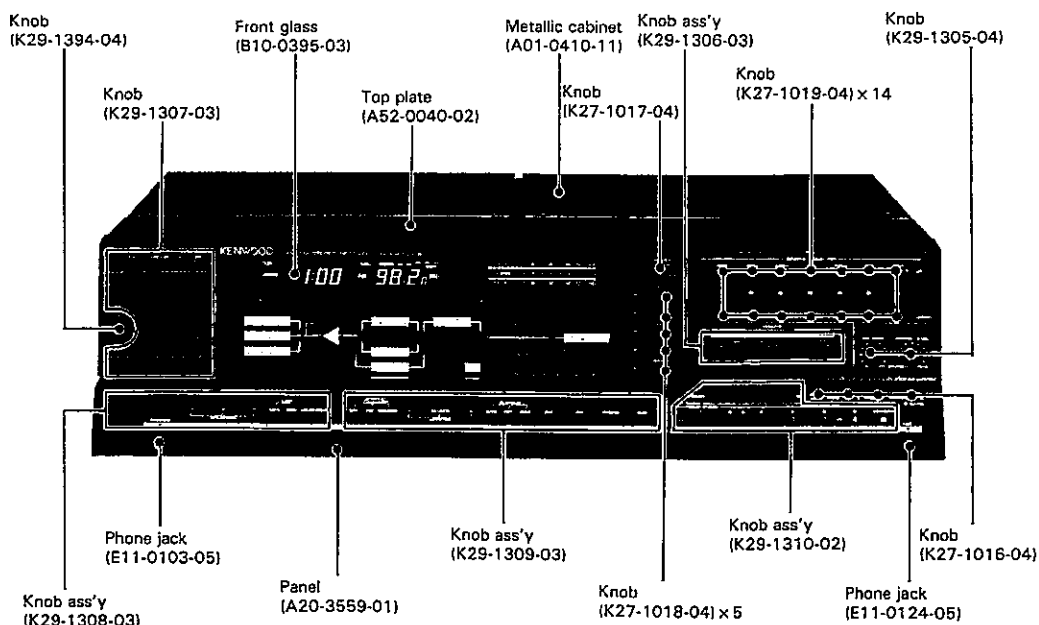
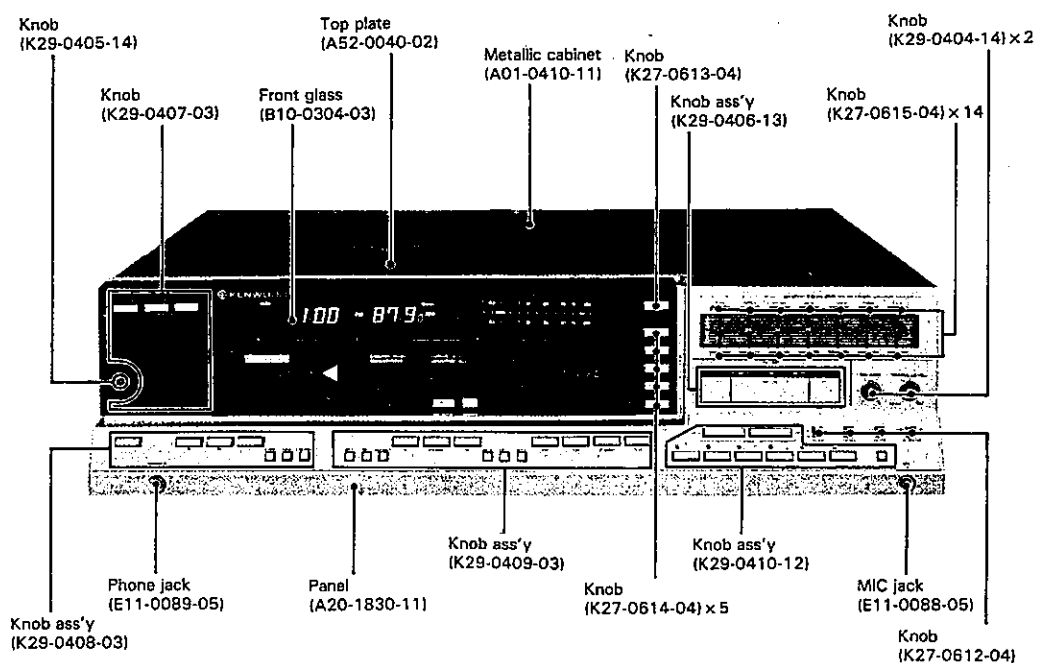


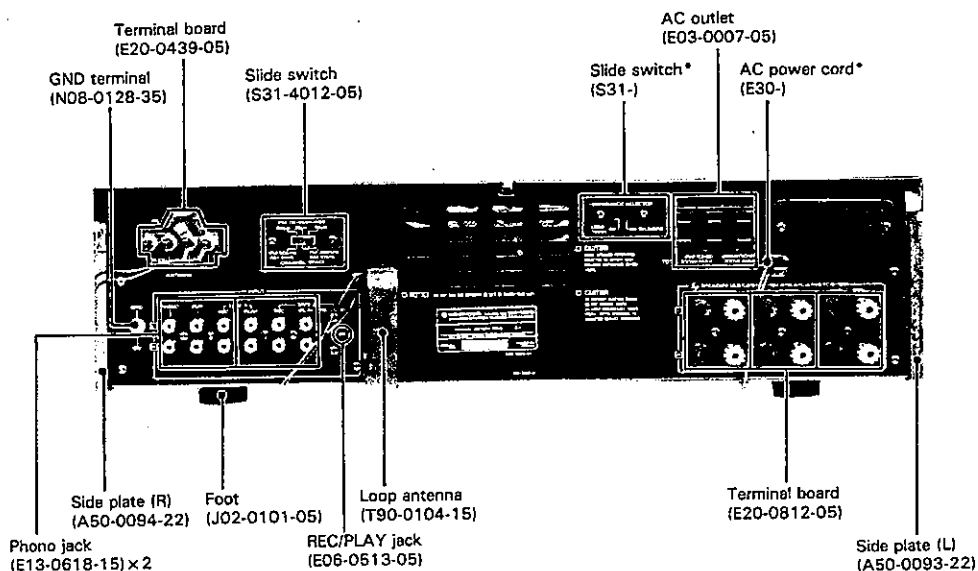
KENWOOD

KR-1000 KR-1000B

AM-FM STEREO RECEIVER



EXTERNAL VIEW/DIAL CORD STRINGING



*Refer to parts list on page 40.

DIAL CORD STRINGING

1. Attach the dial cord to the dial spring and proceed from ① to ③.
2. Wind the dial string twice around the motor pulley ④ and proceed from ⑤ to ⑦.
3. Turn the pulley fully clockwise and slide the belt so that the boundary between black and white moves to the tip of the arrow. ⑧ Fix the hardware to the dial cord with an adhesive. ⑨

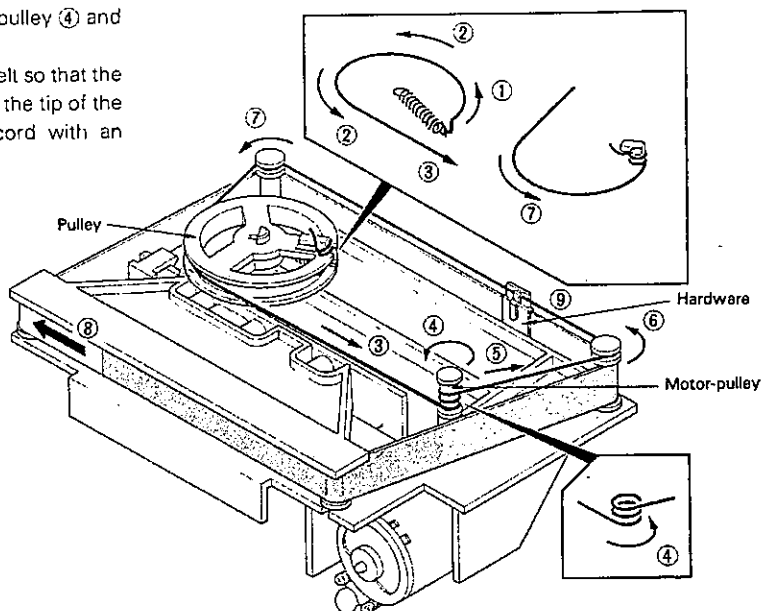
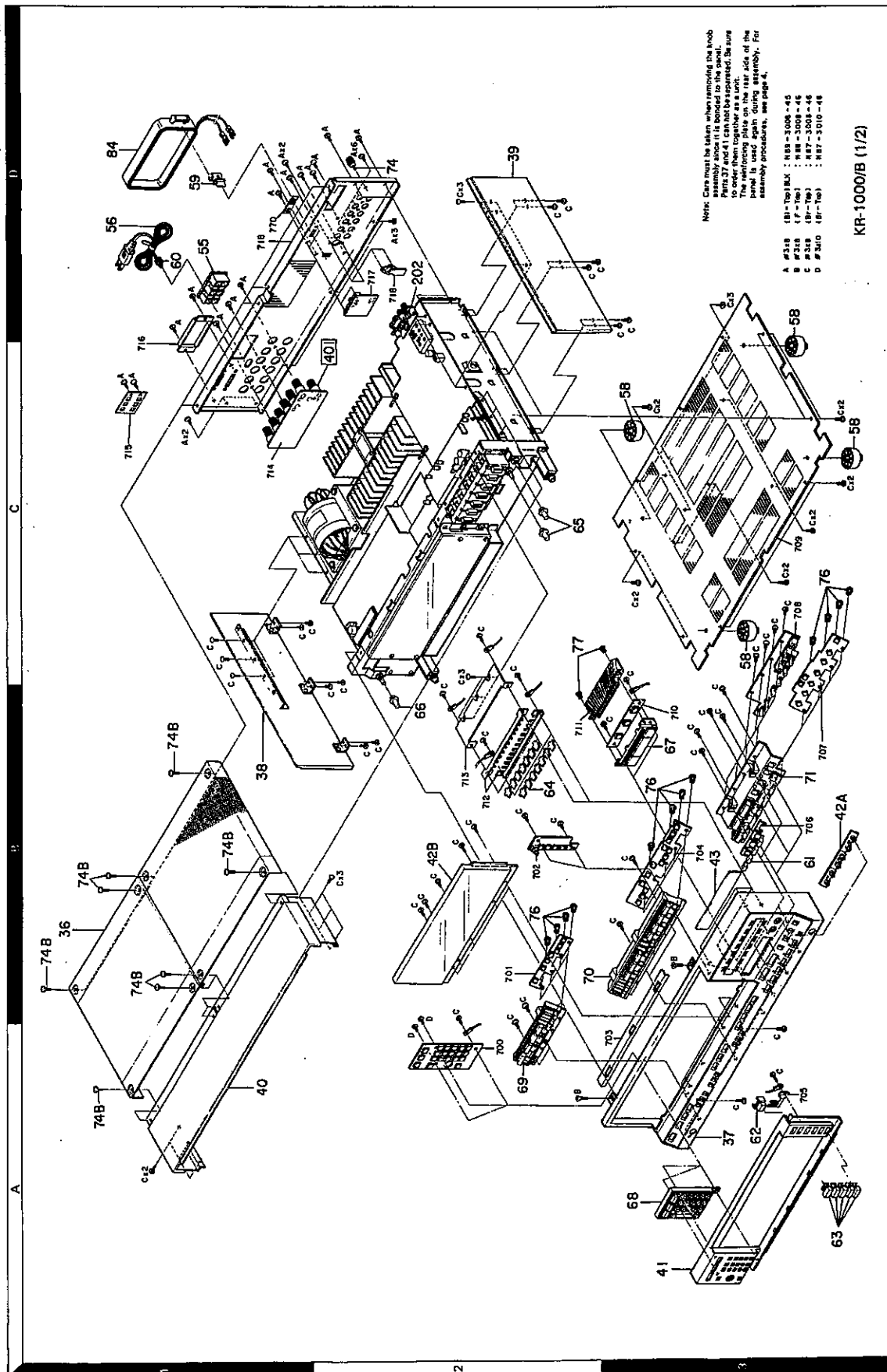


Fig. 1 Dial Cord Stringing

KR-1000/B KR-1000/B

EXPLODED VIEW

Parts of small exploded view Nos. are not supplied



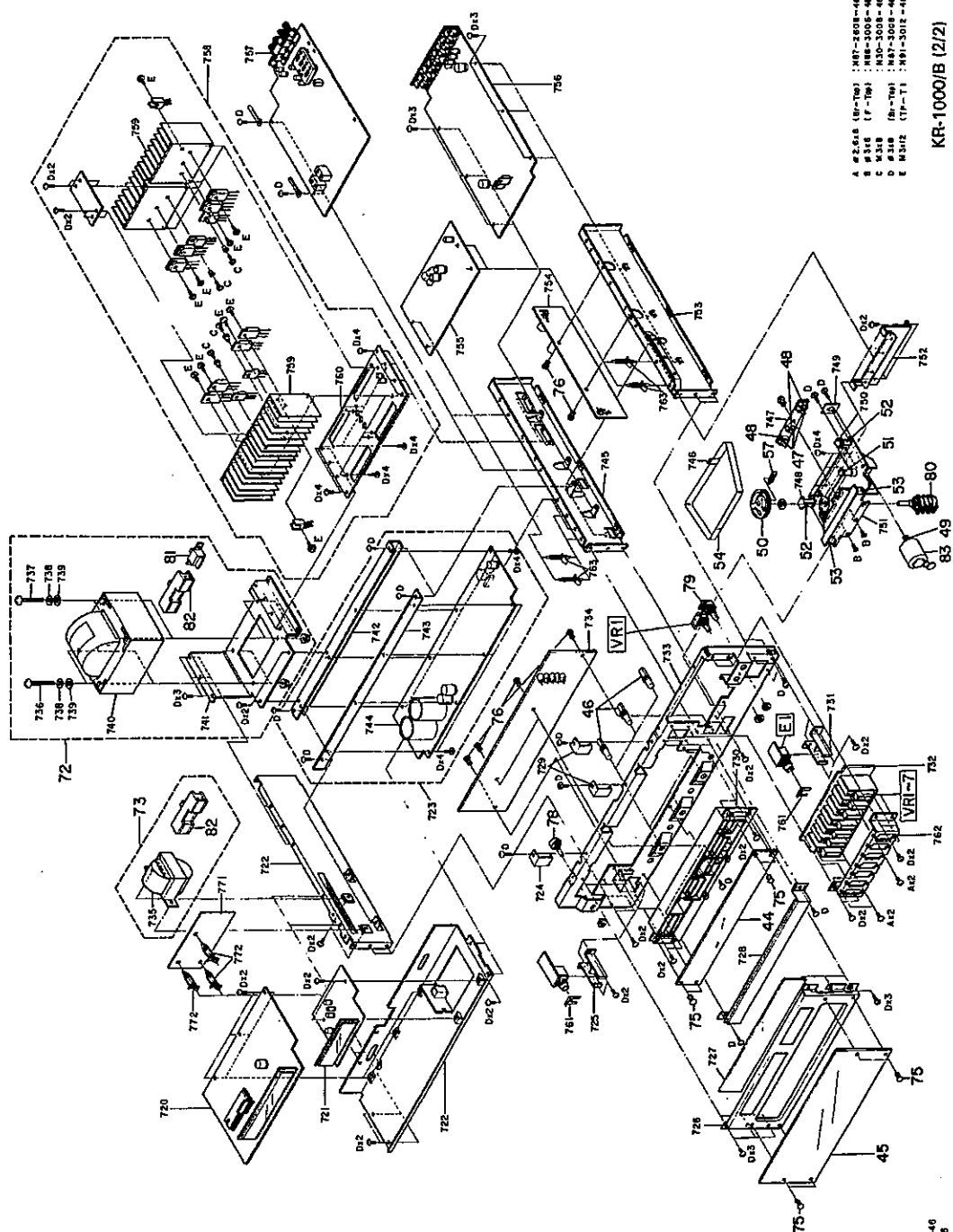
Notes: Care must be taken when removing the sub-assembly since it is bonded to the panel. The bonding plate on the rear side of the panel is used again during assembly. For assembly procedures, see page 4.

- A #318 (B-Ten) : 887-3008-45
- B #318 (B-Ten) : 887-3008-46
- C #318 (B-Ten) : 887-3008-47
- D #318 (B-Ten) : 887-3010-48

KR-1000/B (1/2)

EXPLODED VIEW

5



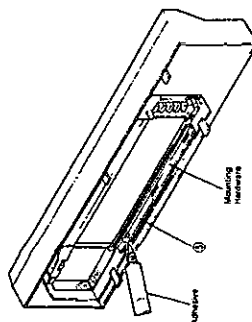
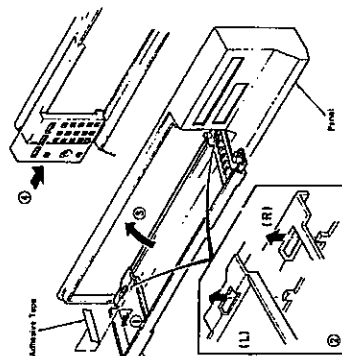
M3×8 N30-3008-46
M2.6×8 (Br-Tap) N87-2608-46
M3×8 (Br-Tap) N87-3008-46
M3×8 (F-Tap) N88-3008-46
M3×12 (TP-T) N91-3012-46

KR-1000/B (2/2)

Refer to parts list on page 40.

PANEL ASSEMBLY/DISASSEMBLY FOR REPAIR

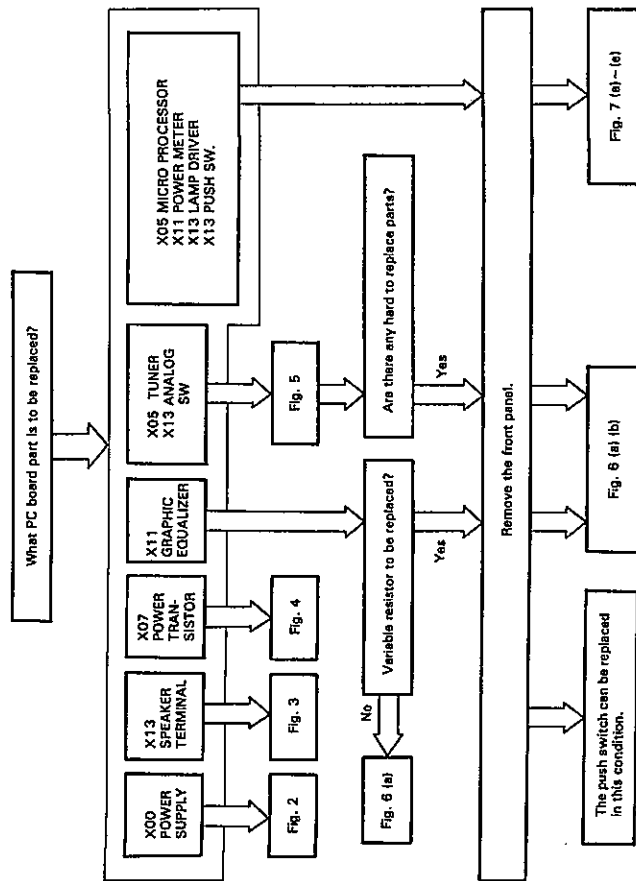
- (1) Affix double-sided adhesive tape to the left side of the panel escutcheon. (1)
- (2) Hook the claws on the panel into the holes on the bottom side of the panel escutcheon. (2)
- (3) Stand the panel escutcheon so that the gap between the top side of the panel and panel escutcheon is uniform. (3)
- (4) Keeping the gap even, shift the panel escutcheon in the direction indicated by arrow (4) so that the panel and panel escutcheon are bonded by the tape.
- (5) Affix double-sided adhesive tape to the mounting hardware and apply the mounting hardware to the panel and panel escutcheon. Apply adhesive to the dotted parts. (5)



DISASSEMBLY FOR REPAIR

- For disassembly for repair, follow the disassembly instructions in the figure for the location to be replaced as indicated in the figure on the next page.
- Note:**
1. When connectors and leads are disconnected from PC boards for disassembly, be extremely careful to ensure that they are reconnected in their original positions.
 2. During reassembly, be extremely careful to ensure that the leads are reconnected in the same shape they were in prior to disassembly; failure to do so may result in performance degradation or inability to complete reassembly.

DISASSEMBLY FOR REPAIR



1. Removing the Power Supply PC Board (X00)

- (1) Remove the bottom plate.
- (2) Loosen 8 screws holding the PC board, disconnect wires which restrict movement of the PC board and pull it out.
- (3) Turn the PC board as shown by the arrow in the figure at the right. Now parts can be replaced.

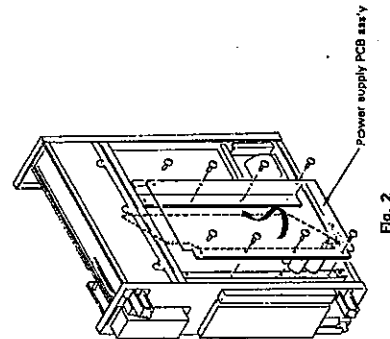


Fig. 2

DISASSEMBLY FOR REPAIR

2. Removing the Speaker Terminal Board

- (1) Remove the 6 screws holding the rear panel. The rear panel is not removed at this point because it is connected to the antenna terminal and phono jack boards.
- (2) Remove the 3 screws fixing the speaker terminal to the rear panel.
- (3) Pull the rear panel slightly in the direction indicated by arrow ① and pull out the SP terminal in the direction indicated by arrow ②.

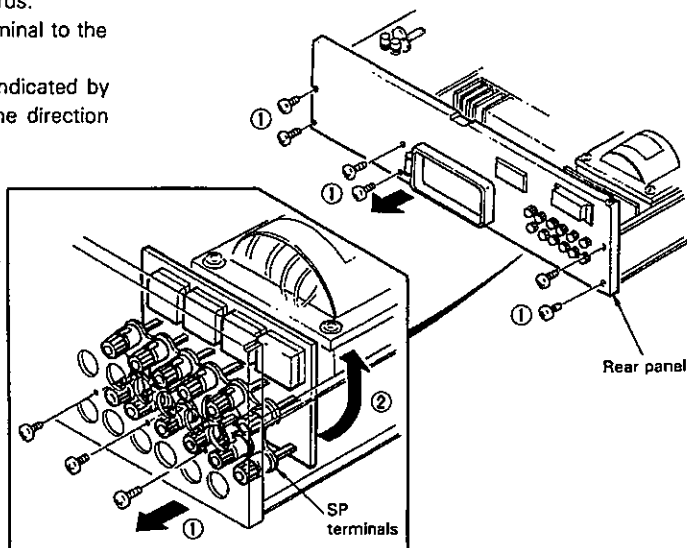


Fig. 3

3. Power Transistor Replacement

- (1) Remove the PC board which holds the heat sink from above. (①)
- (2) When one of the transistors on a heat sink without a varistor is defective, unsolder the terminals of all transistors mounted on that heat sink. Then remove the screws holding the heat sink to the PC board from the bottom side, remove the heat sink and transistors together and replace the transistors.
- (3) When one of the transistors on the heat sink with a varistor is defective, remove the PC board together with the four heat sink mounted on it and loosen the screw holding the varistor to the heat sink. Then replace the transistor as described at right.

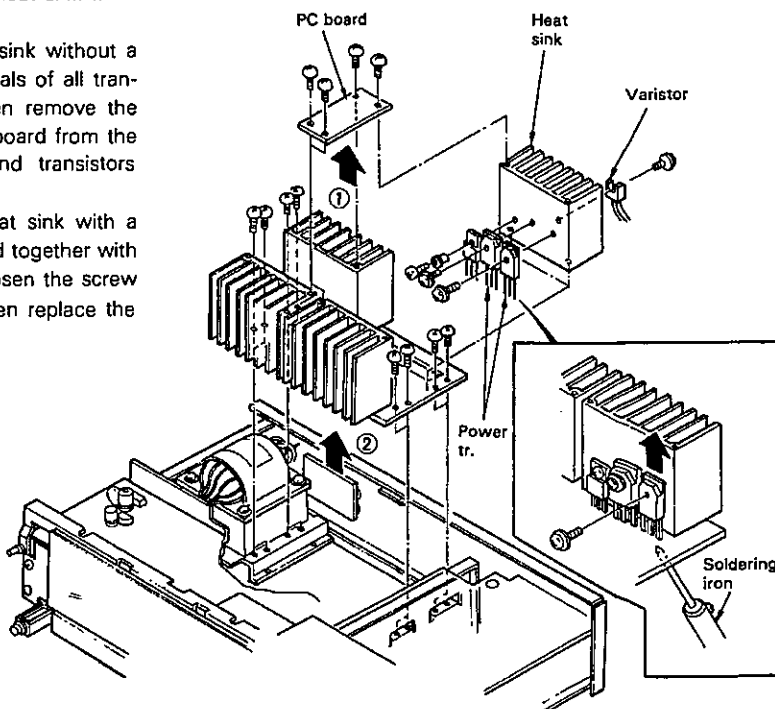


Fig. 4

DISASSEMBLY FOR REPAIR

4. Removing the Tuner Unit (X05)

- (1) Loosen the 5 screws holding the side plate. (①)
- (2) Loosen the 4 screws holding the tuner unit and remove it in the direction indicated by arrow ②.

