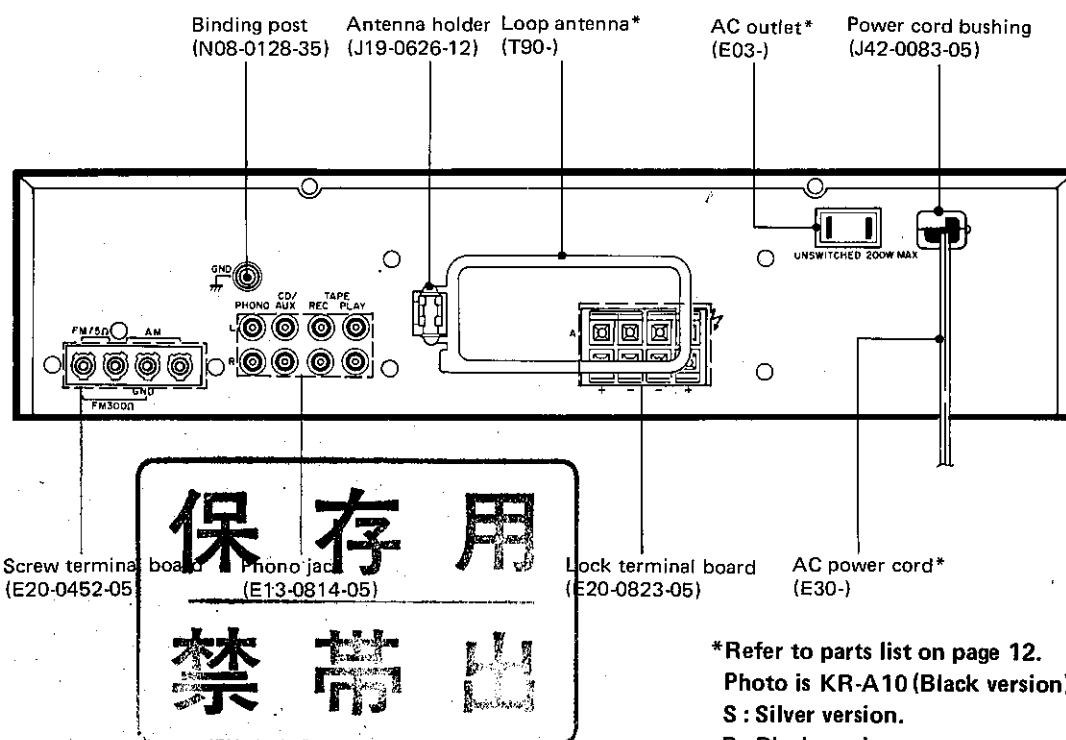
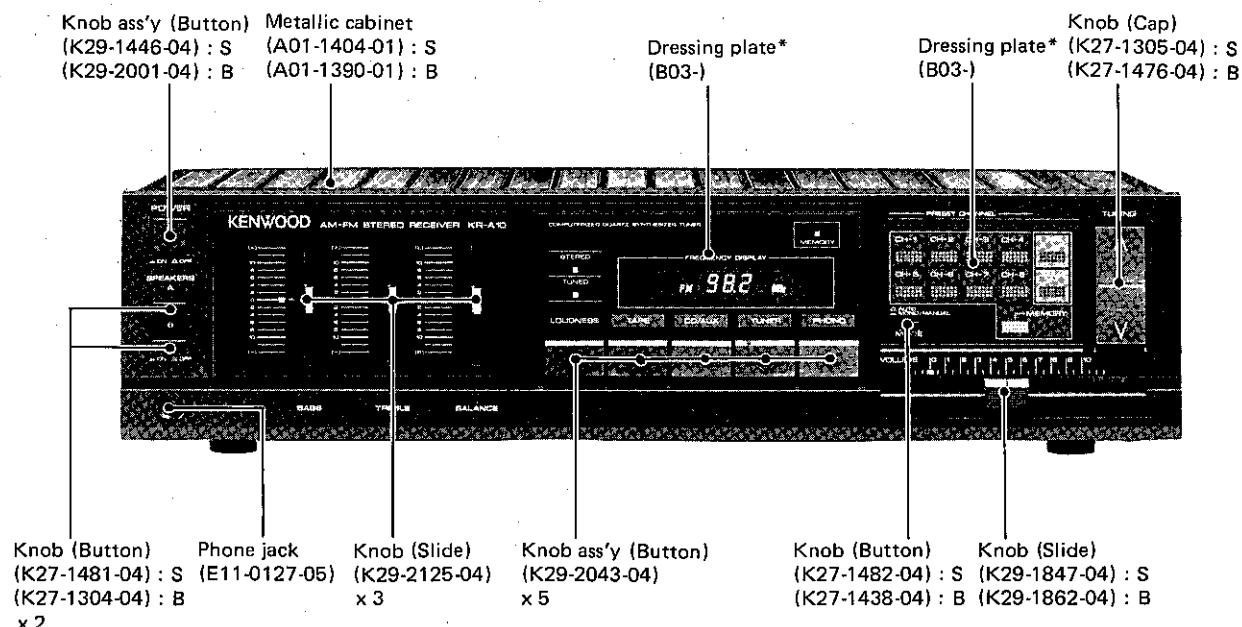


KENWOOD

KR-A10

AM-FM STEREO RECEIVER



*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

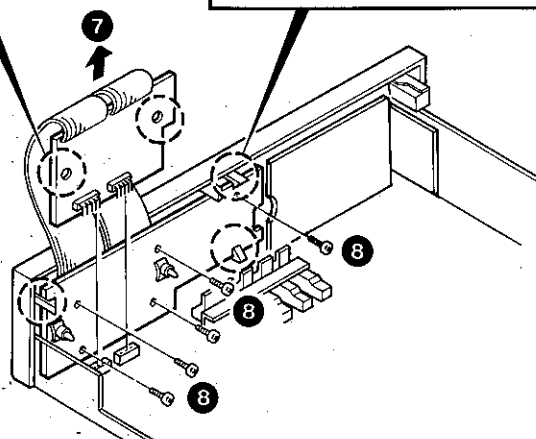
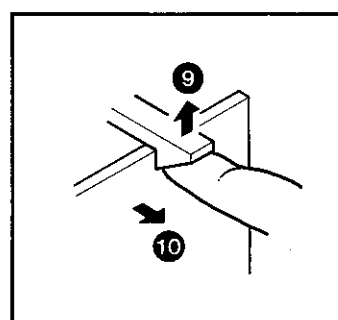
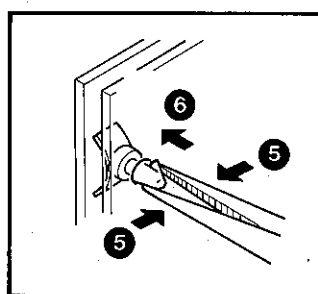
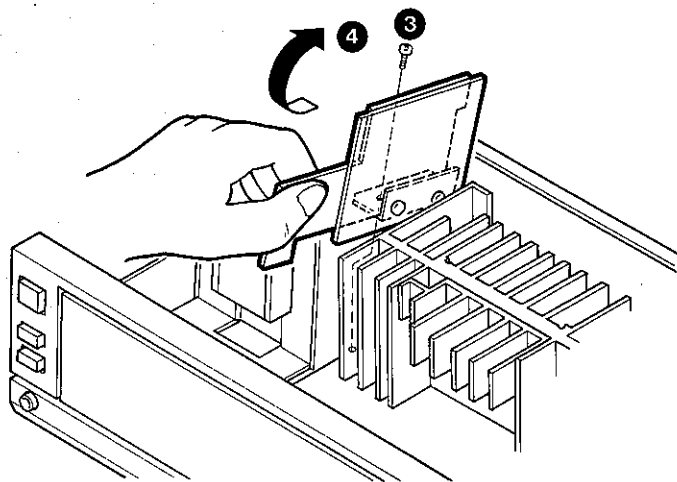
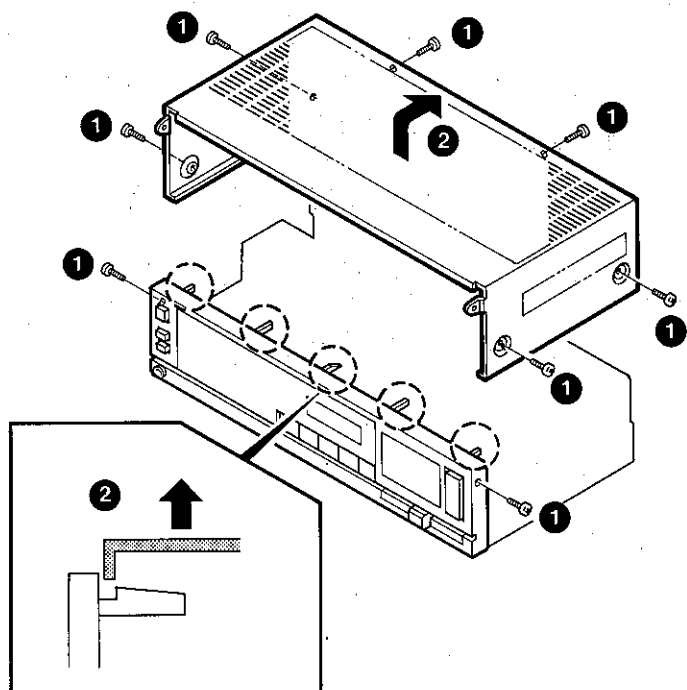
1. Remove 8 screws (❶) and remove the metallic cabinet (❷).

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).

