VOLUME: 0	VR1 (L) VR2 (R) (X09-)	9mV	(a)

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
1	COURANT DE POLARISATION	–	Connecter un voltmètre de CC SUR CP1 CP2	VOLUME: 0	VR1 (G) VR2 (D) (X09-)	9mV	(a)

NR.	GENGENSTAND	EINGANGS-EINSTELLUNG	AUSANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
1	LEERLAUFSTROM	–	Einen Gleichspannungs-messer über CP1 CP2 anschließen.	VOLUME: 0	VR1 (L) VR2 (R) (X09-)	9mV	(a)

(a)



KA-5010

VOLTAGE TABLES

PRE-AMPLIFIER UNIT (X08-227X-XX)

IC1 (1/2)

1	–
2	–
3	–
4	–20V

IC1 (2/2)

5	6.3V
6	6.3V
7	0V
8	20V

IC2 (1/2)

1	0V
2	0V
3	0V
8	15V

IC2 (2/2)

4	–15V
5	0V
6	0V
7	0V

Q1

E	3V
C	6.3V
B	3.6V

Q2

E	–
C	–
B	–

Q3

E	3V
C	6.3V
B	3.6V

Q4

E	–
C	–
B	–

Q5

D	0.2V
S	3V
G	0V

Q6

D	–
S	–
G	–

Q7

D	3V
S	0.2V
G	0V

Q8

D	–
S	–
G	–

Q11

D	–20.6V
S	–36V
G	–36V

Q12

D	36V
S	20.6V
G	20.6V

Q13

E	–20V
C	–36V
B	–20.6V

Q14

E	20V
C	36V
B	–

Q15

E	–
C	–
B	–0.6V

Q16

E	20V
C	18V
B	19.4V

MAIN UNIT (X09-281X-XX)