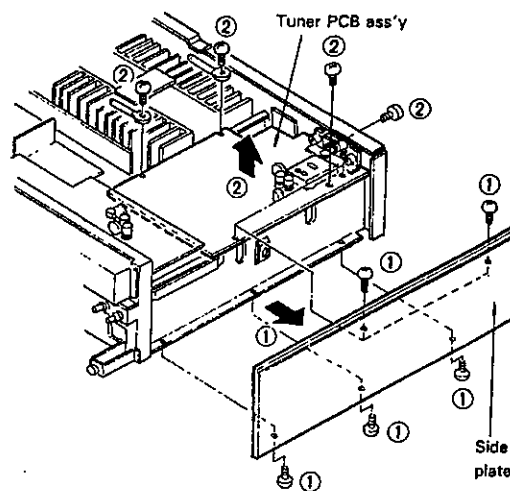


Fig. 5

5. Removing the Graphic Equalizer PC Boards

- (1) Remove the PC boards from the 4 PC board holders. (①)
- (2) Loosen the 4 screws holding the PC board on which a variable resistor is mounted and remove it from the sub-panel. (②)

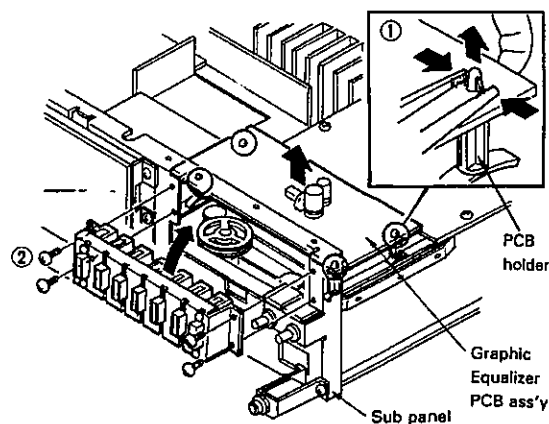


Fig. 6 (a)

6. Removing the Volume Reflector

- (1) Remove the 2 screws holding the volume reflector to the sub panel.
- (2) Remove the 2 screws holding the volume reflector to the frame.

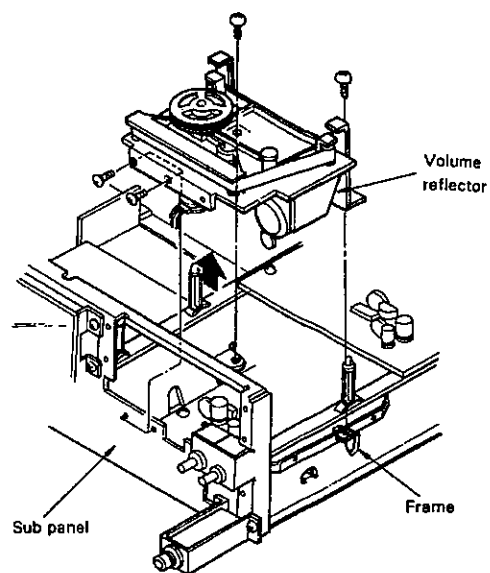
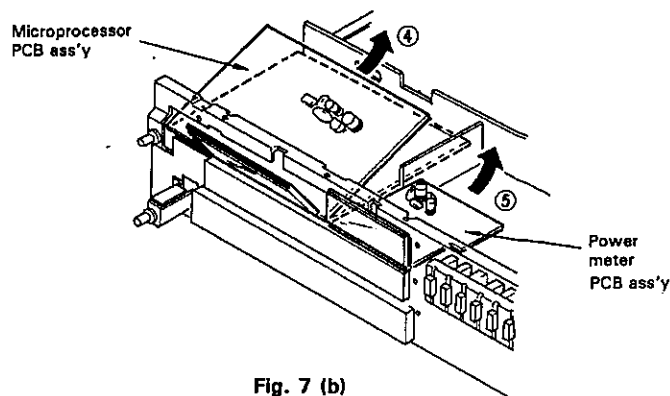
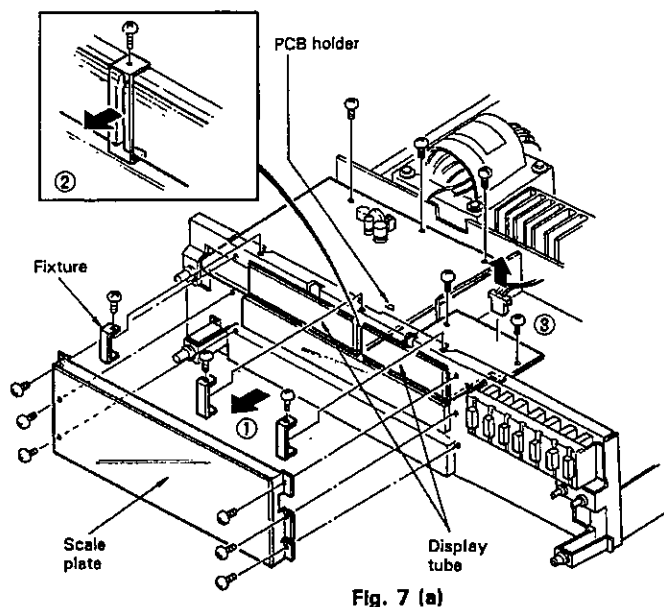


Fig. 6 (b)

DISASSEMBLY FOR REPAIR

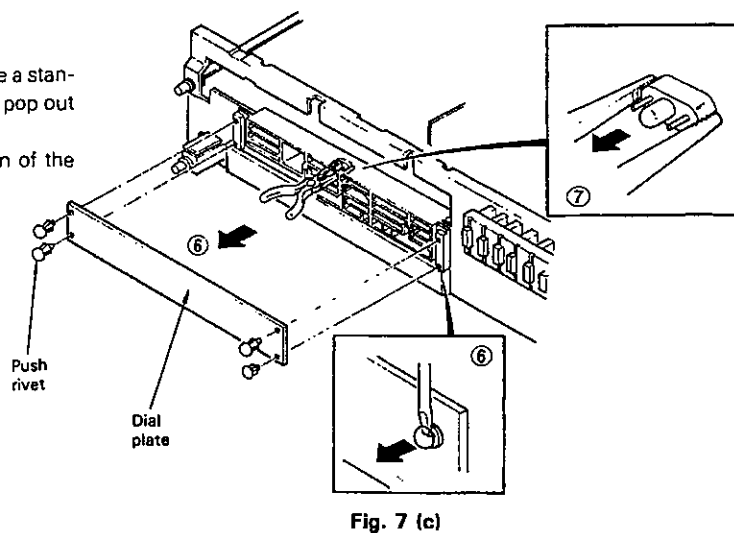
7. Removing the Microprocessor PC Board and Power Meter PC Board

- (1) Remove the front panel.
- (2) Remove the 6 screws holding the scale plate.
- (3) Remove the 3 screws holding the fixtures for the fluorescent display tubes. (①, ②)
- (4) Remove the screws holding the PC boards to the frame. (There is one PC board holder on the X05 PC board.)
- (5) Tilt the PC boards in the direction indicated by the arrows ④ ⑤ and pull them out, being careful not to damage the fluorescent display tubes.



8. Lamp Replacement

- (1) Remove the push rivets holding the dial plate. Use a standard screwdriver or other tool with a sharp tip to pop out the push rivets.
- (2) Use long nose pliers to grasp the rubber portion of the lamp and pull it out.



DISASSEMBLY FOR REPAIR

9. Removing the Lamp Driver PC Board

- (1) Remove the graphic equalizer PC board. (⑧)
- (2) Remove the PC boards on which fluorescent display tubes are mounted. (⑨, ⑩)
- (3) Remove the 4 screws holding the frame on which the fluorescent display tubes were fastened and slide it to the rear. (⑪)
- (4) Remove the 4 push rivets holding the lamp driver PC board. (⑫) Then remove the 4 screws holding the reflector and remove it.
- (5) Pull the lamp driver PC board out from the top. (⑬)

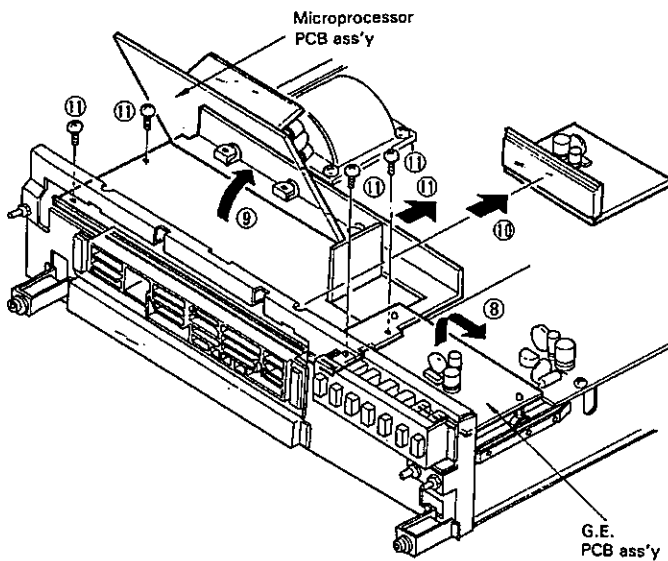


Fig. 7 (d)

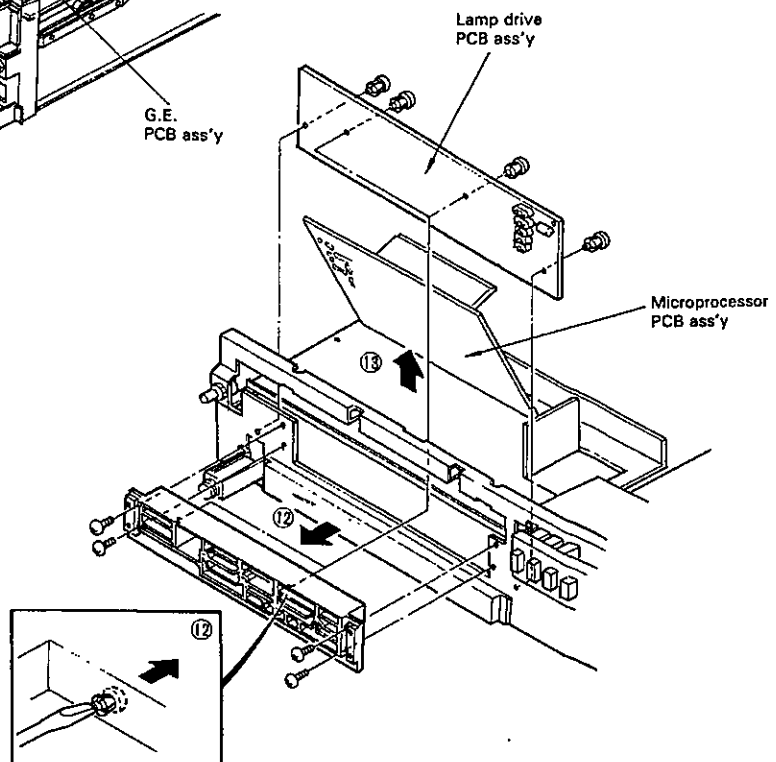
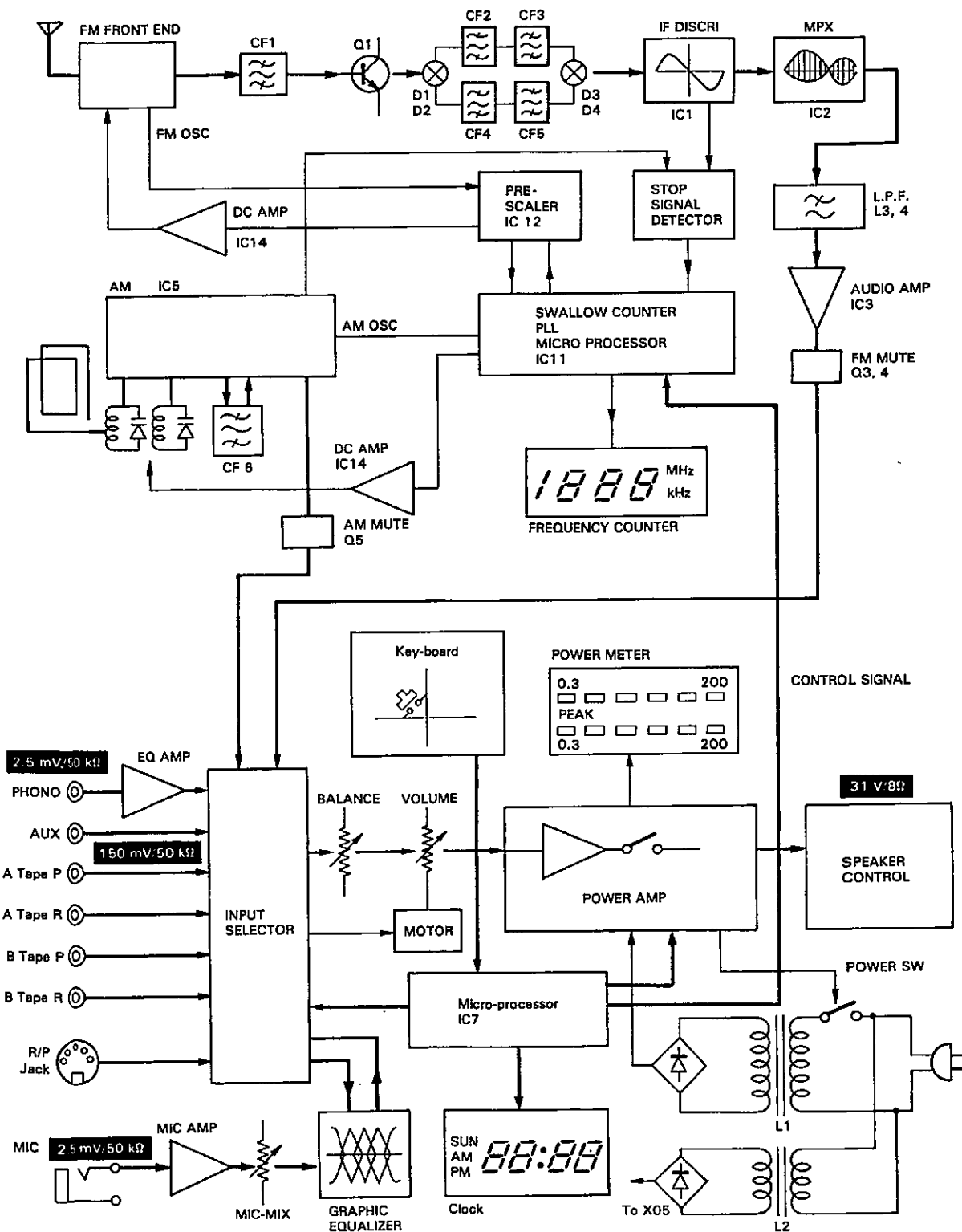
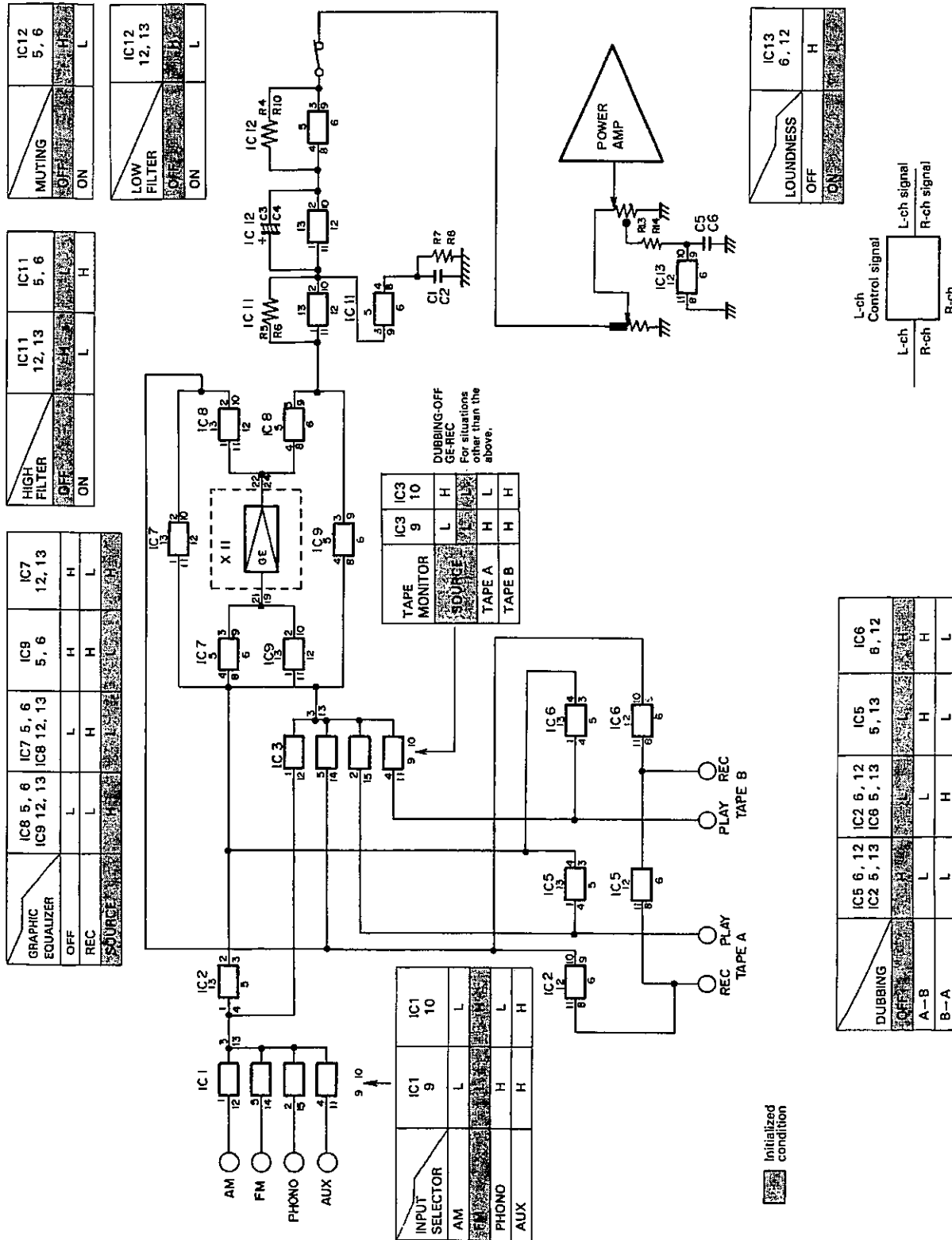


Fig. 7 (e)

BLOCK & LEVEL DIAGRAM



CIRCUIT DESCRIPTION



CIRCUIT DESCRIPTION

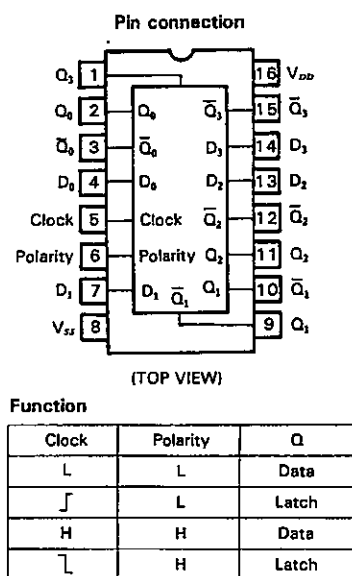


Fig. 12

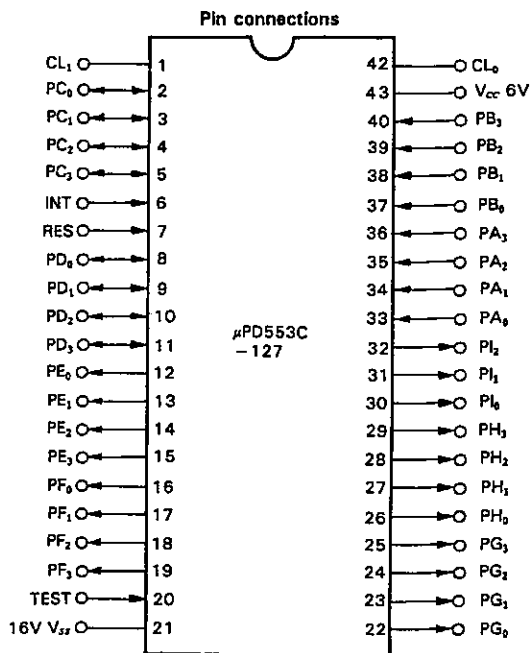
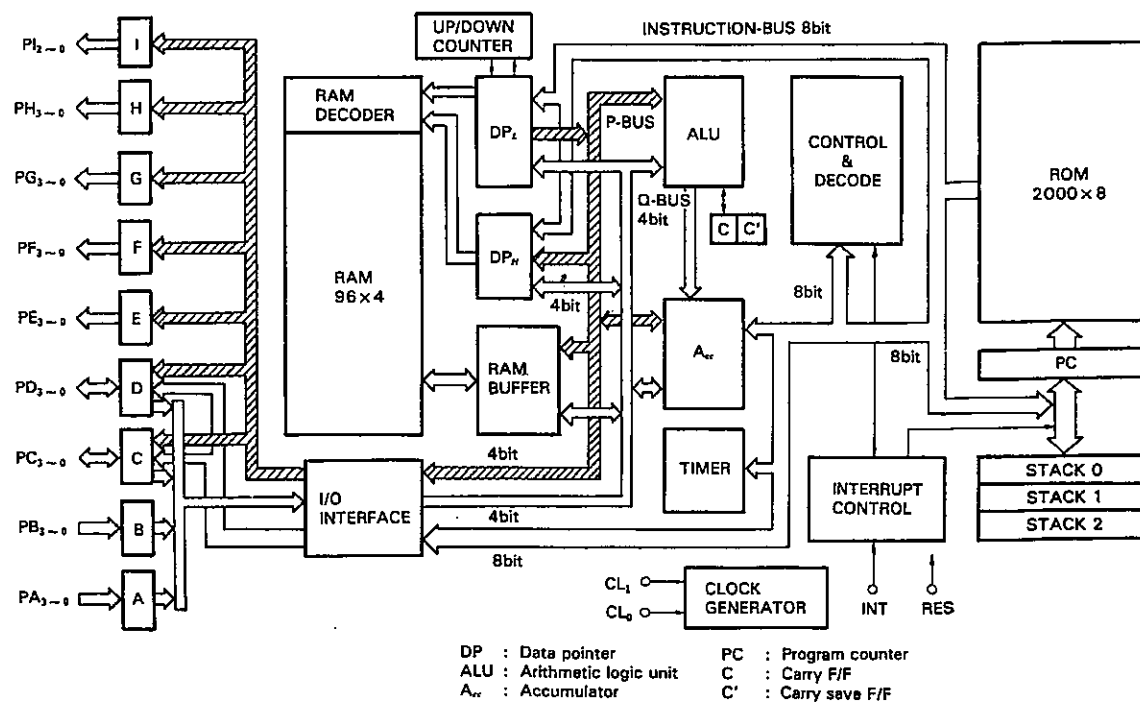
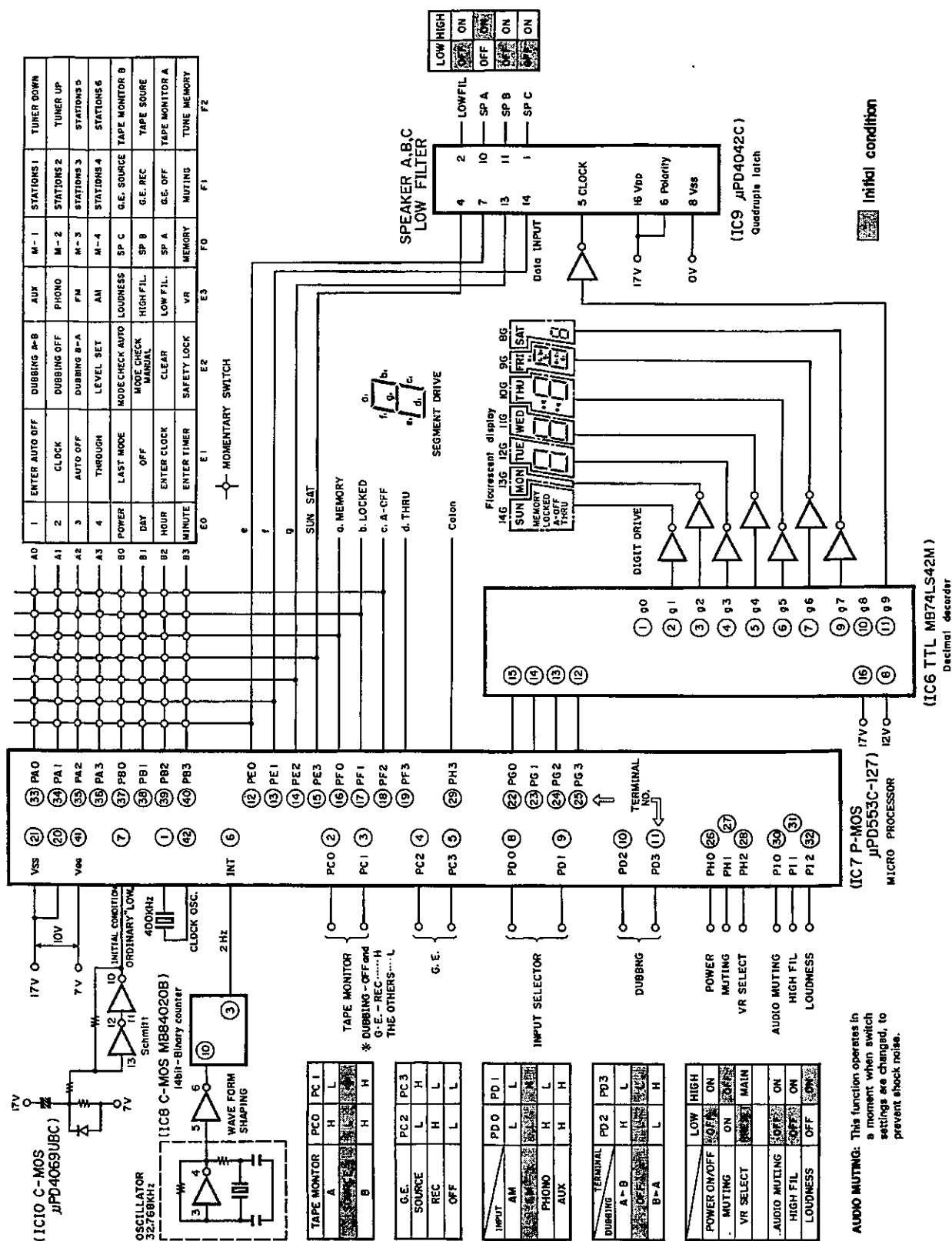


Fig. 13



CIRCUIT DESCRIPTION



CIRCUIT DESCRIPTION

3. Voltage regulator and dimmer circuit for lamps (X13-3160-10)

The KR-1000 has many built-in lamps. Variation of the lamp power supply voltage due to AC line voltage variations or variation in the output power will result in fluctuations in the amount of light output by the lamps. Therefore, the KR-1000 uses a voltage regulator to ensure stable power for the lamps.