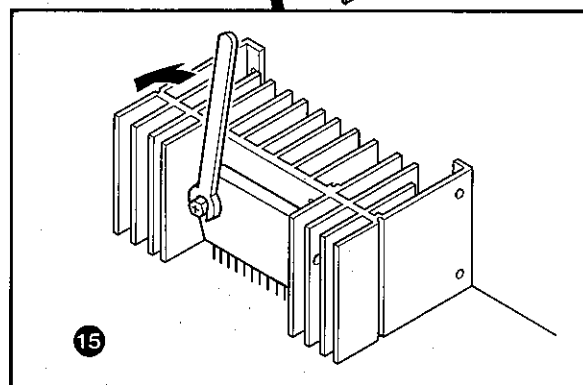
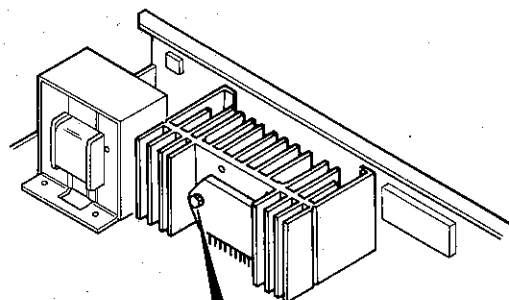
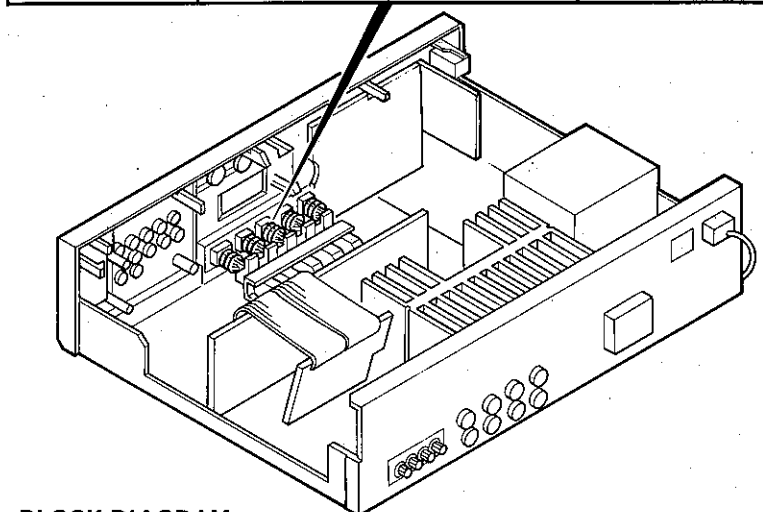
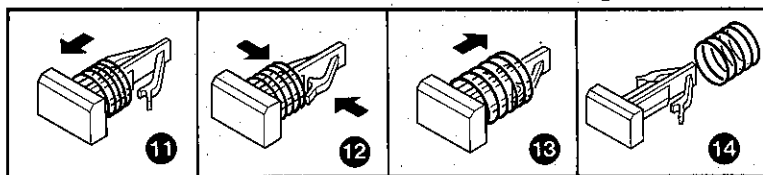


DISASSEMBLY FOR REPAIR/BLOCK DIAGRAM

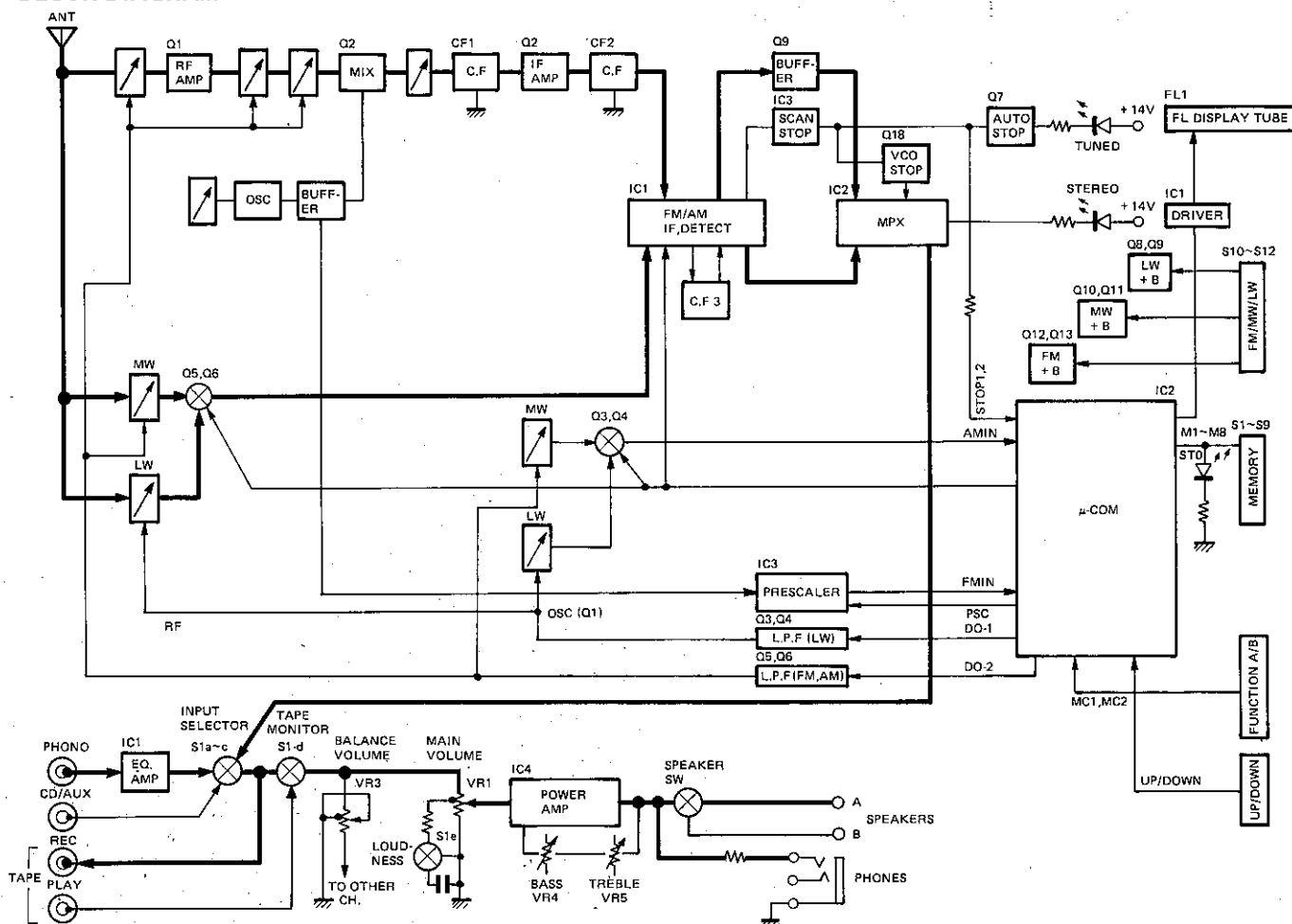
6. To remove the LOUDNESS, TAPE, CD/AUX, TUNER, PHONO knobs, follow the procedures as shown in the figure.

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)

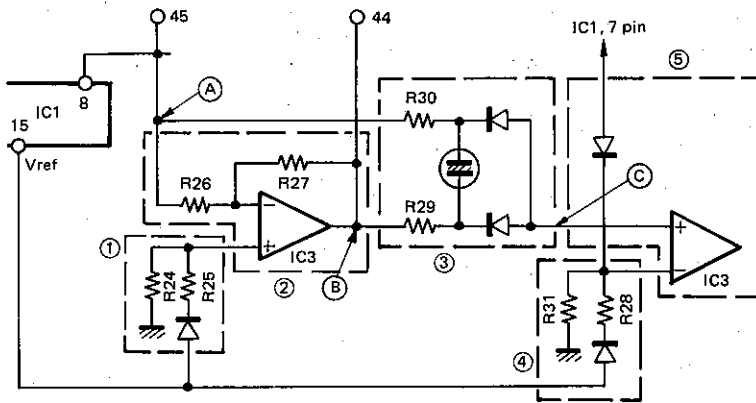
Component	Function	Operation
Q1	RF amplifier	
Q2	Mixer	
Q3	OSC buffer amplifier	E type only
Q4	OSC	

CIRCUIT DESCRIPTION

Stop signal detection circuit

Block explanations

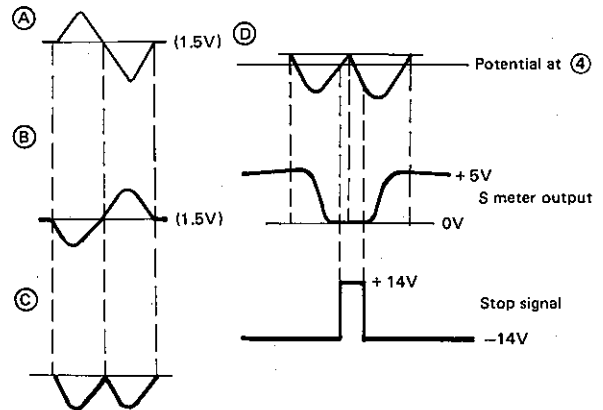
- ① Bias setting circuit
Compares its voltage with that of IC's pin 8 and make the potentials at 44 and 45 the same. (Matching of the maximum point of distortion.)
- ② Inverter amplifier
0dB inverter amplifier for M conversion.
- ③ M converter circuit
Converts the discrets S curve into M curve.
- ④ Band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



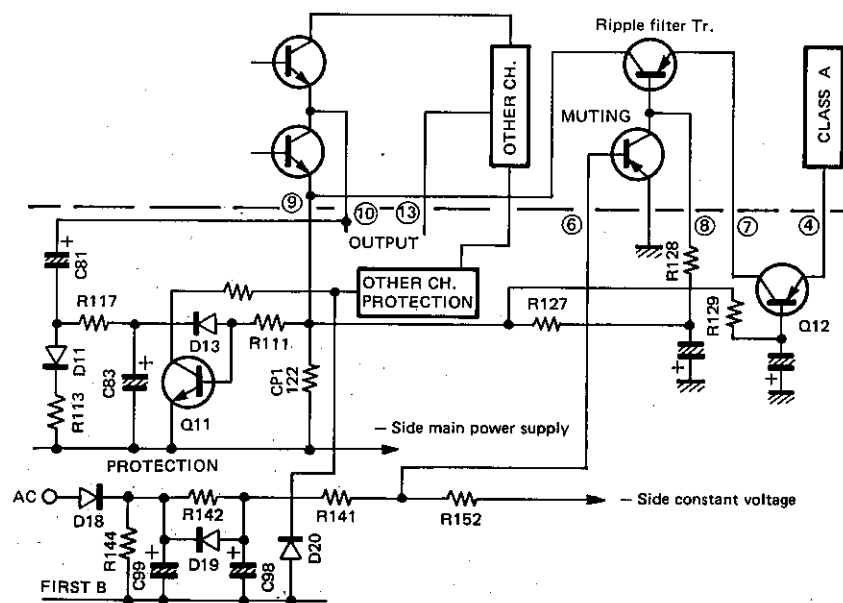
Power ON/OFF muting and protection circuit

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.

