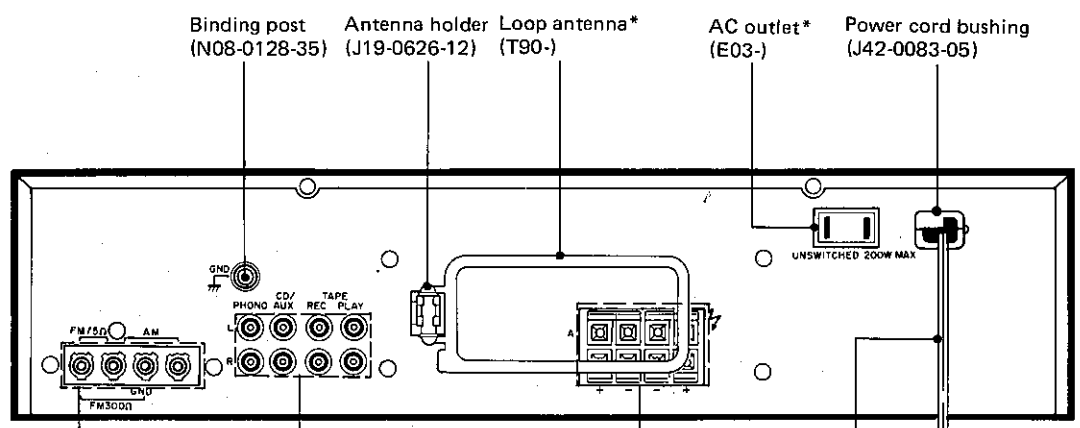
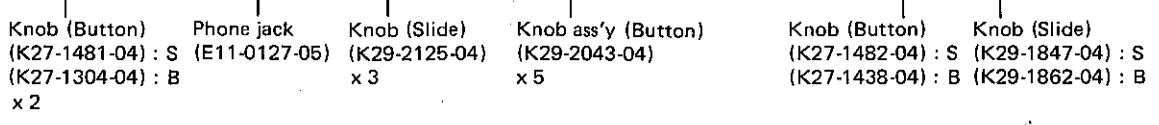
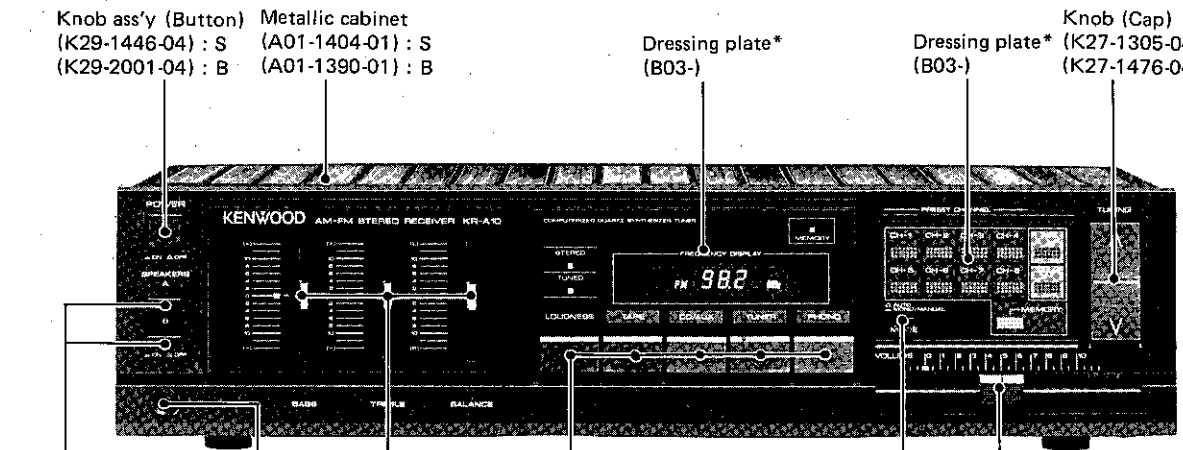


KENWOOD

KR-A10

AM-FM STEREO RECEIVER



保存用
 禁帯出

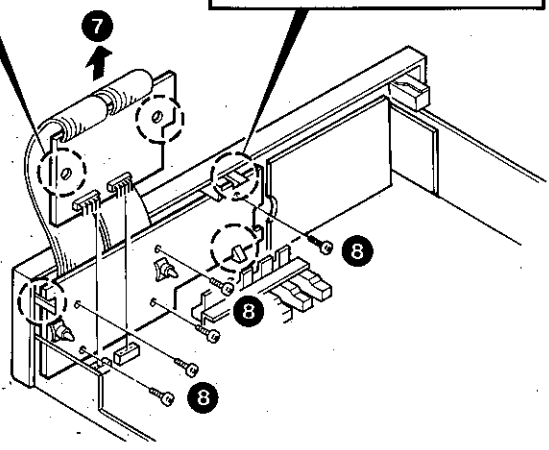
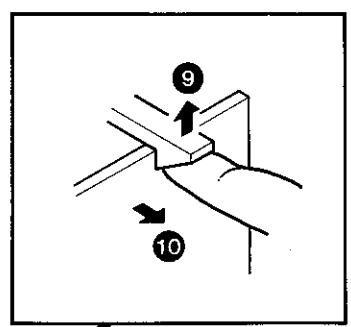
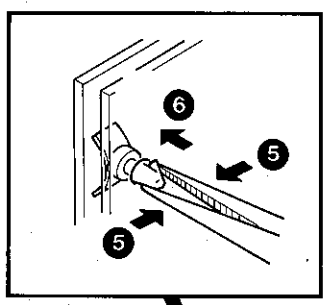
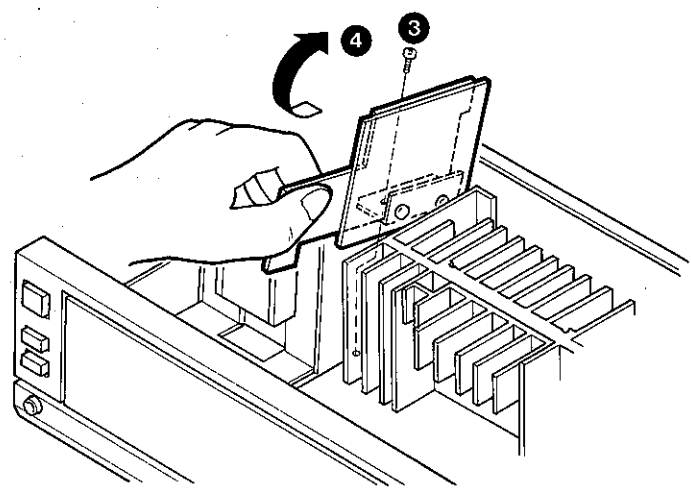
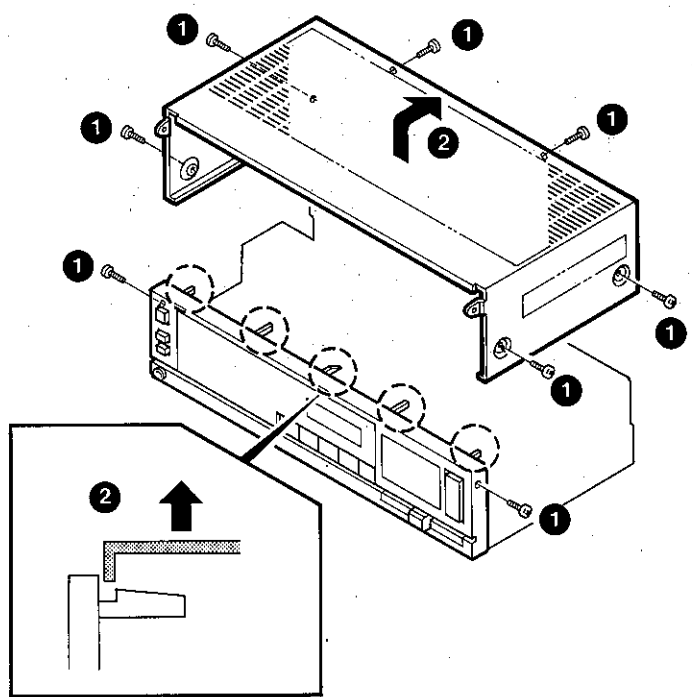
*Refer to parts list on page 12.
 Photo is KR-A10 (Black version).
 S : Silver version.
 B : Black version.

DISASSEMBLY FOR REPAIR

DISASSEMBLY FOR REPAIR

1. Remove 8 screws (❶) and remove the metallic cabinet (❷).
Note: Be aware that the metallic cabinet is hooked to the top of the front panel.
2. Remove 1 screw from the mounting hardware of the fuse pc board (❸).
3. Take the pc board up (❹). Now the fuse can be replaced.

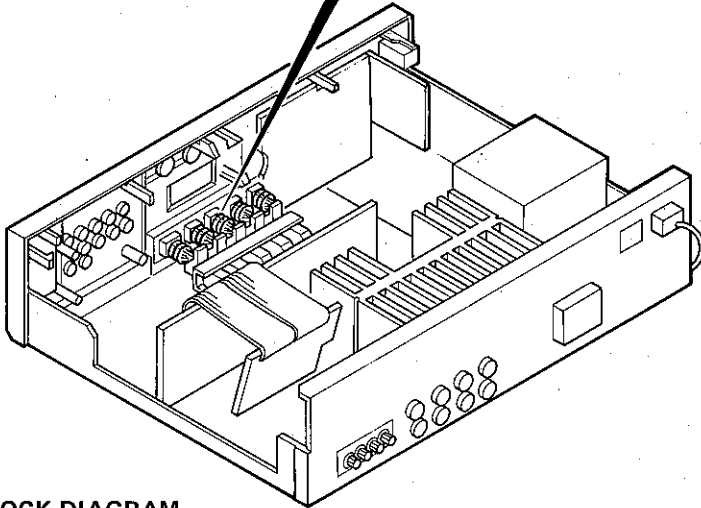
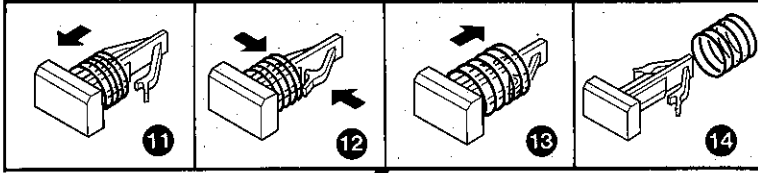
4. To replace components on the switch pc board, first release the pc board from the unit holder first (❺, ❻).
5. Pull the pc board up (❼) and remove 5 screws retaining the pc board (❽). Release the pc board from the pawls and take the pc board out from the front panel (❾, ❿).



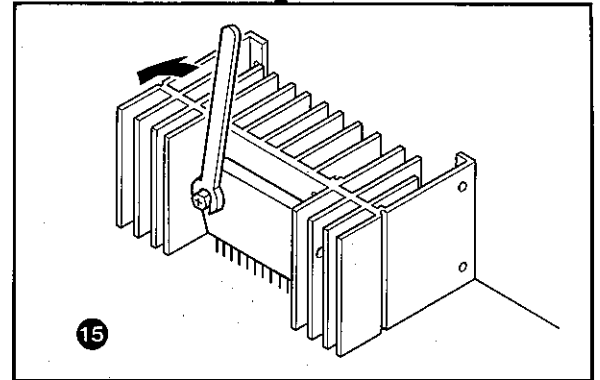
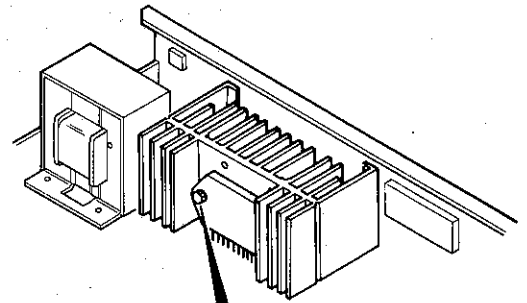
DISASSEMBLY FOR REPAIR/BLOCK DIAGRAM

6. To remove the LOUDNESS, TAPE, CD/AUX, TUNER, PHONO knobs, follow the procedures as shown in the figure.

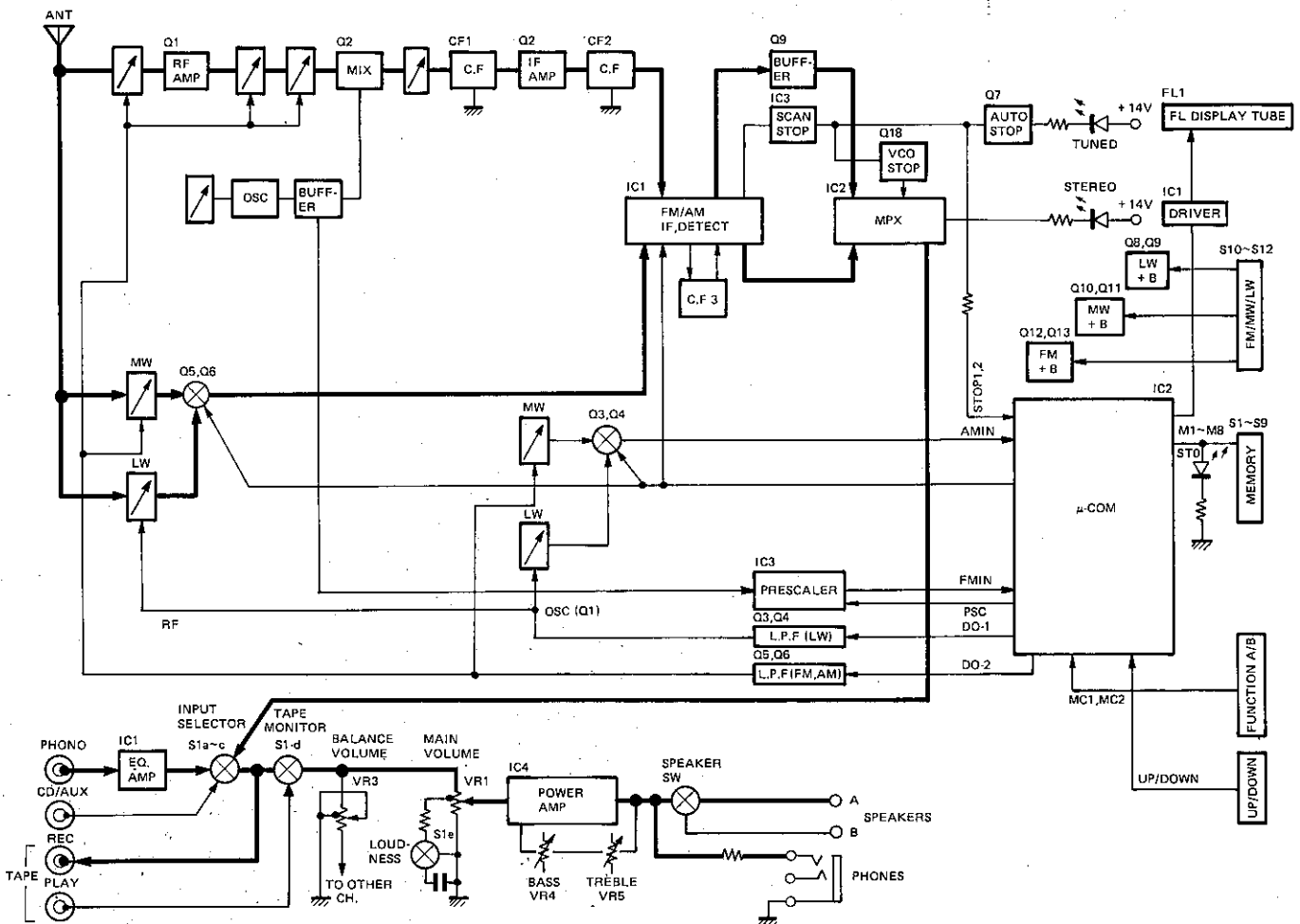
Shorten the spring (11), lightly pinch the arms (12) and slip out the spring out from the shaft (13 , 14).



7. To remove the power IC from the heat sink, remove the screws retaining the power IC with the hex wrench (W05-0022-00) (15).



