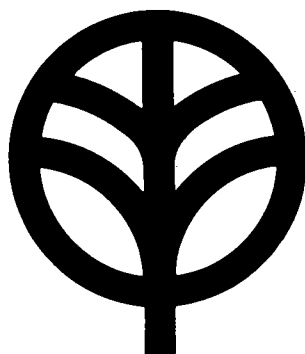




KENWOOD
HI/FI STEREO COMPONENTS

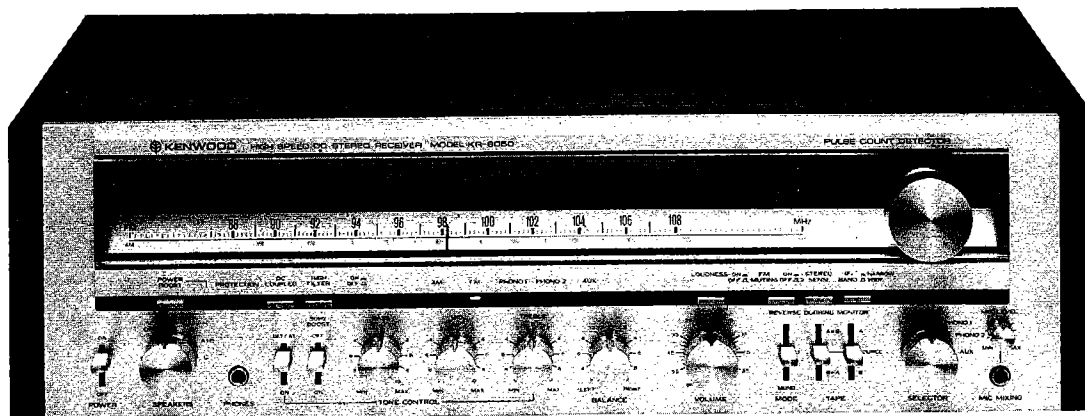
SERVICE MANUAL

KR-8050 (KR-8850)

An item of adjustment is written in three languages — English, French and German.

Un article sur réglages est écrit en trois langues, Anglais, Français et Allemand.

Ein Artikel der Abgleich wird auf drei Sprachen, Englische, Französisch und Deutsch geschrieben.