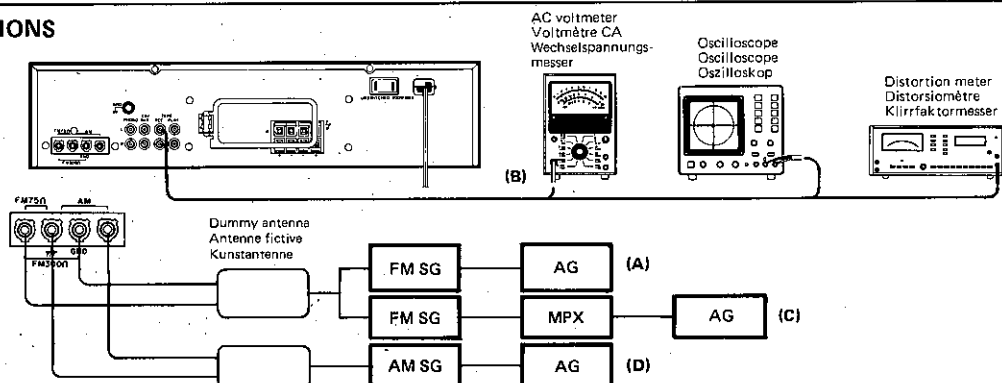
With the bootstrap circuit of C81, C82, R117, R118, R113 and R114, the protection is performed less easily when the output voltage is high.