IC-1

1	0V
2	0V
3	0V
4	2.26V
5	–
6	0.6V
7	2.2V
8	3.3V

Q1

E	0.6V
C	–7.1V
B	0V

Q2

E	–
C	–
B	–

Q3

E	0.6V
C	–7.1V
B	0V

Q4

E	–
C	–
B	–

Q5

E	–7.1V
C	–44.9V
B	–7.7V

Q6

E	–
C	–
B	–

Q7

E	–7.1V
C	–44.9V
B	–7.7V

Q8

E	–
C	–
B	–

Q9

E	–44.5V
C	–44.0V
B	–44.9V

Q10

E	–
C	–
B	–

Q11

E	–45.5V
C	–44.0V
B	–44.9V

Q12

E	–
C	–
B	–

Q13

E	–44.0V
C	–1.8V
B	–

Q14

E	–
C	–
B	–

Q15

E	52V
C	1.8V
B	51.4V

Q16

E	–
C	–
B	–

Q17

E	–44.0V
C	38.9V
B	–

Q18

E	–
C	–
B	–

Q19

E	1.2V
C	55V
B	–

Q20

E	–
C	55V
B	–

Q21

E	–1.2V
C	55V
B	–

Q22

E	–
C	–55V
B	–

Q23

E	0.6V
C	55V
B	1.2V

Q24

E	–
C	55V
B	–

Q25

E	–0.6V
C	–55V
B	–1.2V

Q26

E	–
C	–55V
B	–

Q27

E	–
C	55V
B	0V