See Fig. 16. Q33 is forward biased when the lamp ON/OFF signal level is "H" (+16 V) and the lamp is ON. The voltage at the emitter of Q33 is $V_z + 3 V_D$; i.e., it is the sum of the voltage across Zener diode D57 (V_z) and the forward voltages of diodes D77, D55 and D56 (V_D each), since these diodes are connected to the emitter in series. The emitter voltage of Q65 is then $V_z + 2 V_D$ since the base-emitter voltage of Q65 is regarded as V_D . Thus, the voltage applied to the lamp is kept constant ($V_z + 2 V_D$) even if the lamp power supply voltage varies.

Q33 is OFF when the lamp ON/OFF signal level is "L" (0 V) since Q33 is reverse biased. Then, Q65 is OFF and the voltage is not supplied to the lamp.

D55 and D56 are shorted when the dimmer switch is turned ON while the lamp ON/OFF signal level is "H". Then, the emitter voltage of Q33 becomes $V_z + V_D$ and the emitter voltage of Q65 becomes V_z . Thus, the lamp is dimmed. In practice, the lamp drive circuit drives many lamps.

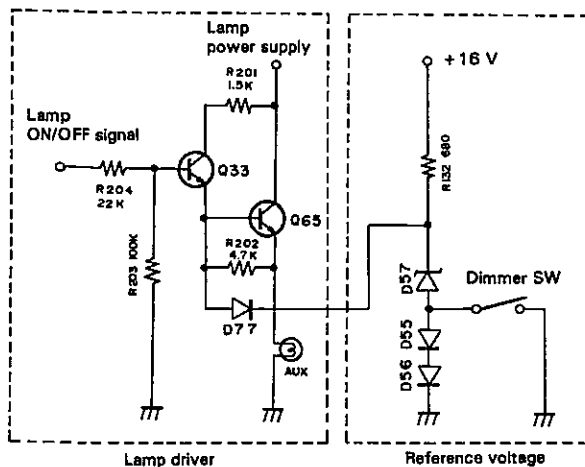


Fig. 16 Lamp Drive Circuit

4. Fluorescent Display Tube Dimmer Circuit

A conventional dimmer circuit for a fluorescent display tube, which is dynamically driven, controls the duty ratio of the digit control pulse signal to shorten the time during which the segments are lit. (See Page 20).

In the KR-1000, the duty ratio of the digit control pulse signal is not varied, but is switched at high speed as shown in Fig. 17 so that the time during which the segments are lit is shortened. This method is also effective for a fluorescent display tube which is driven statically. (See Fig. 17).

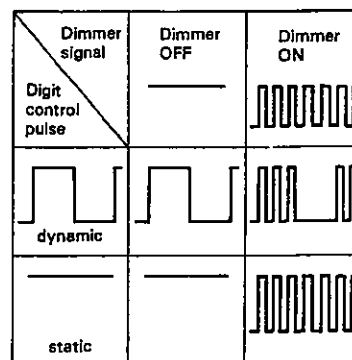


Fig. 17

Fig. 18 shows a dynamically driven fluorescent display tube dimmer circuit. A "H" level signal (+16 V) is applied to the dimmer signal input terminal when the dimmer function is OFF and Q46 is ON. Therefore, Q21 goes ON and its collector level becomes "H" when the digit out signal is "H", and Q21 is OFF and its collector level becomes "L" when the digit out signal is "L".

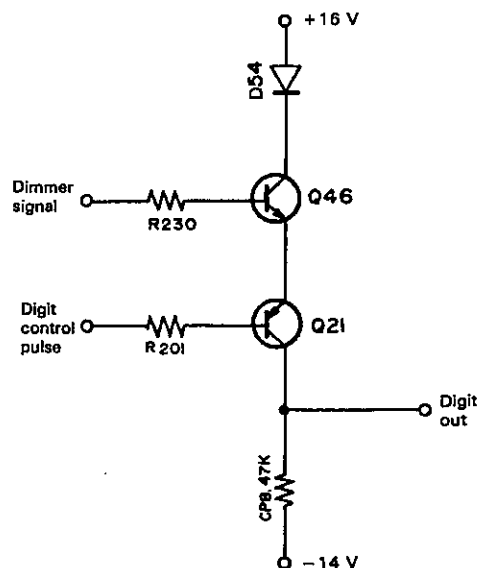


Fig. 18 Dynamic Drive Circuit

CIRCUIT DESCRIPTION

When the dimmer function is ON, a 16 kHz pulse signal is applied to the dimmer signal input terminal. Q21 and Q46 operate in the same manner as when the dimmer function is OFF while the 16 kHz pulse signal is "H". Q46 is OFF while the pulse signal is "L", so the collector level of Q21 is "L" regardless of the level of the digit out signal.

Fig. 19 shows a statically driven fluorescent display tube dimmer circuit. A "H" level (+16 V) signal is applied to the dimmer signal input terminal when the dimmer function is OFF and Q28 is OFF; so, the collector level of Q28 is "L" (-14 V). Since Q30 is OFF and its collector level is "H", both the base and emitter of Q29 are "H". A 16 kHz pulse signal is applied to the dimmer signal input terminal when dimmer function is ON. Q28, Q29 and Q30 operate in the same manner as when the dimmer function is OFF when the pulse signal level is "H". When the pulse signal level is "L", Q28 is ON and its collector level is "H", so the base level of Q30 is "H" and Q30 is ON. Therefore, the grid level of the fluorescent display tube is dropped to "L" through D23 since the collector level of Q30 is "L".

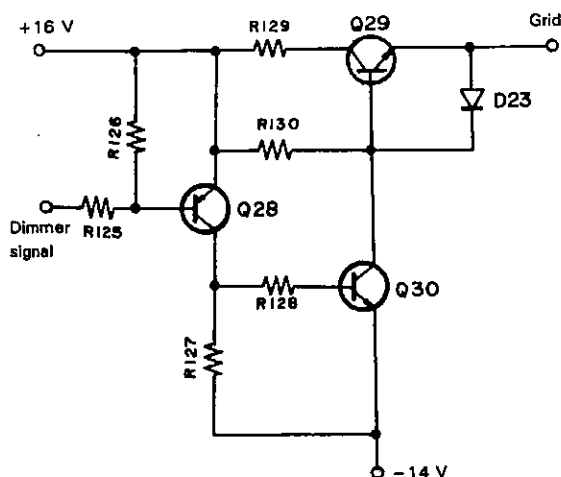


Fig. 19 Static Drive Circuit

5. Automatic Power Meter Range Switching Circuit (X11-1670-10)

The power meter range is switched manually in conventional amplifier systems, but with the KR-1000 it is automatically switched to the range in which the output power is easiest to read. The meter range is automatically changed from X0.1 to X1 when the output power increases to more than 20 W, and it is changed back to X0.1 when the output power is reduced to below 7 W.

In Fig. 20, Q21 and Q22 are emitter followers which prevent the automatic power meter range switching circuit being affecting the amplifier output circuits. The Q21 and Q22 output signals are rectified by the voltage doublers. When there is a difference between the output signal levels of the L and R

channels, the diode in the voltage doubler which is connected to the low level channel (i.e., D13 or D14) is reverse biased and only the voltage doubler which is connected to the high level channel operates to charge C55. The DC voltage across C55 increases the base voltage of Q23 of the Schmitt trigger according to the time constant determined by R108, R109 and C56.

The base voltage of Q23 does not rise to turn it ON when the output power is relatively low. Therefore, the Schmitt trigger output level (at the collector of Q24) is not inverted and is kept at the "L" level. Thus, the collector level of Q25 is "H" and FET switches Q26 and Q27 are ON. The signals from the emitters of Q21 and Q22 pass through Q26 and Q27, then are applied to the fluorescent display tube drive ICs (IC5 and IC6) via the voltage doublers after being divided by the ON resistance (several tens of ohms) and R119 and R120, respectively. The collector level of Q25 is applied to pin 31 of the fluorescent display tube to light the X0.1 indicator on the display.

When the output power is relatively high, Q23 is ON and the Schmitt trigger output level is "H". Thus, the collector level of Q25 is "L" and Q26 and Q27 are OFF. The output signals of Q21 and Q22 are then divided by R117 and R119, and R118 and R120, respectively. Then they are applied to IC5 and IC6 via the voltage doublers. The collector level "L" of Q25 is applied to pin 31 of the fluorescent display tube so the X0.1 indicator goes OFF.

The reason the range switching level is different when the power increases from that when the power decreases is due to the hysteresis characteristics of the Schmitt trigger.

CIRCUIT DESCRIPTION

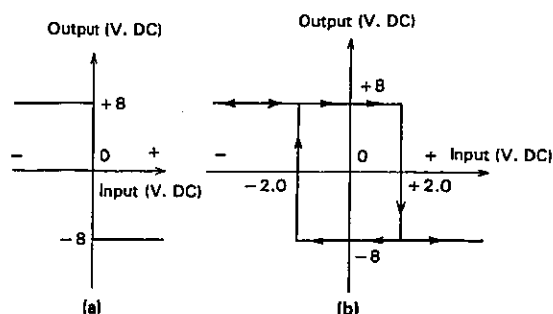


Fig. 22 Input vs. Output

AMP-2 operates as a Schmitt circuit. If the initial AMP-2 output level is -8 V, the voltage at point A (V_A) is given by

$$V_A = \frac{R_{97} \cdot V_o}{R_{97} + R_{99}}$$

where V_o : output voltage

V_A is -2.0 V DC when $V_o = -8$ V, $R_{97} = 51$ k Ω and $R_{99} = 150$ k Ω . At this time, the output level is inverted when the input voltage is lower than -2.0 V DC and it is not inverted when the input level is -2.0 V DC or higher. V_A is 2.0 V DC when the output level is $+8$ V. At this time, the output level is inverted when the input level is higher than 2.0 V DC and it is not inverted when the input level is 2.0 V or lower. Fig. 22 (b) shows the input voltage vs. output voltage characteristic of AMP-2. The input voltage vs. output voltage characteristic of the motor control circuit is shown in Fig. 23.

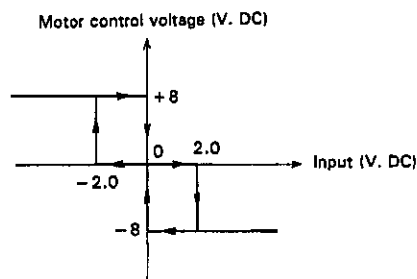


Fig. 23 Input vs. Motor Control Voltage

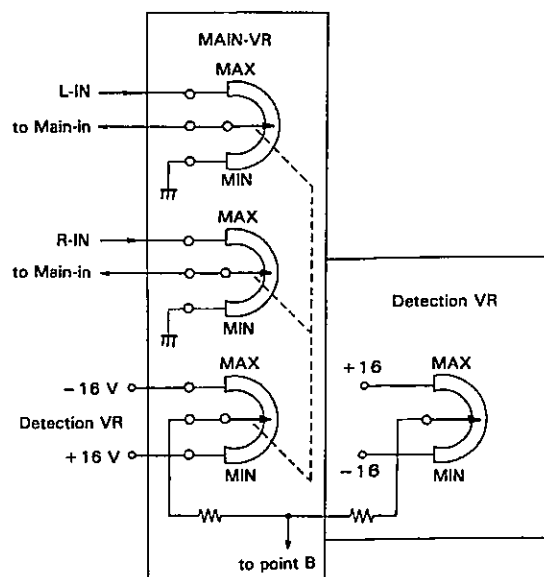


Fig. 24

The MAIN-VR incorporates variable resistors for adjusting the L and R channel volume levels and a variable resistor to detect the MAIN-VR setting position. The latter is called the detection VR. (See Fig. 24) The detection VR slider terminal level is -16 V when the MAIN-VR is set to MAX, and it is $+16$ V when the MAIN-VR is set to MIN. The preset VR slider terminal level is $+16$ V when the preset VR is set to MAX and it is -16 V when it is set to MIN. The voltage at point B is 0 V when the detection VR is set to the same position as the preset VR. It is positive when the detection VR is set to a higher sound level than the preset VR, and vice versa. The motor control voltage becomes -8 V when the voltage at point B is higher than 2.0 V. Therefore, the MAIN-VR is turned by the motor to increase the volume level until the voltage at point B becomes 0 V. The motor control voltage becomes $+8$ V when the voltage at point B is lower than -2.0 V, so the MAIN-VR is turned to lower the volume level until the voltage at point B becomes 0 V.

A "H" level signal is applied to the gate of Q43 when the power is turned ON. Therefore, Q43 goes ON and outputs the motor control signal according to the voltage at point B. Pressing either the MAIN-VR UP, or DOWN switch sets the gate level of Q43 to "L". Thus, Q43 goes OFF and the volume control can be adjusted manually.

CIRCUIT DESCRIPTION

7. Variable Power Supply

The KR-1000 uses analog switches to select input sources. The IC (μ PD4066C) which incorporates analog switches has a maximum power supply voltage rating of just ± 9 V. If the circuit shown in Fig. 25 were used, the input signal would be clipped in the analog switch circuit when the input signal exceeds the power supply voltage. This would prevent sufficient dynamic range from being obtained. (See Fig. 26).

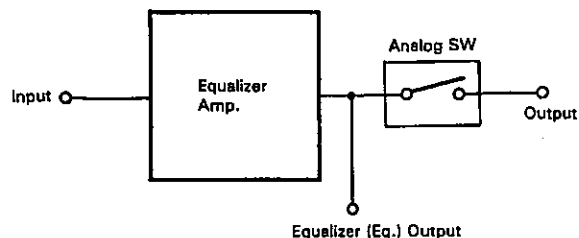


Fig. 25

To avert this, the positive and negative power supply voltages to the analog switches are shifted simultaneously according to the input signal level, as shown in Fig. 27, so that the input source signal is not clipped in the analog switch.

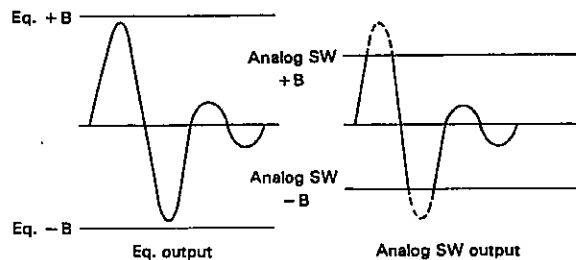


Fig. 26

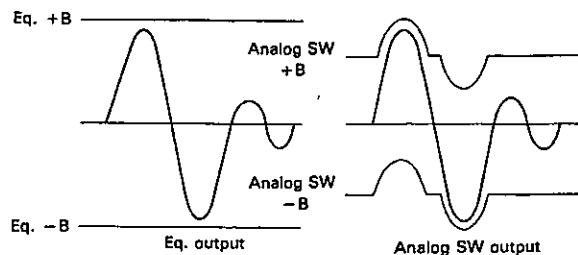


Fig. 27

The principle of the variable power supply is explained with Fig. 28 (a). The circuit is an ordinary feedback type voltage regulator if the part indicated by the dotted line is not included. If the base voltage of Q20 is V_B and the emitter voltage of Q19 is V_E , then when the DC source voltage V is equal to V_B , no current flows through R45 and V_E does not vary. When $V > V_B$, the base current of Q20 increases because of the current through R46. Thus, the collector current of Q20 increases and the collector level drops so that the base voltage of Q19 and V_E drop. When $V < V_B$, current flows into the DC source through R46 and the base current of Q20 decreases, so the collector current decreases and the collector level rises. Thus, the base voltage of Q19 rises and V_E rises.

When the section enclosed in the dotted line is replaced with the AC power source shown in Fig. 28 (b), V_E varies 180 degrees out of phase with E .

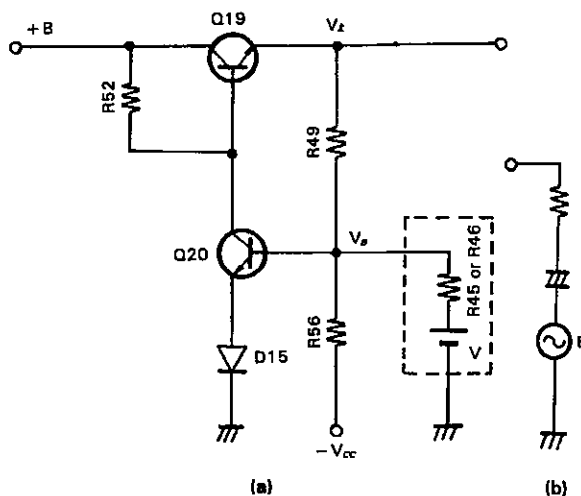


Fig. 28

CIRCUIT DESCRIPTION

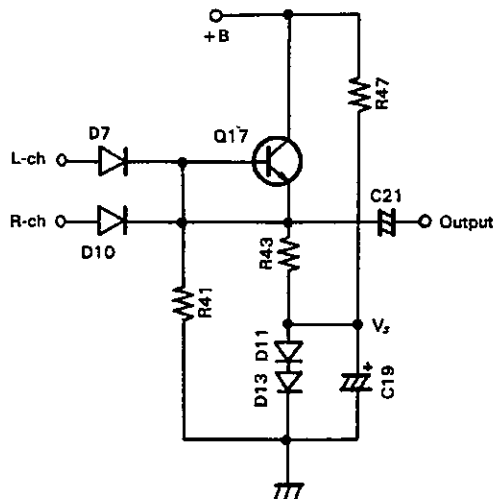


Fig. 29

It is not necessary to shift the power supply voltages when the input signal level is low and it is not clipped in the analog switch. The input signal is sliced by the circuit shown in Fig. 29, 30 so that output is obtained only when the input signal level exceeds a certain level. In Fig. 29, the diode which is connected to the channel whose signal level is higher than that of the other channel is forward biased and turned ON and the other diode is reverse biased and turned OFF. Thus, the higher level signal is applied to the bases of Q17. When no signal is applied, Q17 is OFF and its emitter level is equal to the sum of the ON voltages of D11 and D13. Q17 is turned ON when the voltage applied to its base exceeds V_{BE} (base-emitter voltage of Q17) plus V_z (the emitter voltage of Q17). Thus, Q17 outputs a signal at this time (See Fig. 31). The circuit shown in Fig. 29 slices the positive parts of the input signal and that shown in Fig. 30 slices the negative parts of the input signal. These signals are used to drive the base of Q20 (shown in Fig. 28) so that V_z is shifted according to the input signal level. The negative power supply voltage for the analog switch is generated by Zener diode D17 according to the level of V_z .

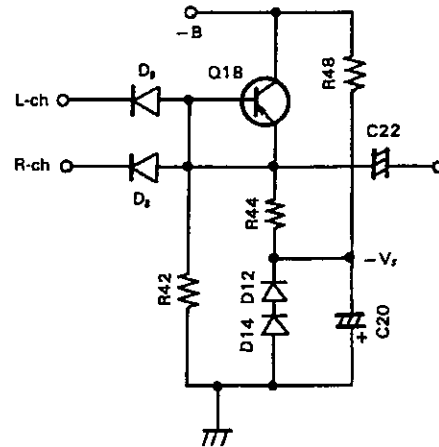


Fig. 30

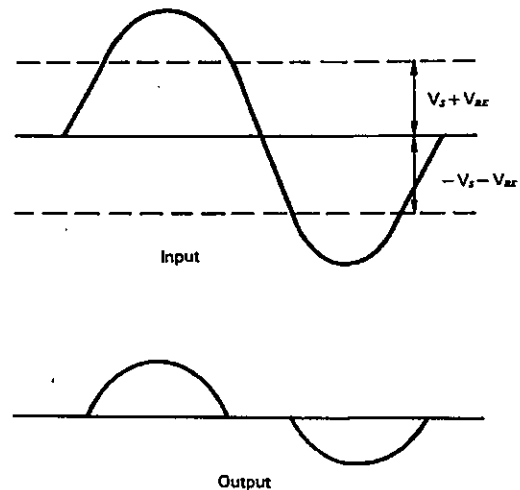


Fig. 31

8. Power Supply System

Fig. 32 shows the power supply system of the KR-1000. Transformer 2 is always supplied with power when the AC plug is inserted into an AC outlet; it supplies power to the microprocessor and synthesizer units. Transistors Q31, Q34, Q35 and Q36 from the +16 V, +11 V, +6 V and -14 V voltage regulators, respectively.

CIRCUIT DESCRIPTION

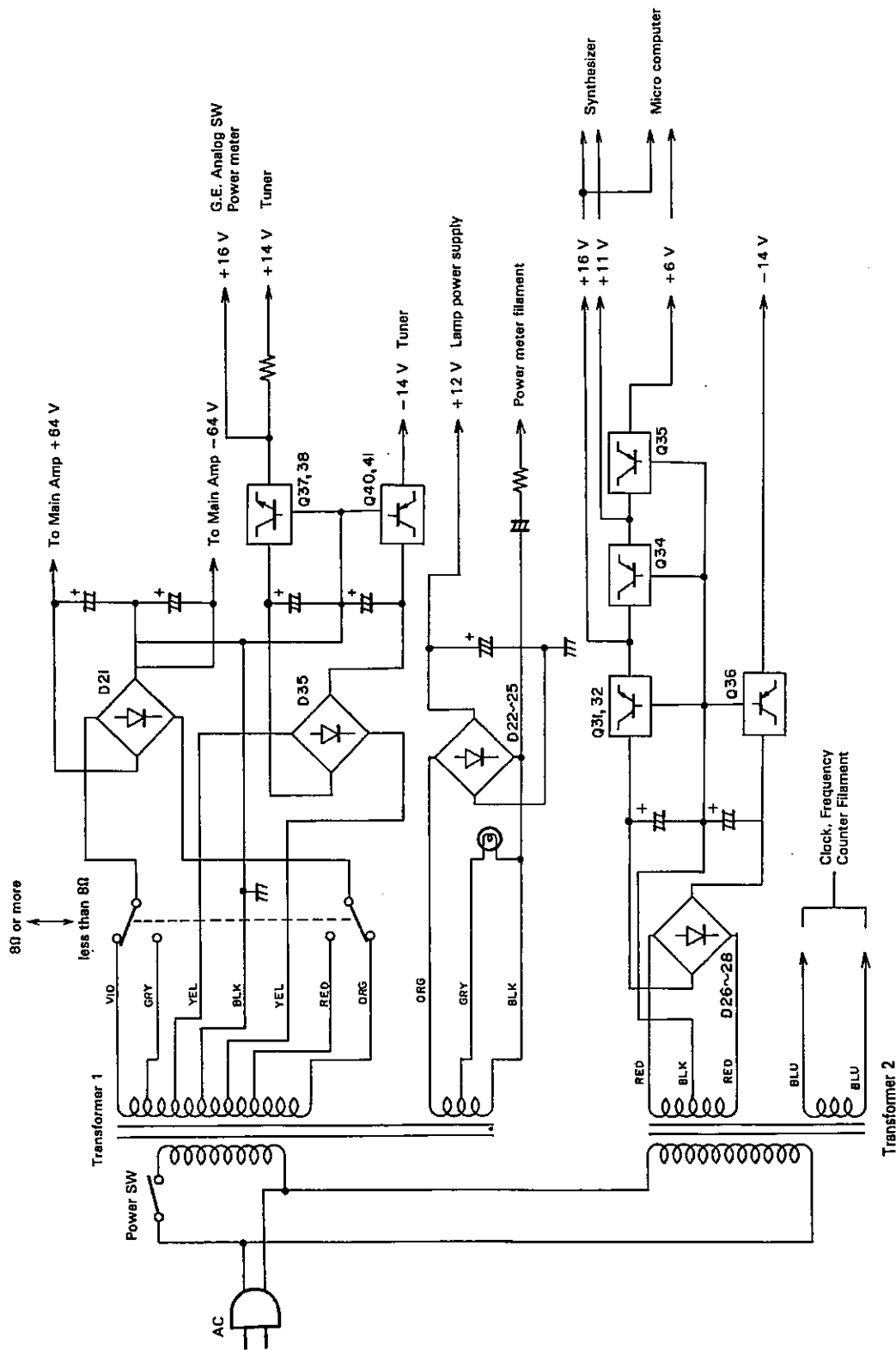


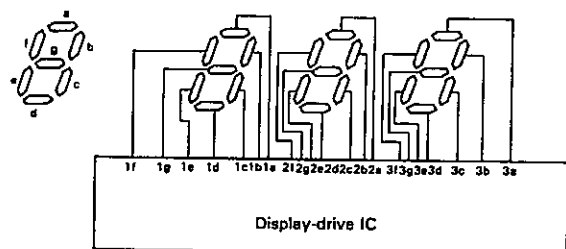
Fig. 32

CIRCUIT DESCRIPTION

7-SEGMENT MULTI-DIGIT INDICATOR DRIVING SYSTEM

There are two types of systems used for driving 7-segment multi-digit indicators and LED's: the static drive system and the dynamic drive system.

In the static drive system, the signal lines are connected to each segment of all the digits and the content of the display does not change with time.



Assuming that each segment lights when its drive IC terminal is in the "H" (on) position, "123" is displayed as:

1a="L",	1b="H",	1c="H",	1d="L",
	1e="L",	1f="L",	1g="L",
2a="H",	2b="H",	2c="L",	2d="H",
	2e="H",	2f="L",	2g="H",
3a="H",	3b="H",	3c="H",	3d="H",
	3e="L",	3f="L",	3g="H",

The output of the drive IC does not change as long as "123" is being displayed.



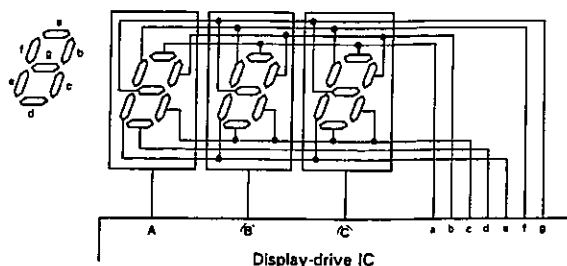
The drive circuit itself is simple in this system, but there must be a 1 : 1 correspondence between drive IC terminals and segments. This means that an increase in the number of digits displayed requires a increase in the number of IC terminals.