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

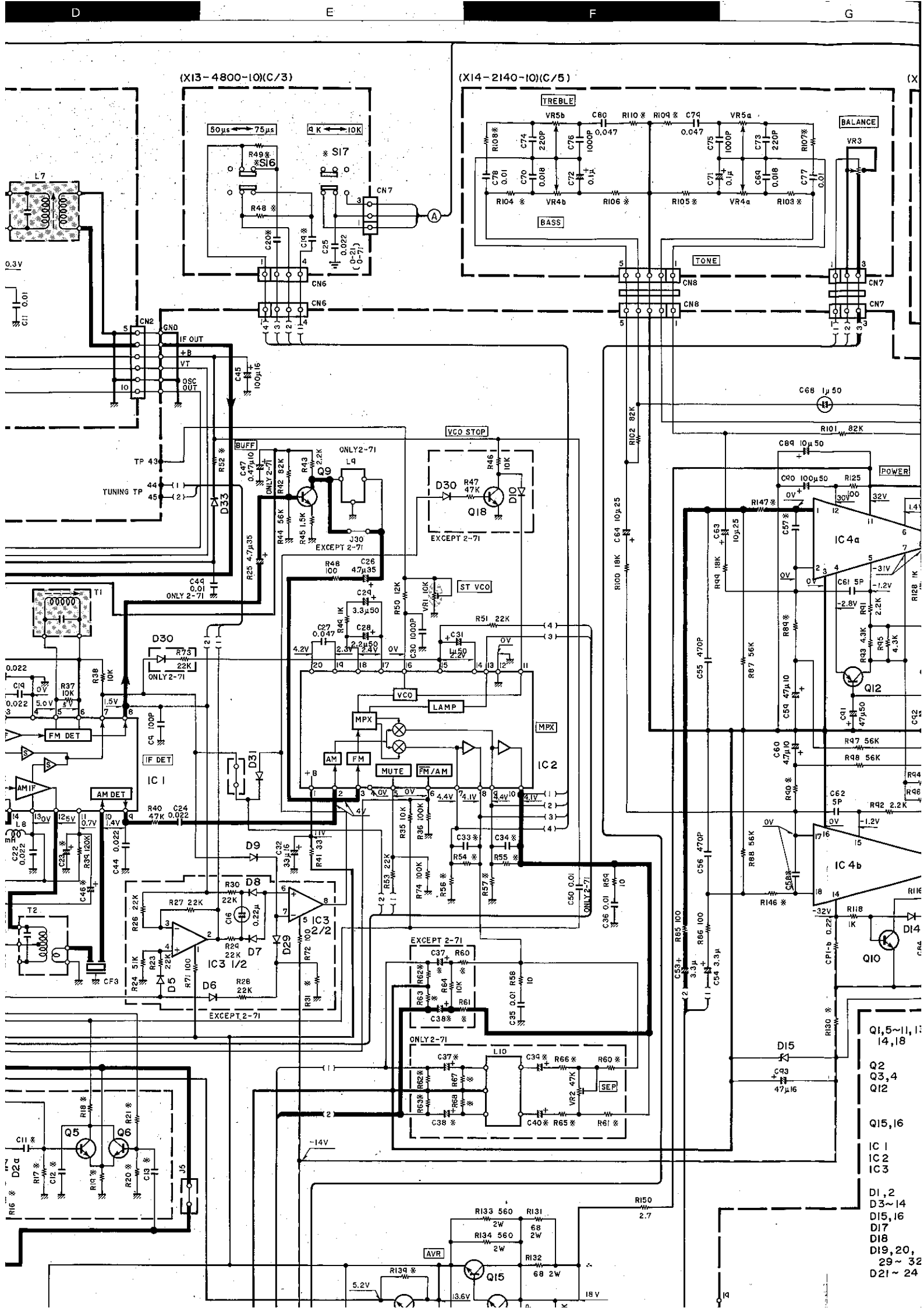


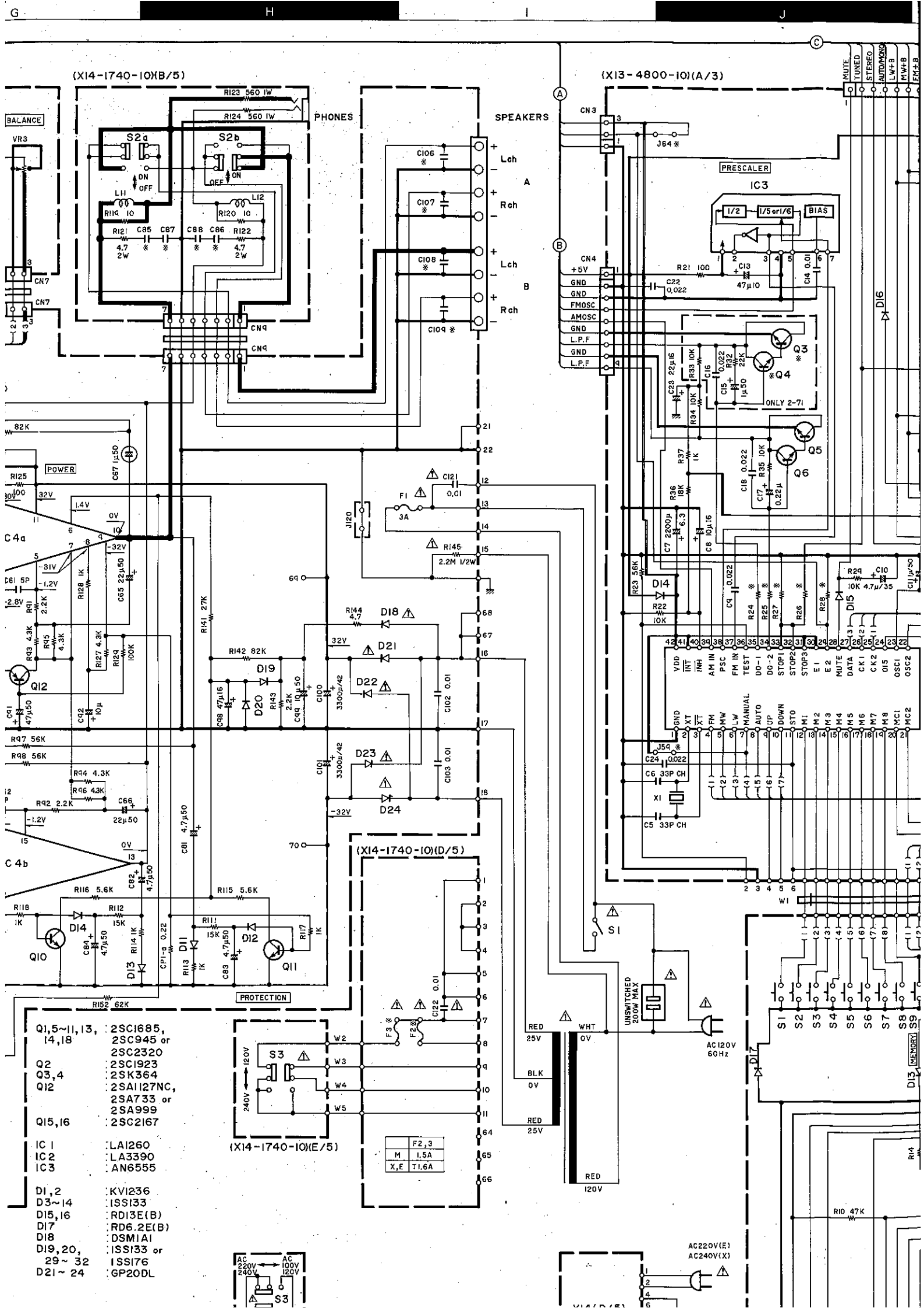
REGLAGE

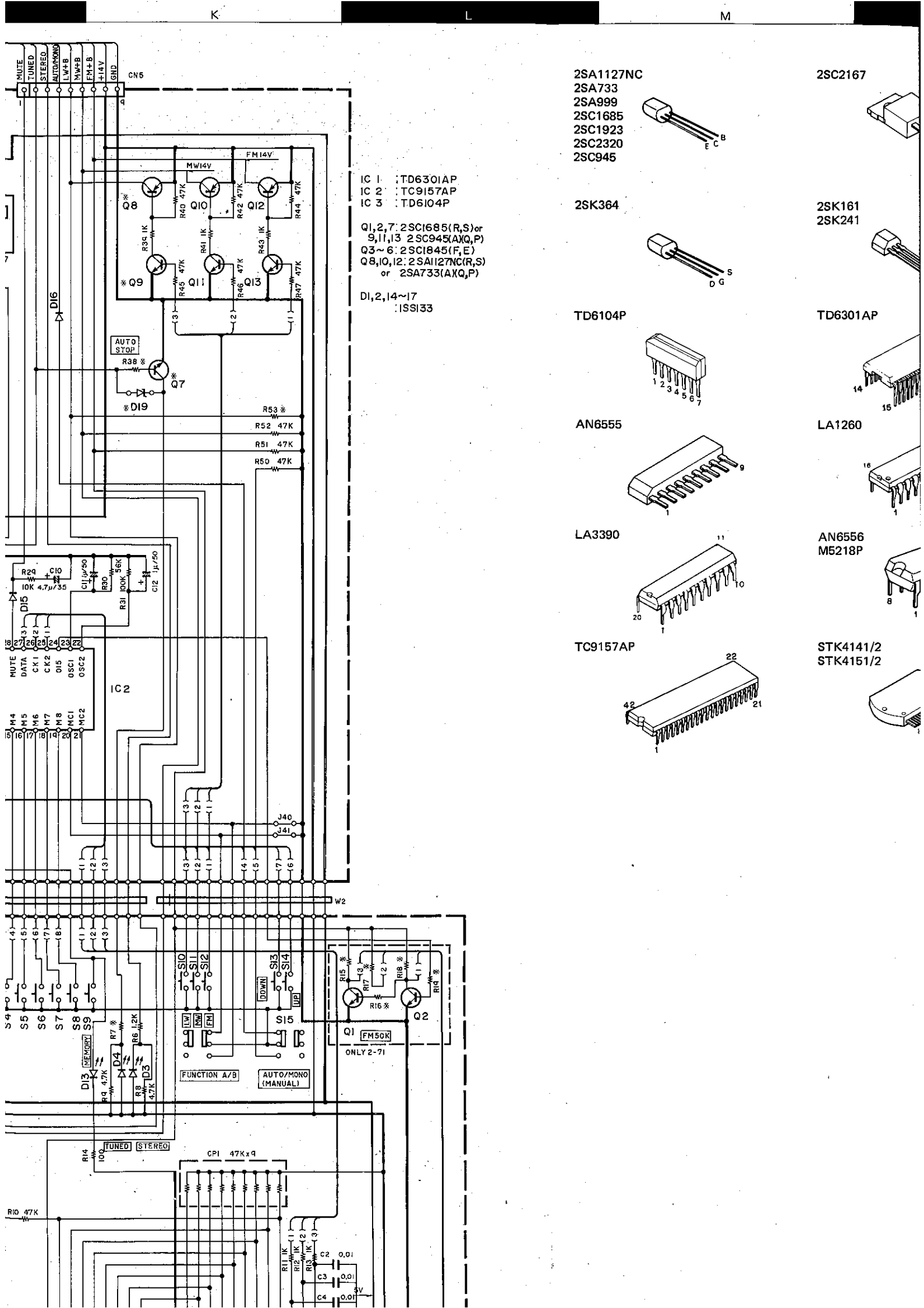
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF							
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR: FM MODE: AUTO							
1	BORD DE BANDE (1)	—	Connecter un voltmètre CC entre les TP72 et 73.	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 60dB(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 60dB(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.							

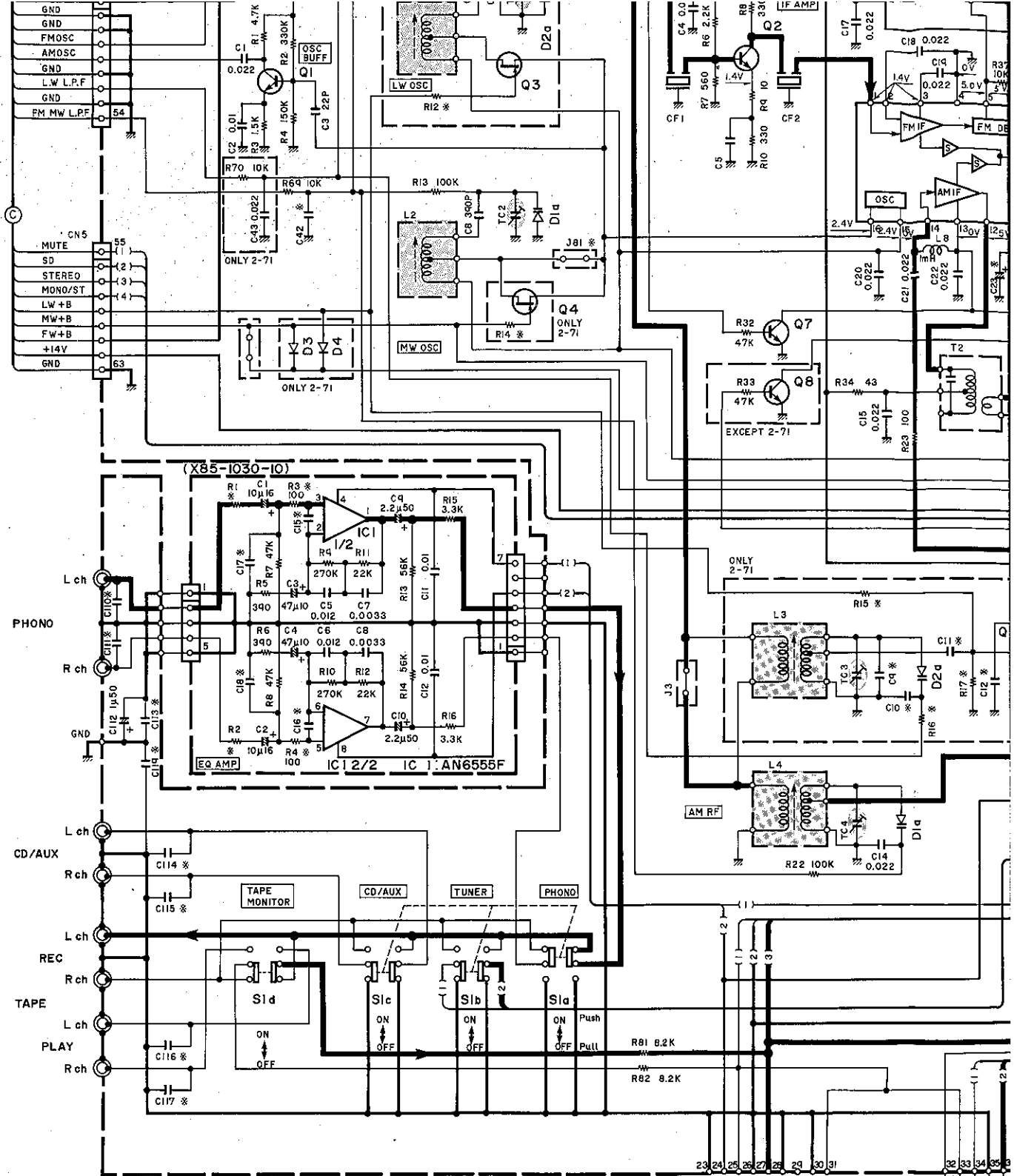
ABGLEICH

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-GEREGLTER 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.							







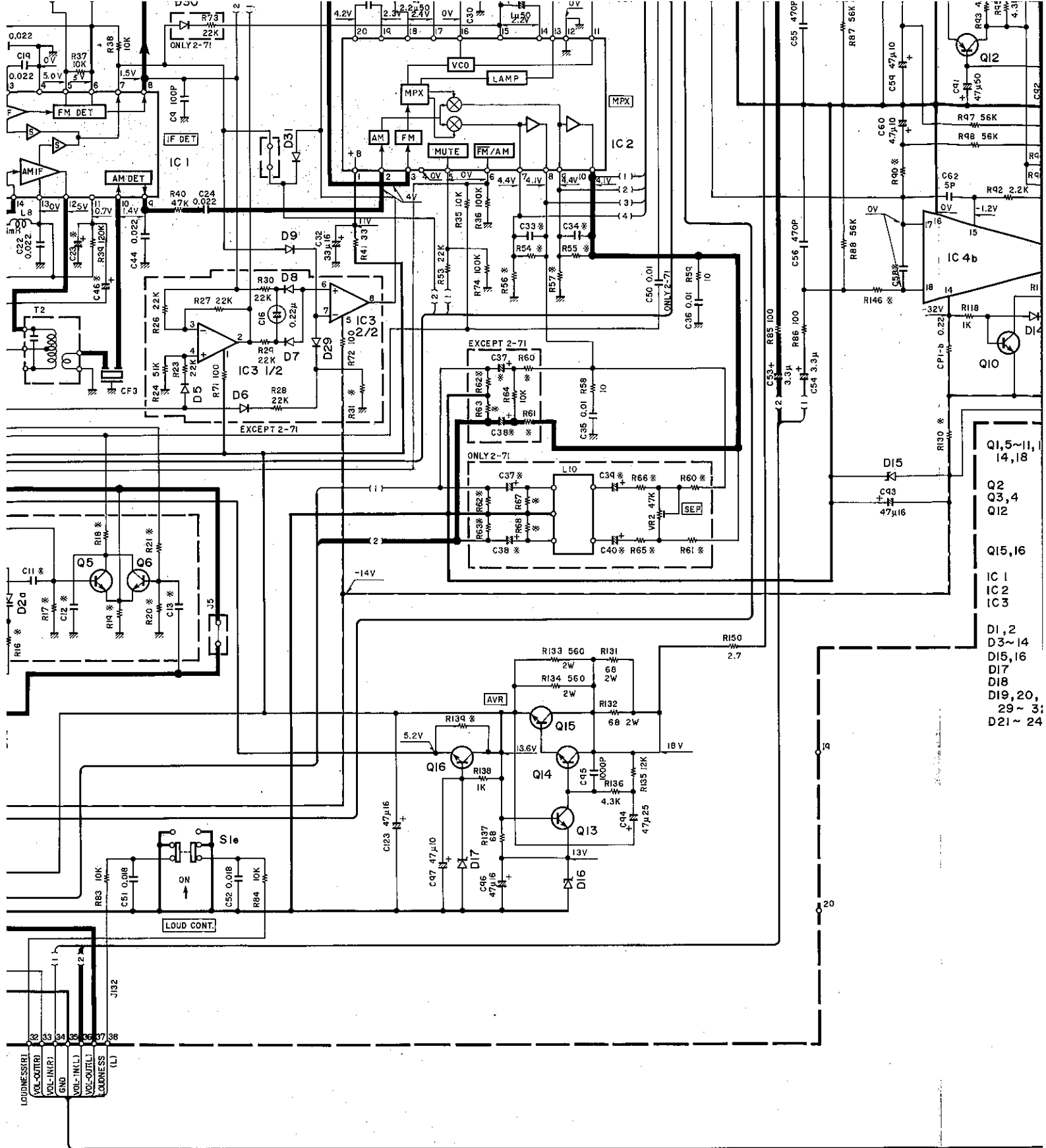


DESTINATION	R11	R12	R14	R15	R16	R17	R18	R19	R20	R21	R31	R52	R54	R55	R56	R57	R130	C23	C42	C46
X14-174	0-10 K, P	NO	NO	NO	NO	NO	NO	NO	NO	NO	27K	56	68K	68K	NO	NO	IK2W	1μ	5P	4.7μ
0-21 M	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	36K	56	68K	68K	NO	NO	IK2W	1μ	5P	4.7μ
0-71 X	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	36K	56	68K	68K	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	R69,70	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
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	2P