Q28

E	–
C	–
B	–

Q29

E	–46.3V
C	–55V
B	–47V

Q30

E	–
C	–55V
B	–

Q31

E	14.8V
C	3.8V
B	14.2V

Q32

E	–
C	–
B	14.2V

Q33

E	0V
C	–1.2V
B	0V

Q34

E	–
C	–
B	–

Q41

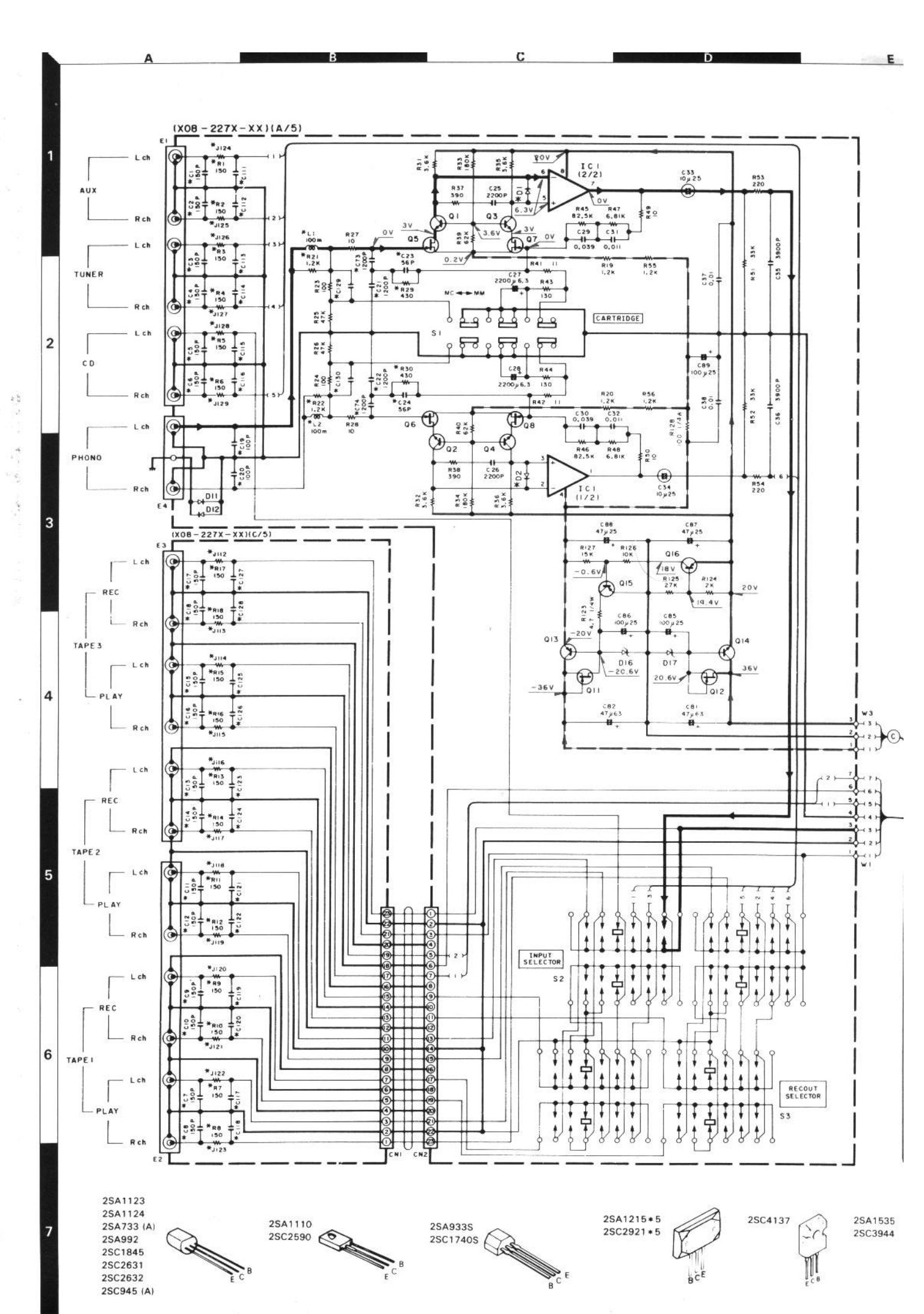
E	–
C	2.0V
B	0V

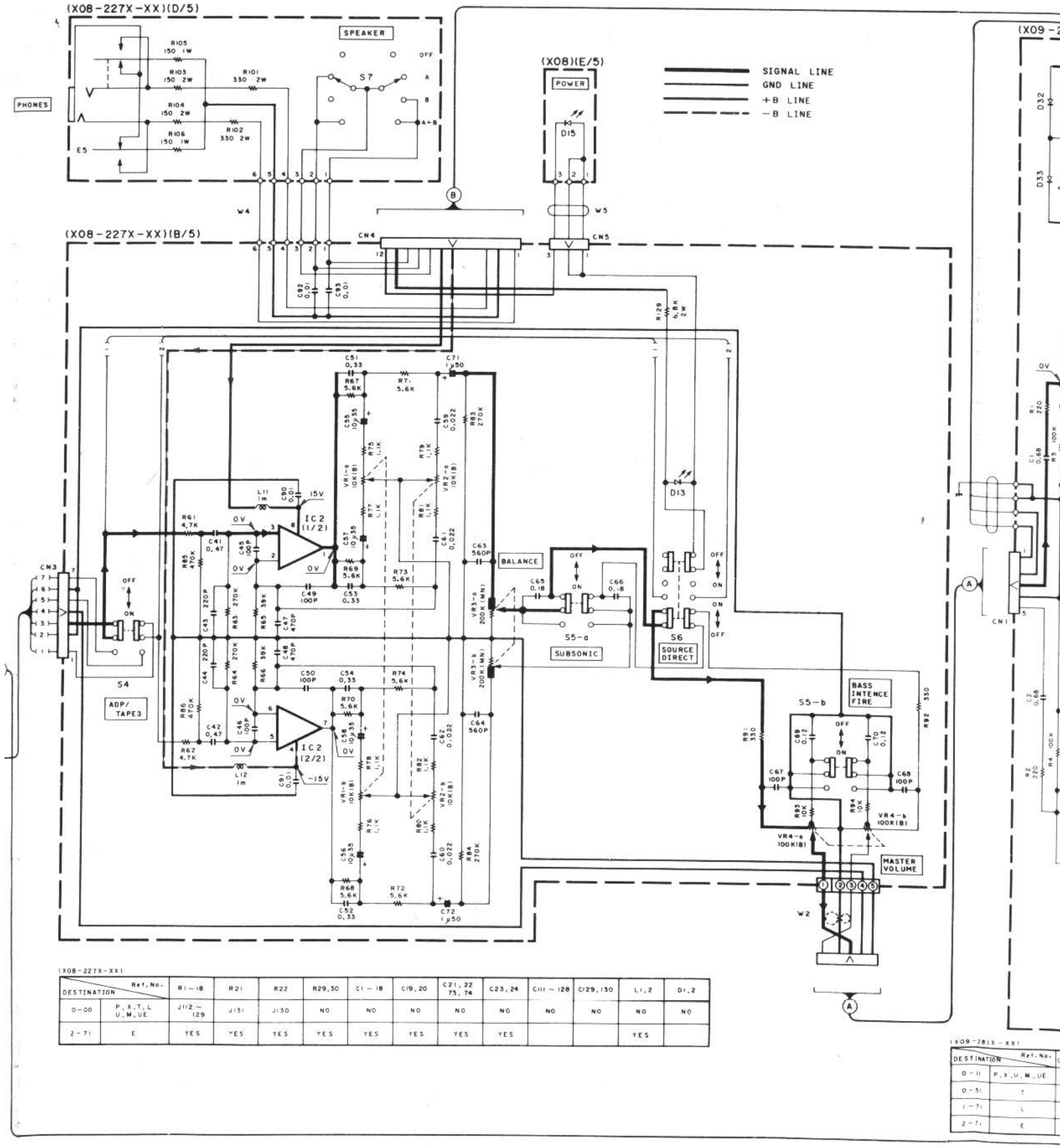
Q42

E	19.8V
C	20.7V
B	20V

Q43

E	55V
C	0V
B	–

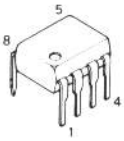

(X08-227X-XX)(A/5)
(X08-227X-XX)(C/5)
AUX
TUNER
CD
PHONO
TAPE 3
TAPE 2
TAPE 1
REC
PLAY
Lch
Rch
IC1 (2/2)
IC1 (1/2)
CARTRIDGE
INPUT SELECTOR
S2
RECOUT SELECTOR
S3
CN1
CN2
2SA1123
2SA1124
2SA733 (A)
2SA992
2SC1845
2SC2631
2SC2632
2SC945 (A)
2SA1110
2SC2590
2SA933S
2SC1740S
2SA1215*5
2SC2921*5
2SC4137
2SA1535
2SC3944