This relationship is expressed by $n = 7d + c$
 (where, n: the number of the pins of the drive IC
 d: the number of digits
 c: the number of other IC terminals)

In a 3-digit display, the number of the pins of the drive IC is slightly more than 21, while in a 6-digit display it is 42 or more; this is more than the number of the pins found on an ordinary 40-pin LSI.

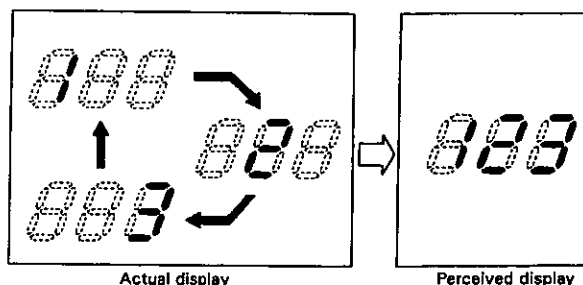
In the dynamic drive system, the segments in the same position in each digit are connected in parallel to the same signal line. Separate signal lines which indicate which digit is to be displayed are connected to each digit; these cause the segment signals to be applied to different digits on an alternating basis.

For example,



If all digit segments light when both the digit terminals (A ~ C) and segment terminals (a-g) of the drive IC are all set "H" (on), "123" would be displayed as follows:

The above outputs will cycle in sequence.



If the frequency with which the outputs are cycled is low, the display digits will appear to flicker; for high frequencies, all digits will appear to be steadily lit. Although the drive circuit is highly sophisticated in this system, use of microcomputers, etc., in the drive IC virtually eliminates any problems.

The relationship between the number of display digits and drive IC terminals is given by $n = 7 + d + c$
 (where, n: the number of the pins of the drive IC
 d: the number of digits
 c: the number of other IC terminals)

In a 3-digit display, the number of the pins of the drive IC may be only slightly more than 10, and in a 6-digit display it may also be only 13, which means a large decrease in the number of the pins compared with the static drive. The two systems explained above are used in various electronic applications depending upon their adaptability.

The static drive is used in applications such as audio timers, etc., which required relatively simple circuits with fewer digits, while the dynamic drive is employed in equipment incorporating microcomputers, such as FM synthesizer tuners.

ADJUSTMENT

NO.	ITEM	SYSTEM CONNECTIONS	TEST EQUIPMENT SETTING	TUNER (RECEIVER) SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG. NO.
FM SECTION							
1	DISCRIMINATOR (1)	(A)/Connect a DC voltmeter between terminals TPA and TPB.	100.1MHz 1kHz $\pm$ 75kHz dev 60dB (ANT input)	FM MONO 100.1MHz WIDE	L1	0 $\pm$ 400mV	(a)
2	DISCRIMINATOR (2)	(A) / (B)	100.1MHz 1kHz $\pm$ 75kHz dev 60dB (ANT input)	FM MONO 100.1MHz WIDE	L2	Minimum distortion	
3	VCO	(A)/Connect a frequency counter to the junction of R31 and VR3 via an AC voltmeter.	100.1MHz 0 dev 100dB (ANT input)	FM STEREO 100.1MHz	VR3	Frequency: 76kHz $\pm$ 200Hz	(b)
VCO: Voltage Controlled Oscillator							
4	SEPARATION (WIDE)	(C) / (B)	100.1MHz 1kHz $\pm$ 68.25kHz dev Selector: L or R Pilot: $\pm$ 6.75kHz dev 60dB (ANT input)	FM STEREO 100.1MHz WIDE	VR5	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
5	PILOT CANCELLER	(C) / (B)	100.1MHz Pilot signal 60dB	FM STEREO 100.1MHz	VR4	Minimum output	
6	DISTORTION (STEREO)	(C) / (B)	100.1MHz 1kHz $\pm$ 68.25kHz dev Selector: L or R Pilot: $\pm$ 6.75kHz dev 60dB (ANT input)	FM STEREO 100.1MHz	T2 (Front end)	Minimum distortion	
AM SECTION Keep the AM loop antenna installed.							
(1)	BAND EDGE (1)	(D)/Connect a DC voltmeter to TP6	1620kHz (1611) 400Hz, 30% mod	AM 1620kHz (1611)	TC1	DC voltage for ground: 8.5V	(c)
(2)	BAND EDGE (2)	(D)/Connect a DC voltmeter to TP6	530kHz (522) 400Hz, 30% mod	AM 530kHz (522)	L6	DC voltage for ground: 1.0V	(e)
(3)	RF ALIGNMENT (AM)	(D) / (B)	630kHz 400Hz, 30% mod	AM 630kHz	L5	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (AM)	(D) / (B)	1440kHz 400Hz, 30% mod	AM 1440kHz	TC2	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							
(5)	IF TRANSFORMER	(D) / (B)	990kHz 400Hz, 30% mod	AM 990kHz	L7	Maximum amplitude and symmetry of the oscilloscope display.	
(6)	AM STOP LEVEL	(D)	990kHz 400Hz, 30% mod 30dB (antenna input)	AM 990kHz SENSI-2	VR6	Adjust so that the tuned lamp just lights.	
(7)	FLUORESCENT DISPLAY TUBE BRIGHTNESS ADJUSTMENT	—	—	—	VR7	Match the brightness of the power meter and the frequency counter.	
AUDIO SECTION							
i	OFFSET (CENTER)	Connect a DC voltmeter between J10 (J11) and the ground	—	PHONO VOLUME 0	VR1 (L ch) (VR2 (R ch)) X00	0V	(d)
ii	IDLE CURRENT (BIAS)	Connect a DC voltmeter between terminals TP12 and TP13 (TP14 and TP15)	—	AUX VOLUME 0	VR1 (L ch) (VR2 (R ch)) X07	40–60mV	(e)
iii	POWER METER	(E) / (F)	1kHz 1V	METER range: $\times$ 0.1 Adjust VOLUME so that AC voltmeter indicates 0.49V	MET.ADJ.LOW VR11 (VR12)	0.03W	
iv	POWER METER	(E) / (F)	1kHz 1V	METER range: $\times$ 0.1 Adjust VOLUME so that AC voltmeter indicates 8.9V	MET.ADJ.HIGH VR13 (VR14)	10W	
Repeat alignments "iii, iv" several times.							

REGLAGES

N°	ITEM	RACCORDEMENTS DU SYSTEME	REGLAGE DE L'APPAREILLAGE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG. N°
SECTION MF							
1	DISCRIMINATEUR (1)	(A)/Connecter un voltmètre CC entre termi- nales TPA et TPB	100,1MHz 1kHz $\pm$ 75kHz dév 60dB (Entrée ANT)	FM 100,1MHz WIDE	L1	0 $\pm$ 400mV	(a)
2	DISCRIMINATEUR (2)	(A) / (B)	100,1MHz 1kHz $\pm$ 75kHz dév 60dB (Entrée ANT)	FM MONO 100,1MHz WIDE	L2	Distortion minimale	
3	OSCILLATEUR CONTROLE PAR LA TENSION	(A)/Connecter un comp- teur de fréquence à la jonction de R31 et VR3 par un voltmètre CA	100,1MHz 0 dév 100dB (Entrée ANT)	FM STEREO 100,0MHz	VR3	Fréquence: 76kHz $\pm$ 200Hz	(b)
4	SEPARATION (WIDE)	(C) / (B)	100,1MHz 1kHz $\pm$ 68,25kHz dév Selection: L ou R Signal pilote: $\pm$ 6,75kHz dév 60dB (Entrée ANT)	FM STEREO 100,1MHz WIDE	VR5	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparations de gau- che à droite et de droite à gauche sont inégales.	
5	CIRCUIT SUPPRESSION DE SIGNAL PILOTE	(C) / (B)	100,1MHz Signal pilote 60dB (Entrée ANT)	FM STEREO 100,1MHz	VR4	Sortie minimale	
6	DISTORSION (STEREO)	(C) / (B)	100,1MHz 1kHz $\pm$ 68,25kHz dév SELECTION L ou R Signal pilote $\pm$ 6,75kHz dév 60dB (Entrée ANT)	FM STEREO 100,1MHz	T2 (Tête H.T.)	Distorsion minimale	
SECTION MA Laisser l'antenne boucle MA installée.							
(1)	ALIGNEMENT H.T. (MA)	(D)/Connecter un voltmètre CC à TP6	1620kHz (1611) 400Hz, 30% mod	AM 1620kHz (1611)	TC1	Tension continue pour terre: 8,5V	(c)
(2)	ALIGNEMENT H.T. (MA)	(D)/Connecter un voltmètre CC à TP6	530kHz (522) 400Hz, 30% mod	AM 530kHz (522)	L6	Tension continue pour terre: 1,0V	(c)
(3)	ALIGNEMENT H.T. (MA)	(D) / (B)	630kHz 400Hz, 30% mod	AM 630kHz	L5	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT H.T. (MA)	(D) / (B)	1440kHz 400Hz, 30% mod	AM 1440kHz	TC2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (3) et (4) plusieurs fois.							
(5)	TRANSFORMATEUR F.I.	(D) / (B)	990kHz 400Hz, 30% mod	AM 990kHz	L7	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(6)	NIVEAU D'ARRET EN AM	(D)	990kHz 400Hz 30% mod 30dB (entrée d'antenne)	AM 990kHz SENSI-2	VR6	Régler de façon que le voyant accordé s'allume.	
(7)	REGLAGE DE BRIL- LANCE DE L'AFFI- CHAGE FLUORESCENT				VR7	Faites coïncider la brillance du compteur de puissance et du fréquence-mètre.	
SECTION AUDIO							
i	DECALAGE (CENTER)	Connecter un voltmètre CC entre J10 (J11) et la terre	—	PHONO VOLUME: 0	VR1 (gauche) (VR2 (droit)) X00	0V	(d)
ii	COURANT DE POLARISATION (BIAS)	Connecter un voltmètre CC entre terminales TP12 et TP13 (TP14 et TP15)	—	AUX VOLUME: 0	VR1 (gauche) (VR2 (droit)) X07	40 - 60mV	(e)
iii	POWER METRE	(E) / (F)	1kHz 1V	Régler le VOLUME en sorte que le VU-mètre indique 3W lorsque le voltmètre indique 0,49V	MET ADJ LOW VR11 (VR12)	0,03W	
iv	POWER METRE	(E) / (F)	1kHz 1V	Régler le VOLUME en sorte que le VU-mètre indique 3W lorsque le voltmètre indique 8,9V	MET ADJ HIGH VR13 (VR14)	10W	
Répéter les points iii et iv plusieurs fois.							

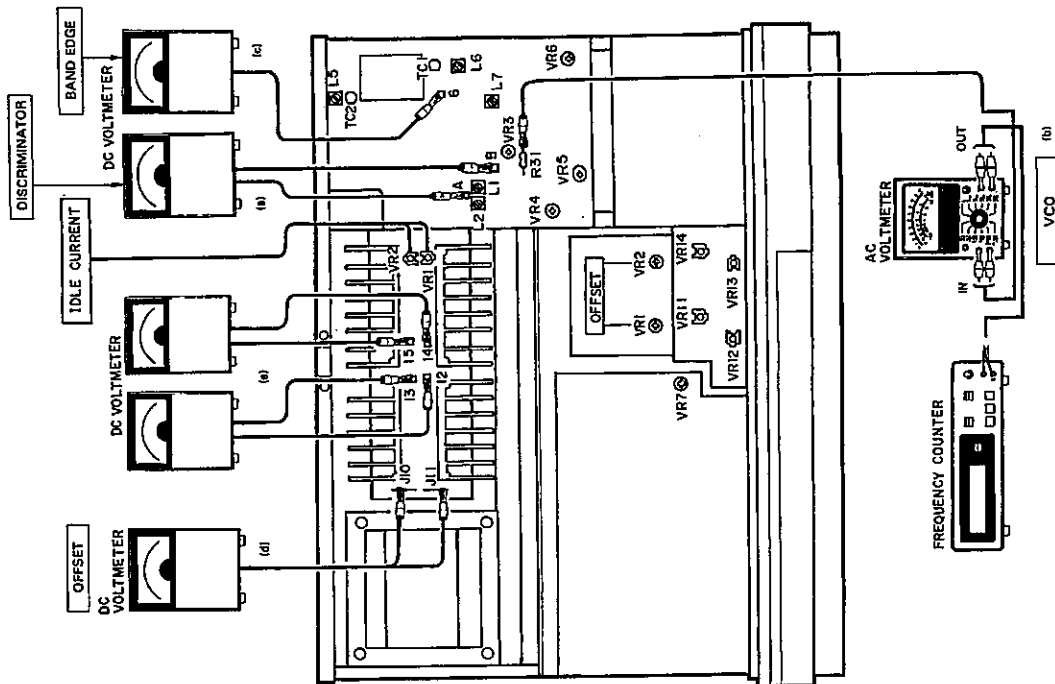
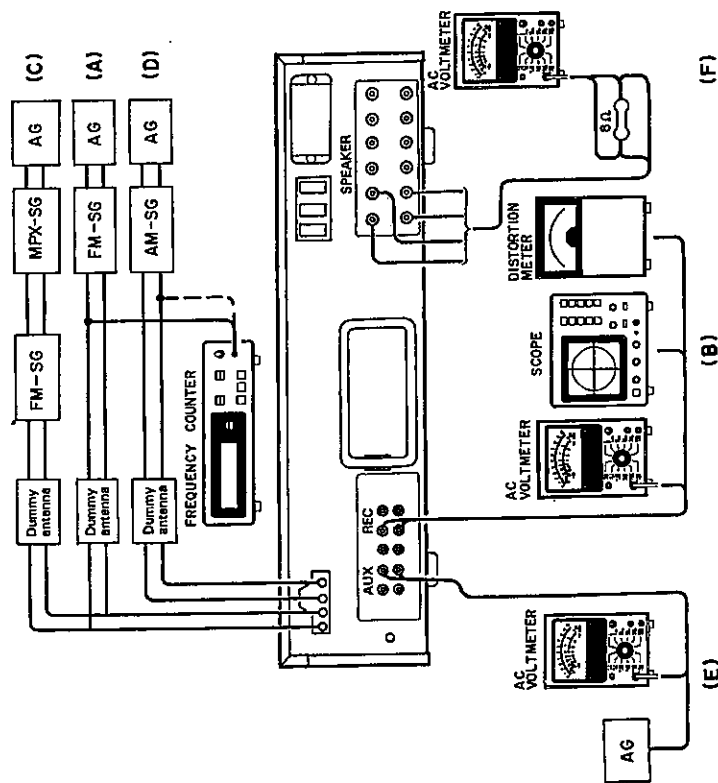
ABGLEICH

NR.	GEGENSTAND	SYSTEM-ANSCHLÜSSE	PRÜFENRICHTUNG-EINSTELLUNG	TUNER (RECEIVER)-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB. NR.
UKW-ABTEILUNG							
1	DISKRIMINATOR (1)	(A)/Einen Gleichspannungsmesser zwischen Klemmen TPA und TPB.	100.1MHz 1kHz $\pm$ 75kHz Hub 60dB (ANT-Eingang)	FM MONO 100.1MHz WIDE	L1	0 $\pm$ 400mV	(a)
2	DISKRIMINATOR (2)	(A) / (B)	100.1MHz 1kHz $\pm$ 75kHz Hub 60dB (ANT-Eingang)	FM MONO 100.1MHz WIDE	L2	Minimaler Klirrfaktor	
3	SPANNUNGS-GEREGELTER OSZILLATOR	(A)/Einen Frequenzmesser zur Verbindung von R31 und VR3 über einem Wechselspannungsmesser anschließen.	100.1MHz 0 Hub 100dB (ANT-Eingang)	FM MONO 100.1MHz	VR3	Frequenz: 76kHz $\pm$ 200Hz	(b)
4	STEREO KANAL TRENNUNG (WIDE)	(C) / (B)	100.1MHz 1kHz $\pm$ 68,25kHz Hub Wähler: L oder R Plotton: $\pm$ 6,75kHz Hub 60dB (ANT-Eingang)	FM STEREO 100.1MHz WIDE	VR5	Minimales Übersprechen. Eine Ausgleichregelung kann notwendig sein, falls links-zu-rechts und rechts-zu-links Trennungen ungleich sind.	
5	PILOT-LÖSCHER	(C) / (B)	100.1MHz Pilotsignal 60dB	FM STEREO 100.1MHz	VR4	Minimaler Ausgang	
6	KLIRRFAKTOR (STEREO)	(C) / (B)	100.1MHz 1kHz $\pm$ 68,25kHz Hub Wähler: L oder R Plotton: $\pm$ 6,75kHz Hub 60dB (ANT-Eingang)	FM STEREO 100.1MHz	T2 (Frontende)	Minimaler Klirrfaktor	
MW-ABTEILUNG Die MW-Rahmenangehen angebracht lassen.							
(1)	HF-ABGLEICH (MW)	(D)/Einen Gleichspannungsmesser zu TP6	1620kHz (1611) 400Hz, 30% mod	AM 1620kHz (1611)	TC1	Gleichspannung für Erde: 8.5V	(c)
(2)	HF-ABGLEICH (MW)	(D)/Einen Gleichspannungsmesser zu TP6	530kHz (522) 400Hz 30% mod	AM 530kHz (522)	L6	Gleichspannung für Erde: 1.0V	(c)
(3)	HF-ABGLEICH (MW)	(D) / (B)	530kHz 400Hz 30% mod	AM 630kHz	L5	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (MW)	(D) / (B)	1440kHz 400Hz, 30% mod	AM 1440kHz	TC2	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
(5)	ZF-ÜBERTRAGER	(D) / (B)	990kHz 400Hz, 30% mod	AM 990kHz	L7	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(6)	AM-SPERRSCHWELLE	(D)	990kHz, 400Hz 30% mod 30dB (Antenneneingang)	AM 990kHz SENSI-2	VR6	So einstellen, daß die abgestimmte Anzeigelampe gerade aufleuchtet.	
(7)	HELLIGKEIT-EINSTELLUNG DER FLUORESCENZ-ANZEIGE				VR7	Die Helligkeit des Leistungsmeters und des Frequenzzählers aufeinander abstimmen.	
AUDIO-ABTEILUNG							
i	VERSCHIEBUNG (CENTER)	Einen Gleichspannungsmesser zwischen Klemme J10 (J11) und der Erde.	—	PHONO VOLUME: 0	VR1 (linken Kanal) VR2 (rechten Kanal)	0V	(d)
ii	LEERLAUFSTROM (BIAS)	Einen Gleichspannungsmesser zwischen Klemmen TP12 und TP13 (TP14 und TP15)	—	AUX VOLUME: 0	VR1 (linken Kanal) VR2 (rechten Kanal)	40 ~ 60mV	(e)
iii	LEISTUNGS-MESSER	(E) / (F)	1kHz 1V	Den VOLUMEN so regulieren, daß die Gleichspannungsmesser Ablesung 0.49V ist.	MET ADJ LOW VR11 (VR12)	0.03W	
iv	LEISTUNGS-MESSER	(E) / (F)	1kHz 1V	Den VOLUMEN so regulieren, daß die Gleichspannungsmesser Ablesung 8.9V ist.	MET ADJ LOW VR13 (VR14)	10W	
Abstimmungen "iii und iv" mehrere Male wiederholen.							

ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT/REGLAGES/ABGLEICH

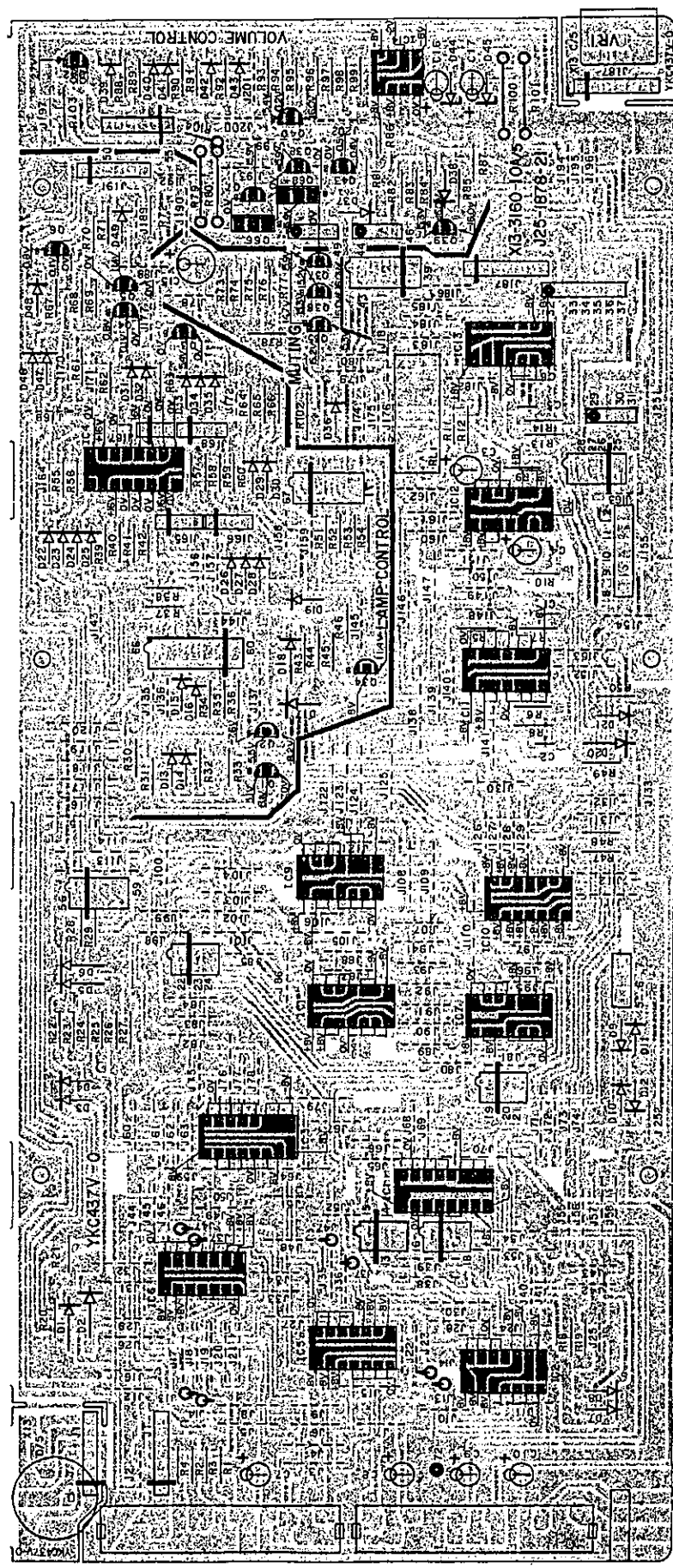
TEST INSTRUMENT	APPAREILLAGE	PRÜFINSTRUMENTE
Oscilloscope	Oscilloscope	Oszilloskop
AM signal generator	Générateur MA	MW-Signalgenerator
FM signal generator	Générateur MF	UKW-Signalgenerator
Audio generator	Générateur audio fréquences	NF-Signalgenerator
AC voltmeter	Voltmètre CA	Wechselspannungsmesser
FM multiplex generator	Générateur multiplex stéréo	UKW-Multiplexgenerator
Frequency counter	Fréquencezähler	Frequenzzähler
DC voltmeter	Voltmètre CC	Gleichspannungsmesser
Distortion meter	Distorsionmètre	Klirrfaktormesser
Dummy antenna	Antenne fictive	Antennennachbildung



KA-1000/B KR-1000/B

PC BOARD

SWITCH (X13-3160-10) Foil side view

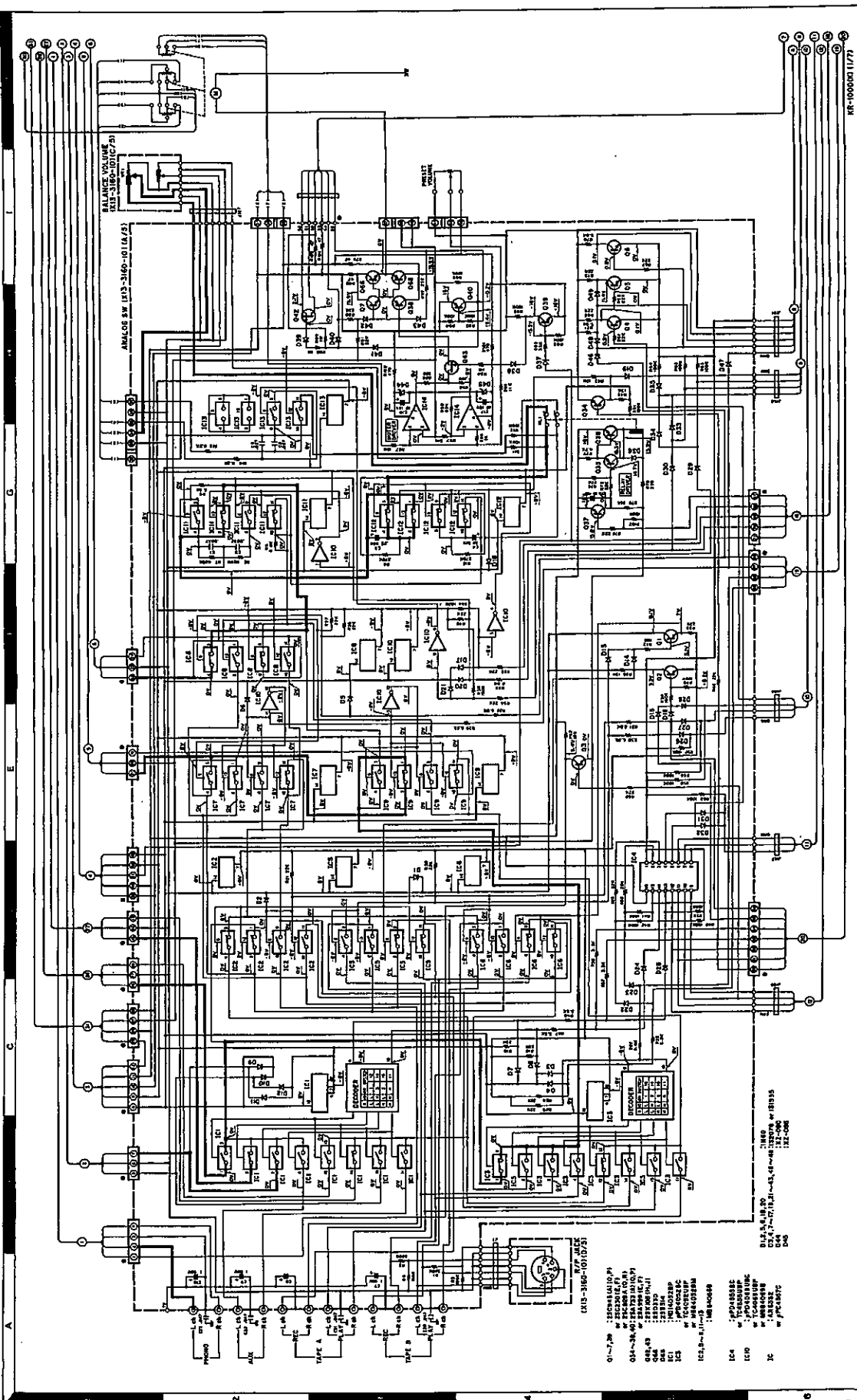


Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

KR-1000/B

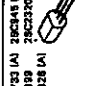
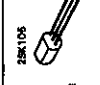
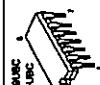
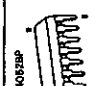
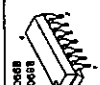
AM-FM STEREO RECEIVER