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	R92-0173-05	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	NO	750P	0.33μ50	NO	0.1	NO	NO	NO	NO	NO	C91-0647
0-71 X	NO	Jumper	NO	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	C91-0647



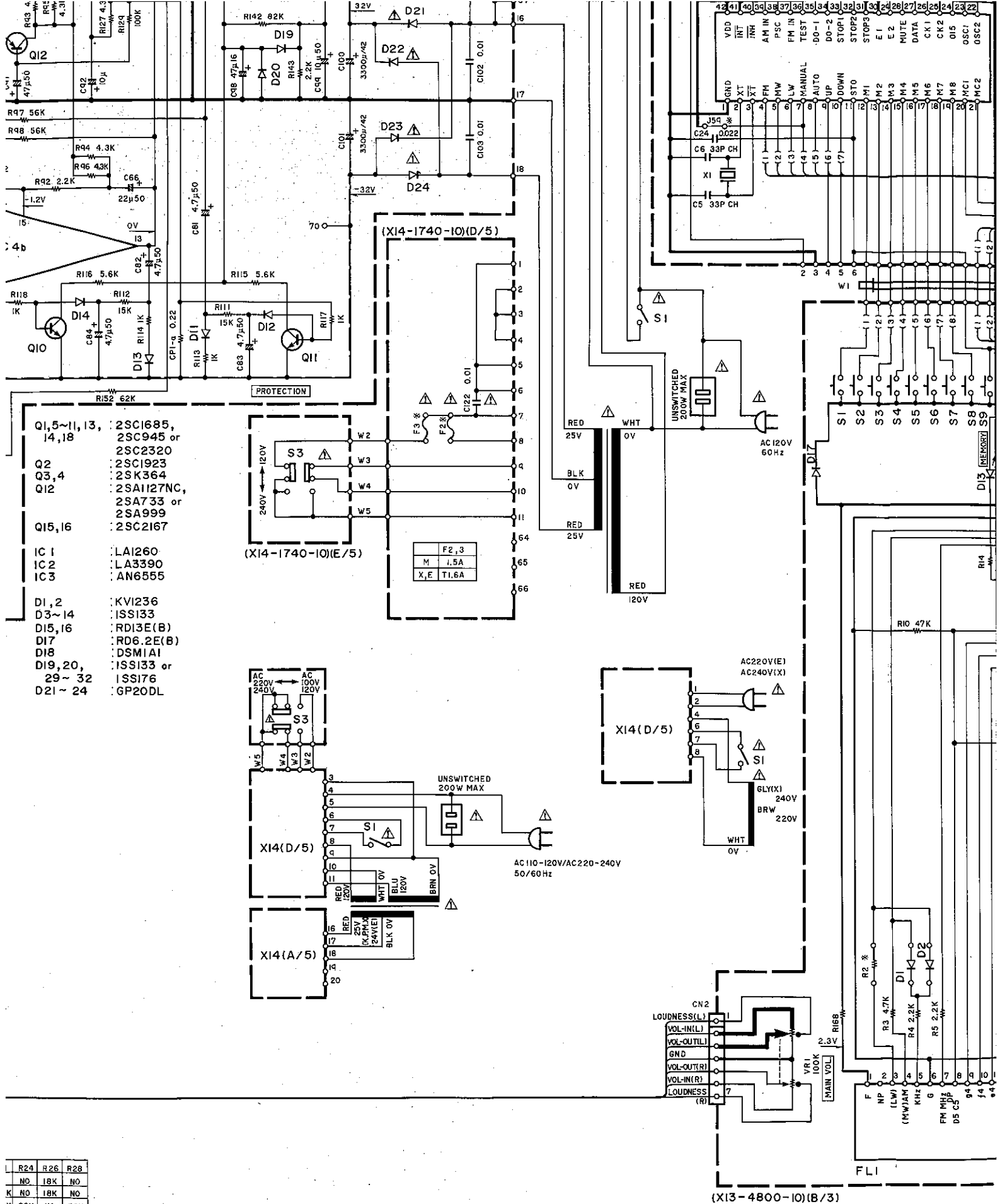
C5	C6	C12	R6	R7	R10	R11	R20
P NO 3.9P	NO	IP	NO	22K	680	680	Jumper
P 9P	6P	2P	2.2P	100K	33K	100K	22

DESTINATION	R1,2	R3,4	C15,6	C17,18
X85-103	0-10	KPUM	UE	100
	2-71	XTE	1K	YES

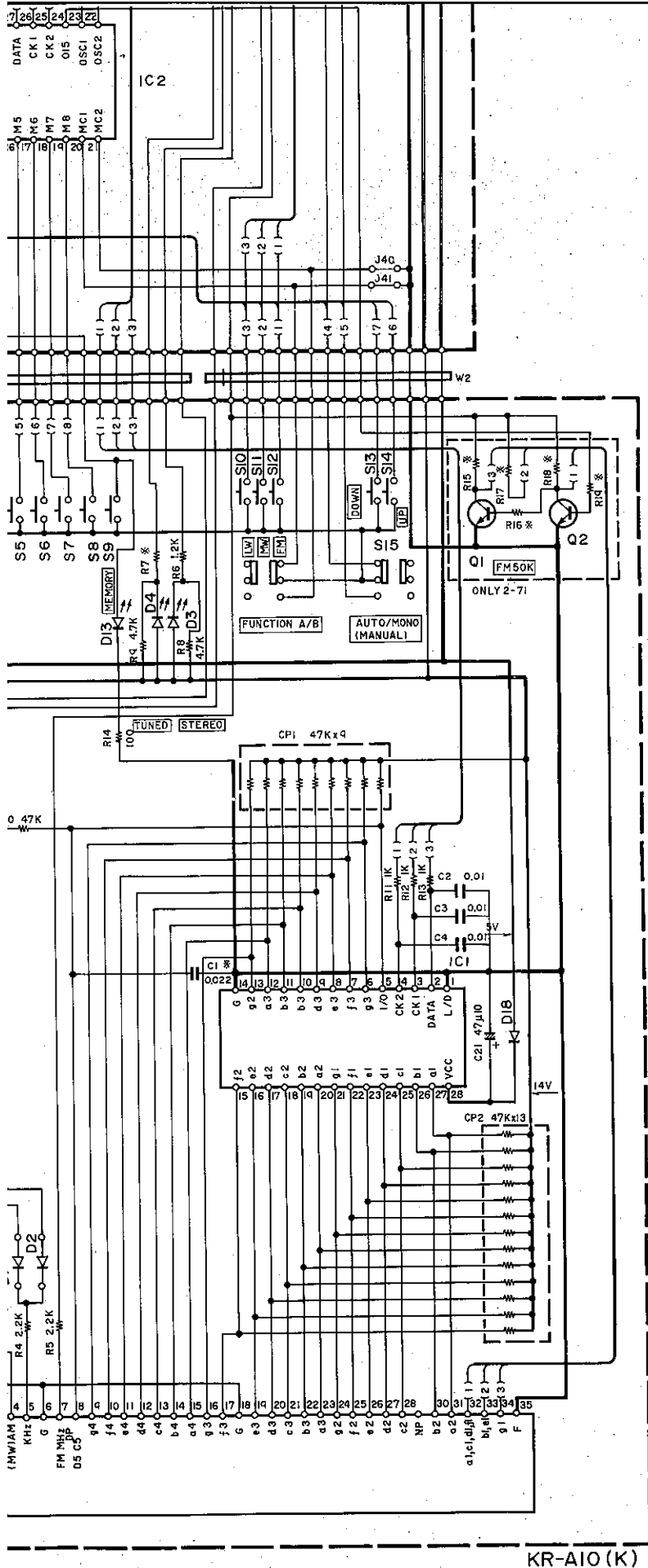
J14~117	C121,122	05~10,29,31	D3,4,11~13	D2	IC3	IC4	Q18	Q5,6	Q3,4
NO	C41-0647-05	YES	NO	NO	YES	STK4151/2	YES	NO	NO
NO	C41-0647-05	YES	NO	NO	YES	STK4151/2	YES	NO	NO
NO	C41-0647-05	YES	NO	NO	YES	STK4151/2	YES	NO	NO
330P	C41-0647-05	NO	YES	YES	NO	STK4141/2	NO	YES	YES

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	18K	NO	NO
	0-21	M	Jumper	NO	NO	YES	NO	YES	NO	NO	620	47K	100K	6.8K	15K	100K	18K	NO	NO
	2-71	E	ISSI33	ISSI33	YES	YES	YES	YES	NO	YES	4.7K	430	47K	100K	5.8K	15K	100K	33K	NO

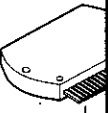
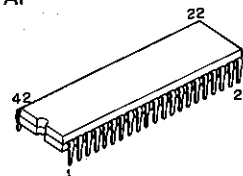
DESTINATION	R32	R33	R38	R39	R40	R45	R48,49	R50	R53	C15	C16	C19,20	J40,41	J54	J64
X13-480	0-10	KPX	NO	NO	56K	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES
	0-21	M	NO	NO	56K	NO	NO	NO	820K	NO	NO	330P	YES	NO	NO
	2-71	E	22K	10K	NO	1K	47K	47K	NO	47K	1.50	0.022	NO	YES	NO