HIGH SPEED DC STEREO RECEIVER

CONTENTS

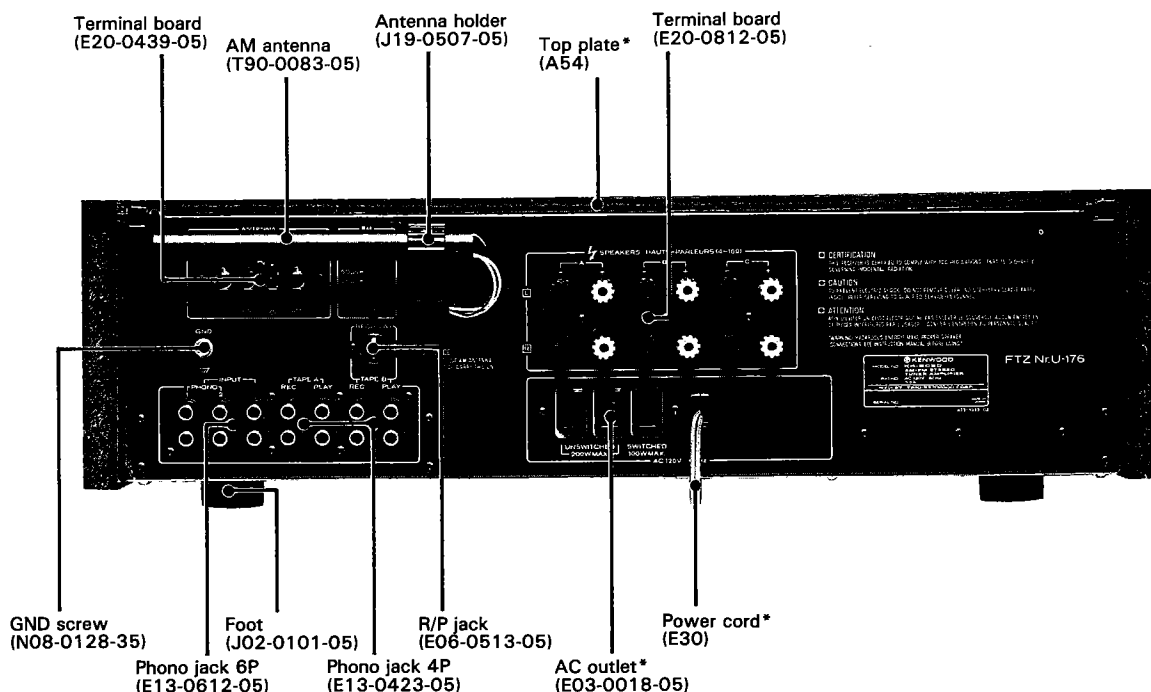
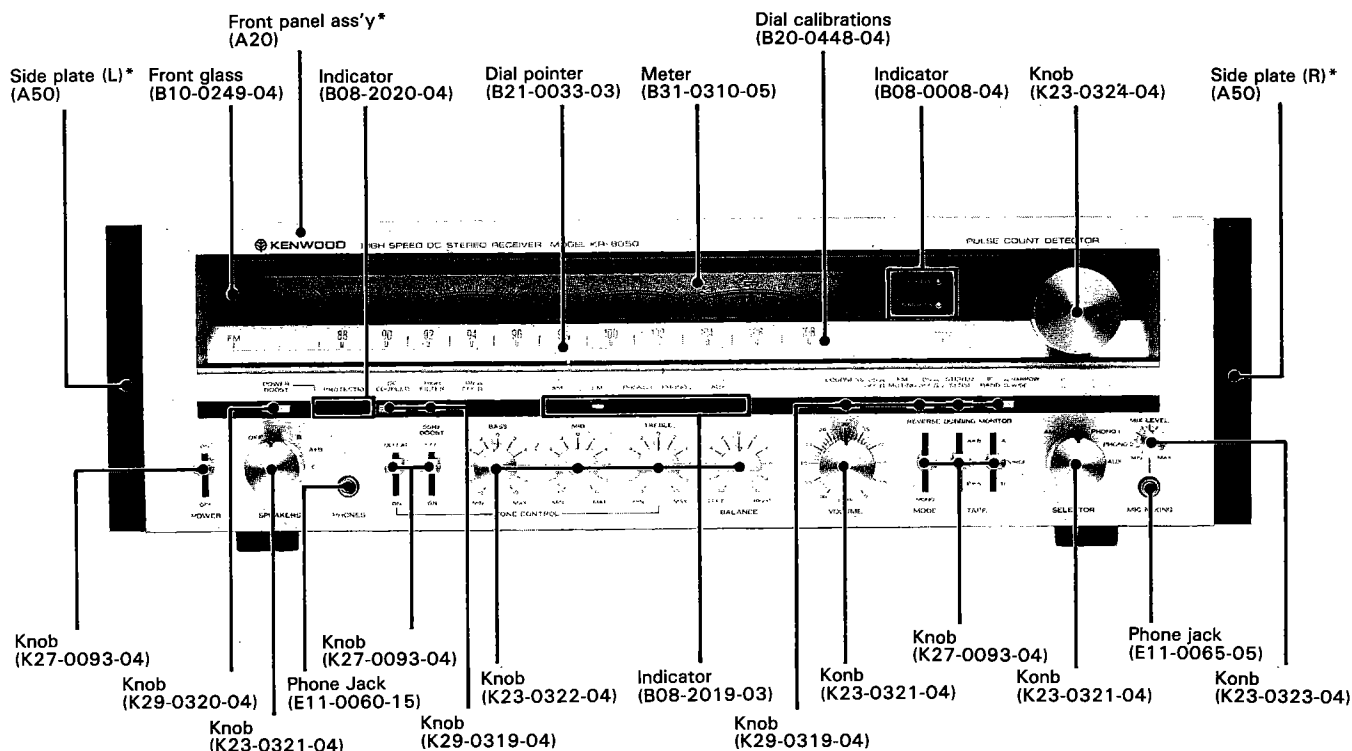
EXTERNAL VIEW	3
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Note:

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.