KENWOOD



8-1000 (11/77)

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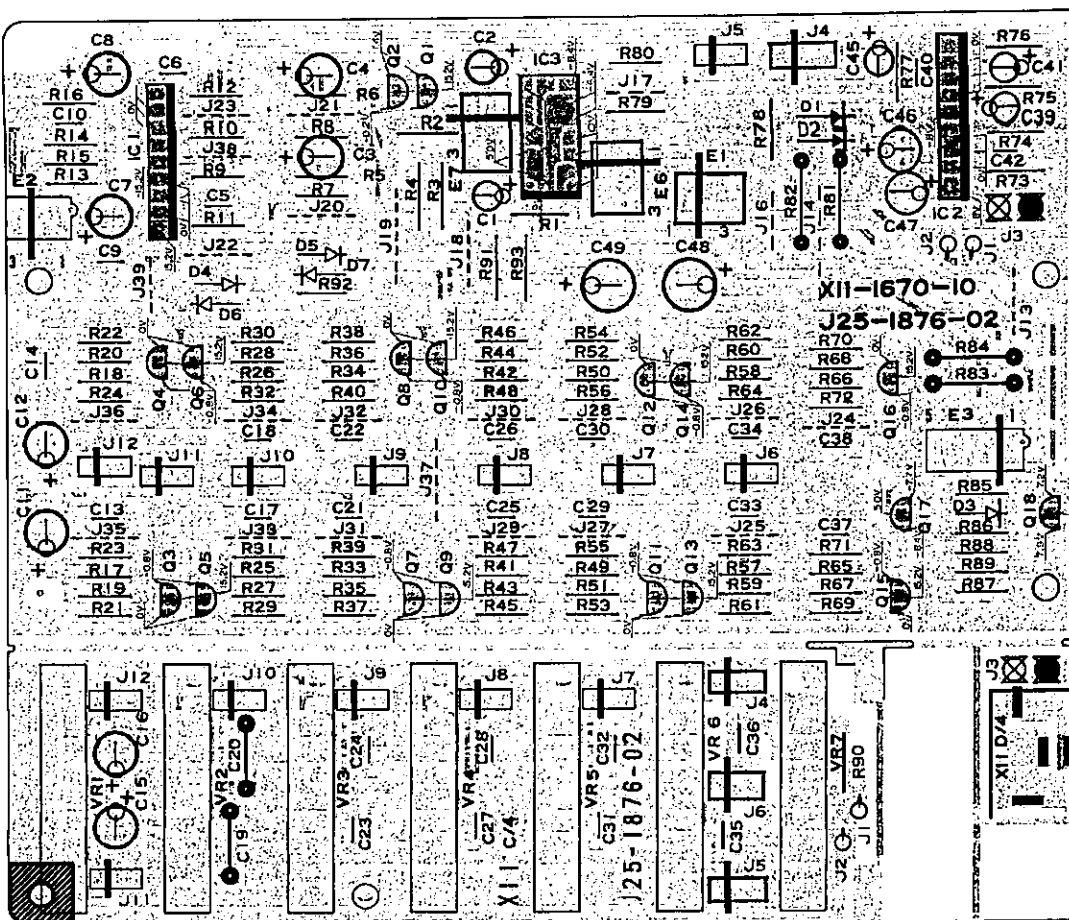
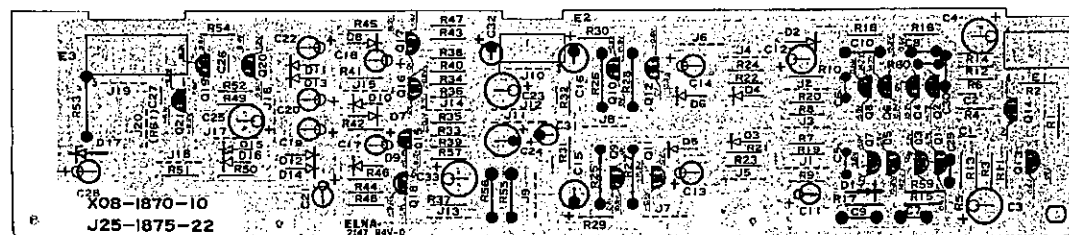


KR-1000/B KR-1000/B

PC BOARD

PC BOARD

PRE AMP (X08-1870-10) Component side view

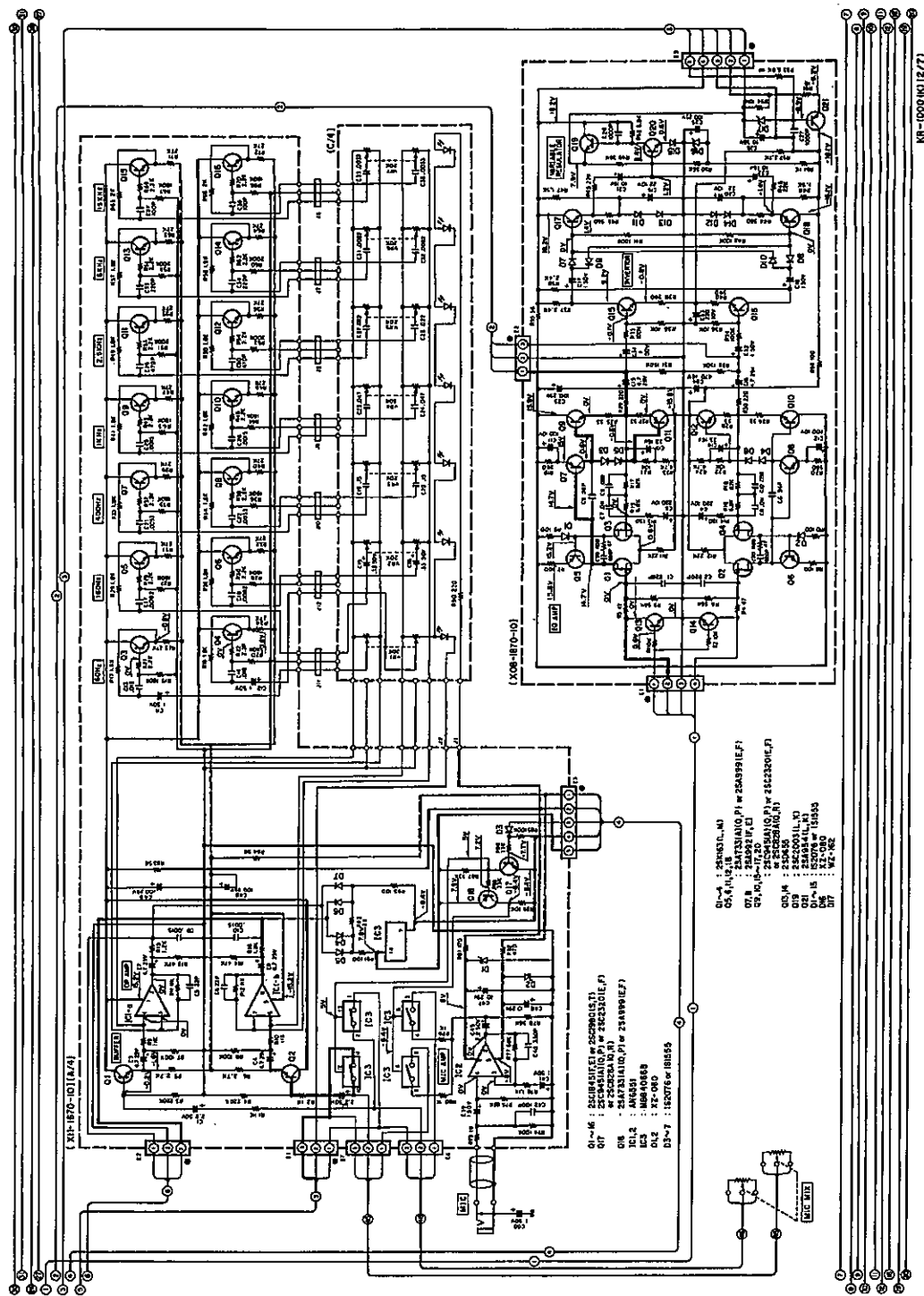


Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

KR-1000/B

AM-FM STEREO RECEIVER

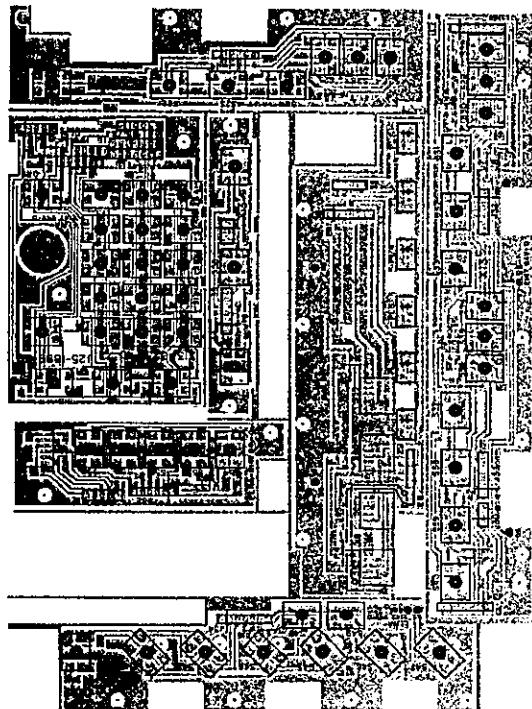
KENWOOD



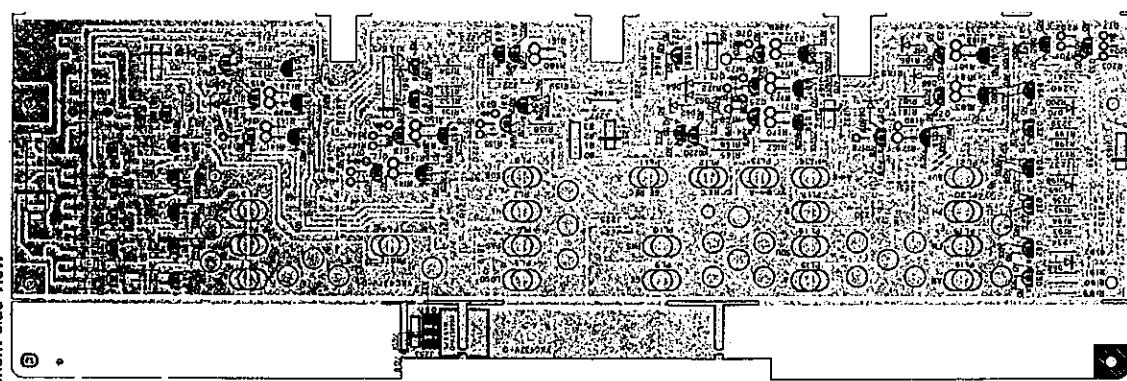
KR-1000/B KR-1000/B

PC BOARD

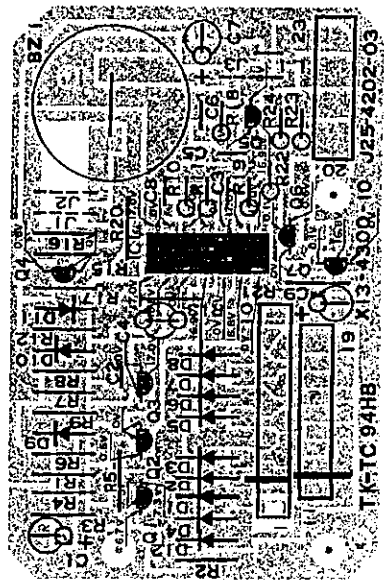
PUSH BUTTON (X13-3230-10) Foil side view



SWITCH (X13-3160-10) Component side view



BUZZER (X13-4300-10) Component side view



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

AM-FM STEREO RECEIVER



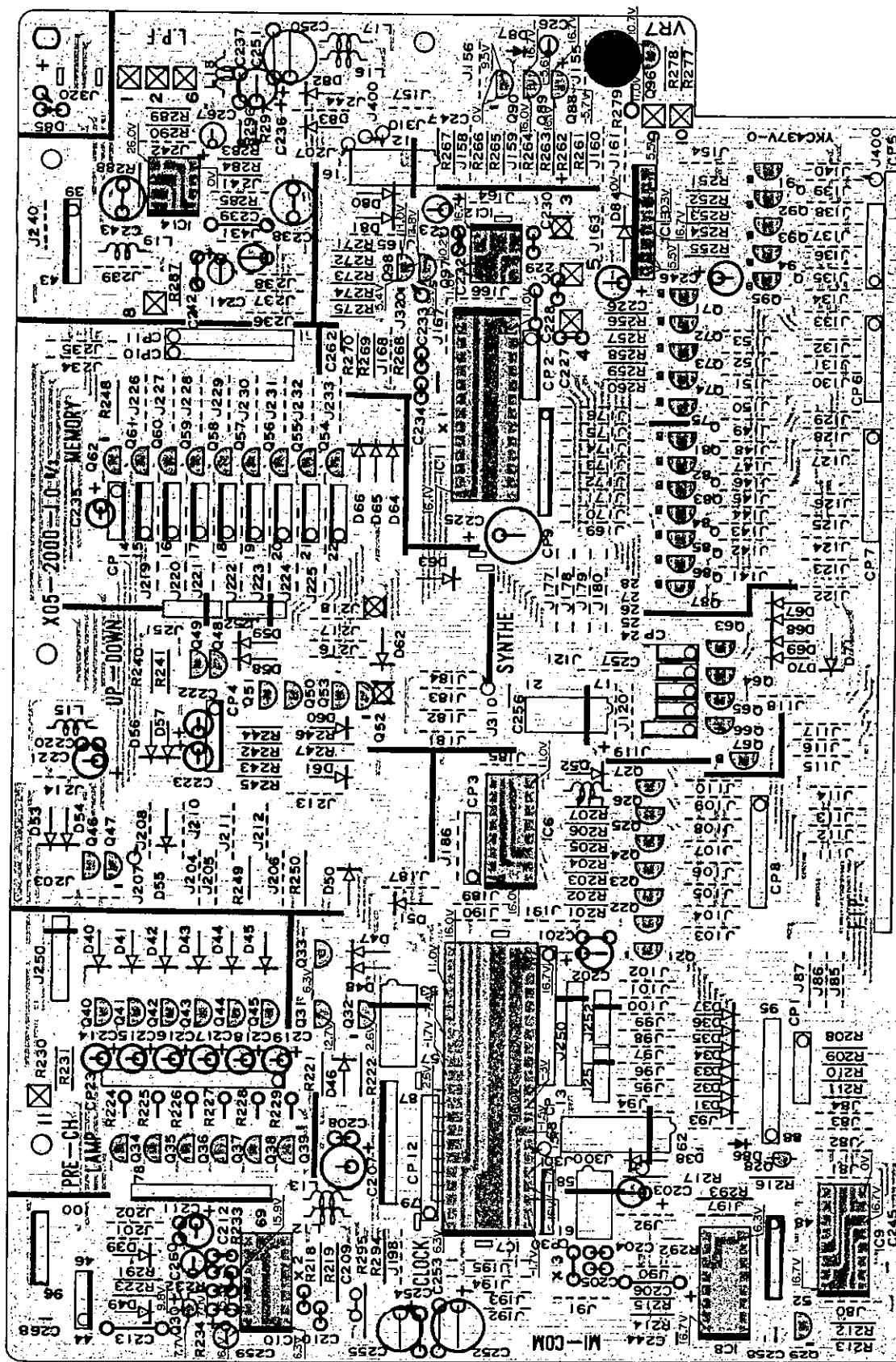
AM-FM STEREO RECEIVER



KR-1000/B KR-1000/B

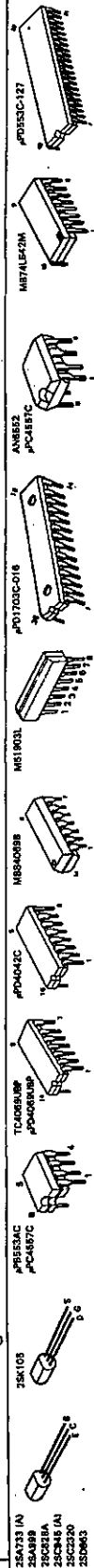
PC BOARD

TUNER (X05-2000-10) Component side view



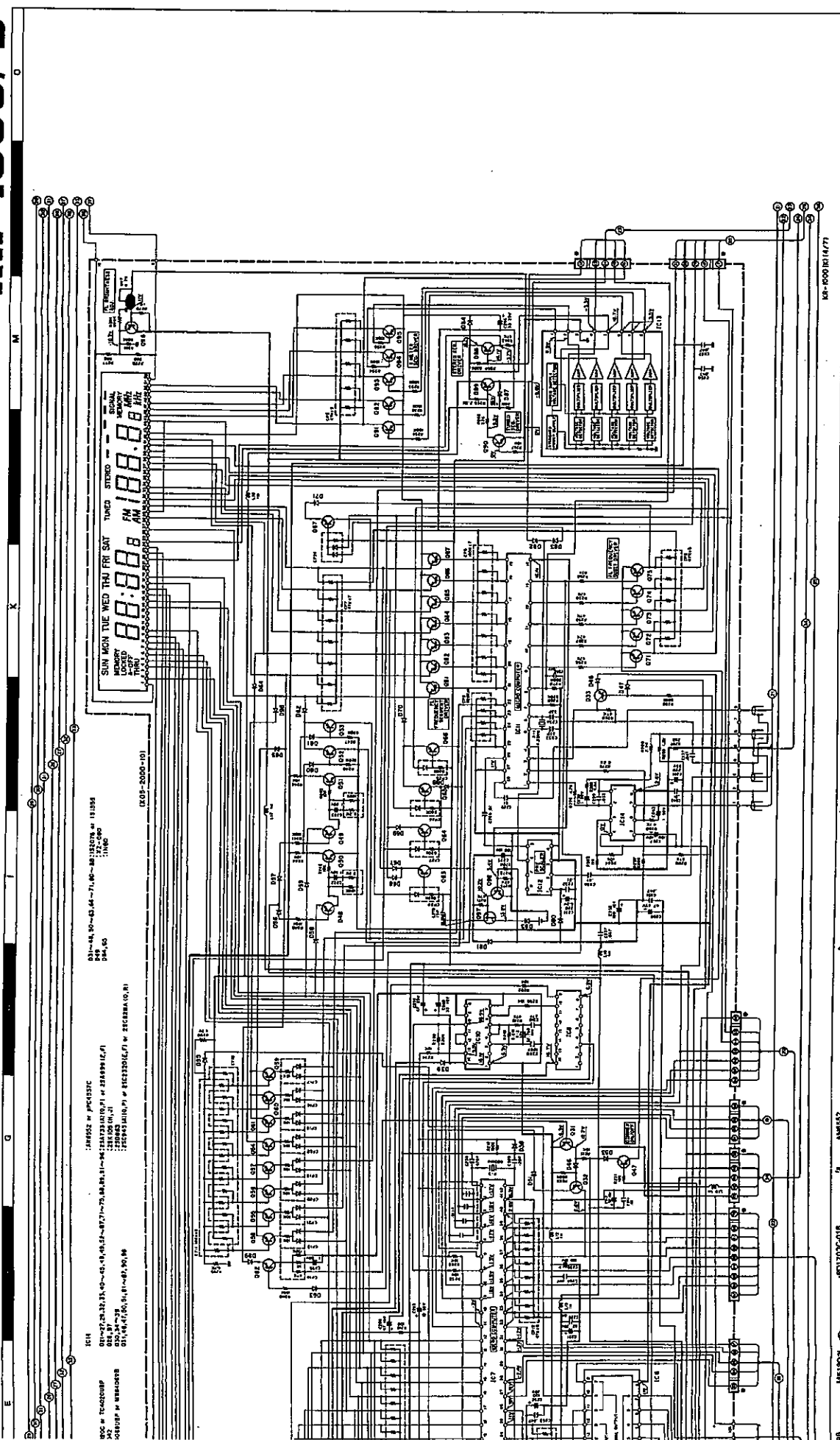
Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