164
ES
NO
NO

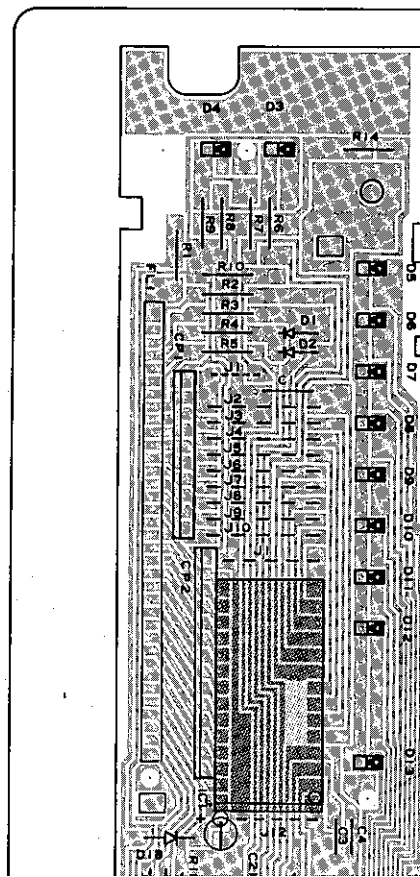
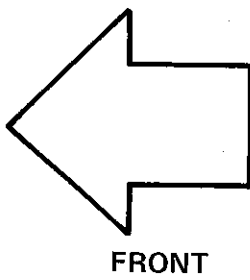
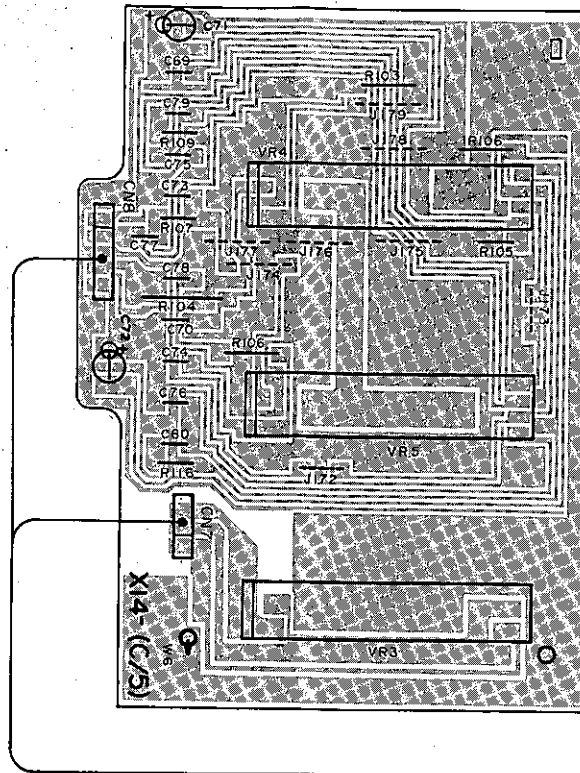


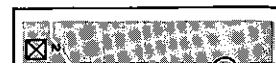
KR-A10(K)



- 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 mètre à haute impédance. Les valeurs peuvent légèrement varier du fait des variations inhérentes aux appareils et aux instruments de mesure.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Die Meßwerte können aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten geringfügig abweichen.

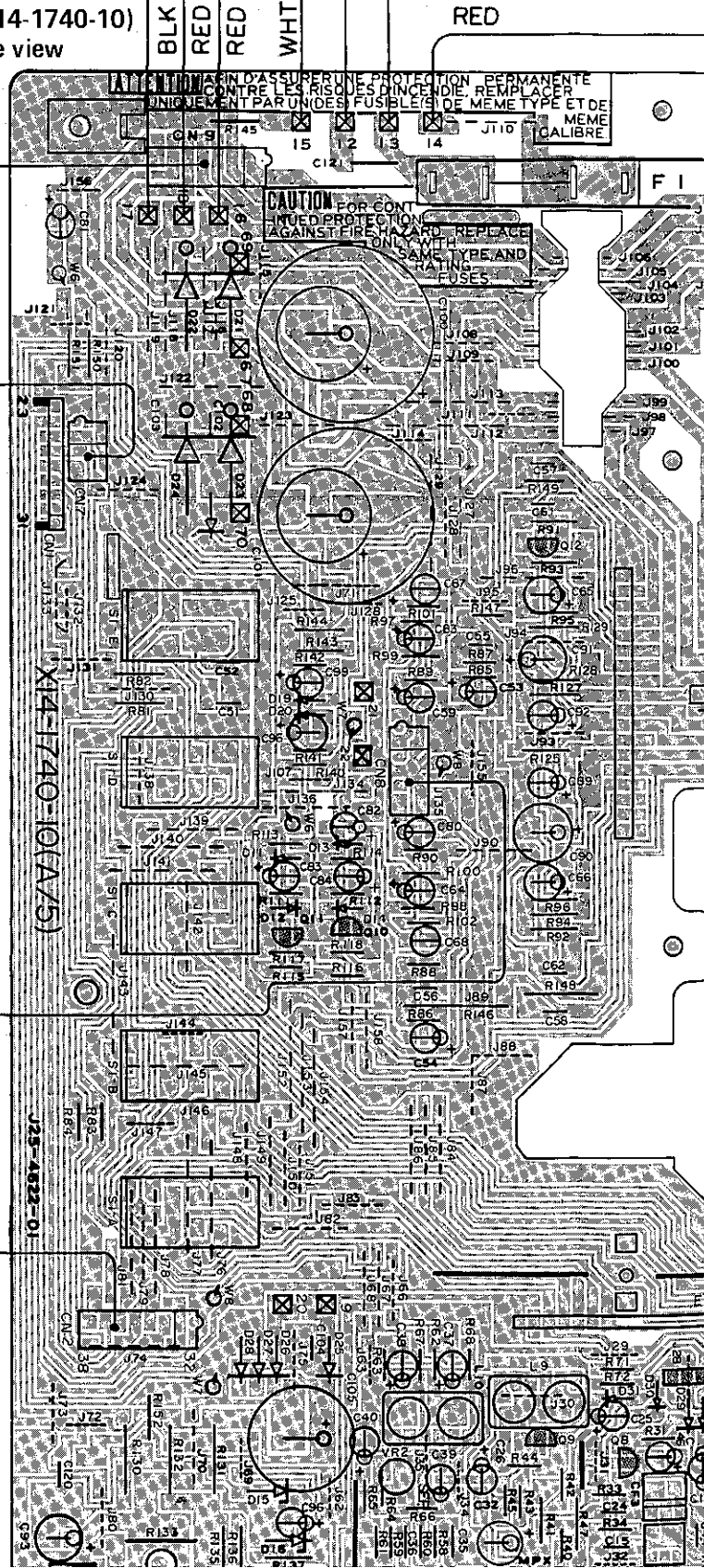
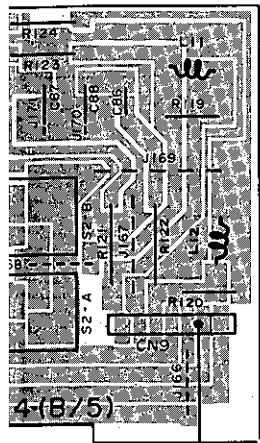
CAUTION: For continued safety, replace safety components only with manufacturer's recommendations (see parts list). Δ Indicates safety critical components. Measurements shall be carried out (exposed parts insulated from the supply circuit) before the unit is returned to the customer.





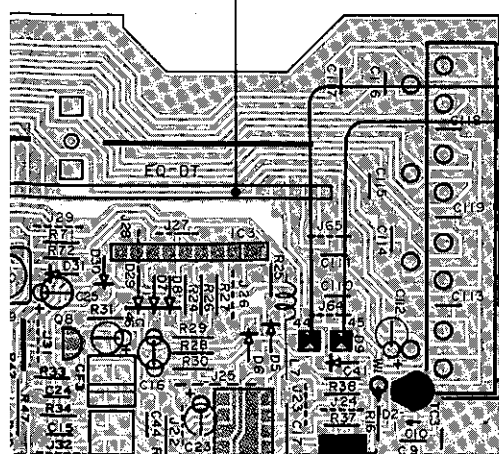
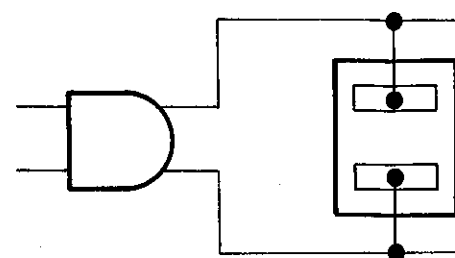
PC BOARD

RECEIVER (X14-1740-10)
Component side view



(X14-1740-10)

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

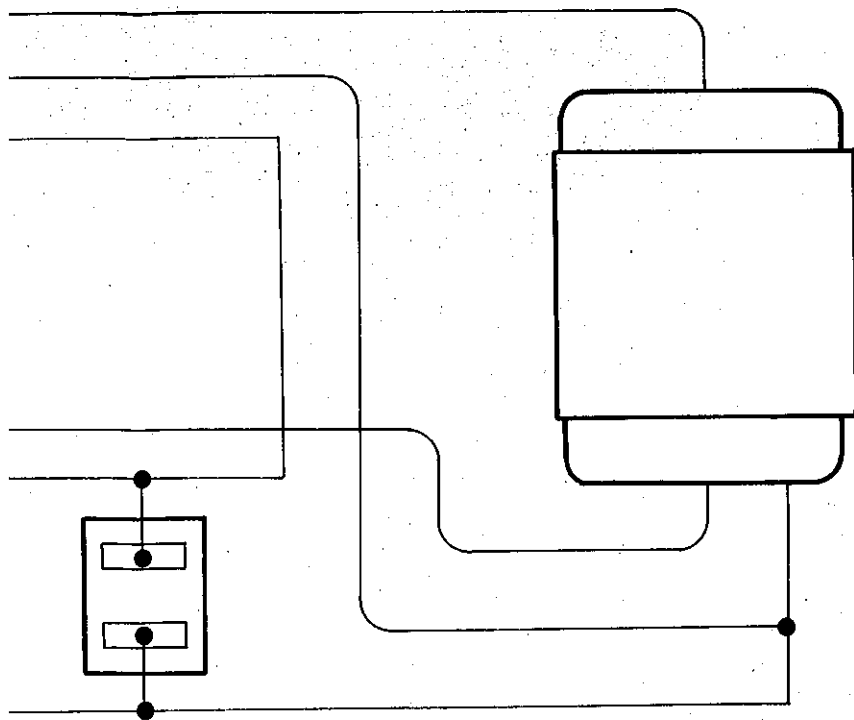


1	1.4V	9	1.4V
2	1.4V	10	1.4V
3	1.4V	11	0.7V
4	0V	12	5V
5	5V	13	0V
6	5V	14	0V
7	—	15	2.4V
8	1.5V	16	2.4V

1	11V	11	—
2	4V	12	0V (GND)
3	4V	13	—
4	0V (NC)	14	2.2V
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