BLOCK DIAGRAM



CIRCUIT DESCRIPTION**SWITCHING IC (X13-4800-10)**

Component	Function	Operation
IC1	Display	
IC2	Synthesizer control	See the service manual KR-A50 on page 8~.
Q1,Q2	O/5 indicator	For switching between 100kHz/50kHz display in FM mode. Only with E type and M type.
Q3,Q4	L.P.F for LW	
Q5,Q6	L.P.F for FM and LW	
Q7	TUNE lamp drive	Not provided with E type.
Q7,Q9	LW + B	} For switching + B in LW, MW and FM.
Q10,Q11	MW + B	
Q12,Q13	FM + B	

RECEIVER UNIT (X14-1740-10)

Component	Function	Operation
IC1	IF	
IC2	FM MPX IC	
IC3	Scan stop	
IC4	Power IC	One pack (class A & class B), power IC for both channels.
Q10,Q11	Protection	
Q12	Ripple filter	
Q13~Q15	AVR (+ 14V)	
Q16	AVR (+ 5V)	
Q1	AM OSC amplifier	
Q2	FM IF amplifier	
Q3,Q4	AM OSC switching	OSC switching in MW and LW.
Q5,Q6	AM ANT switching	ANT switching in MW and LW.
Q7	AM/FM switching	AM/FM switching of IC1.
Q8	AM/FM scan switching	Switching of the S meter's time constant during auto scanning in AM and FM.
Q9	IF (Audio) amplifier	1-transistor amplifier added to process DET OUT with low level.

FRONT END (X86-1010-10)

Component	Function	Operation
Q1	RF amplifier	
Q2	Mixer	
Q3	OSC buffer amplifier	E type only
Q4	OSC	

CIRCUIT DESCRIPTION

Stop signal detection circuit

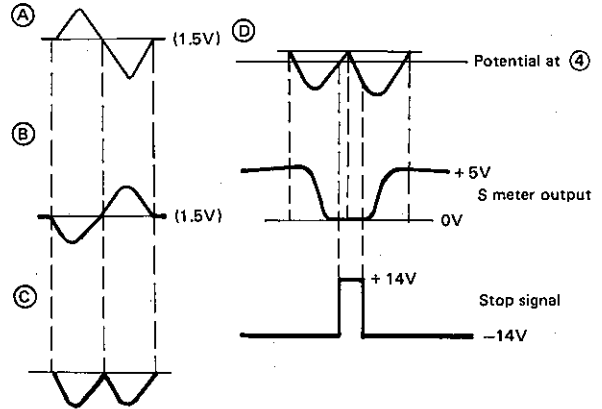
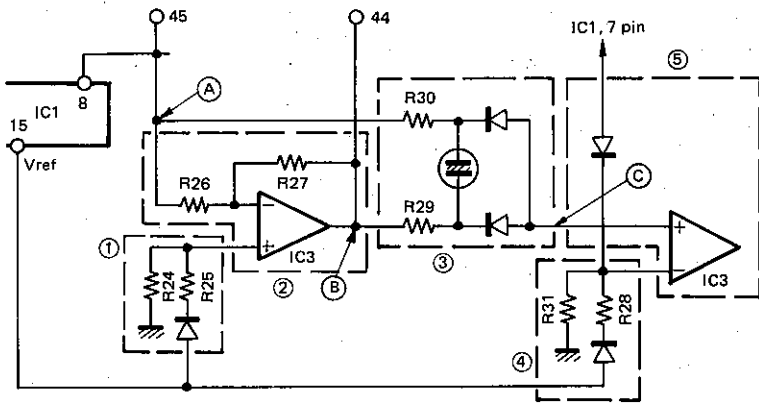
Block explanations

- ① Bias setting circuit
Compares its voltage with that of IC's pin 8 and make the potentials at 44 and 45 the same. (Matching of the maximum point of distortion.)
- ② Inverter amplifier
0dB inverter amplifier for M conversion.
- ③ M converter circuit
Converts the discrets S curve into M curve.
- ④ Band width setting circuit
Determines the bandwidth according to the potential here.

⑤ AND circuit with S meter

Outputs an output only when S exists and discrete output is 0.

With the detector output S curve (A), the inverter output is as shown by (B), which becomes (C) after the M conversion of (3). When this (C) is ANDed with the S meter output, the relation is as shown by (D): The output becomes "H" with narrow band. This signal is used as the stop signal.



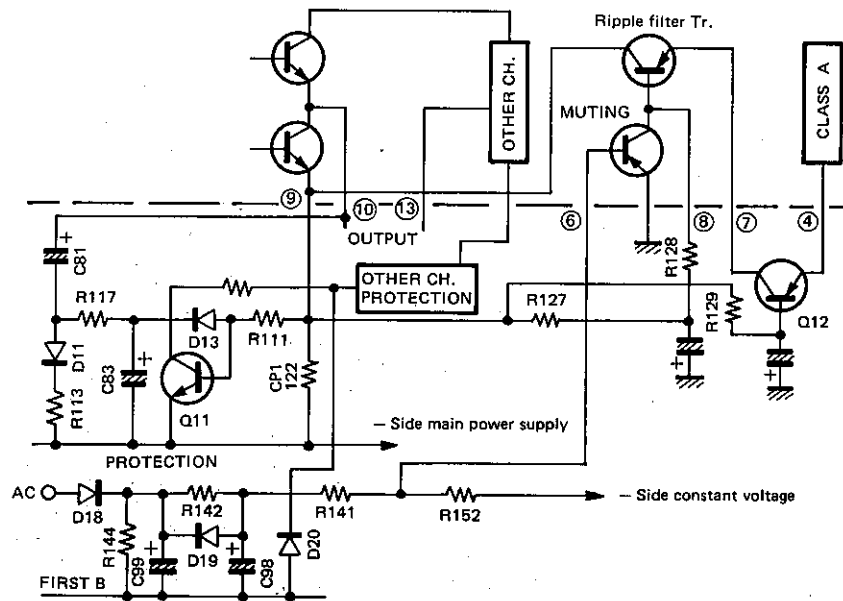
Power ON/OFF muting and protection circuit

The power ICs (STK4141, STK4151, STK4171) incorporate muting and ripple filter transistors. The muting transistors is turned ON/OFF based on the balance between the fast B circuit and negative-side constant voltage, and the amp's class A negative-side current is turned ON/OFF by the ripple filter so that muting is performed when the Power switch is switched ON or OFF. Q12 is provided to

decrease the ripple of the power supply for the class A common emitter.

Protection: The amp output is output from IC's pins 10 and 13 (L CH and R CH). When the speakers are muted, the voltages applied on both sides of CD1 turn Q11 and Q12 ON, bring fast B to negative and perform muting.

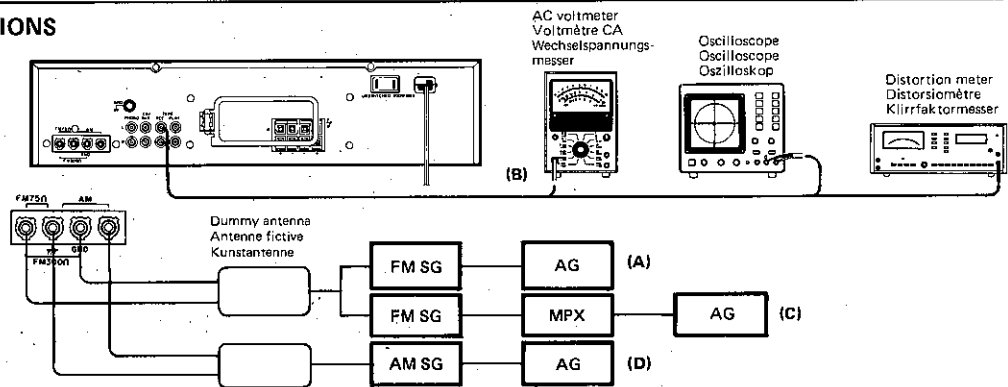
With the bootstrap circuit of C81, C82, R117, R118, R113 and R114, the protection is performed less easily when the output voltage is high.



ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION							
Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: AUTO							
1	BAND EDGE (1)	-	Connect a DC voltmeter between TP72 and TP73.	87.5MHz	(X86-1010) L8	2.5V	(a)
2	BAND EDGE (2)	-	Connect a DC voltmeter between TP72 and TP73.	108MHz	(X86-1010) TC1	8.0V	(a)
Repeat alignments 1 and 2 several times.							
3	RF ALIGNMENT	(A) 98.0MHz 1kHz, ±75kHz dev	(B)	MODE: MONO 98.0MHz	(X86-1010) L2,4 (L5)	Maximum amplitude and symmetry of the oscilloscope display.	
4	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev 60dB(ANT input)	Connect a DC voltmeter between TP44 and TP45.	MODE: MONO 98.0MHz	(X14-174) T1	0V	(b)
5	VCO	(A) 98.0MHz 0 dev 60dB(ANT input)	Connect a 330kΩ resistor to TP43. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	(X14-174) VR1	78.00kHz	(c)
6	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R Pilot: ±6.75kHz dev 60dB(ANT input)	(B)	98.0MHz	(X86-1010) L7	Minimum distortion.	
AM-MW SECTION							
Keep the AM loop antenna installed. SELECTOR: AM							
(1)	BAND EDGE (1)	-	Connect a DC voltmeter between TP72 and 73.	520kHz (522kHz)	(X14-174) L2	1.5V	(a)
(2)	BAND EDGE (2)	-	Connect a DC voltmeter between TP72 and 73.	1600kHz (1602kHz)	(X14-174) TC2	8.0V	(a)
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (1)	(D) 800kHz 400Hz, 30% mod	(B)	800kHz	(X14-174) L4	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1400kHz 400Hz, 30% mod	(B)	1400kHz	(X14-174) TC4	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							
AM-LW SECTION							
Keep the AM loop antenna installed. SELECTOR: LW							
(5)	BAND EDGE (1)	-	Connect a DC voltmeter between TP71 and 72.	153kHz	(X14-174) L3	1.5V	(d)
(6)	BAND EDGE (2)	-	Connect a DC voltmeter between TP71 and 72.	281kHz	(X14-174) TC3	8.0V	(d)
Repeat alignments (5) and (6) several times.							
(7)	RF ALIGNMENT (1)	(D) 164kHz 400Hz, 30% mod	(B)	164kHz	(X14-174) L1	Maximum amplitude and symmetry of the oscilloscope display.	
(8)	RF ALIGNMENT (2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	(X14-174) TC1	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (7) and (8) several times.							