AM-FM STEREO RECEIVER



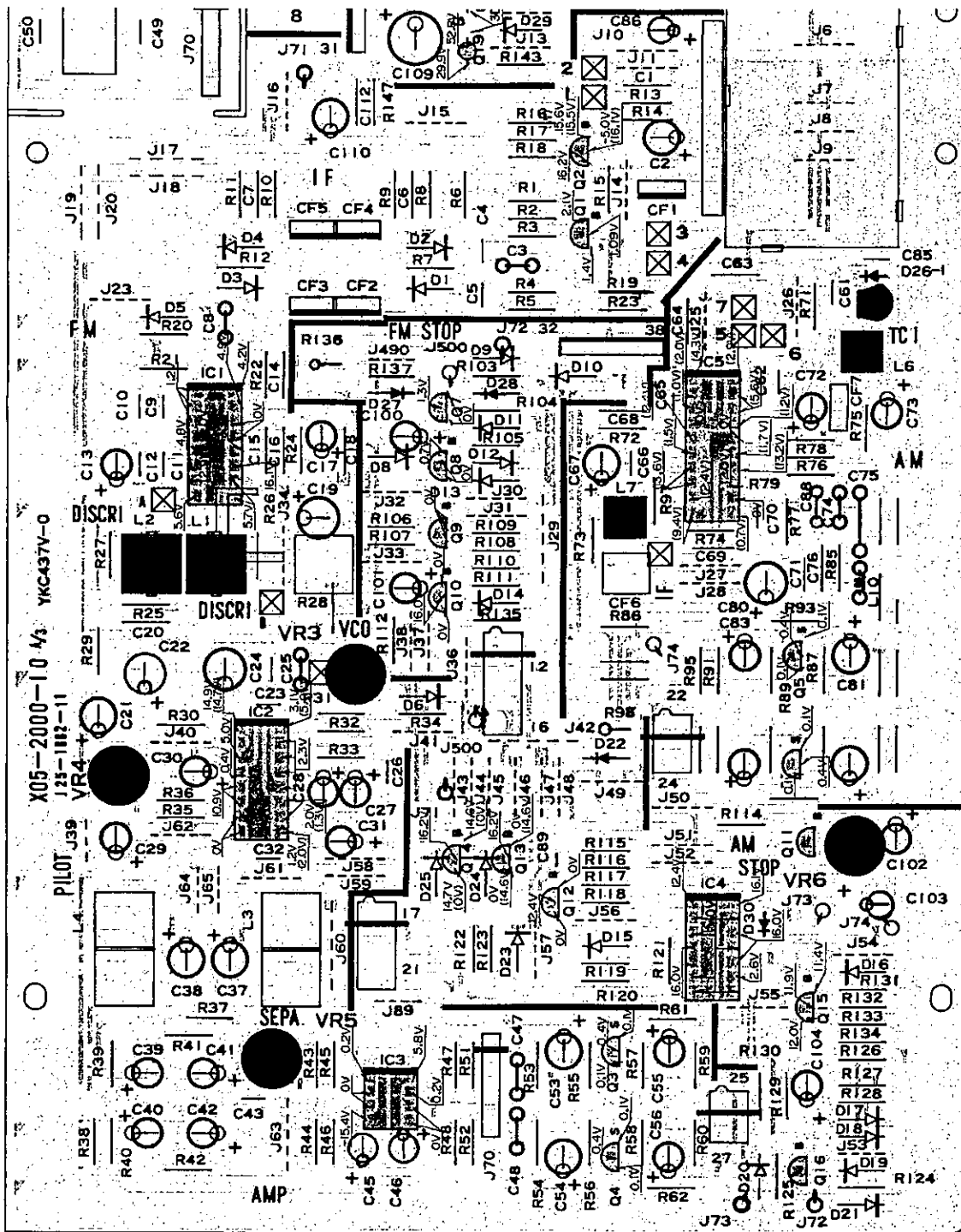
KR-1000/B

AM-FM STEREO RECEIVER



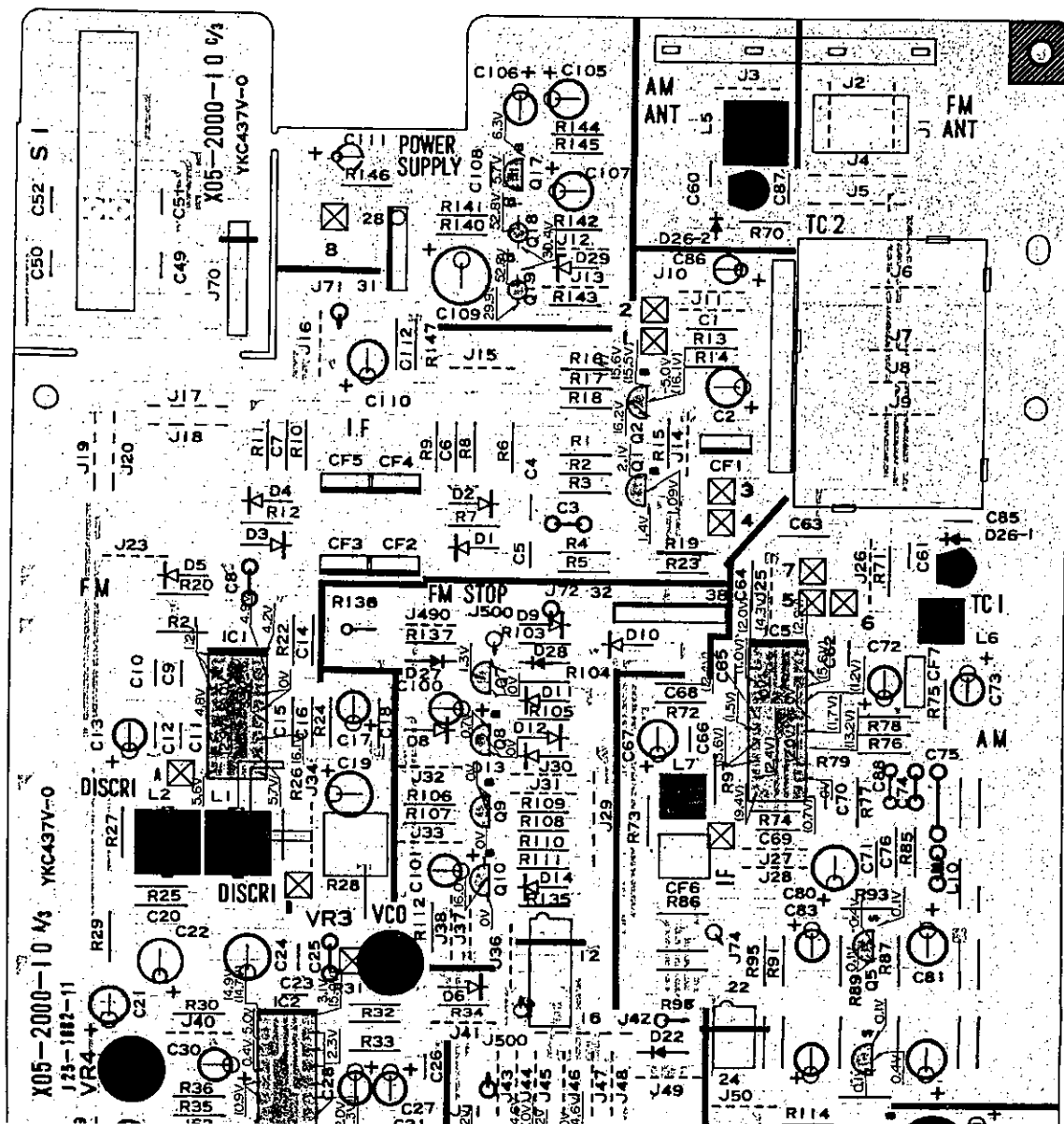
PC BOARD

TUNER (X05-2000-10) Component side view



KR-1000/B KR-1000/B

PC BOARD

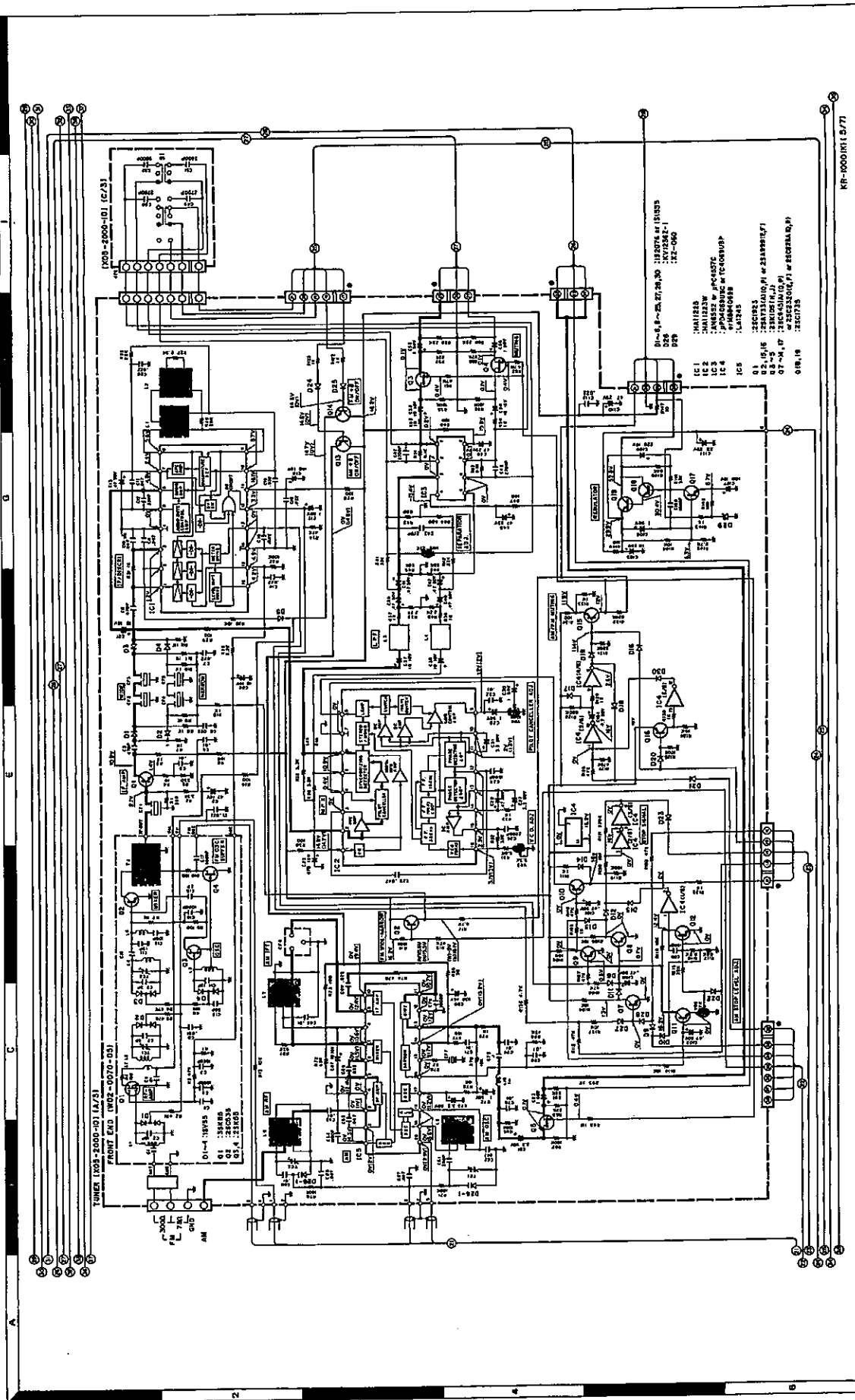


Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

KR-1000/B

AM-FM STEREO RECEIVER

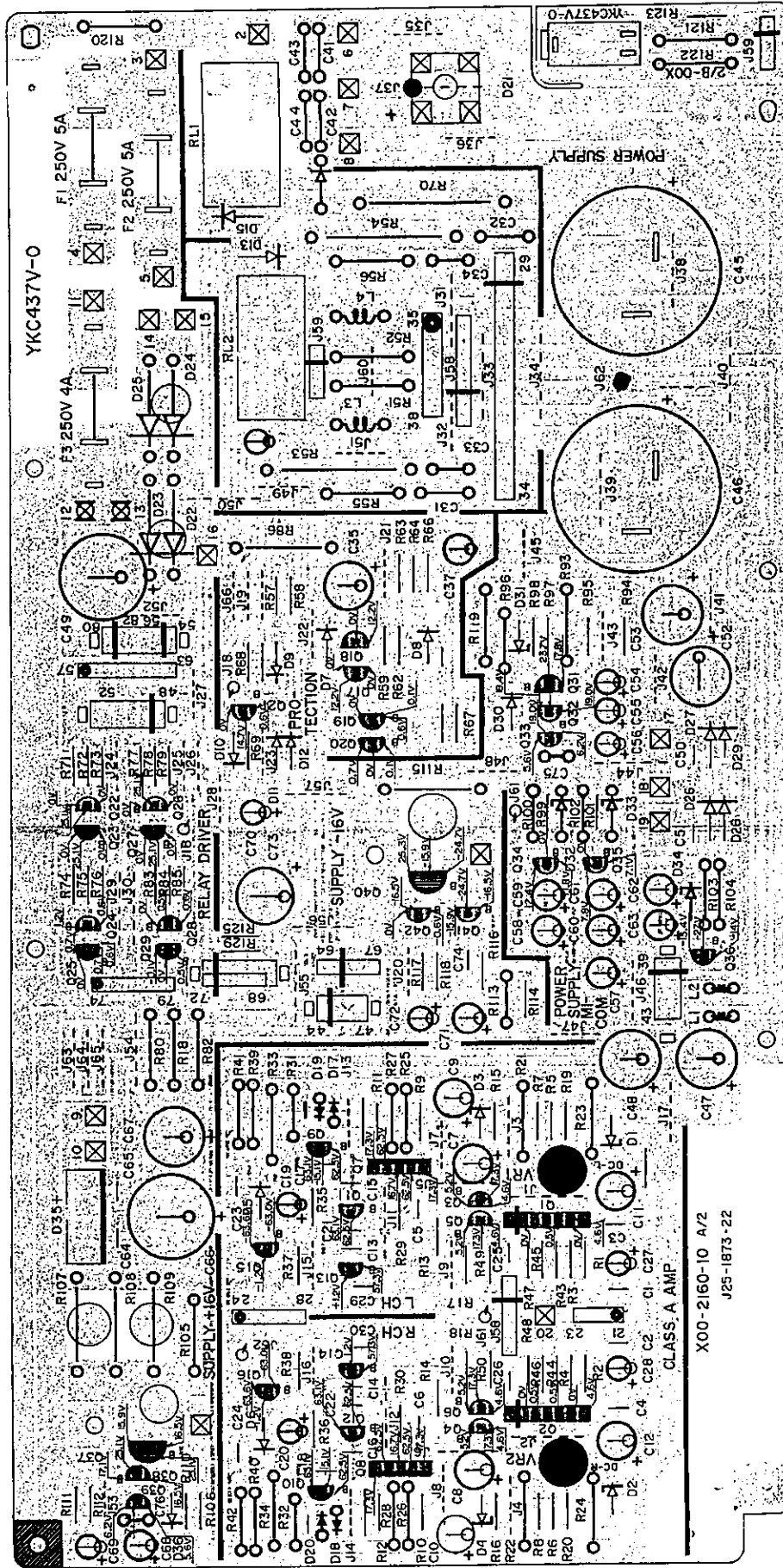
KENWOOD



KR-1000/B KR-1000/B

PC BOARD

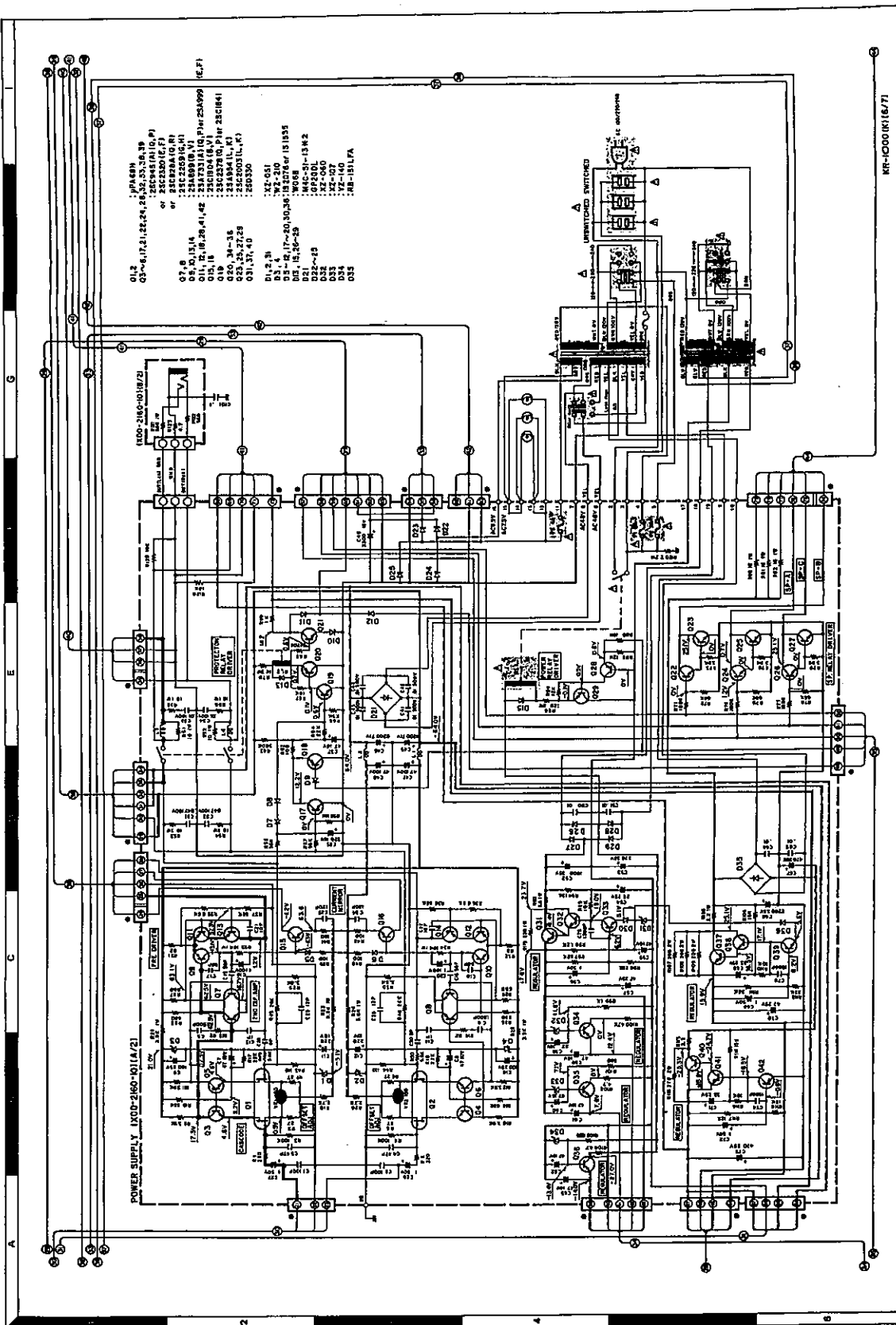
POWER SUPPLY (X00-2160-10) Foil side view



KR-1000/B

AM-FM STEREO RECEIVER

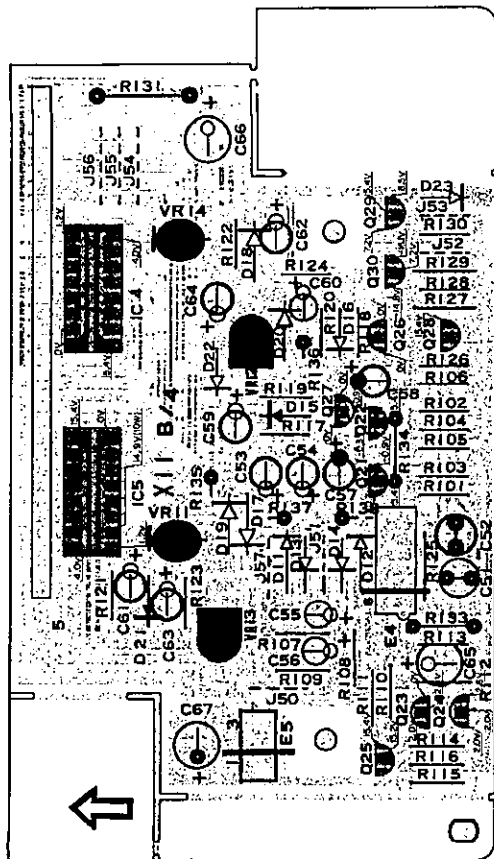
KENWOOD



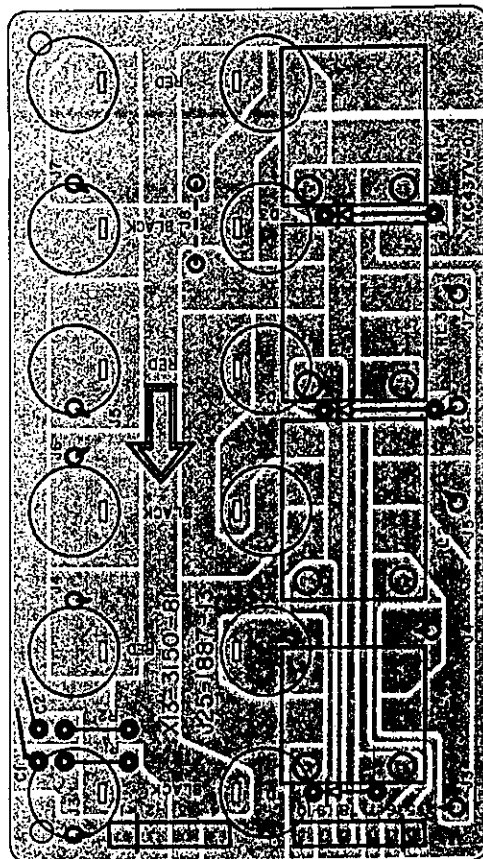
KR-1000/B KR-1000/B

PC BOARD

TONE AMP (X11-1670-10) Component side view

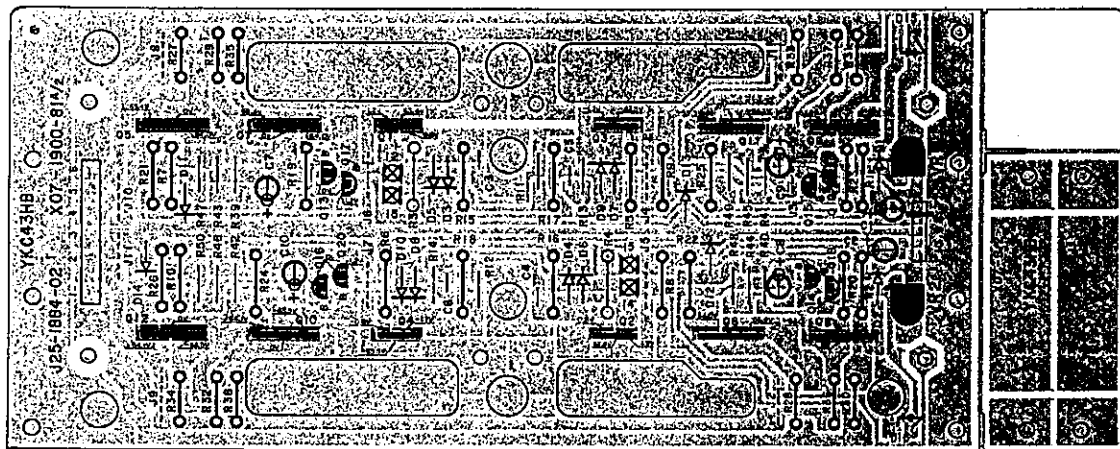


SPEAKER (X13-3150-10) Foil side view

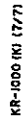


Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

MAIN AMP (X07-1900-10) Foil side view



AM-FM STEREO RECEIVER



AM-FM STEREO RECEIVER

KR-1000/B



SPECIFICATIONS

AUDIO SECTION

Power Output
120 watts* per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.01% total harmonic distortion.

Total Harmonic Distortion (20 Hz to 20,000 Hz from TAPE)
1 watt power into 8 ohms 0.01%
1 watt power into 8 ohms 0.005%
Intermodulation Distortion (60 Hz : 7 kHz = 4 : 1 SMPTE)
1 watt power into 8 ohms 0.005%
Skew Time 1.5 sec
Rise Time 1.2 sec
Damping Factor 75
At 1 kHz into 8 ohms
Frequency Response 20 Hz to 20,000 Hz ±0.5 dB
TAPE AUX 150 mV/50k ohms
TAPE REC 2.5 mV/50k ohms

Signal to Noise Ratio (A weighted)
PHONO 82 dB for 2.5 mV input
TAPE 82 dB for 2.5 mV input
TAPE AUX 100 dB for 150 mV input
MIC 72 dB for 2.5 mV input
Maximum PHONO Input Level 150 mV rms, THD 0.03%
PHONO RIAA Standard Curve
TAPE AUX 20 Hz to 20,000 Hz ±0.3 dB
TAPE REC 3 Hz to 270,000 Hz -3 dB
TAPE REC 10 Hz to 20,000 Hz ±0.3 dB
TAPE REC 1 kHz, 2.5 kHz, 8 kHz and 15 kHz
Loadings 100 ohms at 100 Hz
18 Hz to 100 Hz
5 kHz to 100 kHz
TAPE REC 150 mV/11 ohms (DIN)
30 mV/80k ohms

*Measured pursuant to Federal Trade Commission's Trade Regulation Rule on Power Output Claims for Amplifier in U.S.A.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **Δ** Indicates safety critical components. To reduce the risk of electric shock, leakage current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments and/or units.

Les tensions c.c. doivent être mesurées avec un volt-mètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

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

FM TUNER SECTION

Usable Sensitivity 10.3 dBf/11.6 μV
50 dB Quieting Sensitivity 16.1 dBf/13.5 μV
Mono 18.1 dBf/15.5 μV
Stereo 35.6 dBf/13.5 μV
Signal to Noise Ratio at 65 dBf 76 dB
Mono 70 dB
Stereo 70 dB
Total Harmonic Distortion at 1,000 Hz (wdr) 0.00%
Mono 0.01%
Stereo 0.01%
Frequency Response 30 Hz to 16,000 Hz ±0.5 dB
Capture Ratio 10 dB
Image Rejection Ratio 90 dB (18 MHz)
Spurious Response Ratio 90 dB (18 MHz)
IF Response Ratio 100 dB (98 MHz)
Alternate Channel Selectivity 30 dB at 300 kHz
WIDE
30 dB at 300 kHz
NARROW
60 dB at 300 kHz
60 dB
Stereo Separation Ratio (wdr) 30 dB
At 1,000 Hz
At 50 Hz to 10,000 Hz 37 dB
Subcarrier Product Ratio 85 dB
Antenna Impedance 300 ohms balanced and 75 ohms unbalanced
88 MHz to 108 MHz

AM TUNER SECTION

Usable Sensitivity 14 μV
Signal to Noise Ratio 50 dB
Image Rejection 40 dB
Selectivity 45 dB
Power Consumption 700 watts at full power
120 watts at no signal
4.1 watts at power switch off
Switched 2, Unswitched 1
W 550 mm (21 3/4")
H 155 mm (6 1/8")
D 443 mm (17 3/8")
Net Weight 19.1 kg (42.5 lb)
Gross Weight 18.5 kg (40.8 lb)

GENERAL

AC Outlet Dimensions
Net Weight
Gross Weight

FM TUNER SECTION

Usable Sensitivity 14 μV
Signal to Noise Ratio 50 dB
Image Rejection 40 dB
Selectivity 45 dB
Power Consumption 700 watts at full power
120 watts at no signal
4.1 watts at power switch off
Switched 2, Unswitched 1
W 550 mm (21 3/4")
H 155 mm (6 1/8")
D 443 mm (17 3/8")
Net Weight 19.1 kg (42.5 lb)
Gross Weight 18.5 kg (40.8 lb)

AM TUNER SECTION

Usable Sensitivity 14 μV
Signal to Noise Ratio 50 dB
Image Rejection 40 dB
Selectivity 45 dB
Power Consumption 700 watts at full power
120 watts at no signal
4.1 watts at power switch off
Switched 2, Unswitched 1
W 550 mm (21 3/4")
H 155 mm (6 1/8")
D 443 mm (17 3/8")
Net Weight 19.1 kg (42.5 lb)
Gross Weight 18.5 kg (40.8 lb)

GENERAL

AC Outlet Dimensions
Net Weight
Gross Weight

Kennwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.
Kennwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.
Kennwood minor jährlige Verbesserungen in der Entwicklung an. Deshalb können die technischen Daten jederzeit verändert werden.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les pièces sans numéro de pièce ne sont pas fournies.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向地
KR-1000/B				
36	1B	A01-0410-01	METALLIC CABINET	KNUH
37	3A	A20-1830-11	PANEL (KR-1000)	UEB
37	3A	A20-1830-11	PANEL (KR-1000)	KNUH
37	3A	A20-3559-01	PANEL (KR-1000B)	UEB
37	3A	A20-3559-01	PANEL (KR-1000B)	KNUH
38	1B	A50-0093-22	SLIDE PLATE (L)	UEB
39	2D	A50-0094-22	SLIDE PLATE (R)	UEB
40	1A	A52-0040-02	TOP PLATE	UEB
41	3A	B01-0191-03	PANEL ESCUTCHEON ASSY (KR1000)	KNUH
41	3A	B01-0191-03	PANEL ESCUTCHEON ASSY (KR1000)	UEB
41	3A	B01-0232-03	PANEL ESCUTCHEON ASSY (KR1000B)	KNUH
41	3A	B01-0232-03	PANEL ESCUTCHEON ASSY (KR1000B)	UEB
42A	3B	B08-9026-04	MEMORY INDICATOR	UEB
42B	2B	B10-0304-03	FRONT GLASS (KR-1000)	KNUH
42B	2B	B10-0304-03	FRONT GLASS (KR-1000)	UEB
42B	2B	B10-0395-03	FRONT GLASS (KR-1000B)	KNUH
42B	2B	B10-0395-03	FRONT GLASS (KR-1000B)	UEB
43	3B	B10-0305-04	FRONT GLASS (KR-1000)	KNUH
43	3B	B10-0305-04	FRONT GLASS (KR-1000)	UEB
43	3B	B10-0396-04	FRONT GLASS (KR-1000B)	KNUH
43	3B	B10-0396-04	FRONT GLASS (KR-1000B)	UEB
44	3F	B20-0503-03	SCALE	KNUH
45	3E	B20-0504-03	SCALE	UEB
45	3E	B20-0504-03	SCALE	KNUH
45	3E	B20-0556-03	SCALE	UEB
46	2F	B30-0150-05	LAMP (8V 0.3A)	KNUH
47	35	B30-0339-05	LAMP (8V 0.15A) BLUE	UEB
48	36	B30-0340-05	LAMP (8V 0.15A) RED	KNUH
-	-	B46-0061-30	WARRANTY CARD	UEB
-	-	B46-0062-30	WARRANTY CARD (FOR MILITARY)	UEB
-	-	B46-0063-23	WARRANTY CARD	UEB
-	-	B46-0092-03	WARRANTY CARD	UEB
-	-	B46-0094-03	WARRANTY CARD	UEB
-	-	B46-0095-03	WARRANTY CARD	UEB
-	-	B50-3384-00	INSTRUCTION MANUAL (E)	KNUH
-	-	B50-3385-00	INSTRUCTION MANUAL (E)	UEB
-	-	B50-4848-00	INSTRUCTION MANUAL (E)	KNUH
-	-	B50-4848-00	INSTRUCTION MANUAL (E)	UEB
-	-	B50-4849-00	INSTRUCTION MANUAL (F.G.SP)	KNUH
-	-	B59-0018-00	SERVICE DIRECTORY	UEB
-	-	B59-0092-00	SERVICE DIRECTORY	UEB
CODE1		CK49F1H4732	CERAMIC	KNUH
C50		CE044LH010M	ELECTR 0.047UF Z	UEB
49	35	D13-0068-04	WORK GEAR	KNUH
50	35	D15-0183-04	PULLEY	UEB
51	35	D15-0183-04	PULLEY	KNUH
52	35	D15-0184-14	PULLEY	UEB
53	35	D15-0185-14	PULLEY	KNUH
54	35	D16-0065-04	BELT	UEB
54	35	D16-0065-04	BELT	KNUH