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

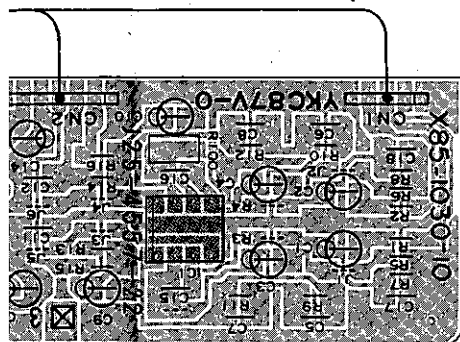
Frequency counter



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

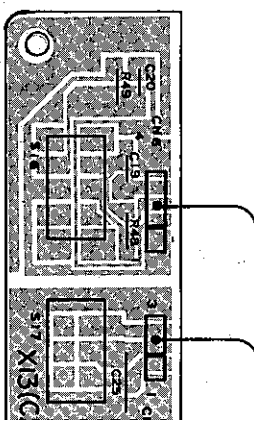
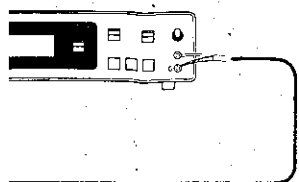


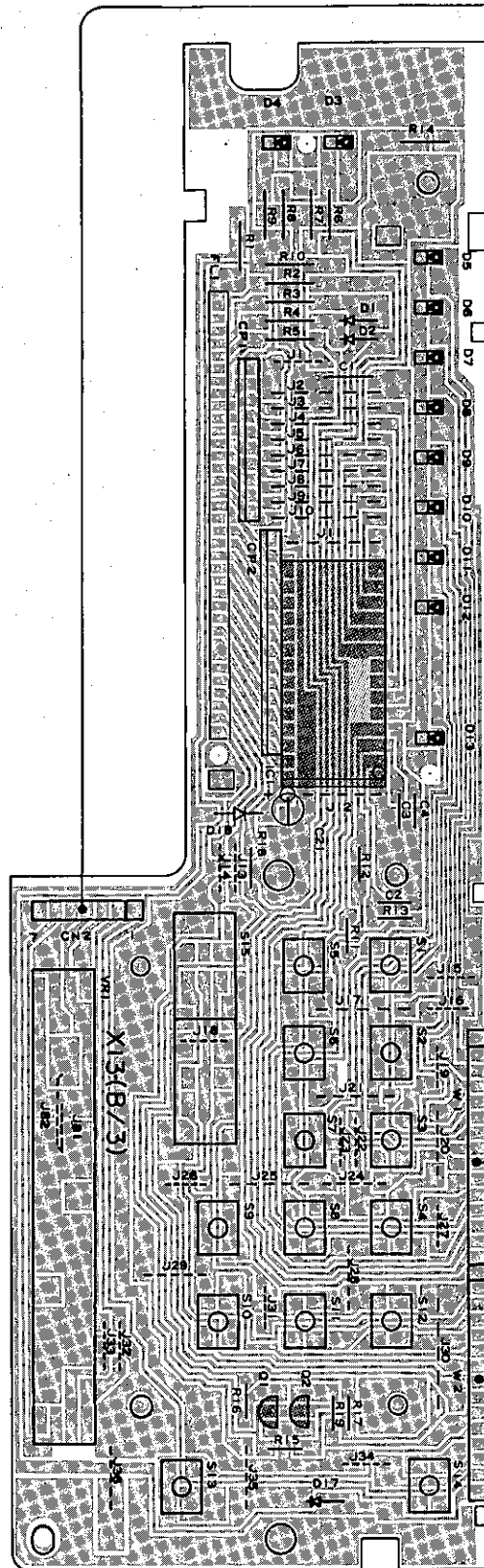
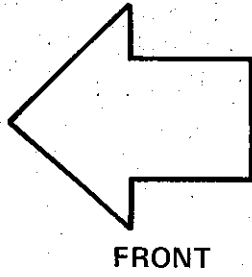
(X85-1030-10)

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

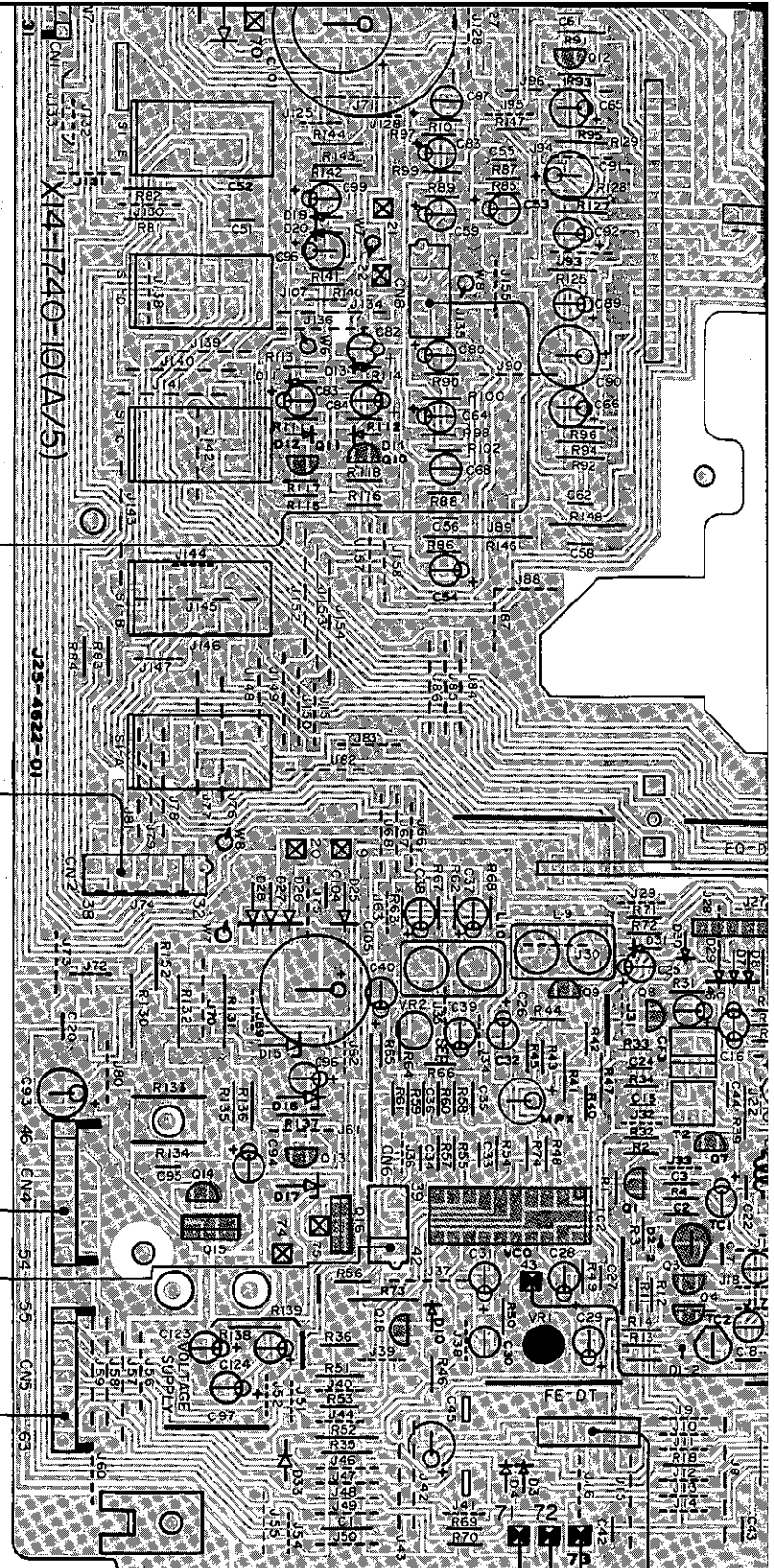
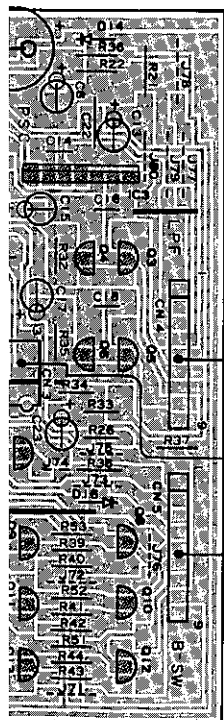
15	14V
----	-----

D)

(X14-1740-10)

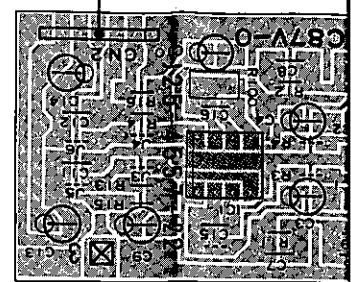
	E	C	B
Q2	1.4V	—	—
Q16	5.2V	13.6V	—
Q13	13V	—	13.6V
Q14	—	18V	—
Q15	13.6V	18V	—

(d)
DC voltmeter

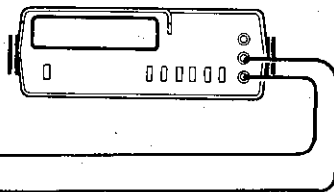


3	1.4V	11	0.7V	5	0V	15	2.2V	4	-2.8V	13	-
4	0V	12	5V	6	0V	16	0V	5	-1.2V	14	-
5	5V	13	0V	7	4.4V	17	2.4V	6	-1.4V	15	-
6	5V	14	0V	8	4.1V	18	2.4V	7	-31V	16	0
7	-	15	2.4V	9	4.4V	19	2.3V	8	-31V	17	0
8	1.5V	16	2.4V	10	4.1V	20	4.2V	9	-32V	18	0

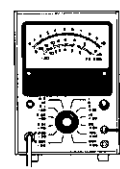
PREAMP (X85-1030-10) C



(b)
DC voltmeter

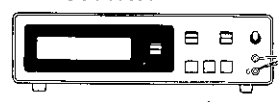


AC voltmeter

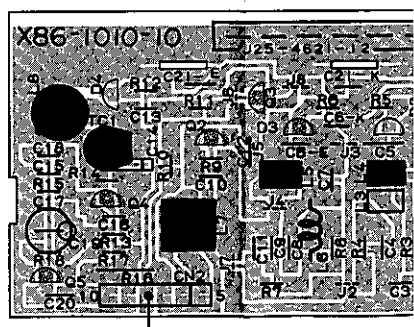


(c)

Frequency
counter

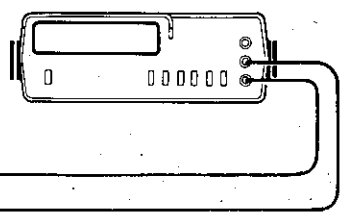


330k Ω



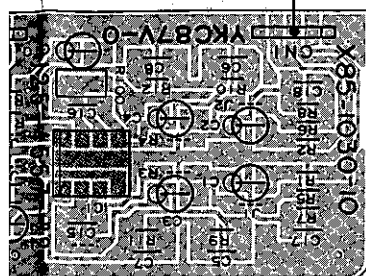
FRONT-END (X86-1010-10)
Component side view