SYSTEM CONNECTIONS

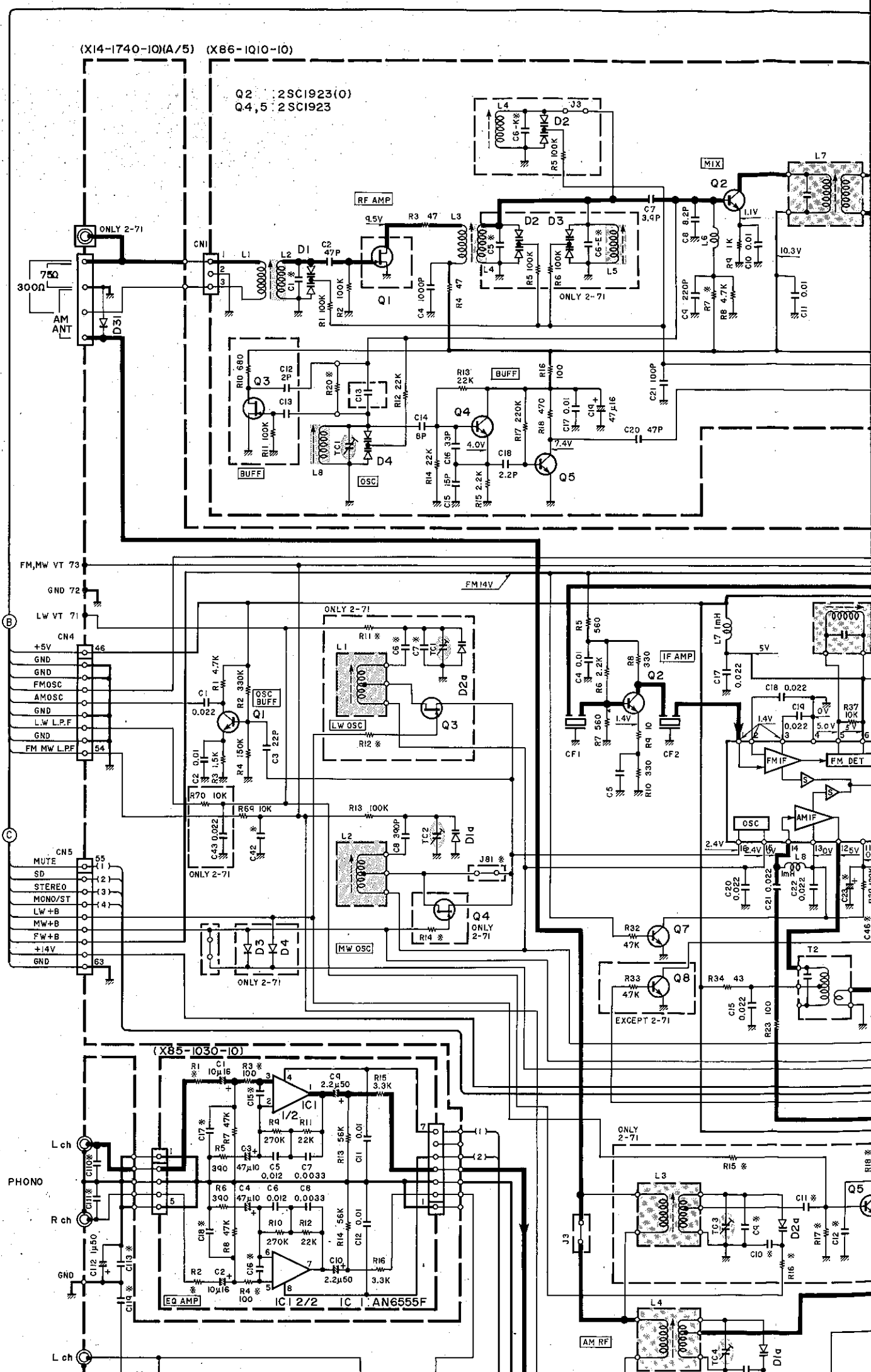


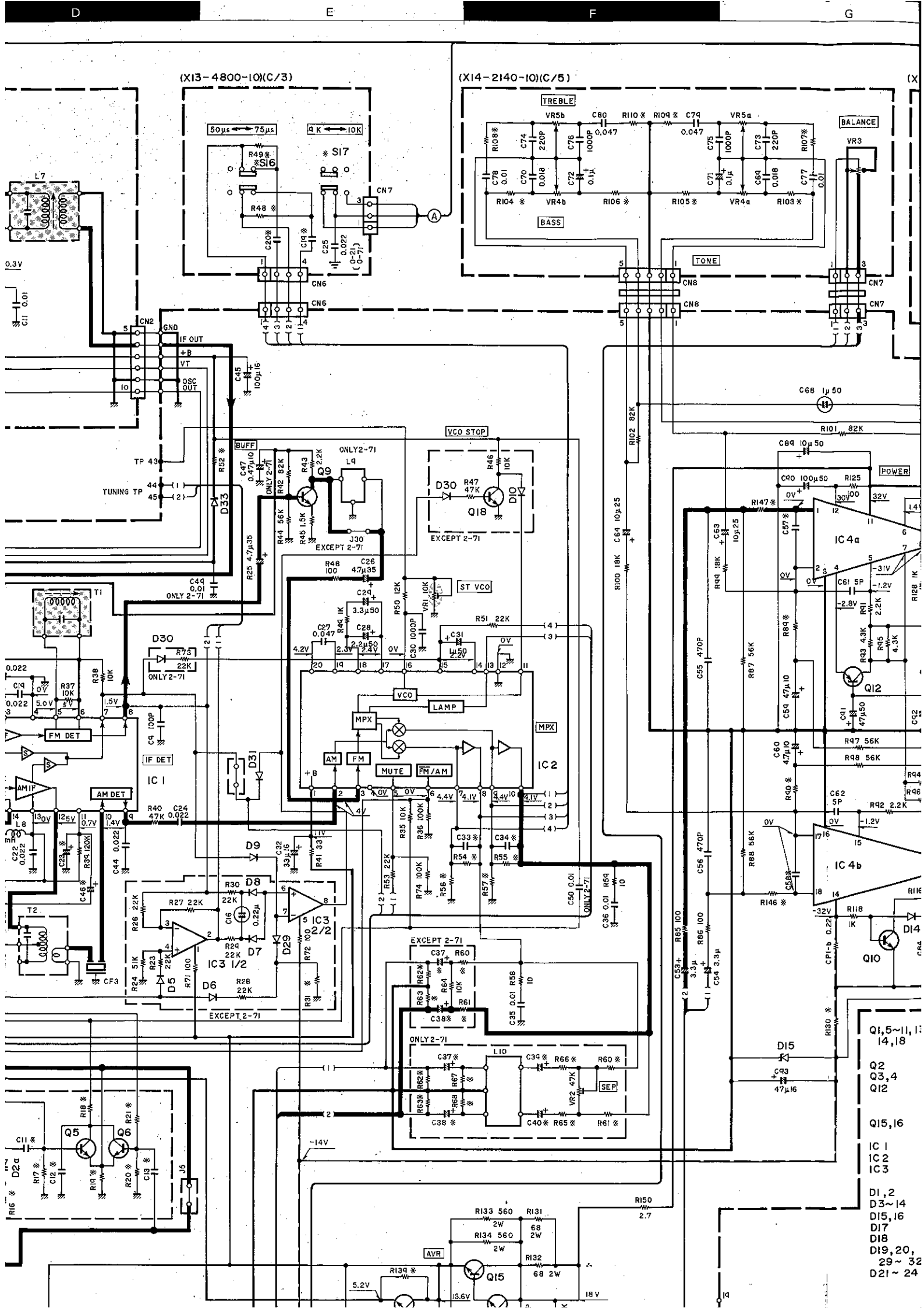
REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR: FM MODE: AUTO							
1	BORD DE BANDE (1)	-	Connecter un voltmètre CC entre les TP72 et 73.	87,5MHz	(X86-1010) L8	2,5V	(a)
2	BORD DE BANDE (2)	-	Connecter un voltmètre CC entre les TP72 et 73.	108MHz	(X86-1010) TC1	8,0V	(a)
Répéter les points 1 et 2 plusieurs fois.							
3	ALIGNEMENT HT	(A) 98,0MHz 1kHz, ±75kHz dév	(B)	MODE: MONO 98,0MHz	(X86-1010) L2,4 (L5)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
4	DISCRIMINATEUR	(A) 98,0MHz 1kHz, ±75kHz dév 80dB(Entrée ANT)	Connecter un voltmètre CC entre les TP44 et 45.	MODE: MONO 98,0MHz	(X14-174) T1	0 V	(b)
5	VCO	(A) 98,0MHz 0 dév 60dB(Entrée ANT)	Connecter une résistance de 330kΩ à TP43. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,0MHz	(X14-174) VR1	76,00kHz	(c)
6	DISTORSION (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz dév Selection: L ou R Signal pilote: ±6,75kHz dév 80dB(Entrée ANT)	(B)	98,0MHz	(X86-1010) L7	Distorsion minimale.	
SECTION MA-OM Laisser l'antenne bouche MA installée. SELECTEUR: AM							
(1)	BORD DE BANDE	-	Connecter un voltmètre CC entre les TP72 et 73.	520kHz (522kHz)	(X14-174) L2	1,5V	(a)
(2)	BORD DE BANDE	-	Connecter un voltmètre CC entre les TP72 et 73.	1600kHz (1602kHz)	(X14-174) TC2	8,0V	(a)
Répéter les points (1) et (2) plusieurs fois.							
(3)	ALIGNEMENT HT (1)	(D) 600kHz 400Hz, 30% mod	(B)	600kHz	(X14-174) L4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT HT (2)	(D) 1400kHz 400Hz, 30% mod	(B)	1400kHz	(X14-174) TC4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (3) et (4) plusieurs fois.							
SECTION MA-OL Laisser l'antenne bouche MA installée. SELECTEUR: LW							
(5)	BOAD DE BANDE (1)	-	Connecter un voltmètre CC entre les TP71 et 72.	153kHz	(X14-174) L3	1,5V	(d)
(6)	BOAD DE BANDE (2)	-	Connecter un voltmètre CC entre les TP71 et 72.	281kHz	(X14-174) TC3	8,0V	(d)
Répéter les points (5) et (6) plusieurs fois.							
(7)	ALIGNEMENT HT (1)	(D) 164kHz 400Hz, 30% mod	(B)	164kHz	(X14-174) L1	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(8)	ALIGNEMENT HT (2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	(X14-174) TC1	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (7) et (8) plusieurs fois.							

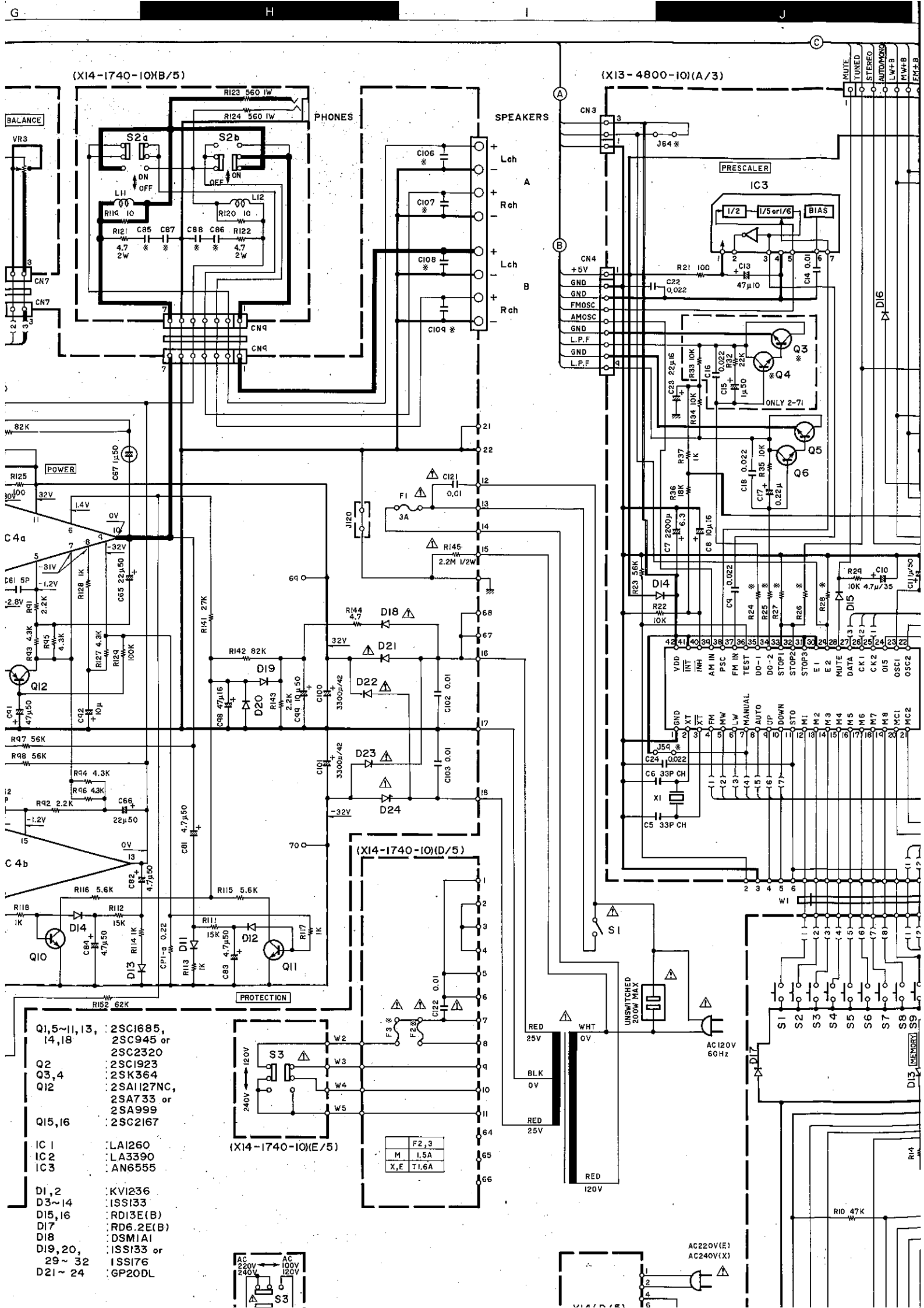
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SELECTOR: FM MODE: AUTO							
1	BANDKANTE (1)	-	Einen Gleichspannungsmesser zwischen TP72 und 73 anschließen.	87,5MHz	(X86-1010) L8	2,5V	(a)
2	BANDKANTE (2)	-	Einen Gleichspannungsmesser zwischen TP72 und 73 anschließen.	108MHz	(X86-1010) TC1	8,0V	(a)
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	EMPFANGS-BEREICH-ABSTIMMUNGEN	(A) 98,0MHz 1kHz, ±75kHz Hub	(B)	MODE: MONO 98,0MHz	(X86-1010) L2.4 (L5)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
4	DISKRIMINATOR	(A) 98,0MHz 1kHz, ±75kHz Hub 60dB(ANT-Eingang)	Einen Gleichspannungsmesser zwischen TP44 und 45 anschließen.	MODE: MONO 98,0MHz	(X14-174) T1	0 V	(b)
5	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dB(ANT-Eingang)	Einen 330kΩ Widerstand zu TP43 anschließen. Einen Frequenzzähler über einen Wechselspannungsmesser an den Widerstand anschließen.	98,0MHz	(X14-174) VR1	76,00kHz	(c)
6	KLIRRFAKTOR (STEREO)	(C) 98,0MHz 1kHz, ±88,25kHz Hub Wähler: L oder R Pilotten: ±6,75kHz Hub 60dB(ANT-Eingang)	(B)	98,0MHz	(X86-1010) L7	Minimal Klirrfaktor.	
MW-EMPFANGSABTEILUNG Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM							
(1)	BANDKANTE (1)	-	Einen Gleichspannungsmesser zwischen TP72 und 73 anschließen.	520kHz (522kHz)	(X14-174) L2	1.5V	(a)
(2)	BANDKANTE (2)	-	Einen Gleichspannungsmesser zwischen TP72 und 73 anschließen.	1600kHz (1602kHz)	(X14-174) TC2	8.0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 600kHz 400Hz, 30% mod	(B)	600kHz	(X14-174) L4	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1400kHz 400Hz, 30% mod	(B)	1400kHz	(X14-174) TC4	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
LW-EMPFANGSABTEILUNG Die MW-Rahmenantenne angebracht lassen. SELECTOR: LW							
(5)	BANDKANTE (1)	-	Einen Gleichspannungsmesser zwischen TP71 und 72 anschließen.	153kHz	(X14-174) L3	1.5V	(d)
(6)	BANDKANTE (2)	-	Einen Gleichspannungsmesser zwischen TP71 und 72 anschließen.	281kHz	(X14-174) TC3	8.0V	(d)
Abstimmungen (5) und (6) mehrere Male wiederholen.							
(7)	HF-ABGLEICH (1)	(D) 164kHz 400Hz, 30% mod	(B)	164kHz	(X14-174) L1	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(8)	HF-ABGLEICH (2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	(X14-174) TC1	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (7) und (8) mehrere Male wiederholen.							





- Q1, 5~11, 14, 18
- Q2, Q3, 4, Q12
- Q15, 16
- IC 1, IC 2, IC 3
- D1, 2, D3~14, D15, 16, D18, D19, 20, 29~32, D21~24



(X14-1740-10)(B/5)

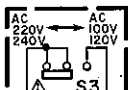
(X13-4800-10)(A/3)

(X14-1740-10)(D/5)

(X14-1740-10)(E/5)

- Q1,5~11,13, 2SC1685,
- 14,18 2SC945 or
- 2SC2320
- Q2 2SC1923
- Q3,4 2SK364
- Q12 2SA1127NC,
- 2SA733 or
- 2SA999
- Q15,16 2SC2167
- IC 1 LA1260
- IC 2 LA3390
- IC 3 AN6555
- D1,2 KVI236
- D3~14 ISSI33
- D15,16 RDI3E(B)
- D17 RD6.2E(B)
- D18 DSM1A1
- D19,20, ISSI33 or
- 29~32 ISSI76
- D21~24 6P20DL

F2,3	
M	1.5A
X,E	1.6A



AC220V(E)
AC240V(X)

RI0 47K

RI4

DI3 MEMORY

W1

W2

W3

W4

W5

W6

W7

W8

W9

W10

W11

W12

W13

W14

W15

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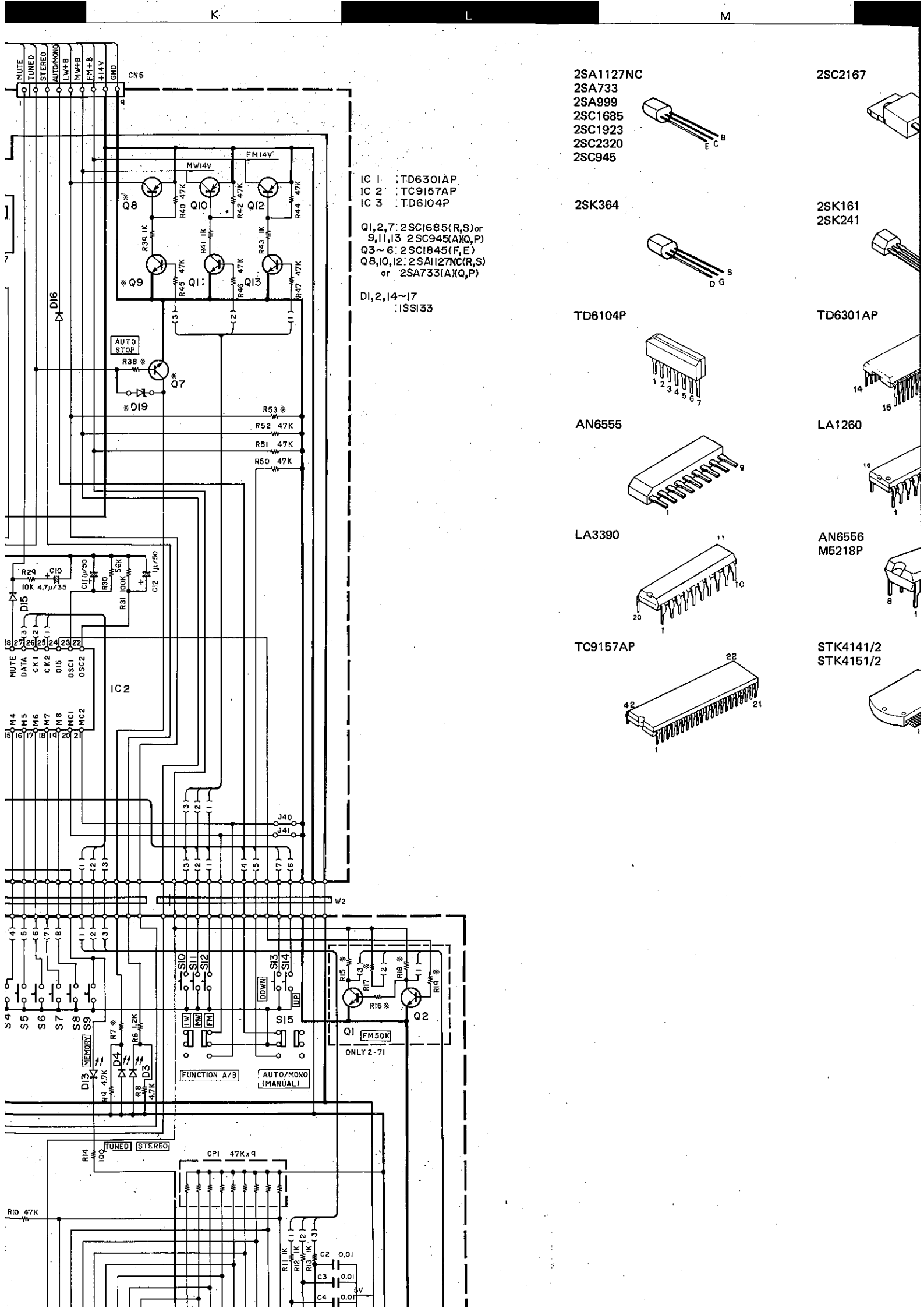
W292