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UEB: AAFES(Europe) X: Australia M: Other Areas K: M. J. E. UEB: KR-1000B

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54	35	D16-0065-04	BELT	UEB
54	35	D16-0065-04	BELT	KNUH
55	1D	E03-0007-05	HERICAL GEAR (VOLUME)	UEB
55	1D	E30-0181-05	AC BUTLET	KNUH
55	1D	E30-0580-05	AC POWER CORD	UEB
55	1D	E30-0612-05	AC POWER CORD	KNUH
55	1D	E30-0612-05	AC POWER CORD	UEB
56	3F	E11-0088-05	PHONE JACK (MIC)	KNUH
56	3F	E11-0088-05	PHONE JACK (MIC)	UEB
56	3F	E11-0124-05	PHONE JACK (MIC)	KNUH
56	3F	E11-0124-05	PHONE JACK (MIC)	UEB
57	35	G01-0409-04	EXTENSION SPRING	KNUH
-	-	H01-3308-04	ITEM CARTON CASE	UEB
-	-	H01-3308-04	ITEM CARTON CASE	KNUH
-	-	H01-4800-04	ITEM CARTON CASE	UEB
-	-	H01-4800-04	ITEM CARTON CASE	KNUH
-	-	H10-1592-01	POLYSTYRENE FORMED FIXTURE	UEB
-	-	H10-1593-11	PROTECTION COVER	KNUH
-	-	H20-0442-04	PROTECTION COVER	UEB
-	-	H20-0442-04	PROTECTION COVER	KNUH
-	-	H20-0443-04	PROTECTION COVER	UEB
-	-	H21-0219-04	PROTECTION SHEET	KNUH
-	-	H25-0078-04	PROTECTION BAG (235X315)	UEB
58	3C	J02-0101-05	FRONT	KNUH
59	1D	J19-0626-12	ANTENNA HOLDER	UEB
60	1D	J2-0083-05	POWER CORD (RUSH)	KNUH
61	3B	K27-0612-04	KNBB (MODE, IF BAND, TUNE, SENS1)	UEB
61	3B	K27-0612-04	KNBB (MODE, IF BAND, TUNE, SENS1)	KNUH
61	3B	K27-1016-04	KNBB (BUTTON)	UEB
61	3B	K27-1016-04	KNBB (BUTTON)	KNUH
62	3A	K27-0613-04	KNBB (DIMMER)	UEB
62	3A	K27-0613-04	KNBB (DIMMER)	KNUH
62	3A	K27-1017-04	KNBB (DIMMER)	UEB
62	3A	K27-1017-04	KNBB (DIMMER)	KNUH
63	3A	K27-0614-04	KNBB (MEMORY)	UEB
63	3A	K27-0614-04	KNBB (MEMORY)	KNUH
63	3A	K27-1018-04	KNBB (MEMORY)	UEB
63	3A	K27-1018-04	KNBB (MEMORY)	KNUH
64	2B	K27-0615-04	KNBB (G.E.)	UEB
64	2B	K27-0615-04	KNBB (G.E.)	KNUH
64	2B	K27-1019-04	KNBB (BUTTON) (G.E.)	UEB
64	2B	K27-1019-04	KNBB (BUTTON) (G.E.)	KNUH
65	2C	K29-0404-14	KNBB (BALANCE, MIXING)	UEB
65	2C	K29-0404-14	KNBB (BALANCE, MIXING)	KNUH
65	2C	K29-1305-04	KNBB (BALANCE, MIXING)	UEB
65	2C	K29-1305-04	KNBB (BALANCE, MIXING)	KNUH
66	2B	K29-0405-14	KNBB (PRESET)	UEB
66	2B	K29-0405-14	KNBB (PRESET)	KNUH
66	2B	K29-1394-04	KNBB (PRESET)	UEB
66	2B	K29-1394-04	KNBB (PRESET)	KNUH
67	3B	K29-0406-13	KNBB ASSY (VOLUME)	UEB
67	3B	K29-0406-13	KNBB ASSY (VOLUME)	KNUH

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KR-1000/B KR-1000/B

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Ref. No.	Address	Part No.	Description	Desti- nation
54	36	D16-0065-04	BELT	UEB
54	36	D16-0071-04	BELT	UEB
55	10	D13-0069-04	HERICAL GEAR (VOLUME)	UEB
56	10	E03-0007-05	AC POWER CARD	UEB
56	10	E30-0181-05	AC POWER CARD	UEB
56	10	E30-0580-05	AC POWER CARD	UEB
56	10	E30-0812-05	AC POWER CARD	UEB
56	10	E30-0812-05	AC POWER CARD	UEB
E1	3F	E11-0088-05	PHONE JACK (MIC)	UEB
E1	3F	E11-0089-05	PHONE JACK (MIC)	UEB
E1	3F	E11-0124-05	PHONE JACK (MIC)	UEB
57	36	G01-0409-04	EXTENSION SPRING	UEB
-	-	H01-3308-04	ITEM CARTON CASE	UEB
-	-	H01-3308-04	ITEM CARTON CASE	UEB
-	-	H01-4800-04	ITEM CARTON CASE	UEB
-	-	H01-4800-04	ITEM CARTON CASE	UEB
-	-	H10-1592-01	POLYSTYRENE FRAMED FIXTURE	UEB
-	-	H10-1593-11	POLYSTYRENE FRAMED FIXTURE	UEB
-	-	H20-0442-04	PROTECTION COVER	UEB
-	-	H20-0442-04	PROTECTION COVER	UEB
-	-	H20-0443-04	PROTECTION COVER	UEB
-	-	H20-0443-04	PROTECTION COVER	UEB
-	-	H21-0219-04	PROTECTION SHEET	UEB
-	-	H25-0078-04	PROTECTION BAG (235X315)	UEB
58	3C	J02-0101-05	FOOT	UEB
59	10	J19-0626-12	ANTENNA HOLDER	UEB
60	10	J42-0093-05	ANTENNA HOLDER	UEB
61	3B	K27-0612-04	KN8B (N8DE, IF BAND, TUNE, SENS1)	UEB
61	3B	K27-0612-04	KN8B (N8DE, IF BAND, TUNE, SENS1)	UEB
61	3B	K27-0612-04	KN8B (N8DE, IF BAND, TUNE, SENS1)	UEB
62	3A	K27-0613-04	KN8B (DIMMER)	UEB
62	3A	K27-1017-04	KN8B (DIMMER)	UEB
62	3A	K27-1017-04	KN8B (DIMMER)	UEB
63	3A	K27-0614-04	KN8B (MEMBER)	UEB
63	3A	K27-0614-04	KN8B (MEMBER)	UEB
63	3A	K27-1018-04	KN8B (MEMBER)	UEB
63	3A	K27-1018-04	KN8B (MEMBER)	UEB
64	2B	K27-0615-04	KN8B (G. E.)	UEB
64	2B	K27-0615-04	KN8B (G. E.)	UEB
64	2B	K27-1019-04	KN8B (BUTTON) (G. E.)	UEB
64	2B	K27-1019-04	KN8B (BUTTON) (G. E.)	UEB
65	2C	K29-0404-14	KN8B (BALANCE MIXING)	UEB
65	2C	K29-0404-14	KN8B (BALANCE MIXING)	UEB
65	2C	K29-1305-04	KN8B (BALANCE MIXING)	UEB
65	2C	K29-1305-04	KN8B (BALANCE MIXING)	UEB
66	2B	K29-0405-14	KN8B (PRESET)	UEB
66	2B	K29-0405-14	KN8B (PRESET)	UEB
66	2B	K29-1374-04	KN8B (PRESET)	UEB
66	2B	K29-1374-04	KN8B (PRESET)	UEB
67	3B	K29-0406-13	KN8B ASSY (VOLUME)	UEB

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Ref. No.	Address	Part No.	Description	Desti- nation
67	3B	K29-0406-13	KN8B ASSY (VOLUME)	UEB
67	3B	K29-1306-03	KN8B ASSY (VOLUME)	UEB
67	3B	K29-1306-03	KN8B ASSY (VOLUME)	UEB
68	3A	K29-0407-03	KN8B (TIMER)	UEB
68	3A	K29-0407-03	KN8B (TIMER)	UEB
68	3A	K29-1307-03	KN8B (TIMER)	UEB
69	2A	K29-0408-03	KN8B ASSY (SPEAKER, FILTER)	UEB
69	2A	K29-0408-03	KN8B ASSY (SPEAKER, FILTER)	UEB
69	2A	K29-1308-03	KN8B ASSY (SPEAKER, FILTER)	UEB
69	2A	K29-1308-03	KN8B ASSY (SPEAKER, FILTER)	UEB
70	3A	K29-0409-03	KN8B ASSY (INPUT, MONITOR, G. E.)	UEB
70	3A	K29-0409-03	KN8B ASSY (INPUT, MONITOR, G. E.)	UEB
70	3A	K29-1309-03	KN8B ASSY (INPUT, MONITOR, G. E.)	UEB
70	3A	K29-1309-03	KN8B ASSY (INPUT, MONITOR, G. E.)	UEB
71	3B	K29-0410-12	KN8B ASSY (TUNER)	UEB
71	3B	K29-0410-12	KN8B ASSY (TUNER)	UEB
71	3B	K29-1310-02	KN8B ASSY (TUNER)	UEB
71	3B	K29-1310-02	KN8B ASSY (TUNER)	UEB
72	1F	L01-2436-15	POWER TRANSFORMER ASSY	UEB
72	1F	L01-2437-25	POWER TRANSFORMER ASSY	UEB
72	1F	L01-2437-25	POWER TRANSFORMER ASSY	UEB
72	1F	L01-2437-25	POWER TRANSFORMER ASSY	UEB
73	1F	L01-2442-05	POWER TRANSFORMER ASSY	UEB
73	1F	L01-2447-05	POWER TRANSFORMER ASSY	UEB
73	1F	L01-2447-05	POWER TRANSFORMER ASSY	UEB
74	2D	N08-0128-35	GND TERMINAL	UEB
74	2D	N08-0128-35	GND TERMINAL	UEB
75	3F	N29-0035-05	PUSH RIVET	UEB
76	3F	N29-0035-05	PUSH RIVET	UEB
78	2F	R01-4027-05	VARIABLE RESISTOR (PRESET)	UEB
79	3F	R06-5073-15	VARIABLE RESISTOR (MIC MIX)	UEB
80	3G	R11-9013-05	VARIABLE RESISTOR (VOLUME)	UEB
81	1F	S31-2001-05	SLIDE SWITCH (4 8MM-8 8MM)	UEB
81	1F	S31-2001-05	SLIDE SWITCH (4 8MM-8 8MM)	UEB
81	1F	S31-2001-05	SLIDE SWITCH (4 8MM-8 8MM)	UEB
82	1C	S31-2006-05	SLIDE SWITCH (VOLUME, SEL)	UEB
83	35	T42-0004-05	DC MOTOR	UEB
84	1D	T90-0104-15	LEAD ANTENNA	UEB
-	-	T90-0132-05	T TYPE ANTENNA	UEB
-	-	T90-0132-05	T TYPE ANTENNA	UEB
-	-	T90-0202-05	T TYPE ANTENNA	UEB
-	-	T90-0202-05	T TYPE ANTENNA	UEB
-	-	U09-0016-05	BATTERY	UEB
C1	2	COASSELH101J	CERAMIC	UEB
C3	4	COASSELH101J	CERAMIC	UEB
C5	6	COASSELH101J	CERAMIC	UEB
C7	8	COASSELH101J	CERAMIC	UEB
C9	10	COASSELH101J	CERAMIC	UEB

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 ,20			CE04FW1A221M CC45SL1H010C CC45SL1H560J CC45SL1H680J CE04W2A010M	ELECTR0 220UF 10WV CERAMIC 1PF C CERAMIC 56PF J CERAMIC 68PF J ELECTR0 1UF 100WV		
C21 ,22 C23 ,24 C25 ,26 C27 ,28 C29 ,30			CC45FSL1H100D CC45SL1H121J CC45SL1H120J CE04GW1H010M CC45SL1H090D	CERAMIC 10PF D CERAMIC 120PF J CERAMIC 12PF J LL-ELEC 1.0UF 50WV CERAMIC 9PF D		
C31 ,32 C33 ,34 C35 C37 C41 -44			CQ93M2A473M CQ93M2A103M CE04W1C221M CE04GW1C470M CK45E2H103P	MYLAR 0.047UF M MYLAR 0.010UF M ELECTR0 220UF 16WV LL-ELEC 47UF 16WV CERAMIC 0.01UF P		
C45 ,46 C47 ,48 C49 C50 ,51 C52			C9D-0560-05 CE04W2A470M CE04W1C332M CK45E1H103P CE04W1V102M	ELECTR0 8200UF 71WV ELECTR0 47UF 100WV ELECTR0 3300UF 16WV CERAMIC 0.01UF P ELECTR0 1000UF 35WV		
C53 C54 C55 C56 C57			CE04W1V221M CE04FW1E220M CE04FW1A470M CE04FW1H010M CE04FW1E470M	ELECTR0 220UF 35WV ELECTR0 22UF 25WV ELECTR0 47UF 10WV ELECTR0 1UF 50WV ELECTR0 47UF 25WV		
C58 C59 -63 C64 ,65 C66 C67			CE04FW1C220M CE04FW1C470M CK45E1H103P CE04W1V222M CE04W1V471M	ELECTR0 22UF 16WV ELECTR0 47UF 16WV CERAMIC 0.01UF P ELECTR0 2200UF 35WV ELECTR0 470UF 35WV		
C68 C69 C70 C71 C72			CE04FW1E330M CE04FW1H010M CE04FW1E470M CE04FW1E330M CE04FW1H010M	ELECTR0 33UF 25WV ELECTR0 1UF 50WV ELECTR0 47UF 25WV ELECTR0 33UF 25WV ELECTR0 1UF 50WV		
C73 C74 C75 ,76 C101			CE04W1E471M CK45FB1H152K CK45B1H152K C91-0699-05	ELECTR0 470UF 25WV CERAMIC 1500PF K CERAMIC 0.0015UF K CERAMIC CAPACITOR (TYPE 3)		
- - - -			E11-0089-05 E11-0089-05 E11-0103-05 E11-0103-05	PHONE JACK (PHONES) PHONE JACK (PHONES) PHONE JACK (PHONES) PHONE JACK (PHONES)	KMUH UE KMU EUEB	
△ F1 ,72 △ F1 ,72 △ F1 ,72 △ F1 ,72 △ F1 ,72 △ F1 ,72 △ F1 ,72 △ F1 ,72 △ F1 ,72 △ F1 ,72			F05-5022-05 F05-5022-05 F05-5022-05 F06-5022-05 F05-4022-05 F05-4022-05 F05-4022-05 F05-4022-05 F05-4022-05 F06-4024-05	FUSE (250V 5A) FUSE (250V 5A) FUSE (250V 5A) FUSE (250V 5A) FUSE (250V 4A) FUSE (250V 4A) FUSE (250V 4A) FUSE (250V 4A) FUSE (250V 4A) FUSE (250V 4A)	KMUH MUE UEB KUE KMUH MUE UEB KUE KUE KUE	
-			J13-0041-05	FUSE CLIP		
L1 ,2			L40-1011-03	SMALL FIXED INDUCTOR		

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L3 ,4			L39-0085-05	PHASE-COMPENSATION COIL		
R21 ,22			RS14GB3A392J	FL-PROOF RS 3.9K J 3A		
R23 ,24			RS14GB3A562J	FL-PROOF RS 5.6K J 3A		
R25 -28			RD14GB2E681J	FL-PROOF RD 680 J 2E		
R31 ,32			RD14GB2E820J	FL-PROOF RD 82 J 2E		
R33 ,34			RS14GB3A103J	FL-PROOF RS 10K J 3A		
R39 -42			RD14GB2E101J	FL-PROOF RD 100 J 2E		
R51 ,52			RS14GB3A100J	FL-PROOF RS 10 J 3A		
R53 ,54			RS14GB3F100J	FL-PROOF RS 10 J 3F		
R55 ,56			RS14GB3A100J	FL-PROOF RS 10 J 3A		
R70			RS14GB3F102J	FL-PROOF RS 1K J 3F		
R80 -82			RS14GB3A180J	FL-PROOF RS 18 J 3A		
R86			RS14GB3D121J	FL-PROOF RS 120 J 3D		
R93			RS14GB3A5R6J	FL-PROOF RS 5.6 J 3A		
R100			RD14GB2E4R7J	FL-PROOF RD 4.7 J 2E		
R102			RD14GB2E4R7J	FL-PROOF RD 4.7 J 2E		
R103			RD14GB2E821J	FL-PROOF RD 820 J 2E		
R104			RD14GB2E4R7J	FL-PROOF RD 4.7 J 2E		
R105			RS14GB3A2R2J	FL-PROOF RS 2.2 J 3A		
R107-109			RS14GB3D201J	FL-PROOF RS 200 J 3D		
R113			RD14GB2E2R2J	FL-PROOF RD 2.2 J 2E		
R115			RS14GB3D271J	FL-PROOF RS 270 J 3D		
R119			RS14GB3A221J	FL-PROOF RS 220 J 3A		
R120			R92-0173-05	RC 2.2M M 2H	KK	
R121,122			RS14GB3A561J	FL-PROOF RS 560 J 3A		
VR1 ,2			R12-0502-05	SEMI FIXED VARIABLE RESISTOR		
Δ RL1			S51-1034-05	MAGNETIC RELAY		
RL2			S51-4040-05	MAGNETIC RELAY		
D1 ,2			RD5.1E(B2)	ZENER DIODE		
D3 ,4			RD22E(B2)	ZENER DIODE		
D5 -12			1S2076	DIODE		
D13			W06B	DIODE		
D15			W06B	DIODE		
D17 -20			1S1555	DIODE		
D17 -20			1S2076	DIODE		
D21			M4C-51-13*2	DIODE		
D22 -25			GP200L	DIODE		
D26 -29			W06B	DIODE		
D30			1S2076	DIODE		
D31			RD5.1E(B2)	ZENER DIODE		
D32			RD6.2E(B2)	ZENER DIODE		
D33			RD11E(B2)	ZENER DIODE		
D34			RD15E(B2)	ZENER DIODE		
D35			RB-151LFA	DIODE		
D36			1S2076	DIODE		
Q1 ,2			UPA68H	DUAL FET		
Q3 ,4			2SC945(A) (Q,P)	TRANSISTOR		
Q5 ,6			2SC945(A) (Q,P)	TRANSISTOR		
Q7 ,8			2SC2259(G,H)	DUAL TRANSISTOR		
Q9 ,10			2SA899(B,V)	TRANSISTOR		
Q11 ,12			2SA733(A) (Q,P)	TRANSISTOR		
Q11 ,12			2SA999(E,F)	TRANSISTOR		
Q13 ,14			2SA899(B,V)	TRANSISTOR		

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Q15 ,16 Q17 Q18 Q18 Q18			2SC1904(B,V) 2SC945(A)(Q,P) 2SA1127NC(R,S) 2SA733(A)(Q,P) 2SA999(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q19 Q19 Q20 Q21 ,22 Q23			2SC1841 2SC2378(Q,P) 2SA954(L,K) 2SC945(A)(Q,P) 2SC2003(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q24 Q25 Q26 Q27 Q28			2SC945(A)(Q,P) 2SC2003(L,K) 2SC945(A)(Q,P) 2SC2003(L,K) 2SA1127NC(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q28 Q28 Q29 Q31 Q32 ,33			2SA733(A)(Q,P) 2SA999(E,F) 2SC2003(L,K) 2SD330 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q34 -36 Q37 Q38 ,39 Q40 Q41 ,42			2SA954(L,K) 2SD330 2SC945(A)(Q,P) 2SD330 2SA1127NC(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q41 ,42 Q41 ,42			2SA733(A)(Q,P) 2SA999(E,F)	TRANSISTOR TRANSISTOR		
TUNER (X05-2000-10)						
C1 C2 C3 C4 ,5 C6 ,7			C91-0085-05 CED4FW1C470M CK45FB1H471K CK45FF1H103Z C91-0085-05	CERAMIC 0.022UF N ELECTRO 47UF 16WV CERAMIC 470PF K CERAMIC 0.01UF Z CERAMIC 0.022UF N		
C8 C9 ,10 C11 C12 C13			CK45FB1H471K CK45FF1H473Z CK45F1H473Z CK45FB1H331K CED4FW1HR47M	CERAMIC 470PF K CERAMIC 0.047UF Z CERAMIC 0.047UF Z CERAMIC 330PF K ELECTRO 0.47UF 50WV		
C14 -16 C17 C18 C19 C20			C91-0085-05 CED4FW1H010M C91-0085-05 CED4FW1C101M C91-0085-05	CERAMIC 0.022UF N ELECTRO 1UF 50WV CERAMIC 0.022UF N ELECTRO 100UF 16WV CERAMIC 0.022UF N		
C21 C22 C23 C24 C25			CED4FW1C100M CED4W1C471M CQ93FM1H473K CK45FB1H152K CQ09FS1H102J	ELECTRO 10UF 16WV ELECTRO 470UF 16WV MYLAR 0.047UF K CERAMIC 1500PF K POLYSTY 1000PF J		
C26 C27 C28 C29 ,30 C31			CQ93FM1H222K CED4W1H3R3M CED4FW1HR47M CED4FW1H010M CED4FW1H3R3M	MYLAR 2200PF K ELECTRO 3.3UF 50WV ELECTRO 0.47UF 50WV ELECTRO 1UF 50WV ELECTRO 3.3UF 50WV		
C32			CQ93FM1H103K	MYLAR 0.01UF K		

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C37 ,38			CE04FW1C100M	ELECTR0 10UF 16WV		
C39 -42			CE04FW1HR47M	ELECTR0 0.47UF 50WV		
C43			CC45SL1H271J	CERAMIC 270PF J		
C45			CE04FW1E470M	ELECTR0 47UF 25WV		
C46			CE04W1E470M	ELECTR0 47UF 25WV		
C47 -50			CQ93M1H272J	MYLAR 0.0027UF J		
C51 ,52			CQ93FM1H562J	MYLAR 5600PF J		
C53 ,54			CE04FW1C100M	ELECTR0 10UF 16WV		
C55 ,56			CE04FW1H010M	ELECTR0 1UF 50WV		
C60			CK45FF1H103Z	CERAMIC 0.01UF Z		
C61			CQ09FS1H391J	POLYSTY 390PF J		
C62			CK45FF1H473Z	CERAMIC 0.047UF Z		
C63			C91-0083-05	CERAMIC 0.01UF N		
C64			CK14D1H102M	CERAMIC 1000PF M		
C65			CK45FF1H473Z	CERAMIC 0.047UF Z		
C66			CQ93FM1H223K	MYLAR 0.022UF K		
C67			CE04FW1C100M	ELECTR0 10UF 16WV		
C68			C91-0083-05	CERAMIC 0.01UF N		
C69			CQ93M1H223K	MYLAR 0.022UF K		
C70			CQ93FM1H102K	MYLAR 1000PF K		
C71			CQ93M1H103K	MYLAR 0.01UF K		
C72			CE04FW1H010M	ELECTR0 1UF 50WV		
C73			CE04FW1H3R3M	ELECTR0 3.3UF 50WV		
C74			CK45F1H103Z	CERAMIC 0.01UF Z		
C75			CQ93M1H104K	MYLAR 0.1UF K		
C76			C91-0083-05	CERAMIC 0.01UF N		
C80			CE04FW1C101M	ELECTR0 100UF 16WV		
C81			CE04FW1H2R2M	ELECTR0 2.2UF 50WV		
C83			CE04FW1H010M	ELECTR0 1UF 50WV		
C85			CK45F1H473Z	CERAMIC 0.047UF Z		
C86			CE04FW1C100M	ELECTR0 10UF 16WV		
C87			CK45F1H473Z	CERAMIC 0.047UF Z		
C88			CK45FF1H103Z	CERAMIC 0.01UF Z		
C89			CK45B1H102K	CERAMIC 0.001UF K		
C100-102			CE04FW1HR47M	ELECTR0 0.47UF 50WV		
C104			CE04FW1H4R7M	ELECTR0 4.7UF 50WV		
C105			CE04FW1V100M	ELECTR0 10UF 35WV		
C106			CE04FW1H010M	ELECTR0 1UF 50WV		
C107			CE04FW1A101M	ELECTR0 100UF 10WV		
C108			CK45FB1H102K	CERAMIC 0.001UF K		
C109			CE04W1C221M	ELECTR0 220UF 16WV		
C110			CE04FW1E470M	ELECTR0 47UF 25WV		
C111			CE04FW1V330M	ELECTR0 33UF 35WV		
C112			C91-0085-05	CERAMIC 0.022UF N		
C201			CK45F1H103Z	CERAMIC 0.01UF Z		
C202,203			CE04W1V100M	ELECTR0 10UF 35WV		
C204			CK45B1H471K	CERAMIC 470PF K		
C205			CC45SL1H121J	CERAMIC 120PF J		
C206			CE04W1C470M	ELECTR0 47UF 16WV		
C207			CE04W1C101M	ELECTR0 100UF 16WV		
C208			CK45F1H103Z	CERAMIC 0.01UF Z		
C209			CC45CH1H101J	CERAMIC 100PF J		
C210			CC45CH1H270J	CERAMIC 27PF J		
C211			CK45F1H103Z	CERAMIC 0.01UF Z		
C212			CE04W1C330M	ELECTR0 33UF 16WV		