(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

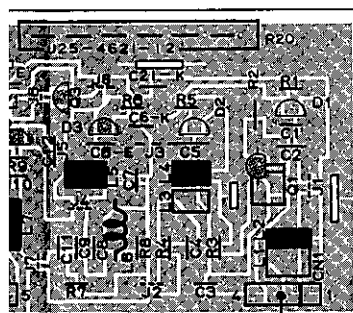
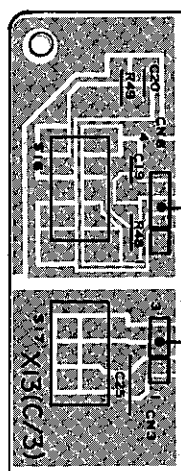
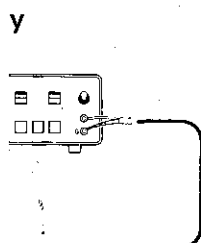
(X85-1030-10) Component side view



(X85-1030-10)

IC1

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



(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

KR-A10

KENWOOD

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		
Δ 16	1A		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	EE	
Δ 17	2B		E03-0036-05	AC OUTLET	KM	
Δ 17	2B		E03-0041-05	AC OUTLET	P	
Δ 18	2B		E30-0181-05	AC POWER CORD	K	
Δ 18	2B		E30-0459-05	AC POWER CORD	EE	
Δ 18	2B		E30-0812-05	AC POWER CORD	M	
Δ 18	2B		E30-0974-05	AC POWER CORD	P	
Δ 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		
Δ 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	

E : KR-A10 (Silver version)

Others : KR-A10 (Black version)

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

Δ 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.

Telle 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
36	2A	*	K27-1439-04	KN0B (BUTTON) VOL KN0B ADPT	E KPMXE E	
37	2B	*	K27-1460-04	KN0B ADAPTER SELECTOR		
38	3A		K27-1305-04	KN0B (CAP) TUNING		
38	3A	*	K27-1476-04	KN0B (CAP) TUNING		
39	3A		K29-1847-04	KN0B (SLIDE) VOLUME		
39	3A		K29-1862-04	KN0B (SLIDE) VOLUME	KPMXE	
40	2A		K29-1446-04	KN0B ASSY (BUTTON) POWER	E	
40	2A		K29-2001-04	KN0B ASSY (BUTTON) POWER	KPMXE	
41	3A	*	K29-2043-04	KN0B ASSY (BUTTON) SEL,LOUD		
42	2A	*	K29-2125-04	KN0B (SLIDE) BASS,TREB,BAL		
△ 46	2B	*	L01-4001-05	POWER TRANSFORMER	K	
△ 46	2B	*	L01-4002-05	POWER TRANSFORMER	EE	
△ 46	2B	*	L01-4005-05	POWER TRANSFORMER	M	
△ 46	2B	*	L01-4007-05	POWER TRANSFORMER	X	
△ 46	2B	*	L01-4008-05	POWER TRANSFORMER	P	
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	
50	2B		T90-0111-15	LOOP ANTENNA	EE	
51	1B		T90-0132-05	T TYPE ANTENNA		
SWITCH (X13-4800-10)						
D3	1A		B30-0483-05	LED(SLP-170B) STEREO		
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	ELECTRO 2200UF 6.3WV		
C8			CE04FW1C100M	ELECTRO 10UF 16WV		
C9			CK45FF1H223Z	CERAMIC 0.022UF Z		
C10			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C11 ,12			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C13			CE04FW1A470M	ELECTRO 47UF 10WV		
C14			CK45FF1H223Z	CERAMIC 0.022UF Z		
C15			CE04FW1H010M	ELECTRO 1.0UF 50WV	EE	
C16			CK45FF1H223Z	CERAMIC 0.022UF Z	EE	
C17			CE04FW1HR22M	ELECTRO 0.22UF 50WV	MX	
C18			CK45FF1H223Z	CERAMIC 0.022UF Z		
C19 ,20			CC45FSL1H331J	CERAMIC 330PF J		
C21			CE04FW1A470M	ELECTRO 47UF 10WV		
C22			C91-0085-05	CERAMIC 0.022UF N		
C23			CE04FW1C220M	ELECTRO 22UF 16WV	EE	
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	POTENTIOMETER(100KX2) VOLUME	MX	
S1 -9	3A		S40-1064-05	PUSH SWITCH (PRESET CH, MEMORY)		
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)		

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.

PARTS LIST

✕ New Parts

Parts without Parts No. are not supplied.

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

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

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
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			CE04FW1H0R1M	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	EE	
C106-109			CK45FF1H682Z	CERAMIC 6800PF Z	EE	
C110,111			CC45FSL1H180J	CERAMIC 18PF J		
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	

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.

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
△ C122			C91-0647-05	CERAMIC 0.01UF P	MXEE	
C123			CE04FW1C100M	ELECTR 10UF 16WV	KPMX	
TC1			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF)	EE	
TC2			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF)	EE	
TC3			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF)	EE	
TC4			C05-0303-05	CERAMIC TRIMMER CAPACITOR(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 (SEMKO) (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 INDUCTOR(1.0UH,M)		
L8		*	L40-1021-14	SMALL FIXED INDUCTOR(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	KPMX	
T2			L30-0337-05	AM IFT	EE	
T2			L30-0362-05	AM IFT		
H	1B		N09-1202-05	TAPPING SCREW (Ø3X14)		
CP1			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R41			RD14AB2E330J	FL-PROOF RD 33 J 1/4W	EE	
R52			RD14GB2E101J	FL-PROOF RD 100 J 1/4W	KPMX	
R52			RD14GB2E560J	FL-PROOF RD 56 J 1/4W		
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 PNT. (22K) VCO		
VR2		*	R12-3099-05	TRIMMING PNT. (47K) SEPARATION	EE	
VR3	1B		R13-5049-05	POTENTIOMETER(200K) BALANCE		
VR4 ,5	1A,1B		R13-4025-05	POTENTIOMETER(50KX2) BASS, TREB		

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.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
A S1 S2 S3	2B 2B 2B	* * *	S42-5043-05 S42-2128-05 S31-2083-05	MULTIPLE PUSH SWITCH(SELECTOR) MULTIPLE PUSH SWITCH(SPEAKERS) SLIDE SWITCH (POWER TYPE)	M	
	D1 D1 ,2 D3 ,4 D5 -14 D11 -14		KV1236(Z2) KV1236(Z2) 1SS133 1SS133 1SS133	VARIABLE CAPACITANCE DIODE VARIABLE CAPACITANCE DIODE DIODE DIODE DIODE	KPMX EE EE KPMX EE	
	D15 ,16 D17 D18 D19 ,20 D19 ,20		RD13E(B) RD6.2E(B) DSM1A1 1SS131 1SS178	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
A D21 -24 D29 D29 -33 D30 -33 D3,4			GP20DL 1SS176 1SS133 1SS133 1SS176	DIODE DIODE DIODE DIODE DIODE	KPMX KPMX EE EE	
	D11-14 D30-33 D5-10 IC1 IC2		1SS176 1SS176 1SS176 LA1260 LA3390	DIODE DIODE DIODE IC(FM/AM TUNER) IC(FM MPX)	KPMX	
	IC3 IC4 IC4 Q1 Q1	* * * * *	AN6555 STK4141/2 STK4151/2 2SC1685(R,S) 2SC2320(E,F)	IC(OP AMP X2) IC(AF POWER AMP/ 25W X2) IC(AF POWER AMP/ 30W X2) TRANSISTOR TRANSISTOR	KPMX EE KPMX	
Q1 Q2 Q3 ,4 Q5 -11 Q7 -11			2SC945(A)(Q,P) 2SC1923(R,S) 2SK364(GR,BL) 2SC1685(R,S) 2SC1685(R,S)	TRANSISTOR TRANSISTOR FET TRANSISTOR TRANSISTOR	EE EE KPMX	
	Q12 Q12 Q12 Q13 ,14 Q15 ,16		2SA1127NC(R,S) 2SA733(A)(Q,P) 2SA999(E,F) 2SC1685(R,S) 2SC2167	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
	Q18 Q18 Q18 Q5,6 Q5,6		2SC1685(R,S) 2SC2320(E,F) 2SC945(A)(Q,P) 2SC2320(E,F) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KPMX KPMX KPMX EE EE	
Q13,14 Q13,14 Q7-11 Q7-11			2SC2320(E,F) 2SC945(A)(Q,P) 2SC2320(E,F) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
PREAMP (X85-1030-10)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CE04FW1C100M CE04FW1A470M CF92FV1H123J CF92FV1H332J CE04FW1H2R2M	ELECTRO ELECTRO MF MF ELECTRO	10UF 47UF 0.012UF 3300PF 2.2UF	16WV 10WV J J 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 CC45FSL1H090D	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(0) 2SK161(Y,GR) 2SC1923	TRANSISTOR FET TRANSISTOR	EE	

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

E: KR-A10 (Silver version)

Others: KR-A10 (Black version)

S: South Africa

T: England

U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia

M: Other Areas

⚠ 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%

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

Output level/impedance

TAPE REC OUT (Pin)..... 150 mV/1.5k ohms

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

Image rejection ratio

40 dB

Spurious rejection ratio

73 dB

IF rejection ratio

95 dB

Alternate channel selectivity

53 dB at $\pm$ 400 kHz

AM suppression ratio

57 dB

Stereo separation ratio

40 dB at 1 kHz

Subcarrier suppression ratio

35 dB

Antenna impedance

300 ohms balanced and

75 ohms unbalanced

FM frequency range

87.5 MHz to 108 MHz

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.

TRIO-KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD ELECTRONICS

DIVISION OF KENWOOD U.S.A. CORPORATION

1315 E. Watsoncenter Rd., Carson, California 90745, U.S.A.

75 Seaview Drive, Secaucus, New Jersey 07094, U.S.A.

TRIO-KENWOOD CANADA INC.

1070 Jayson Court, Mississauga, Ontario, Canada L4W 2V5

TRIO-KENWOOD ELECTRONICS, N.V.

Leuvensesteenweg 504 B-1930 Zaventem, Belgium

TRIO-KENWOOD ELECTRONICS GmbH

Rembrücker Str. 15, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A.

5, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD (AUSTRALIA) PTY. LTD. (INCORPORATED IN N.S.W.)

4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 5th Floor, 34-37, Connaught Road, Central, Hong Kong