W293

W294

W295

W296

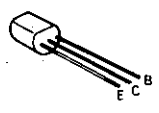


IC 1 : TD6301AP
 IC 2 : TC9157AP
 IC 3 : TD6104P

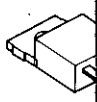
Q1,2,7: 2SC1685(R,S) or
 9,11,13 2SC945(A,X,Q,P)
 Q3~6: 2SC1845(F,E)
 Q8,10,12: 2SA1127NC(R,S)
 or 2SA733(A,X,Q,P)

D1,2,14~17
 :ISSI33

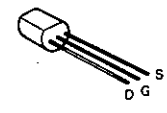
2SA1127NC
 2SA733
 2SA999
 2SC1685
 2SC1923
 2SC2320
 2SC945



2SC2167



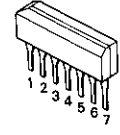
2SK364



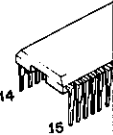
2SK161
 2SK241



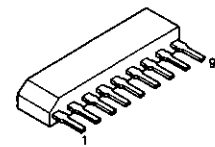
TD6104P



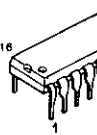
TD6301AP



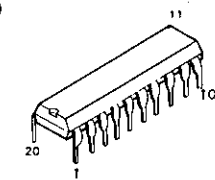
AN6555



LA1260



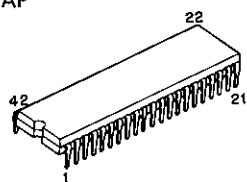
LA3390



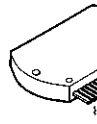
AN6556
 M5218P

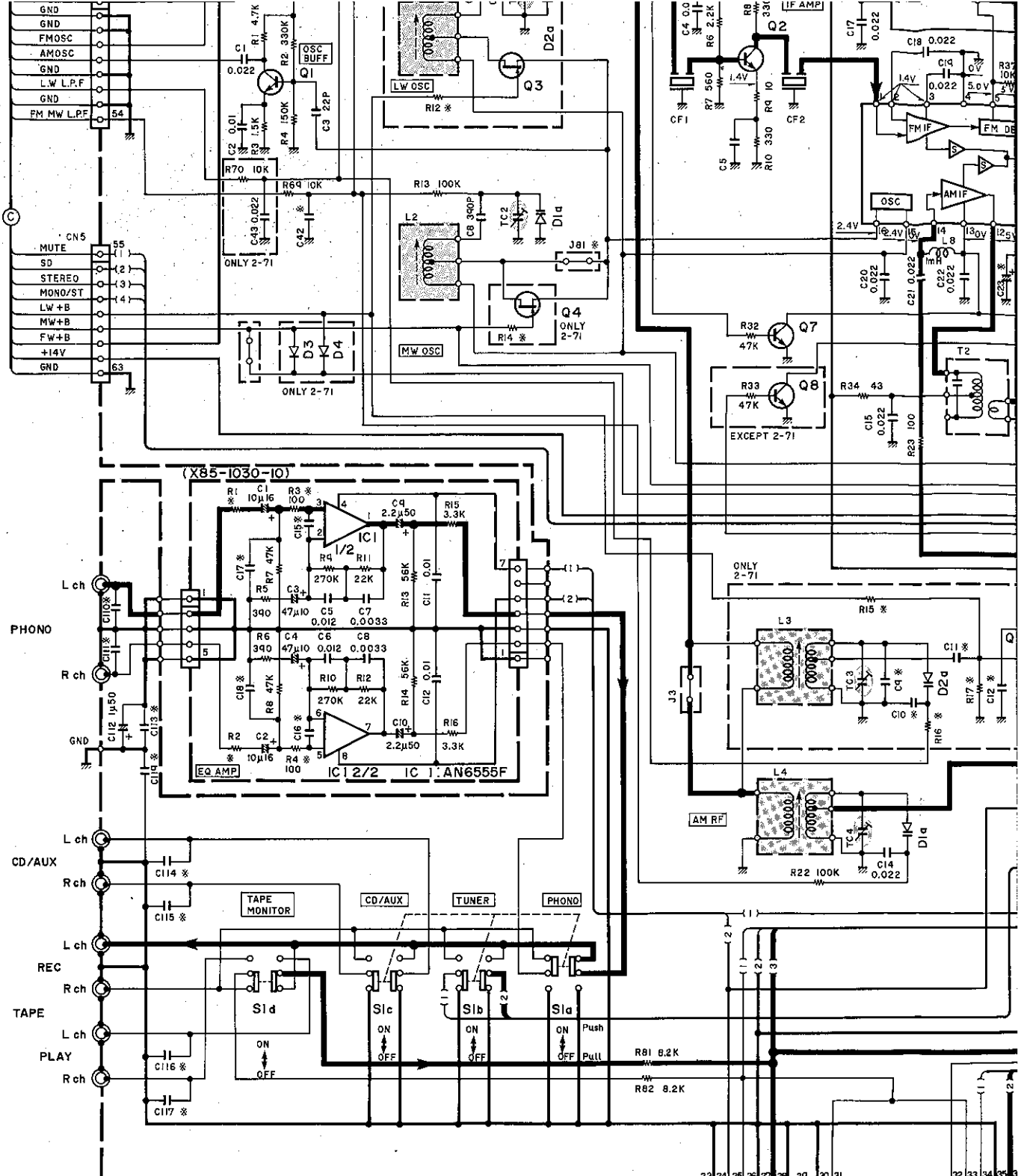


TC9157AP



STK4141/2
 STK4151/2





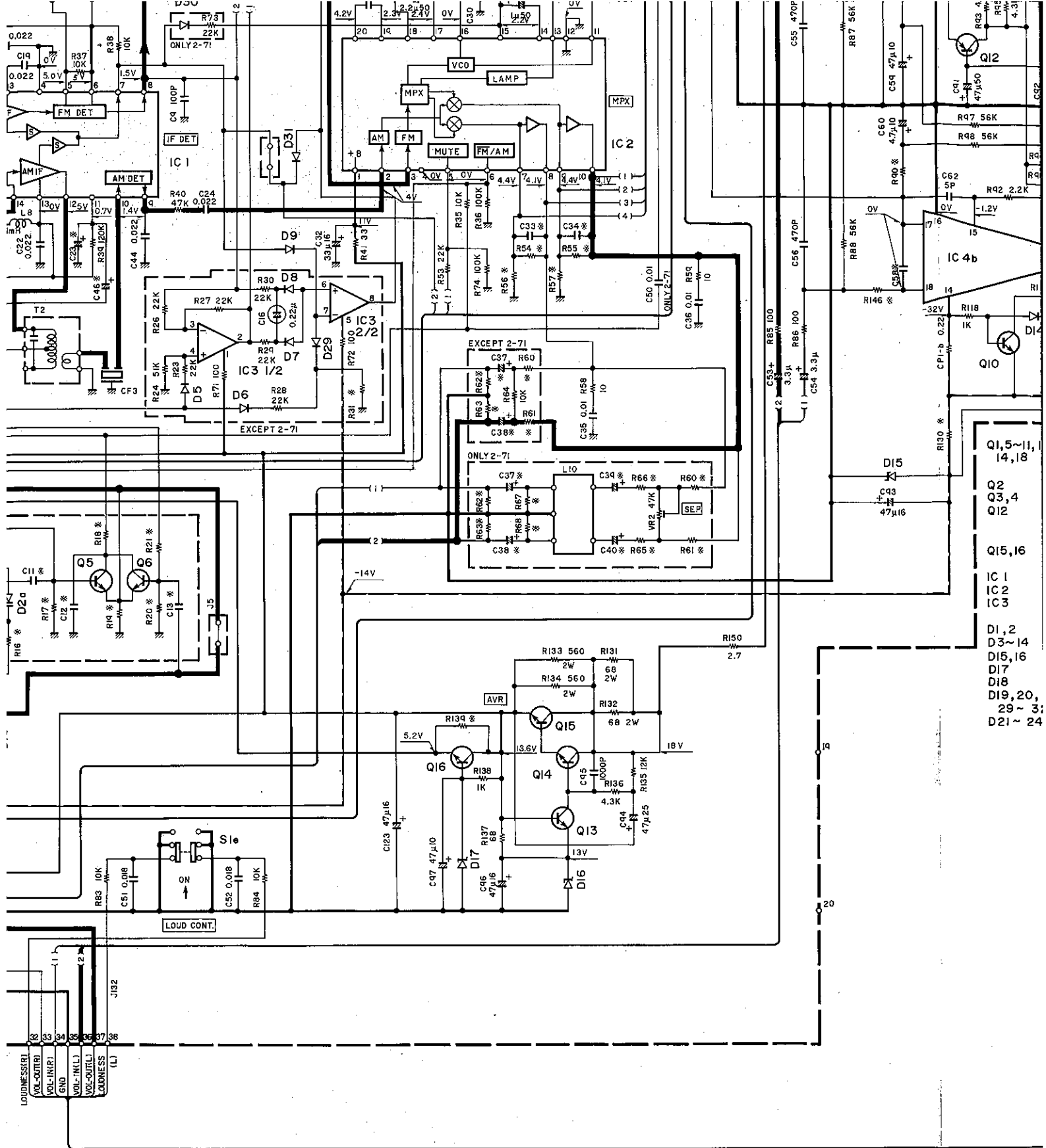
DESTINATION	R11	R12	R14	R15	R16	R17	R18	R19	R20	R21	R31	R52	R54	R55	R56	R57	R30	C23	C42	C46	
X14-174	0-10 K,P	NO	NO	NO	NO	NO	NO	NO	NO	NO	27K	56	68K	68K	NO	NO	IK2W	1μ	5P	4.7μ	
0-21	M	NO	NO	NO	NO	NO	NO	NO	NO	NO	36K	56	68K	68K	NO	NO	IK2W	1μ	5P	4.7μ	
0-71	X	NO	NO	NO	NO	NO	NO	NO	NO	NO	36K	56	68K	68K	NO	NO	IK2W	1μ	5P	4.7μ	
2-71	E	100K	47K	47K	1M	100K	510K	220	1K	510K	1M	NO	100	110K	110K	470K	470K	L2K2W	10μ	22P	NO

DESTINATION	R60	R61	R62	R63	R65,66	R67,68	R89,90	R103,104	R105,106	R107,108	R109,110	
X14-174	0-10 K,P	1.5K	1.5K	56K	56K	NO	NO	680	4.1K	2K	2.7K	330
0-21	M	1.5K	1.5K	56K	56K	NO	NO	680	4.1K	2K	2.7K	330
0-71	X	1.5K	1.5K	56K	56K	NO	NO	680	4.1K	2K	2.7K	330
2-71	E	1K	1K	220K	220K	2.2K	3.3K	750	NO	NO	NO	NO

DESTINATION	Q1	Q3	C1	C5	C6	C12
X86-101 0-10 KPMX	2SK161	NO	3.9P	NO	3.9P	NO
2-71	E	2SK241	2SK161	2.2P	4P	6P

DESTINATION	R145	R146,146	C6	C7	C9,57,58	C10,11,12	C13	C33,34	C37,38	C39,40	C85,86	C87,88	C106-109	C110,111	C113,114	C14-117	C121,122
X14-174	0-10 K,P	R42-0173-05	Jumper	NO	NO	NO	NO	1100P	0.33μ50	NO	0.1	NO	NO	NO	NO	NO	C91-0647
0-21	M	NO	Jumper	NO	NO	NO	NO	750P	0.33μ50	NO	0.1	NO	NO	NO	NO	NO	C91-0647
0-71	X	NO	Jumper	NO	NO	NO	NO	750P	0.33μ50	NO	0.1	NO	NO	NO	NO	NO	C91-0647
2-71	E	NO	2.2K	220P	150P	100P	0.022	0.022	470P	10μ50	1μ50	0.22	0.22	6800P	18P	680P	330P

LOUDNESS(R)
VOL-OUT(R)
VOL-IN(R)
GND
VOL-IN(L)
VOL-OUT(L)



- Q1,5-11, 14,18
- Q2
- Q3,4
- Q12
- Q15,16
- IC 1
- IC 2
- IC 3
- D1, 2
- D3~14
- D15,16
- D18
- D19, 20,
- 29~31
- D21~24

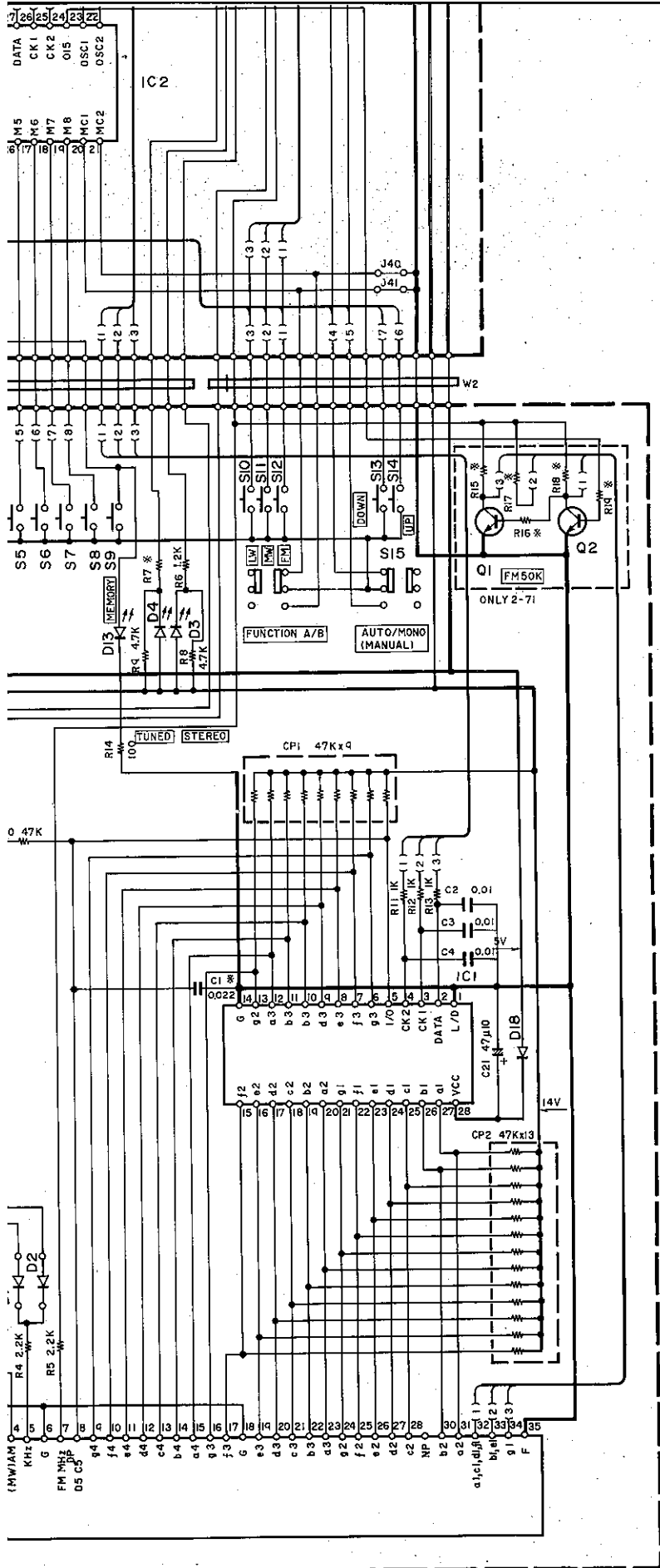
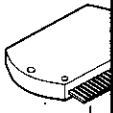
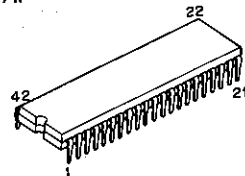
C5	C6	C12	C13	R6	R7	R10	R11	R20
P NO	3.9P	NO	IP	NO	22K	6.80	6.80	Jumper
P	9P	6P	2P	2.2P	100K	33K	100K	100K

DESTINATION	R1,2	R3,4	C15,16	C17,18
X85-103	0-10	KPUM UE	100	Jumper
	2-71	XTE	1K	YES

J14~117	C121,122	05~10,29,31	D3,4,11~13	D2	IC3	IC4	Q18	Q5,6	Q3,4
NO	C41-0647-05	YES	NO	NO	YES	STK4151/2	YES	NO	NO
NO	C41-0647-05	YES	NO	NO	YES	STK4151/2	YES	NO	NO
NO	C41-0647-05	YES	NO	NO	YES	STK4151/2	YES	NO	NO
330P	C41-0647-06	NO	YES	YES	NO	STK4141/2	NO	YES	YES