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C213 C214-219 C220 C221 C222, 223			C91-0083-05 CE04W1H010M CK45F1H103Z CE04W1E220M CE04W1H010M	CERAMIC 0.01UF N ELECTR0 1UF 50WV CERAMIC 0.01UF Z ELECTR0 22UF 25WV ELECTR0 1UF 50WV		
C225 C226 C227 C228, 229 C230			CE04AW1C101M CE04W1V330M CK45F1H473Z CK45F1H103Z CC45SL1H220J	LL-ELEC 100UF 16WV ELECTR0 33UF 35WV CERAMIC 0.047UF Z CERAMIC 0.01UF Z CERAMIC 22PF J		
C231 C232 C233, 234 C235 C236			CE04W0J221M CK45F1H103Z CC45CH1H330J CE04W1H010M CE04W1A101M	ELECTR0 220UF 6.3WV CERAMIC 0.01UF Z CERAMIC 33PF J ELECTR0 1UF 50WV ELECTR0 100UF 10WV		
C237 C238 C239 C241 C242			CK45F1H473Z CE04BW1H010M CQ93M1H333K CE04W1V221M CK45F1H103Z	CERAMIC 0.047UF Z NP-ELEC 1UF 50WV MYLAR 0.033UF K ELECTR0 220UF 35WV CERAMIC 0.01UF Z		
C243 C244, 245 C246 C247 C250			CE04BW1H010M CK45B1H102K CE04W1V330M CE04W1H010M CE04W1E470M	NP-ELEC 1UF 50WV CERAMIC 0.001UF K ELECTR0 33UF 35WV ELECTR0 1UF 50WV ELECTR0 47UF 25WV		
C251 C252 C253, 254 C255 C256-258			CK45F1H473Z CE04W1E101M CK45F1H473Z CE04W1A101M CK45F1H473Z	CERAMIC 0.047UF Z ELECTR0 100UF 25WV CERAMIC 0.047UF Z ELECTR0 100UF 10WV CERAMIC 0.047UF Z		
C259 C260 C262 C267 C268			CE04W1E470M CE04W1C330M CK45F1H473Z CE04W1C101M CK45B1H102K	ELECTR0 47UF 25WV ELECTR0 33UF 16WV CERAMIC 0.047UF Z ELECTR0 100UF 16WV CERAMIC 0.001UF K		
C270 TC1 ,2			CC45SL1H150J C05-0303-05	CERAMIC 15PF J CERAMIC TRIMMER CAPACITOR		
202	2D		E20-0439-05	TERMINAL BOARD (ANTENNA)		
CF1 CF2 ,3 CF4 ,5 CF6			L19-0026-05 L72-0125-05 L72-0115-05 L72-0135-05 L72-0097-05	BALUN TRANSFORMER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER		
CF7 L1 L2 L3 ,4 L5			L72-0096-05 L30-0327-15 L30-0328-05 L79-0060-05 L31-0455-05	CERAMIC FILTER FM IFT FM IFT LC FILTER MW-RF COIL		
L6 L7 L10 L12 -19 X1			L32-0258-05 L30-0337-05 L40-1021-03 L40-1021-12 L77-0573-05	MW OSCILLATING COIL AM IFT SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR CRYSTAL RESONATOR		

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X2 X3			L77-0584-05 L78-0202-05	CRYSTAL RESONATOR RESONATOR		
CP1 ,2 CP3 CP4 CP5 ,6 CP7 ,8			R90-0154-05 R90-0155-05 R90-0156-05 R90-0157-05 R90-0158-05	MULTI-COMP 820K X4 MULTI-COMP 13K X4 MULTI-COMP MULTI-COMP 47K X5 MULTI-COMP 47K X7		
CP9 CP10 CP11 CP12 CP13			R90-0132-05 R90-0160-05 R90-0161-05 R90-0162-05 R90-0163-05	MULTI-COMP 100K X7 MULTI-COMP 820K X8 MULTI-COMP 100K X8 MULTI-COMP 47K X8 MULTI-COMP 47K X9		
CP14 CP15-22 CP23 CP24 CP25-28			R90-0164-05 R90-0168-05 R90-0165-05 R90-0167-05 R90-0166-05	MULTI-COMP MULTI-COMP MULTI-COMP MULTI-COMP MULTI-COMP		
CP30 R6 R14 R28 R30			R90-0188-05 RD14GB2E101J RD14GB2E101J RD14GB2E101J RD14GB2E101J	MULTI-COMP 0.01UF X4 FL-PROOF RD 100 J 2E FL-PROOF RD 100 J 2E FL-PROOF RD 100 J 2E FL-PROOF RD 100 J 2E		
R47 ,48 R73 R86 R146 R147			RD14GB2E101J RD14GB2E101J RD14GB2E560J RD14GB2E101J RD14GB2E100J	FL-PROOF RD 100 J 2E FL-PROOF RD 100 J 2E FL-PROOF RD 56 J 2E FL-PROOF RD 100 J 2E FL-PROOF RD 10 J 2E		
R215 R219 R277,278 R287 R291			RD14GB2E100J RCD5GF2H685M RD14GB2E561J RD14GB2E221J RD14GB2E100J	FL-PROOF RD 10 J 2E RC 6.8M M 2H FL-PROOF RD 560 J 2E FL-PROOF RD 220 J 2E FL-PROOF RD 10 J 2E		
VR3 VR4 VR5 VR6 VR7			R12-1041-05 R12-5030-05 R12-3051-05 R12-3046-05 R12-1040-05	SEMI FIXED VARIABLE RESISTOR SEMI FIXED VARIABLE RESISTOR SEMI FIXED VARIABLE RESISTOR SEMI FIXED VARIABLE RESISTOR SEMI FIXED VARIABLE RESISTOR		
S1			S31-4012-05	SLIDE SWITCH		
D1 -6 D8 -21 D22 D22 D23 -25			1S2076 1S2076 1S1555 1S2076 1S2076	DIODE DIODE DIODE DIODE DIODE		
D26 D27 ,28 D29 D30 D30			KV1236(Z1) 1S2076 RD6, 2E(B2) 1S1555 1S2076	VARIABLE CAPACITANCE DIODE DIODE ZENER DIODE DIODE DIODE		
D31 -48 D49 D50 -63 D64 ,65 D67 -71			1S2076 RD8, 2E(B2) 1S2076 1N60 1S2076	DIODE ZENER DIODE DIODE DIODE DIODE		

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D80 -84			1S2076	DIODE		
D85 -87			1S1555	DIODE		
D85 -87			1S2076	DIODE		
D88 ,89			1S2076	DIODE		
D98			1N60	DIODE		
D99			1S1555	DIODE		
D99			1S2076	DIODE		
FL1			FIP13AM10	FLUORESCENT INDICATOR TUBE		
IC1			HA11225	IC		
IC2			HA11223W	IC		
IC3			AN6552	IC		
IC3			UPC4557C	IC		
IC4			MB84069BM	IC		
IC4			TC4069UBP	IC		
IC4			UPD4069UBC	IC		
IC5			LA1245	IC		
IC6			MB74LS42M	IC		
IC7			UPD553C-127	IC		
IC8			MB84020BM	IC		
IC8			TC4020BP	IC		
IC8			UPD4020C	IC		
IC9			MC14042UBCP	IC		
IC9			UPD4042C	IC		
IC10			MB84069BM	IC		
IC10			TC4069UBP	IC		
IC10			UPD4069UBC	IC		
IC11			UPD1703C-016	IC		
IC12			UPB553AC	IC		
IC13			MS1903L	IC		
IC14			AN6552	IC		
IC14			UPC4557C	IC		
Q1			2SC1923	TRANSISTOR		
Q2			2SA733(A) (Q,P)	TRANSISTOR		
Q3 -5			2SK105(H,J)	FET		
Q7 -14			2SC945(A) (Q,P)	TRANSISTOR		
Q15 ,16			2SA733(A) (Q,P)	TRANSISTOR		
Q17			2SC945(A) (Q,P)	TRANSISTOR		
Q18 ,19			2SC1735	TRANSISTOR		
Q21 -27			2SA733(A) (Q,P)	TRANSISTOR		
Q28			2SK105(H,J)	FET		
Q29			2SA733(A) (Q,P)	TRANSISTOR		
Q30			2SD863	TRANSISTOR		
Q31			2SC945(A) (Q,P)	TRANSISTOR		
Q32 ,33			2SA733(A) (Q,P)	TRANSISTOR		
Q34 -39			2SD863	TRANSISTOR		
Q40 -45			2SA733(A) (Q,P)	TRANSISTOR		
Q46 ,47			2SC945(A) (Q,P)	TRANSISTOR		
Q48			2SA733(A) (Q,P)	TRANSISTOR		
Q49			2SA733(A) (Q,P)	TRANSISTOR		
Q50 ,51			2SC945(A) (Q,P)	TRANSISTOR		
Q52 -67			2SA733(A) (Q,P)	TRANSISTOR		
Q71 -75			2SA733(A) (Q,P)	TRANSISTOR		
Q81 -87			2SC945(A) (Q,P)	TRANSISTOR		
Q88 ,89			2SA733(A) (Q,P)	TRANSISTOR		
Q90			2SC945(A) (Q,P)	TRANSISTOR		

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PARTS LIST

* New Parts

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q91 -96 Q97 Q98 -			2SA733(A)(Q,P) 2SK105(H,J) 2SC945(A)(Q,P) WD2-0070-05	TRANSISTOR FET TRANSISTOR FM FRONT-END ASSY		
MAIN AMP (X07-1900-10)						
C1 ,2 C3 -6 C7 -10 R1 ,2 R3 ,4 R5 ,6 R7 -10 R15 -18 R19 -26 R27 -34 R35 -38 VR1 ,2 D1 ,2 D1 ,2 D3 -14 D15 ,16 Q1 ,2 Q3 ,4 Q5 -8 Q9 -12 Q13 ,14 Q13 ,14 Q13 ,14 Q15 -18 Q15 -18 Q19 ,20 Q19 ,20 Q19 ,20			CE04FW1A470M CQ93FM1H153K CE04FW1V100M RD14GB2E680J RD14GB2E270J RD14GB2E560J RD14GB2E390J RD14GB2E470J RD14GB2E4R7J R92-0166-05 R92-0167-05 R12-0077-05 1S1555 1S2076 1S2076A STV-3H(G) 2SC2591*1(Q,R) 2SA1111*1(Q,R) 2SA1186(Q,Y) 2SC2837(Q,Y) 2SC2320(E,F) 2SC828A(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SC2320(E,F) 2SC828A(Q,R) 2SC945(A)(Q,P)	ELECTRO 47UF 10WV MYLAR 0.015UF K ELECTRO 10UF 35WV FL-PROOF RD 68 J 2E FL-PROOF RD 27 J 2E FL-PROOF RD 56 J 2E FL-PROOF RD 39 J 2E FL-PROOF RD 47 J 2E FL-PROOF RD 4.7 J 2E METAL-PLATE 0.22 K 3D METAL-PLATE 0.22 K 3H SEMI FIXED VARIABLE RESISTOR DIODE DIODE DIODE VARISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
PRE AMP (X08-1870-10)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10 C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 ,20 C21 ,22 C23 C24 C25 C26 ,27 C28 C29 ,30 C31 ,32 C33			CC45FSL1H221J CE04FW1A221M CC45SL1H560J CQ93M1H113J CQ93M1H393J CE04FW1A101M CE04FW1C330M CE04AW1E4R7M CE04FW1H010M CE04FW1A220M CE04FW1C100M CE04FW1E101M CE04W1C471M CE04FW1A101M CK45FB1H102K CE04FW1V100M CK45B1H821K CE04AW1H010M CE04FW1A221M	CERAMIC 220PF J ELECTRO 220UF 10WV CERAMIC 56PF J MYLAR 0.011UF J MYLAR 0.039UF J ELECTRO 100UF 10WV ELECTRO 33UF 16WV LL-ELEC 4.7UF 25WV ELECTRO 1UF 50WV ELECTRO 22UF 10WV ELECTRO 10UF 16WV ELECTRO 100UF 25WV ELECTRO 470UF 16WV ELECTRO 100UF 10WV CERAMIC 0.001UF K ELECTRO 10UF 35WV CERAMIC 820PF K LL-ELEC 1UF 50WV ELECTRO 220UF 10WV		

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R25 -28 R53 R55 R56 R61			RD14GB2E330J RS14GB3A682J RD14GB2E560J RD14GB2E101J RD14GB2E100J	FL-PR00F RD 33 J 2E FL-PR00F RS 6.8K J 3A FL-PR00F RD 56 J 2E FL-PR00F RD 100 J 2E FL-PR00F RD 10 J 2E	KK	
D1 -15 D1 -15 D16 D17 Q1 -4			1S1555 1S2076 RD8. 2E(B2) RD16E(B3) 2SK163(L,M)	DIODE DIODE ZENER DIODE ZENER DIODE FET		
Q5 ,6 Q5 ,6 Q7 ,8 Q9 ,10 Q9 ,10			2SA733(A)(Q,P) 2SA999(E,F) 2SA992(F,E) 2SC232D(E,F) 2SC828A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q9 ,10 Q11 ,12 Q11 ,12 Q13 ,14 Q15 -17			2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SD655 2SC232D(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q15 -17 Q15 -17 Q18 Q18 Q19			2SC828A(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SC2003(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q20 Q20 Q20 Q21			2SC232D(E,F) 2SC828A(Q,R) 2SC945(A)(Q,P) 2SA954(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
TONE AMP (X11-1670-10)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CE04GW1H2R2M CE04GW1E4R7M CC45FSL1H220J CE04GW1E4R7M CQ93FM1H152J	LL-ELEC 2.2UF 50WV LL-ELEC 4.7UF 25WV CERAMIC 22PF J LL-ELEC 4.7UF 25WV MYLAR 1500PF J		
C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 ,20			CE04GW1H010M CQ93FM1H183J CE04GW1HR33M CQ93FM1H822J CQ93M1H154J	LL-ELEC 1.0UF 50WV MYLAR 0.018UF J LL-ELEC 0.33UF 50WV MYLAR 8200PF J MYLAR 0.15UF J		
C21 ,22 C23 ,24 C25 ,26 C27 ,28 C29 ,30			CQ93FM1H332J CQ93FM1H473J CQ93FM1H152J CQ93FM1H223J CC45FSL1H471J	MYLAR 0.0033UF J MYLAR 0.047UF J MYLAR 1500PF J MYLAR 0.022UF J CERAMIC 470PF J		
C31 ,32 C33 ,34 C35 ,36 C37 ,38 C39			CQ93FM1H822J CC45FSL1H221J CQ93FM1H332J CC45FSL1H101J CE04GW1H010M	MYLAR 8200PF J CERAMIC 220PF J MYLAR 0.0033UF J CERAMIC 100PF J LL-ELEC 1.0UF 50WV		
C40 C41 C42 C45 C46 ,47			CK45FB1H331K CE04FW1H010M CC45FSL1H101J CE04GW1H2R2M CE04FW1E100M	CERAMIC 330PF K ELECTRO 1UF 50WV CERAMIC 100PF J LL-ELEC 2.2UF 50WV ELECTRO 10UF 25WV		

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C48 ,49 C51 ,52 C53 -55 C56 C57 ,58			CE04FW1E101M CE04BW1E2R2M CE04FW1H2R2M CE04W1E220M CE04W1H2R2M	ELECTR0 100UF 25WV NP-ELEC 2.2UF 25WV ELECTR0 2.2UF 50WV ELECTR0 22UF 25WV ELECTR0 2.2UF 50WV		
C59 -62 C63 ,64 C65 ,66 C67			CE04FW1H010M CE04FW1C100M CE04FW1E101M CE04W1V101M	ELECTR0 1UF 50WV ELECTR0 10UF 16WV ELECTR0 100UF 25WV ELECTR0 100UF 35WV		
R81 ,82 R83 ,84 R131 R133 R134			RD14GB2E471J RD14GB2E560J RS14GB3A180J RD14GB2E101J RD14GB2E470J	FL-PR00F RD 470 J 2E FL-PR00F RD 56 J 2E FL-PR00F RS 18 J 3A FL-PR00F RD 100 J 2E FL-PR00F RD 47 J 2E		
VR1 -7 VR11,12 VR13,14			R29-3004-05 R12-3302-05 R12-2302-05	VARIABLE RESISTOR (PUSH TYPE) SEMI FIXED VARIABLE RESISTOR SEMI FIXED VARIABLE RESISTOR		
D1 ,2 D3 -7 D3 -7 D11 -16 D11 -16			RD8.2E(B2) 1S1555 1S2076 1S1555 1S2076	ZENER DIODE DIODE DIODE DIODE DIODE		
D17 -20 D21 -23 D21 -23 FL1 IC1 ,2			1N60 1S1555 1S2076 FIP24A15YS AN6551	DIODE DIODE DIODE FLUORESCENT INDICATOR TUBE IC		
IC3 IC4 ,5 Q1 -16 Q1 -16 Q17			MB84066BM BA65B 2SC1845(F,E) 2SC1980(S,T) 2SC2320(E,F)	IC IC TRANSISTOR TRANSISTOR TRANSISTOR		
Q17 Q17 Q18 Q18 Q21 -24			2SC828A(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SC2320(E,F)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q21 -24 Q21 -24 Q25 Q25 Q26 ,27			2SC828A(Q,R) 2SC945(A)(Q,P) 2SA733(A)(Q,P) 2SA999(E,F) 2SK105(H,J)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET		
Q28 Q28 Q29 Q30 Q30			2SA733(A)(Q,P) 2SA999(E,F) 2SC2003(L,K) 2SC2320(E,F) 2SC828A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q30			2SC945(A)(Q,P)	TRANSISTOR		
SPEAKER (X13-3150-10)						
C1 ,2 4D1 RL1	1C		CK45F1H103Z E20-0812-05 SS1-2049-05	CERAMIC 0.01UF Z TERMINAL BOARD(SPEAKERS) MAGNETIC RELAY		

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D1 -33		25C945(A)(Q.P)	TRANSISTOR	
D1 -33		25A723(A)(Q.P)	TRANSISTOR	
D34 -38		25A999(E.F)	TRANSISTOR	
D39		25C2320(E.F)	TRANSISTOR	
D39		25C928(A)(Q.R)	TRANSISTOR	
D39		25C945(A)(Q.P)	TRANSISTOR	
D40 +41		25A723(A)(Q.P)	TRANSISTOR	
D42 +43		25A999(E.F)	TRANSISTOR	
D44 -65		25K105(H.J)	FET	
D44 -65		25D592(NC)	TRANSISTOR	
D44 -65		25D863	TRANSISTOR	
D46		25D330	TRANSISTOR	
D67		25D313V-AL	TRANSISTOR	
D68		25S514	TRANSISTOR	
D69		25B764	TRANSISTOR	
FL1 -6		PUSH BUTTON (X13-3230-10)		
S1 -57		B30-0300-05	LAMP	
S58 -62		S40-1033-05	PUSH SWITCH	
D1		S40-2111-05	PUSH SWITCH	
D1		1S1555	DIODE	
D2 -4		1S2076	DIODE	
D2 -4		1S1555	DIODE	
D10		1S1555	DIODE	
D10		1S2076	DIODE	
C1		BUZZER (X13-4300-10)		
C1		CE04FM1H010M	ELECTR8	50MV
C2		CE04FM1H010M	ELECTR8	50MV
C3		CE03FM1H103J	MYLAR	0.010UF
C3		CE03FM1H103J	MYLAR	0.010UF
C3		CE03FM1H223J	MYLAR	0.022UF
C4		CE04FM1H223J	NP-ELEC	1.0UF
C4		CE04FM1H010M	NP-ELEC	1.0UF
C5		CE04FM1H010M	CERAMIC	0.01UF
C5		CK45FF1H103Z	CERAMIC	0.01UF
C5		CK45FF1H103Z	CERAMIC	0.01UF
C7		CE04FM1E220M	ELECTR8	25MV
C7		CE04FM1E220M	ELECTR8	25MV
C8		CK45FF1H103Z	CERAMIC	0.01UF
C8		CK45FF1H103Z	CERAMIC	0.01UF
C9		CE04FM1H010M	ELECTR8	50MV
C9		CE04FM1H010M	ELECTR8	50MV
L1		L40-1011-46	SMALL FIXED INDUCTOR	
L1		L40-1011-46	SMALL FIXED INDUCTOR	
BZ1		T95-0016-05	PIEZOELECTRIC VIBRATOR	
BZ1		T95-0016-05	PIEZOELECTRIC VIBRATOR	
D1 -12		1S1555	DIODE	
D1 -12		1S1555	DIODE	
D1 -12		1S2076	DIODE	
D1 -12		1S2076	DIODE	
IC1		TC4011BP	IC	

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RL2 +3		SS1-2048-05	MAGNETIC RELAY	
RL4		SS1-2048-05	MAGNETIC RELAY	
D1 -3		W05B	DIODE	
FL1 -21		SWITCH (X13-3160-10)		
C1 -2		B30-0298-05	LAMP	
C3 -4		C093FM1H022M	MYLAR	0.0033UF
C5 -6		C093FM1H022M	LL-ELEC	0.22UF
C7 -10		C093FM1H022M	MYLAR	0.027UF
C15		CE04FM1H010M	ELECTR8	1UF
C16 +17		CE04FM1H010M	LL-ELEC	10UF
C20 -23		CE04FM1H010M	ELECTR8	10UF
		CK45FF1H103Z	CERAMIC	0.047UF
		REC/PLAY JACK	REC/PLAY JACK	
		PHONO JACK	PHONO JACK	
R79 +80		E06-0513-05	FL-PR08F RS 47	J 3A
R100+101		RC05GF2H471K	RC	470
VR1		R06-5074-15	VARIBLE RESISTOR(BALANCE)	J K 2H
RL1		SS1-2050-05	REED RELAY	
D1 +2		1N60	DIODE	
D3 +4		1S2076	DIODE	
D7 -17		1N60	DIODE	
D18		1S2076	DIODE	
D19		1S2076	DIODE	
D20 -43		1N60	DIODE	
D44		R06-2E(B2)	ZENER DIODE	
D45		R04-1E(B2)	ZENER DIODE	
D46 -56		1S2076	DIODE	
D59 -61		R06-2E(B3)	ZENER DIODE	
D62 -70		R06-2E(B2)	ZENER DIODE	
D71 -77		1S2076	DIODE	
D71 -77		1S2076	DIODE	
IC1		HD14052BP	IC	
IC2		MB84066BM	IC	
IC3		MB84066BM	IC	
IC3		TC4052UBP	IC	
IC4		UPD4052BC	IC	
IC4		TC4555UBP	IC	
IC5 -9		UPD4053BC	IC	
IC10		MB84066BM	IC	
IC10		TC4059UBP	IC	
IC11-13		UPD4059UBC	IC	
IC14		MB84066BM	IC	
IC14		AN6552	IC	
IC14		WPC4557C	IC	
D1 -33		25C2320(E.F)	TRANSISTOR	
D1 -33		25C928(A)(Q.R)	TRANSISTOR	

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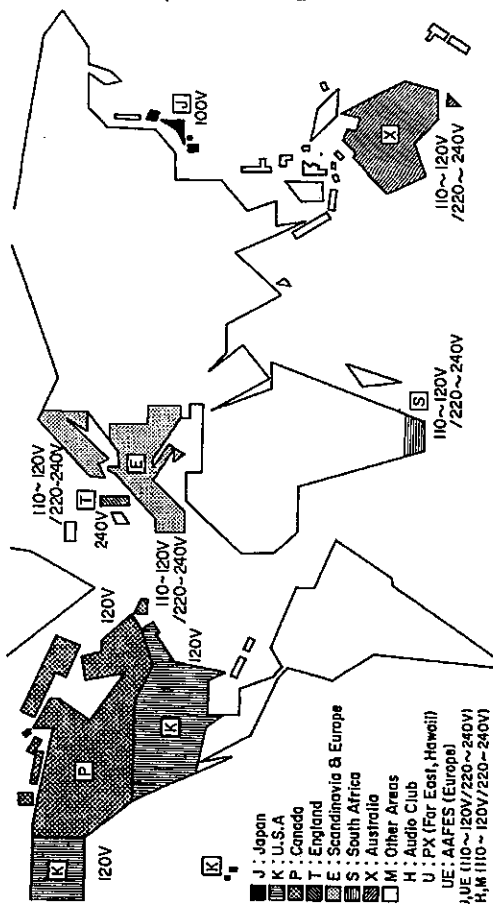
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IC1		TC4011BP	IC	E, K, U, E
IC1		UPD4011BC	IC	E, K, U, E
Q1		2SA733(A) (Q, P)	TRANSISTOR	E, K, U, E
Q1		2SA733(A) (Q, P)	TRANSISTOR	E, K, U, E
Q1		2SA999(E, F)	TRANSISTOR	K, U, E
Q2		2SA733(E, F)	TRANSISTOR	E, K, U, E
Q2		2SC232Q(E, F)	TRANSISTOR	E, K, U, E
Q2		2SC945(A) (Q, P)	TRANSISTOR	E, K, U, E
Q2		2SC945(A) (Q, P)	TRANSISTOR	E

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WORLD MAP & AREA CODE



Notes:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S. (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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