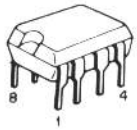
(X08-227X-XX) DESTINATION \ Ref. No.		R1~18	R21	R22	R29,30	C1~18	C19,20	C21,22 73,74	C23,24	C111~128	C129,130	L1,2	D1,2
0-00	P, X, T, L U, M, UE	J112~129	J131	J130	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-71	E	YES	YES	YES	YES	YES	YES	YES	YES			YES	

(X09-281X-XXX) DESTINATION \ Ref. No.	
0-11	P, X, U, M, UE
0-51	T
1-71	L
2-71	E

NJM4560D-N

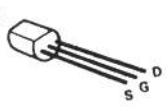


M5218P-A

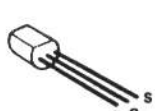


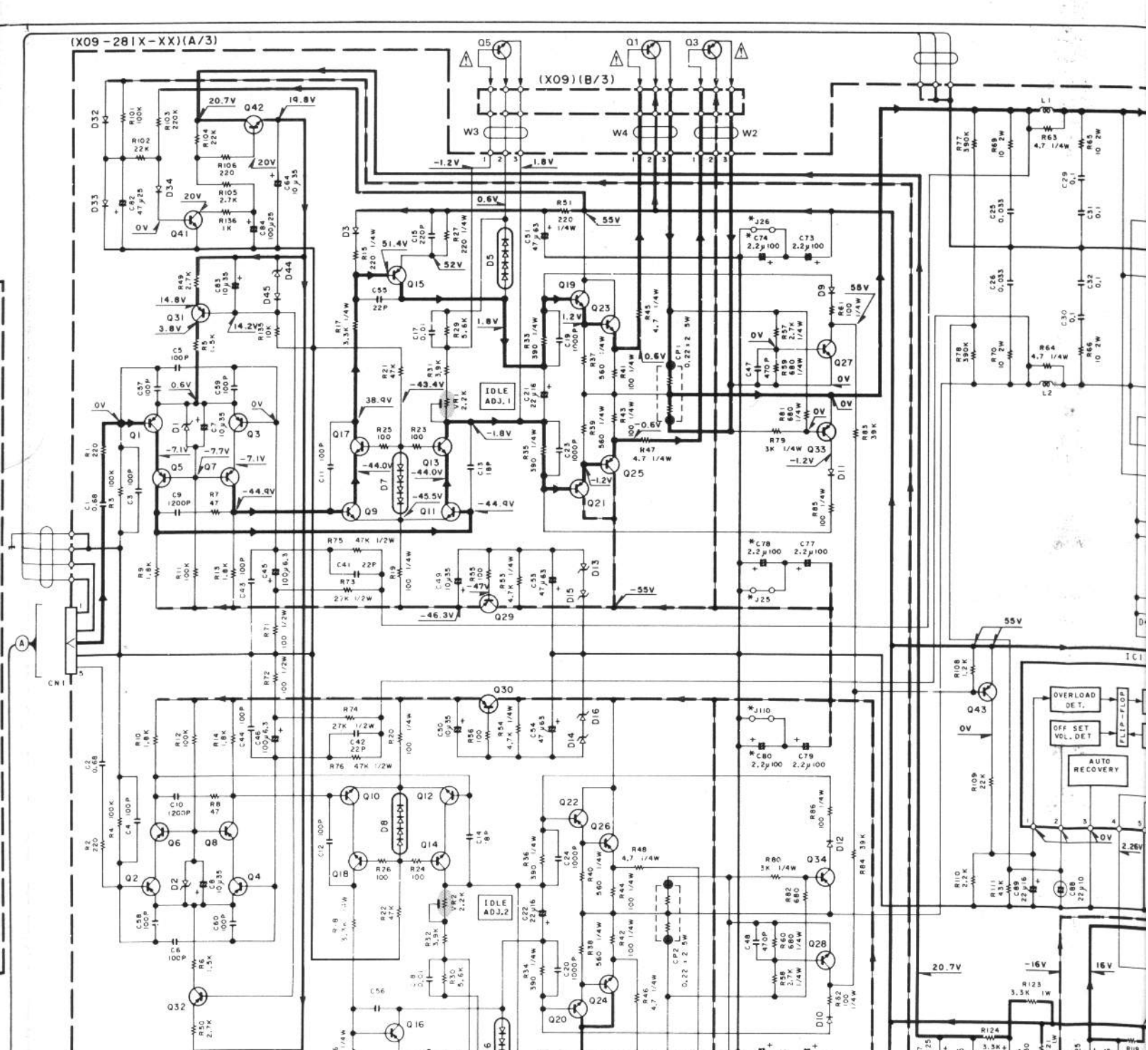
μPC1237HA

2SK246



2SK105
2SK170





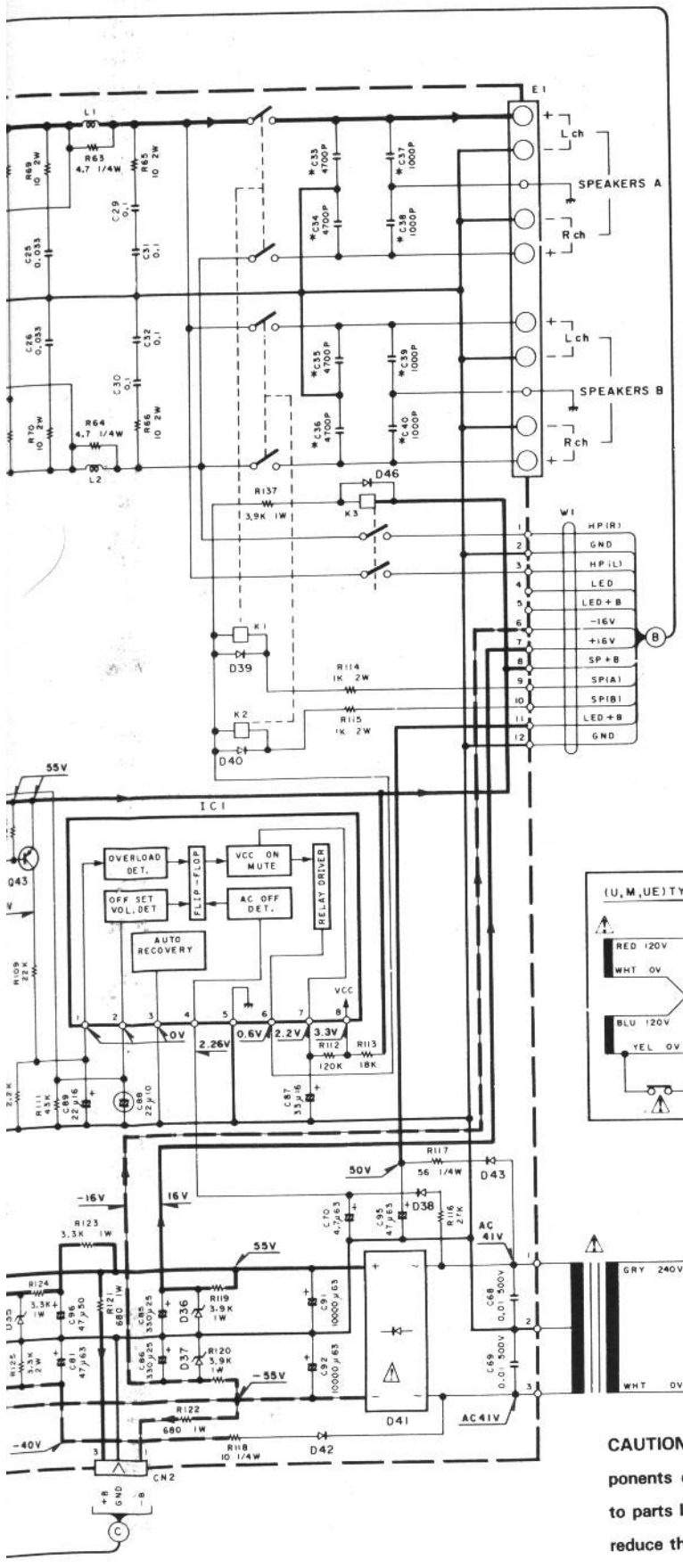
(X09-281X-XX)