DESTINATION	D1	D2	D19	S10	S16,17	Q1,2	Q3,4	Q7	Q8,9	R2	R7	R15	R16	R17	R18	R19	R24	R26	R28
X13-480	0-10	KPX	Jumper	NO	NO	NO	NO	YES	NO	NO	620	NO	NO	NO	NO	NO	NO	18K	NO
	0-21	M	Jumper	NO	NO	YES	YES	NO	YES	NO	620	47K	100K	6.8K	15K	100K	NO	18K	NO
	2-71	E	ISS133	ISS133	YES	NO	YES	NO	YES	YES	4.7K	4.30	47K	100K	6.8K	15K	100K	33K	NO

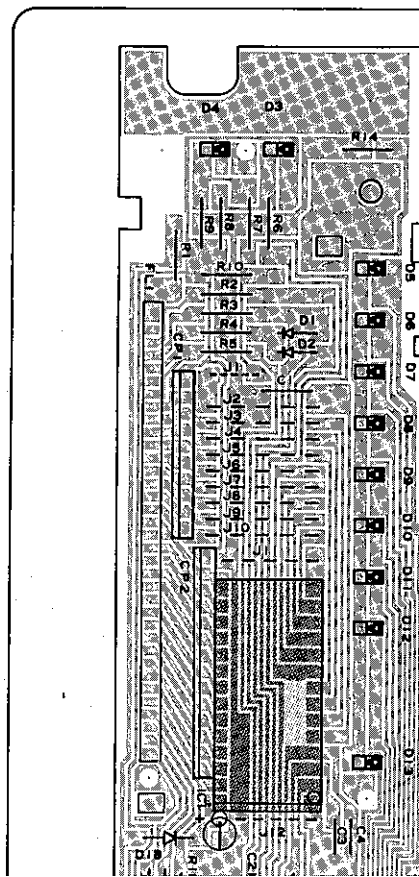
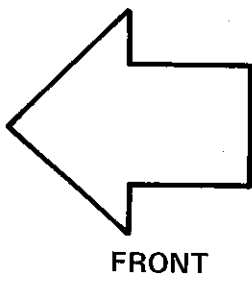
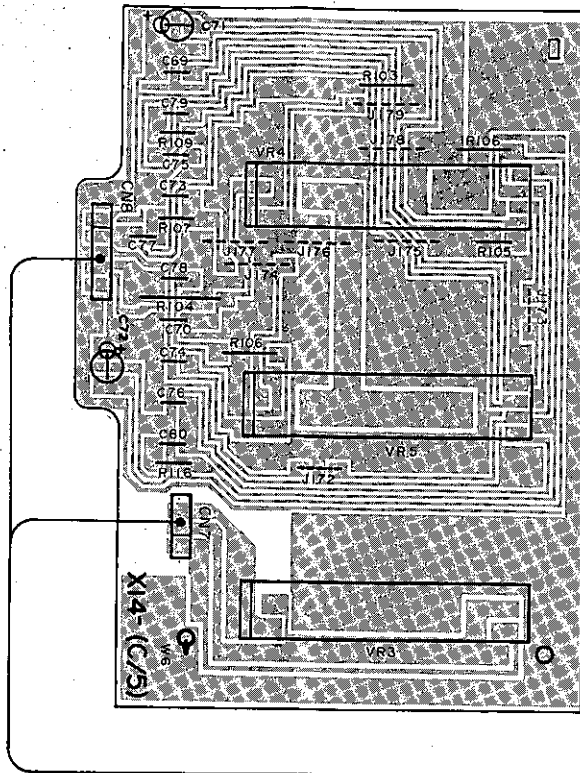
DESTINATION	R32	R33	R38	R39	R40	R45	R48,49	R50	R53	C15	C16	C19,20	J40,41	J54	J64
X13-480	0-10	KPX	NO	NO	56K	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES
	0-21	M	NO	NO	56K	NO	NO	NO	NO	NO	NO	330P	YES	NO	NO
	2-71	E	22K	10K	NO	1K	47K	47K	NO	47K	1.50	0.022	NO	YES	NO

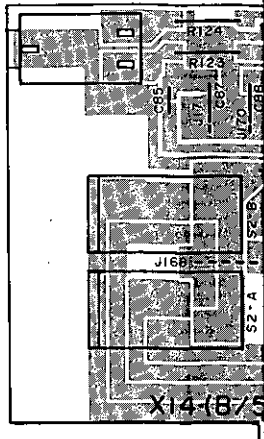
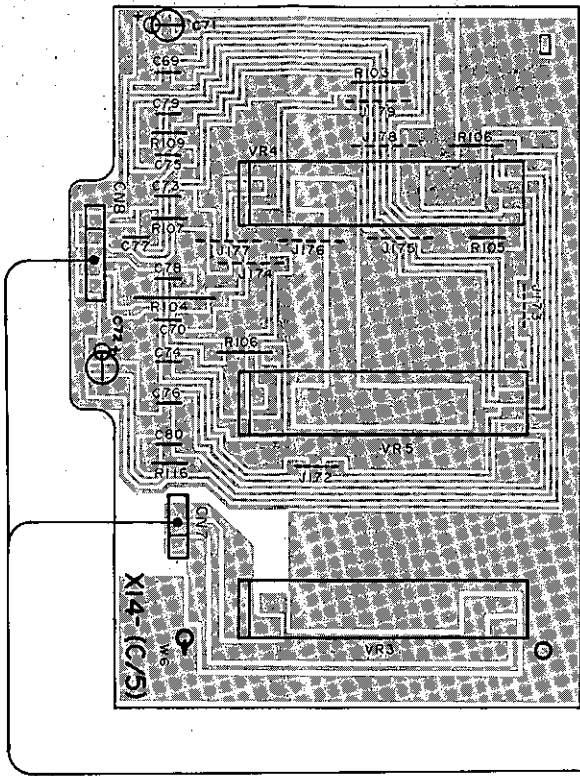


KR-A10(K)

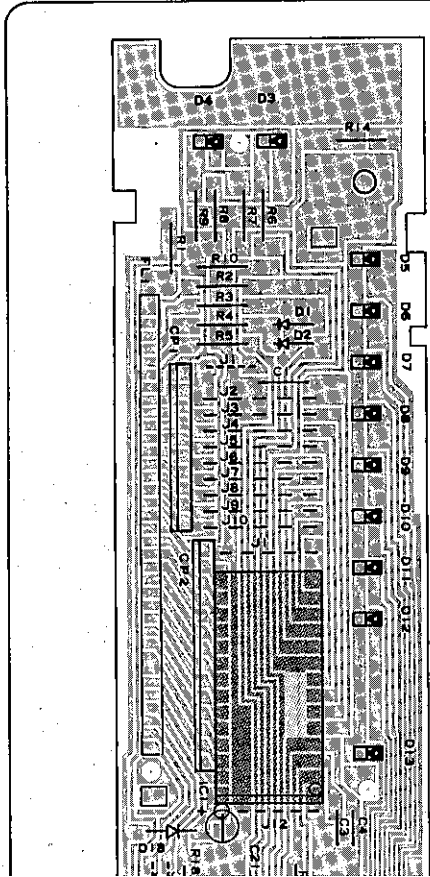
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent varier légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Die Meßwerte können schwanken aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten.

CAUTION: For continued safety, replace safety components only with manufacturer's recommendation (see parts list). **⚠**Indicates safety critical components. Measurements shall be carried out (exposed parts shall be insulated from the supply circuit) before the unit is returned to the customer.

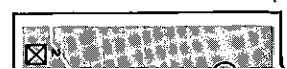




FRONT



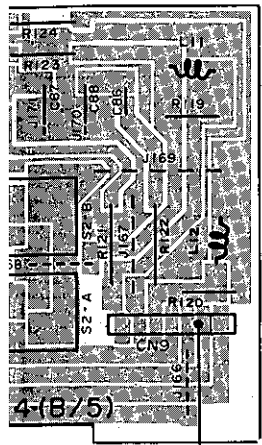
SWITCH (X13-4800-10)
Component side view



PC BOARD

RECEIVER (X14-1740-10)
Component side view

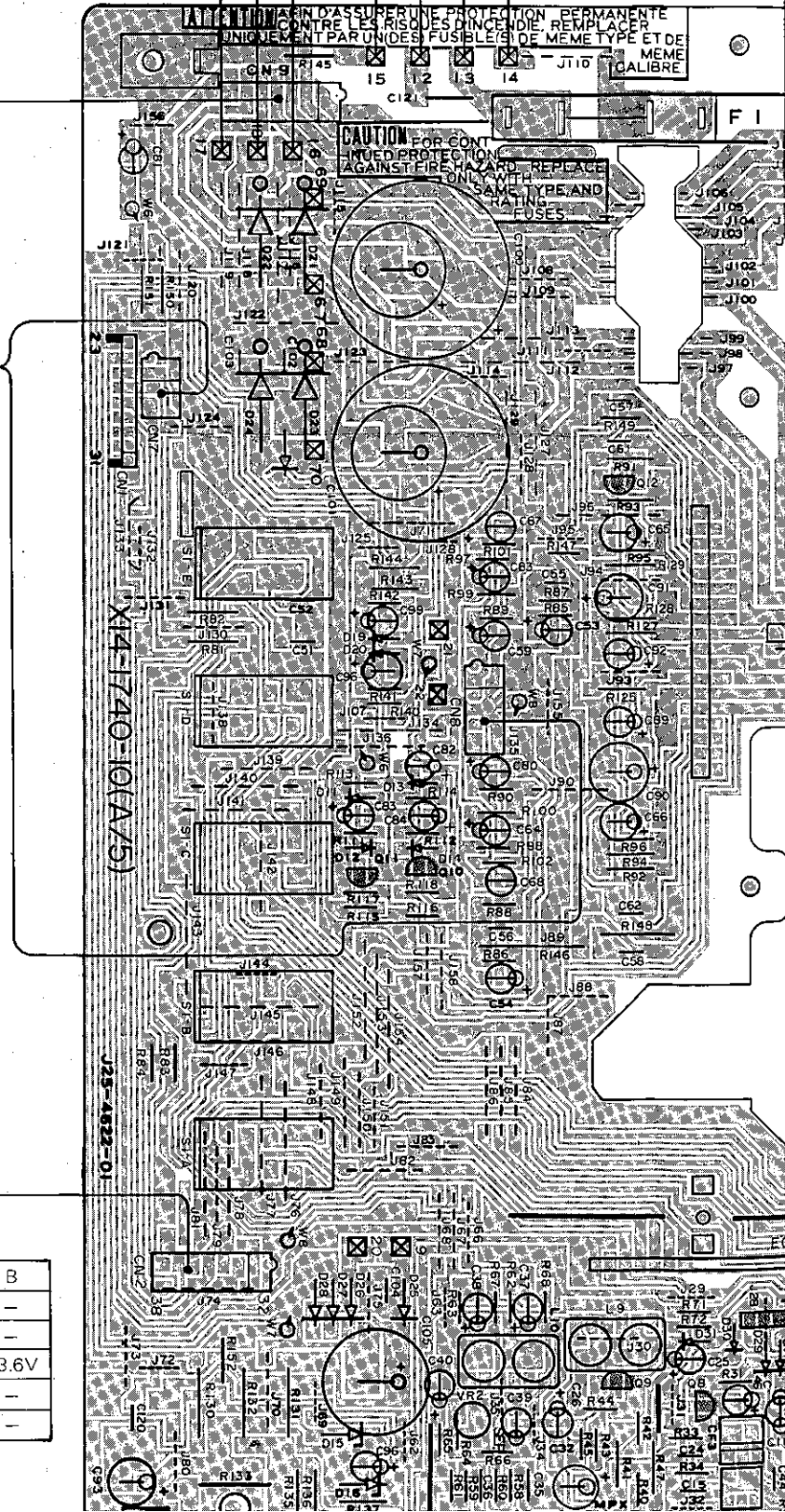
BLK
RED
RED
WHT
RED



4-(B/5)

ATTENTION: ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE. REMPLACER UNIQUEMENT PAR UN DES FUSIBLES DE MEME TYPE ET DE MEME CALIBRE.

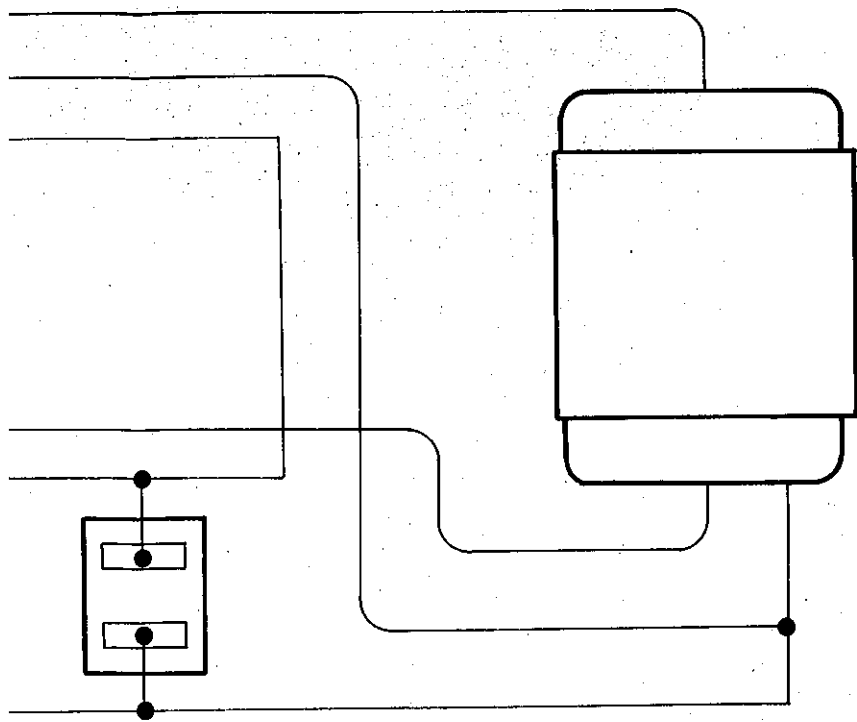
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRES, ONLY REPLACE WITH SAME TYPE AND RATING FUSES.



(X14-1740-10)

	E	C	B
Q2	1.4V	—	—
Q16	5.2V	13.6V	—
Q13	13V	—	13.6V
Q14	—	18V	—
Q15	13.6V	18V	—

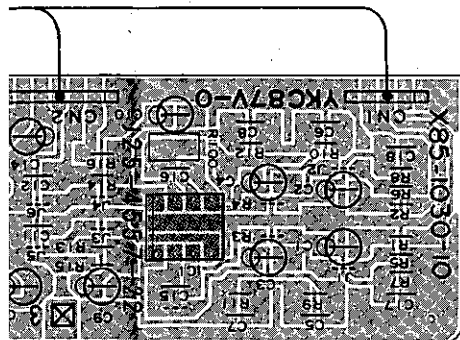
1-10)
N



IC4

1	0V	10	0V
2	0V	11	32V
3	0V	12	30V
4	+2.8V	13	0V
5	-1.2V	14	-32V
6	-1.4V	15	-1.2V
7	-31V	16	0V
8	-31V	17	0V
9	-32V	18	0V

EAMP (X85-1030-10) Component side view

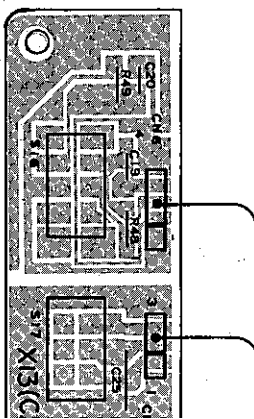
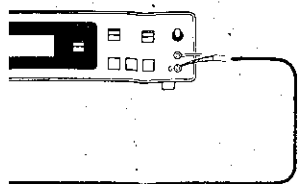


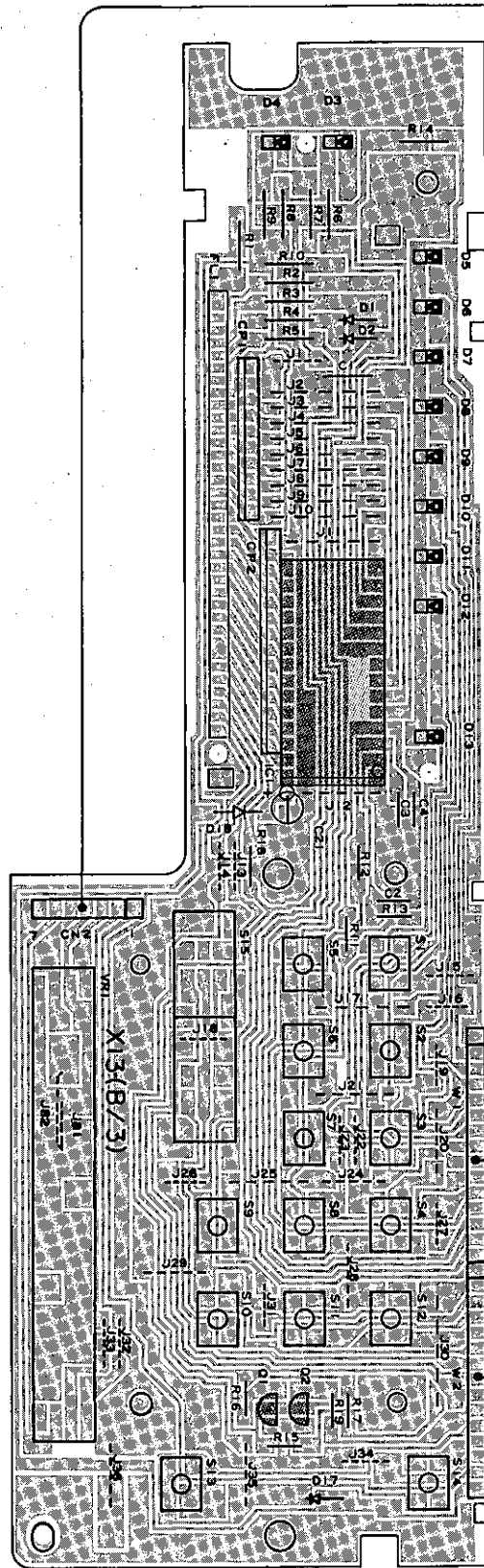
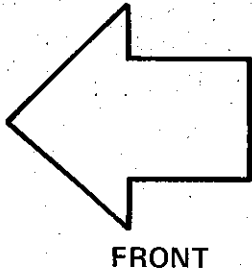
(X85-1030-10)

IC1

1	-
2	-
3	-
4	-14V
5	-
6	-
7	-
8	13.6V

frequency counter





(X13-4800-10)

	E	C	B
Q8	14V	-	-
Q10	14V	MW : 14V	-
Q12	14V	FM : 14V	-

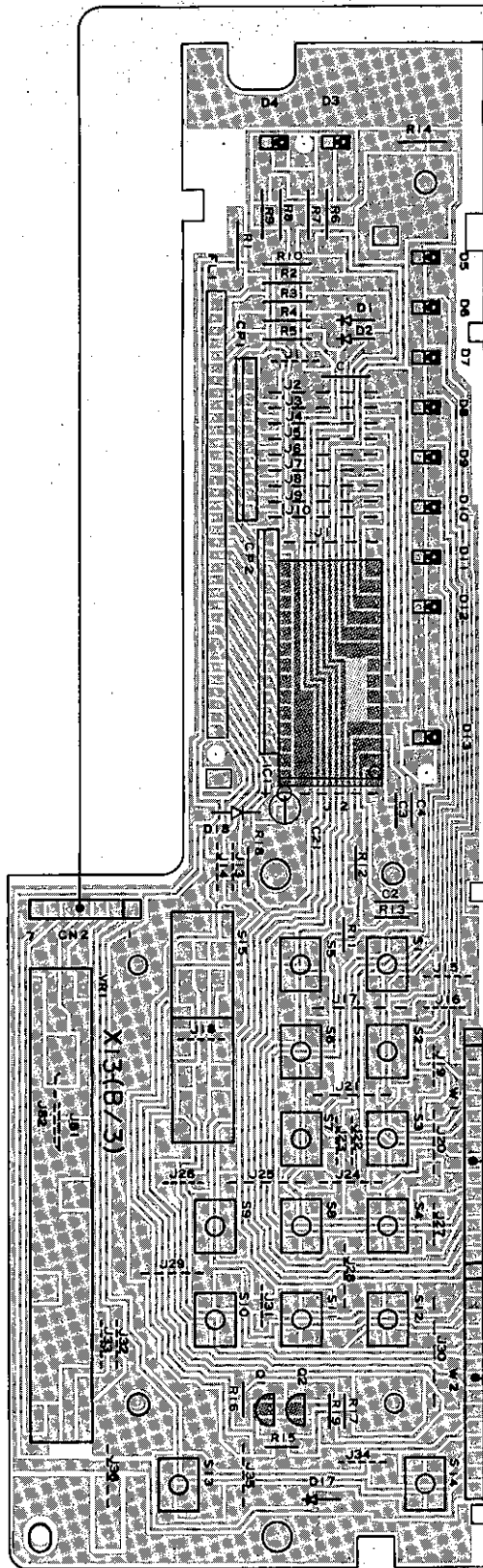
IC1

15	14V
----	-----

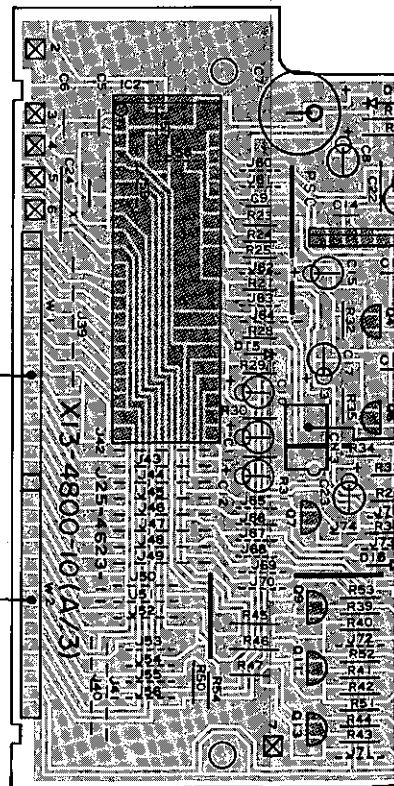
Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.



NT



SWITCH (X13-4800-10)
Component side view



(X13-4800-10)

	E	C	B
Q8	14V	-	-
Q10	14V	MW : 14V	-
Q12	14V	FM : 14V	-

IC1

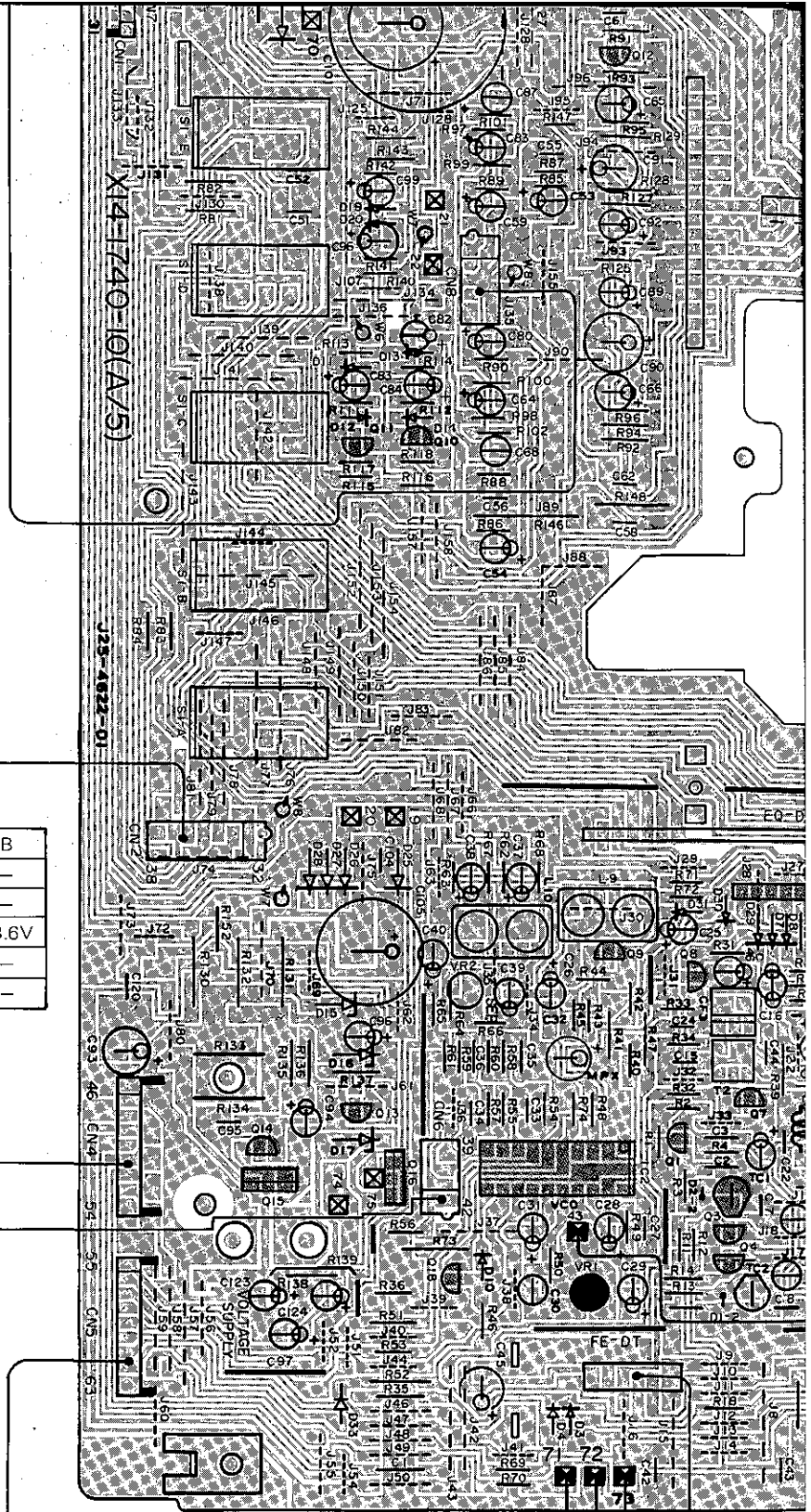
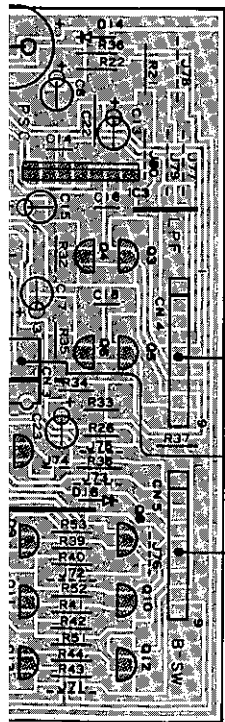
15	14V
----	-----

natic diagram for the values of resistors and capacitors.
wing is viewing from the side easy to check.

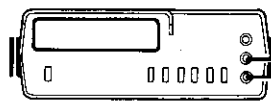
D)

(X14-1740-10)

	E	C	B
Q2	1.4V	—	—
Q16	5.2V	13.6V	—
Q13	13V	—	13.6V
Q14	—	18V	—
Q15	13.6V	18V	—



(d)
DC voltmeter

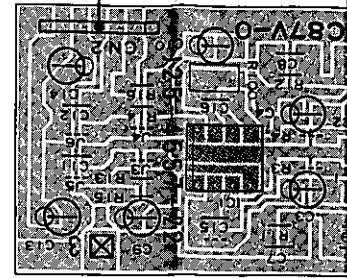


3	1.4V	11	0.7V
4	0V	12	5V
5	5V	13	0V
6	5V	14	0V
7	-	15	2.4V
8	1.5V	16	2.4V

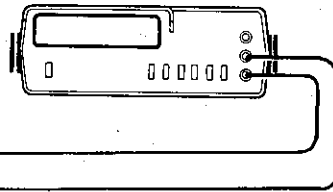
5	0V	15	2.2V
6	0V	16	0V
7	4.4V	17	2.4V
8	4.1V	18	2.4V
9	4.4V	19	2.3V
10	4.1V	20	4.2V

4	-2.8V	13	-
5	-1.2V	14	-
6	-1.4V	15	-
7	-31V	16	0
8	-31V	17	0
9	-32V	18	0

PREAMP (X85-1030-10) C



(b) DC voltmeter

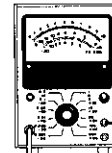


(c)

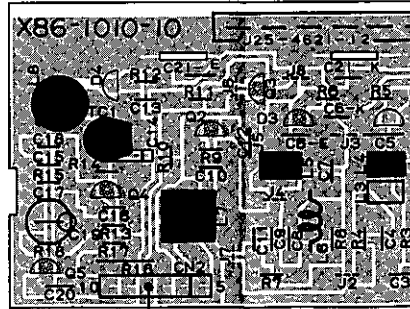
Frequency counter



AC voltmeter

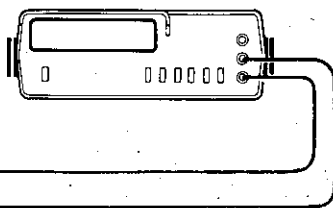


330kΩ



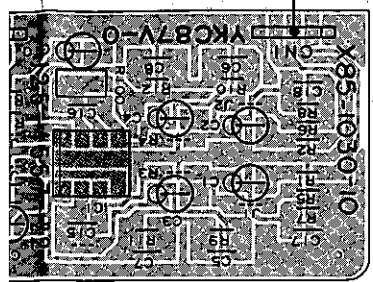
FRONT-END (X86-1010-10)
Component side view

(a) DC voltmeter



-2.8V	13	0V
-1.2V	14	-32V
-1.4V	15	-1.2V
-31V	16	0V
-31V	17	0V
-32V	18	0V

(X85-1030-10) Component side view

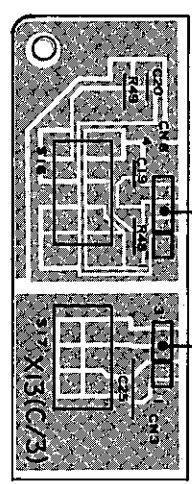
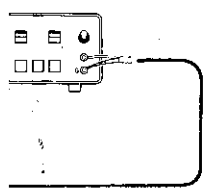


(X85-1030-10)