DESTINATION \ Ref. No.		C33 36	C37 40	C74,75	C78,80	J25,110	J26,105
0-11	P, X, U, M, UE	NO	NO	YES	YES	NO	NO
0-51	T	NO	NO	NO	NO	YES	YES
1-71	L	NO	NO	NO	NO	YES	YES
2-71	E	YES	YES	NO	NO	YES	YES

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 angegebe
einem hochoh
signal gemes
aufgrund vo
Instrumenten o



(X08-227X-XX)

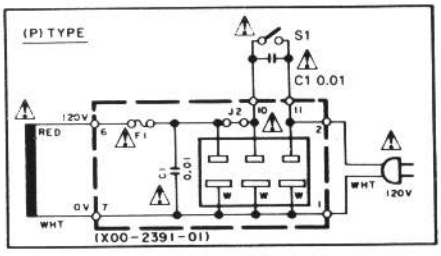
IC1	: MJM4560D-N
IC2	: M5218P-A
Q1~4	: 2SC945(A)(Q,P) or 2SC1740S(Q,R)
Q5~8	: 2SK170(BL,V)
Q11,12	: 2SK105(H) or 2SK246(GR)
Q13	: 2SA1110(Q,R)
Q14	: 2SC2590(Q,R)
Q15,16	: 2SA733(A)(Q,P) or 2SA933S(Q,R)
D11,12	: 1SS133 or HSS104
D13,15	: B30-0431-05
D16,17	: RD20JS(B) or HZS20S(B)

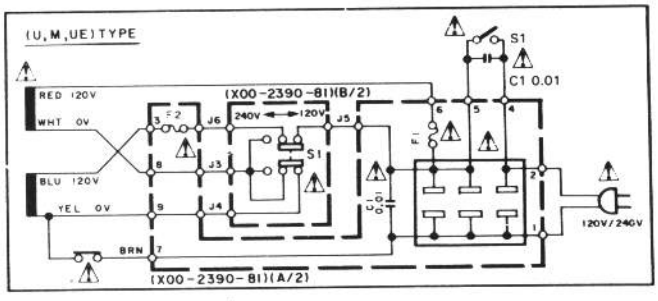
(Y08-363X-XX)

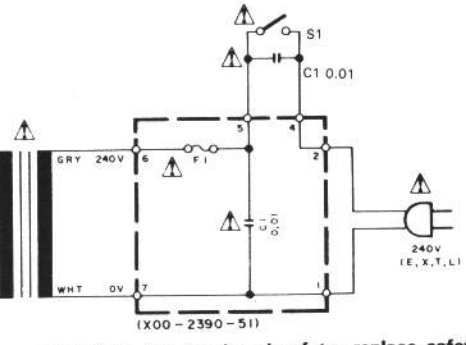
Q1,2	: 2SC2921*5
Q3,4	: 2SA1215*5
Q5,6	: 2SC4137

(X09-281X-XX)

IC1	: μPC1237HA
Q1~8,33,34,43	: 2SA992(F,E)
Q9~14,17,18	: 2SC2632(R,S)
Q15,16	: 2SA1124(R,S)
Q19,20	: 2SC2631(R,S)
Q21,22	: 2SA1123(R,S)
Q23,24	: 2SC3944(R,S)
Q25,26	: 2SA1535(R,S)
Q27,28,41,42	: 2SC1845(F,E)
Q29,30	: 2SA1110(R,S)
Q31,32	: 2SA733(A)(Q,P) or 2SA933S(Q,R)
D1,2	: RD8.2JS(B) or HZS8.2S(B)
D3,4,45	: 1SS133
D5~8	: MA27Q(A) or HSS104
D9~12,32~34,39,40,46	: 1SS131 or HSS104A
D13~16,35	: RD24ES(B) or HZS24N(B)
D36,37	: RD16ES(B) or HZS16N(B)
D38,42,43	: GP10D-5007L
D41	: D5FB20*1
D44	: RD5.1JS(B2) or HZS5.1S(B2)







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.

KA-5010(E)

vec un volt-
'entrée. Les
it des varia-
truments de

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

Y08-3632-71

KA-501

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