IC1

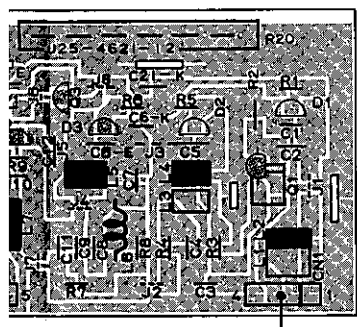
1	-
2	-
3	-
4	-14V
5	-
6	-
7	-
8	13.6V

y



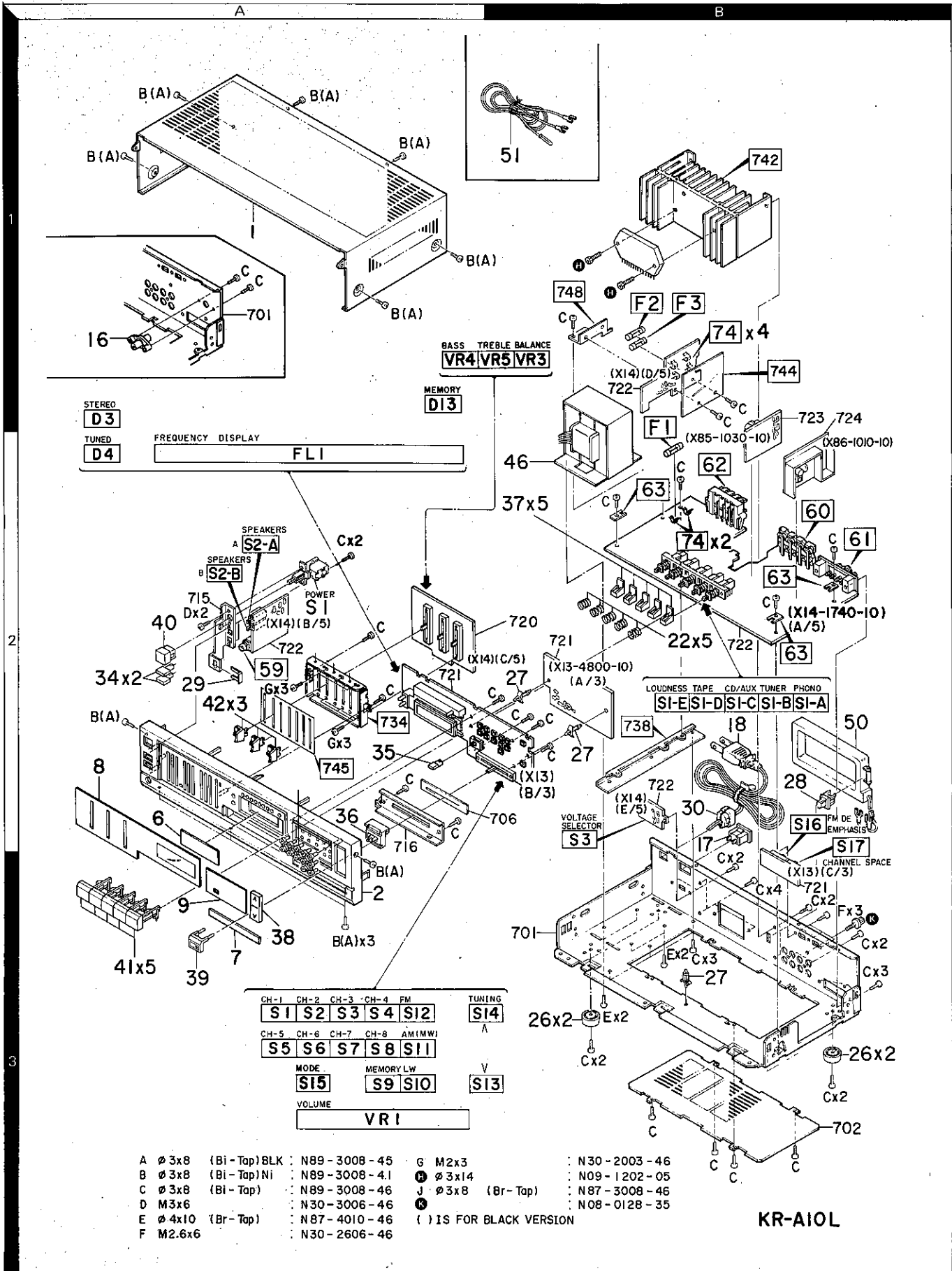
(X86-1010-10)

	G	D	S
Q1	-	9.5V	-
	E	C	B
Q2	1.1V	-	-
Q4	4.0V	-	-
Q5	0V (GND)	7.4V	-



(X86-1010-10)
de view

EXPLODED VIEW



A	∅ 3x8 (Bl-Tap)BLK	N89-3008-45	G	M2x3	N30-2003-46
B	∅ 3x8 (Bl-Tap)NI	N89-3008-41	H	∅ 3x14	N09-1202-05
C	∅ 3x8 (Bl-Tap)	N89-3008-46	J	∅ 3x8 (Br-Top)	N87-3008-46
D	M3x6	N30-3006-46	K		N08-0128-35
E	∅ 4x10 (Br-Top)	N87-4010-46			
F	M2.6x6	N30-2606-46			

() IS FOR BLACK VERSION

KR-A10L

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

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
KR-A10						
1	1A	*	A01-1390-01	METALLIC CABINET	KPMXE	
1	1A	*	A01-1404-01	METALLIC CABINET	E	
2	3A	*	A20-4281-01	PANEL	KPMXE	
2	3A	*	A20-4311-01	PANEL	E	
6	2A	*	B03-1743-04	DRESSING PLATE(F DISP FILTER)		
7	3A	*	B03-1744-04	DRESSING PLATE(UNDER VOL KNOB)	KPMXE	
7	3A	*	B03-1786-04	DRESSING PLATE(UNDER VOL KNOB)	E	
8	2A	*	B03-1738-03	DRESSING PLATE(TONE, BAL, DISP)	KPMX	
8	2A	*	B03-1740-03	DRESSING PLATE(TONE, BAL, DISP)	EE	
9	3A	*	B03-1741-04	DRESSING PLATE(PRESET CHANNEL)	KPMX	
9	3A	*	B03-1742-04	DRESSING PLATE(PRESET CHANNEL)	E	
9	3A	*	B03-1785-04	DRESSING PLATE(PRESET CHANNEL)	E	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0096-13	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-		*	B46-0122-13	WARRANTY CARD	EE	
-		*	B50-5588-00	INSTRUCTION MANUAL(ENGLISH)	KPMX	
-		*	B50-5589-00	INSTRUCTION MANUAL(FRENCH)	PMX	
-		*	B50-5590-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-5591-00	INSTRUCTION MANUAL(ARABIC)	M	
-		*	B50-5593-00	INSTRUCTION MANUAL(E,F,G,D,I)	EE	
-			B58-0245-33	CAUTION CARD	EE	
-			B58-0269-04	CAUTION CARD	K	
13	2A	*	D21-1075-04	EXTENSION SHAFT		
16	1A		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	EE	
△ 17	2B		E03-0036-05	AC OUTLET	KM	
△ 17	2B		E03-0041-05	AC OUTLET	P	
△ 18	2B		E30-0181-05	AC POWER CORD	K	
△ 18	2B		E30-0459-05	AC POWER CORD	EE	
△ 18	2B		E30-0812-05	AC POWER CORD	M	
△ 18	2B		E30-0974-05	AC POWER CORD	P	
△ 18	2B		E30-1341-05	AC POWER CORD	X	
22	2B	*	G01-1623-04	COMPRESSION SPRING		
-		*	H01-5384-04	ITEM CARTON CASE	KPMX	
-		*	H01-5386-04	ITEM CARTON CASE	E	
-		*	H01-5414-04	ITEM CARTON CASE	E	
-		*	H10-1783-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H12-0198-04	PACKING FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350)		
-			H25-0232-04	PROTECTION BAG (235X350)		
26	3B		J02-0129-05	FOOT		
27	2B, 3B		J19-0506-05	UNIT HOLDER		
28	2B		J19-0626-12	ANTENNA HOLDER		
29	2A		J21-3326-05	JACK MOUNTING HARDWARE		
△ 30	2B		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
34	2A		K27-1304-04	KNOB (BUTTON) SPEAKERS A/B	KPMXE	
34	2A	*	K27-1481-04	KNOB (BUTTON) SPEAKERS A/B	E	
35	2A	*	K27-1438-04	KNOB (BUTTON) MODE	KPMXE	
35	2A	*	K27-1482-04	KNOB (BUTTON) MODE	E	

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36	2A	*	K27-1439-04	KNØB (BUTTON) VOL KNØB ADPT	E KPMXE E		
37	2B	*	K27-1460-04	KNØB ADAPTER SELECTØR			
38	3A		K27-1305-04	KNØB (CAP) TUNING			
38	3A	*	K27-1476-04	KNØB (CAP) TUNING			
39	3A		K29-1847-04	KNØB (SLIDE) VØLUME			
39	3A		K29-1862-04	KNØB (SLIDE) VØLUME			
40	2A		K29-1446-04	KNØB ASSY (BUTTON) POWER			
40	2A		K29-2001-04	KNØB ASSY (BUTTON) POWER			
41	3A	*	K29-2043-04	KNØB ASSY (BUTTON) SEL.,LØUD			
42	2A	*	K29-2125-04	KNØB (SLIDE) BASS, TREB, BAL	KPMXE E KPMXE		
△	46	2B	*	L01-4001-05	POWER TRANSFORMER	K EE M X P	
△	46	2B	*	L01-4002-05	POWER TRANSFORMER		
△	46	2B	*	L01-4005-05	POWER TRANSFORMER		
△	46	2B	*	L01-4007-05	POWER TRANSFORMER		
△	46	2B	*	L01-4008-05	POWER TRANSFORMER		
K	3B		N08-0128-35	BINDING POST (GND)			
△	S1	2A	S40-1066-05	PUSH SWITCH (POWER TYPE)			
	50	2B	T90-0104-15	LOOP ANTENNA	KPMX EE		
	50	2B	T90-0111-15	LOOP ANTENNA			
	51	1B	T90-0132-05	T TYPE ANTENNA			
SWITCH (X13-4800-10)							
D3	1A		B30-0483-05	LED(SLP-170B) STEREO	EE EE MX		
D4	2A		B30-0484-05	LED(SLP-270B) TUNED			
D13	1A		B30-0483-05	LED(SLP-170B) MEMORY			
C1			C91-0085-05	CERAMIC 0.022UF N			
C2 -4			C91-0769-05	CERAMIC 0.01UF M			
C5 ,6			CC45FCH1H330J	CERAMIC 33PF J			
C7			CE04FW0J222M	ELECTRØ 2200UF 6.3WV			
C8			CE04FW1C100M	ELECTRØ 10UF 16WV			
C9			CK45FF1H223Z	CERAMIC 0.022UF Z			
C10			CE04FW1V4R7M	ELECTRØ 4.7UF 35WV			
C11 ,12			CE04FW1H010M	ELECTRØ 1.0UF 50WV			
C13			CE04FW1A470M	ELECTRØ 47UF 10WV			
C14			CK45FF1H223Z	CERAMIC 0.022UF Z			
C15			CE04FW1H010M	ELECTRØ 1.0UF 50WV			
C16			CK45FF1H223Z	CERAMIC 0.022UF Z			
C17			CE04FW1HR22M	ELECTRØ 0.22UF 50WV			
C18			CK45FF1H223Z	CERAMIC 0.022UF Z			
C19 ,20			CC45FSL1H331J	CERAMIC 330PF J			
C21			CE04FW1A470M	ELECTRØ 47UF 10WV			
C22			C91-0085-05	CERAMIC 0.022UF N			
C23			CE04FW1C220M	ELECTRØ 22UF 16WV			
C24			C91-0085-05	CERAMIC 0.022UF N			
X1			L77-0578-05	CRYSTAL RESONATOR(7.2MHZ)			
CP1			R90-0193-05	MULTI-COMP 47KX9 J 1/6W			
CP2			R90-0192-05	MULTI-COMP 47KX13 J 1/6W			
VR1	3A	*	R13-5064-05	POTENTIØMETER(100KX2) VØLUME			
S1 -9	3A		S40-1064-05	PUSH SWITCH (PRESET CH, MEMORY)	EE		
S10	3A		S40-1064-05	PUSH SWITCH (LW)			
S11 -14	3A		S40-1064-05	PUSH SWITCH (FM/AM, TUNING)			
S15	3A		S40-2200-05	PUSH SWITCH (MODE)			
S16 ,17	2B		S31-2072-05	SLIDE SW (FM DE-EMPH, CH SPACE)			

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D1 .2			1SS133	DIODE	EE	
D14 -18			1SS133	DIODE		
D19			RDS. 1E(B2)	ZENER DIODE	EE	
FL1	2A		7-BT-20ZK	FLUORESCENT INDICATOR TUBE	KPMX	
FL1	2A		7-BT-22ZK	FLUORESCENT INDICATOR TUBE	EE	
IC1			TD6301AP	IC(FL/LED/LCD FREQ DISPLAY DR)		
IC2			TC9157AP	IC(DIGITAL TUNING SYSTEM)		
IC3			TD6104P	IC(PRE SCALER)		
Q1 .2			2SC1685(R,S)	TRANSISTOR	MXEE	
Q3 -6			2SC1845(F,E)	TRANSISTOR	EE	
Q5 .6			2SC1845(F,E)	TRANSISTOR	KPMX	
Q7			2SC1685(R,S)	TRANSISTOR	KPMX	
Q7			2SC945(A)(Q,P)	TRANSISTOR	KPMX	
Q8			2SA1127NC(R,S)	TRANSISTOR	EE	
Q9			2SC1685(R,S)	TRANSISTOR	EE	
Q9			2SC945(A)(Q,P)	TRANSISTOR	EE	
Q10			2SA1127NC(R,S)	TRANSISTOR		
Q10			2SA733(A)(Q,P)	TRANSISTOR		
Q11			2SC1685(R,S)	TRANSISTOR		
Q11			2SC945(A)(Q,P)	TRANSISTOR		
Q12			2SA1127NC(R,S)	TRANSISTOR		
Q12			2SA733(A)(Q,P)	TRANSISTOR		
Q13			2SC1685(R,S)	TRANSISTOR		
Q13			2SC945(A)(Q,P)	TRANSISTOR		
RECEIVER (X14-1740-10)						
C1			C91-0085-05	CERAMIC 0.022UF N		
C2			C91-0769-05	CERAMIC 0.01UF M		
C3		*	C91-0729-05	CERAMIC 22PF J		
C4 .5			C91-0769-05	CERAMIC 0.01UF M		
C6		*	CQ09FS1H221JY0	POLYSTY 220PF J	EE	
C7			CC45FSL1H151J	CERAMIC 150PF J	EE	
C8			CQ09FS1H391JY0	POLYSTY 390PF J		
C9			CC45FSL1H101J	CERAMIC 100PF J	EE	
C10			CK45FF1H223Z	CERAMIC 0.022UF Z	EE	
C11			CK45F1H223Z	CERAMIC 0.022UF Z	EE	
C12			CK45FF1H223Z	CERAMIC 0.022UF Z	EE	
C13			C91-0085-05	CERAMIC 0.022UF N	EE	
C14 .15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04HW1HR22M	NP-ELEC 0.22UF 50WV	KPMX	
C17			C91-0085-05	CERAMIC 0.022UF N		
C18			CK45FF1H223Z	CERAMIC 0.022UF Z		
C19			C91-0085-05	CERAMIC 0.022UF N		
C20			CK45FF1H223Z	CERAMIC 0.022UF Z		
C21			C91-0085-05	CERAMIC 0.022UF N		
C22			CK45FF1H223Z	CERAMIC 0.022UF Z		
C23			CE04FW1C100M	ELECTRO 10UF 16WV	EE	
C23			CE04FW1H010M	ELECTRO 1.0UF 50WV	KPMX	
C24			CF92FV1H223J	MF 0.022UF J		
C25 .26			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C27			CF92FV1H473J	MF 0.047UF J		
C28			CE04FW1H2R2M	ELECTRO 2.2UF 50WV		
C29			CE04FW1H3R3M	ELECTRO 3.3UF 50WV		
C30			CQ09FS1H102JY0	POLYSTY 1000PF J		
C31			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C32			CE04FW1C330M	ELECTRO 33UF 16WV		

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C33 ,34			CF92FV1H112J	MF 1100PF J	KP	
C33 ,34			CK45FB1H471K	CERAMIC 470PF K	EE	
C33 ,34		*	CC09FS1H751J	POLYSTY 750PF J	MX	
C35 ,36			C91-0769-05	CERAMIC 0.01UF M		
C37 ,38			CE04FW1C100M	ELECTR0 10UF 16WV	EE	
C37 ,38			CE04FW1HR33M	ELECTR0 0.33UF 50WV	KPMX	
C39 ,40			CE04FW1H010M	ELECTR0 1.0UF 50WV	EE	
C41		*	C91-0745-05	CERAMIC 100PF K		
C42			CC45FSL1H050C	CERAMIC 5.0PF C	KPMX	
C42			CC45FSL1H220J	CERAMIC 22PF J	EE	
C43 ,44			CK45FF1H223Z	CERAMIC 0.022UF Z	EE	
C44			CK45FF1H223Z	CERAMIC 0.022UF Z	KPMX	
C45			CE04FW1C101M	ELECTR0 100UF 16WV		
C46			CE04FW1V4R7M	ELECTR0 4.7UF 35WV	KPMX	
C47			CE04W1A470M	ELECTR0 47UF 10WV	EE	
C49 ,50			CK45FF1H103Z	CERAMIC 0.010UF Z	EE	
C51 ,52			CF92FV1H183J	MF 0.018UF J		
C53 ,54			CE04FW1H3R3M	ELECTR0 3.3UF 50WV		
C55 ,56			CK45FB1H471K	CERAMIC 470PF K		
C57 ,58			CC45FSL1H101J	CERAMIC 100PF J	EE	
C59 ,60			CE04FW1A470M	ELECTR0 47UF 10WV		
C61 ,62			CC45FSL1H050C	CERAMIC 5.0PF C		
C63 ,64			CE04FW1E100M	ELECTR0 10UF 25WV		
C65 ,66			CE04FW1H220M	ELECTR0 22UF 50WV		
C67 ,68			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C69 ,70			CF92FV1H183J	MF 0.018UF J		
C71 ,72			CE04FW1HOR1M	ELECTR0 0.1UF 50WV		
C73 ,74			CC45FSL1H221J	CERAMIC 220PF J		
C75 ,76			CK45FB1H102K	CERAMIC 1000PF K		
C77 ,78			CF92FV1H103J	MF 0.010UF J		
C79 ,80			CF92FV1H473J	MF 0.047UF J		
C81 -84			CE04FW1H4R7M	ELECTR0 4.7UF 50WV		
C85 -88			CF92FV1H224J	MF 0.22UF J	EE	
C85 ,86			CF92FV1H104J	MF 0.10UF J	KPMX	
C89			CE04FW1H100M	ELECTR0 10UF 50WV		
C90			CE04FW1H101M	ELECTR0 100UF 50WV		
C91			CE04FW1H470M	ELECTR0 47UF 50WV		
C92			CE04FW1H100M	ELECTR0 10UF 50WV		
C93			CE04FW1C470M	ELECTR0 47UF 16WV		
C94			CE04FW1E470M	ELECTR0 47UF 25WV		
C95			CK45FB1H102K	CERAMIC 1000PF K		
C96			CE04FW1C470M	ELECTR0 47UF 16WV		
C97			CE04FW1A470M	ELECTR0 47UF 10WV		
C98			CE04FW1C470M	ELECTR0 47UF 16WV		
C99			CE04FW1H100M	ELECTR0 10UF 50WV		
C100,101			C90-1232-05	ELECTR0 3300UF 42WV		
C102,103			CK45FF1H103Z	CERAMIC 0.010UF Z		
C106-109		*	CK45FF1H682Z	CERAMIC 6800PF Z	EE	
C110,111			CC45FSL1H180J	CERAMIC 18PF J	EE	
C112			CE04FW1H010M	ELECTR0 1.0UF 50WV		
C113			CK45FB1H681K	CERAMIC 680PF K	EE	
C114-117			CC45FSL1H331J	CERAMIC 330PF J	EE	
C119			CK45FB1H681K	CERAMIC 680PF K	EE	
C120			CK45FF1H473Z	CERAMIC 0.047UF Z		
C121			C91-0647-05	CERAMIC 0.01UF P	KP	

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△ C122			C91-0647-05	CERAMIC 0.01UF P	MXEE	
C123			CE04FW1C100M	ELECTRØ 10UF 16WV	KPMX	
TC1			C05-0097-05	CERAMIC TRIMMER CAPACITØR(30PF)	EE	
TC2			C05-0303-05	CERAMIC TRIMMER CAPACITØR(20PF)		
TC3			C05-0097-05	CERAMIC TRIMMER CAPACITØR(30PF)	EE	
TC4			C05-0303-05	CERAMIC TRIMMER CAPACITØR(20PF)		
59	2A		E11-0127-05	PHONE JACK (3P)		
60	2B		E13-0814-05	PHONE JACK (8P)		
61	2B		E20-0452-05	SCREW TERMINAL BOARD(4P) FM/AM		
62	2B		E20-0823-05	LOCK TERMINAL BOARD (8P) SPKRS		
63	2B		E23-0125-05	TERMINAL (GND)		
△ F1	1B		F06-3023-05	FUSE (UL) (250V 3A)	KP	
△ F2	1B		F05-1623-05	FUSE (SEMKØ) (250V T1.6A)	XEE	
△ F2 ,3	1B		F05-1521-05	FUSE (250V 1.5A)	M	
74	1B,2B		J13-0041-05	FUSE CLIP	KPM	
74	1B,2B		J13-0054-05	FUSE CLIP	XEE	
CF1 ,2			L72-0140-05	CERAMIC FILTER	KPMX	
CF1 ,2			L72-0190-05	CERAMIC FILTER	EE	
CF3			L72-0082-05	CERAMIC FILTER	KPMX	
CF3			L72-0099-05	CERAMIC FILTER	EE	
L1			L32-0288-05	MW OSCILLATING COIL	EE	
L2			L32-0277-15	MW OSCILLATING COIL		
L3			L31-0499-05	LW-RF COIL	EE	
L4			L31-0509-05	MW-RF COIL		
L7			L40-1092-14	SMALL FIXED INDUCTØR(1.0UH,M)		
L8		*	L40-1021-14	SMALL FIXED INDUCTØR(1.0MH,K)		
L9			L79-0125-05	LC FILTER	EE	
L10			L79-0140-05	LC FILTER	EE	
L11 ,12			L39-0085-05	PHASE-COMPENSATION COIL		
T1			L30-0428-05	FM IFT		
T2			L30-0337-05	AM IFT	KPMX	
T2			L30-0362-05	AM IFT	EE	
H	1B		ND9-1202-05	TAPPING SCREW (Ø3X14)		
CP1			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R41			RD14AB2E330J	FL-PROOF RD 33 J 1/4W		
R52			RD14GB2E101J	FL-PROOF RD 100 J 1/4W	EE	
R52			RD14GB2E560J	FL-PROOF RD 56 J 1/4W	KPMX	
R119,120			RD14AB2E100J	FL-PROOF RD 10 J 1/4W		
R121,122			RS14DB3D4R7J	FL-PROOF RS 4.7 J 2W		
R123,124			RS14DB3A561J	FL-PROOF RS 560 J 1W		
R125			RD14AB2E101J	FL-PROOF RD 100 J 1/4W		
R130			RS14DB3D122J	FL-PROOF RS 1.2K J 2W		
R131,132			RS14DB3D680J	FL-PROOF RS 68 J 2W		
R133,134			RS14DB3D561J	FL-PROOF RS 560 J 2W		
R144			RD14AB2E4R7J	FL-PROOF RD 4.7 J 1/4W		
△ R145			R92-0173-05	RC 2.2M M 1/2W	KP	
R150		*	RD14AB2E2R7J	FL-PROOF RD 2.7 J 1/4W		
VR1		*	R12-3097-05	TRIMMING PØT. (22K) VCO		
VR2		*	R12-3099-05	TRIMMING PØT. (47K) SEPARATION	EE	
VR3	1B		R13-5049-05	PØTENTIØMETER(200K) BALANCE		
VR4 ,5	1A,1B		R13-4025-05	PØTENTIØMETER(50KX2)BASS,TREB		

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S1 S2 S3	2B	*	S42-5043-05	MULTIPLE PUSH SWITCH(SELECTOR)	M	
	2B	*	S42-2128-05	MULTIPLE PUSH SWITCH(SPEAKERS)		
	2B		S31-2083-05	SLIDE SWITCH (POWER TYPE)		
D1 D1 ,2 D3 ,4 D5 -14 D11 -14			KV1236(Z2)	VARIABLE CAPACITANCE DIODE	KPMX	
			KV1236(Z2)	VARIABLE CAPACITANCE DIODE	EE	
			1SS133	DIODE	EE	
			1SS133	DIODE	KPMX	
			1SS133	DIODE	EE	
D15 ,16 D17 D18 D19 ,20 D19 ,20			RD13E(B)	ZENER DIODE		
			RD6.2E(B)	ZENER DIODE		
			DSM1A1	DIODE		
			1SS131	DIODE		
			1SS178	DIODE		
D21 -24 D29 D29 -33 D30 -33 D3,4			GP20DL	DIODE		
			1SS176	DIODE	KPMX	
			1SS133	DIODE	KPMX	
			1SS133	DIODE	EE	
			1SS176	DIODE	EE	
D11-14 D30-33 D5-10 IC1 IC2			1SS176	DIODE		
			1SS176	DIODE		
			1SS176	DIODE	KPMX	
			LA1260	IC(FM/AM TUNER)		
			LA3390	IC(FM MPX)		
IC3 IC4 IC4 Q1 Q1			AN6555	IC(OP AMP X2)	KPMX	
		*	STK4141/2	IC(AF POWER AMP/ 25W X2)	EE	
			STK4151/2	IC(AF POWER AMP/ 30W X2)	KPMX	
			2SC1685(R,S)	TRANSISTOR		
Q1 Q1 Q2 Q3 ,4 Q5 -11 Q7 -11			2SC2320(E,F)	TRANSISTOR		
			2SC945(A)(Q,P)	TRANSISTOR		
			2SC1923(R,S)	TRANSISTOR		
			2SK364(GR,BL)	FET	EE	
			2SC1685(R,S)	TRANSISTOR	EE	
Q12 Q12 Q12 Q13 ,14 Q15 ,16			2SC1685(R,S)	TRANSISTOR	KPMX	
			2SC2320(E,F)	TRANSISTOR	KPMX	
			2SC945(A)(Q,P)	TRANSISTOR	KPMX	
			2SC2320(E,F)	TRANSISTOR	EE	
			2SC945(A)(Q,P)	TRANSISTOR	EE	
Q13,14 Q13,14 Q7-11 Q7-11			2SC2320(E,F)	TRANSISTOR		
			2SC945(A)(Q,P)	TRANSISTOR		
			2SC2320(E,F)	TRANSISTOR		
			2SC945(A)(Q,P)	TRANSISTOR		
			2SC945(A)(Q,P)	TRANSISTOR		
PREAMP (X85-1030-10)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CE04FW1C100M	ELECTRO	10UF	16WV
			CE04FW1A470M	ELECTRO	47UF	10WV
			CF92FV1H123J	MF	0.012UF	J
			CF92FV1H332J	MF	3300PF	J
			CE04FW1H2R2M	ELECTRO	2.2UF	50WV
C11 ,12			CK45FF1H103Z	CERAMIC	0.010UF	Z

E: Scandinavia & Europe

H: Audio Club K: USA

P: Canada

E: KR-A10 (Silver version)

S: South Africa

T: England

U: PX(Far East, Hawaii)

Others: KR-A10 (Black version)

UE: AAFES(Europe)

X: Australia

M: Other Areas

⚠ indicates safety critical components.

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 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
C15 ,16 C15 ,16 C17 ,18 C17 ,18			CK45FB1H222K CK45FB1H561K CC45FSL1H101J CC45FSL1H221J	CERAMIC 2200PF K CERAMIC 560PF K CERAMIC 100PF J CERAMIC 220PF J	EE KPMX KPMX EE	
IC1 IC1			AN6556 MS218P	IC(OP AMP X2) IC(OP AMP X2)		
FRONT END (X86-1010-10)						
C1 C1 C2 C4 C5		*	C91-0713-05 C91-0716-05 CC45FSL1H470J C91-0757-05 CC45FSL1H070D	CERAMIC 2.2PF K CERAMIC 3.9PF K CERAMIC 47PF J CERAMIC 0.001UF K CERAMIC 9.0PF D	EE KPMX EE	
C6 C6 ,7 C7 C8 C9		*	CC45FSL1H060D C91-0716-05 C91-0716-05 C91-0720-05 C91-0749-05	CERAMIC 6.0PF D CERAMIC 3.9PF K CERAMIC 3.9PF K CERAMIC 8.2PF K CERAMIC 220PF K	EE KPMX EE	
C10 ,11 C12 C13 C13 C14		*	C91-0769-05 CC45FSL1H020C C91-0709-05 C91-0713-05 CC45FUJ1H080D	CERAMIC 0.01UF M CERAMIC 2.0PF C CERAMIC 1PF M CERAMIC 2.2PF K CERAMIC 8.0PF D	EE KPMX EE	
C15 C16 C17 C18 C19		*	C91-0725-05 C91-0733-05 C91-0769-05 C91-0713-05 CED4FW1C470M	CERAMIC 15PF J CERAMIC 33PF J CERAMIC 0.01UF M CERAMIC 2.2PF K ELECTRON 47UF 16WV		
C20 TC1			CC45FSL1H470J C05-0302-05	CERAMIC 47PF J CERAMIC TRIMMER CAPACITOR(11PF)		
L1 L2 L3 L4 L4 ,5			L31-0512-05 L31-0513-05 L31-0515-05 L31-0514-05 L31-0514-05	FM-RF COIL FM-RF COIL FM-RF COIL FM-RF COIL FM-RF COIL	KPMX EE	
L6 L7 L8		*	L40-1092-14 L30-0427-05 L32-0318-05	SMALL FIXED INDUCTOR(1UH,M) FM IFT FM OSCILLATING COIL		
R16			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
D1 -4 D1 ,2 D4 Q1 Q1		*	KV1310-4 KV1310-3 KV1310-3 2SK161(GR) 2SK241	VARIABLE CAPACITANCE DIODE VARIABLE CAPACITANCE DIODE VARIABLE CAPACITANCE DIODE FET FET	EE KPMX KPMX KPMX EE	
Q2 Q3 Q4 ,5			2SC1923(O) 2SK161(Y,GR) 2SC1923	TRANSISTOR FET TRANSISTOR	EE	

E: Scandinavia & Europe H: Audio Club K: USA P: Canada
S: South Africa T: England U: PX(Far East, Hawaii)
UE: AAFES(Europe) X: Australia M: Other Areas

E: KR-A10 (Silver version)
Others: KR-A10 (Black version)

⚠ indicates safety critical components.

SPECIFICATIONS

(IHF '66)

Audio Section

Power Output

30 watts per channel minimum RMS, both channels driven at 8 ohms from 40 Hz to 20 kHz with no more than 0.5% total harmonic distortion.

Both channels driven

Into 8 ohms at 1 kHz	34W + 34W
Into 4 ohms at 1 kHz	40W + 40W
Total harmonic distortion (40 Hz to 20 kHz)	
rated power into 8 ohms	0.5%
1/2 rated power into 8 ohms,	
1 kHz	0.1%

Intermodulation distortion (60 Hz : 7 kHz = 4 : 1 SMPTE)

rated power into 8 ohms	0.4%
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Input sensitivity/impedance

PHONO	2.5 mV/47k ohms
TAPE, CD/AUX	150 mV/47k ohms

Signal-to-noise ratio (IHF-A)

PHONO	73 dB for 2.5mV input
CD/AUX, TAPE	90 dB for 150 mV input

Frequency response

PHONO RIAA standard curve	20 Hz to 20 kHz ± 0.5 dB
TAPE, CD/AUX	15 Hz to 70 kHz -3 dB

Tone control

BASS	± 10 dB at 100 Hz
TREBLE	± 10 dB at 10 kHz

Loudness control

(VOL. - 30 dB)	+ 8 dB at 100 Hz
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Output level/impedance

TAPE REC OUT (Pin)	150 mV/1.5k ohms
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FM Tuner Section

Usable sensitivity 10.8 dBf (1.9 μ V)

50 dB quieting sensitivity

Mono	17.2 dBf (4 μ V)
Stereo	37.2 dBf (40 μ V)

Signal-to-noise ratio at 65 dBf

Mono	76 dB
Stereo	70 dB

Total harmonic distortion at 1 kHz

Mono	0.2%
Stereo	0.3%

Frequency response

	30 Hz to 15 kHz
	+0 dB, -2.5 dB

Capture ratio

	1.2 dB
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Image rejection ratio

	40 dB
--	-------

Spurious rejection ratio

	73 dB
--	-------

IF rejection ratio

	95 dB
--	-------

Alternate channel selectivity

	53 dB at \pm 400 kHz
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AM suppression ratio

	57 dB
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Stereo separation ratio

	40 dB at 1 kHz
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Subcarrier suppression ratio

	35 dB
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Antenna impedance

	300 ohms balanced and 75 ohms unbalanced
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FM frequency range

	87.5 MHz to 108 MHz
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AM Tuner Section

Usable sensitivity 15 μ V (500 μ V/m)

Signal-to-noise ratio 52 dB

Image rejection 35 dB

Selectivity 35 dB

General

Power requirement 120V AC, 60 Hz

(USA and Canada)

240V AC, 50 Hz (Australia)

110-120 V/220-240 V 50/60 Hz

switchable (Other countries)

Power consumption 150W

Dimensions W: 420 mm (16-9/16")

H: 109 mm (4-5/16")

D: 231.5 mm (9-1/8")

Weight (Net) 5.3 kg (11.7 lb)

Note:

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

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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