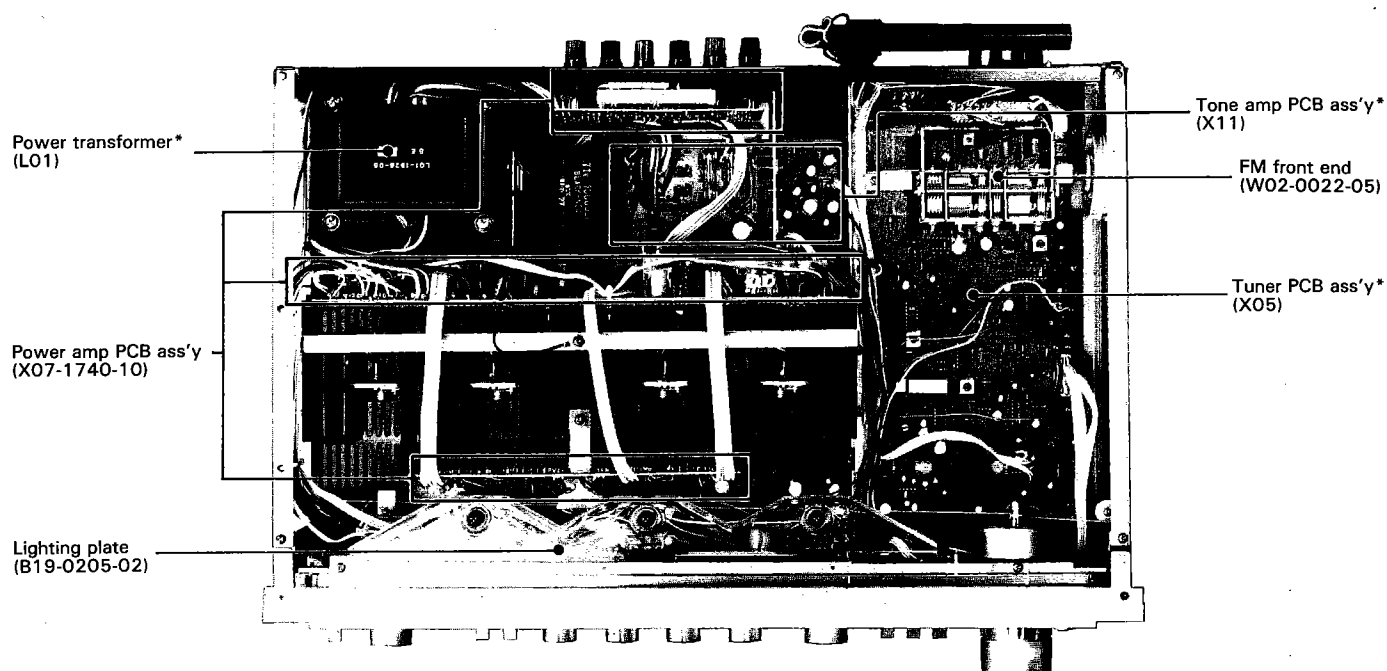
Region	Code
U.S.A.	K
Canada	P
PX	U
Australia	X
Europe & Scandinavia	E
England	T
Other Areas	M
Audio Club (KR-8850)	H

EXTERNAL VIEW



* Refer to Parts List.

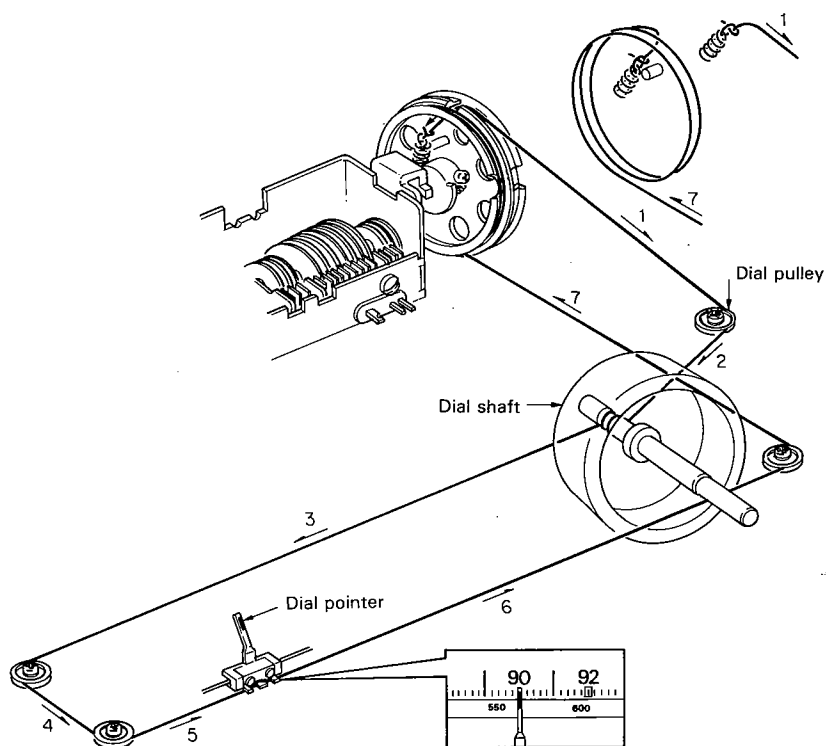
INTERNAL VIEW / DIAL CORD STRINGING



* Refer to Parts List.

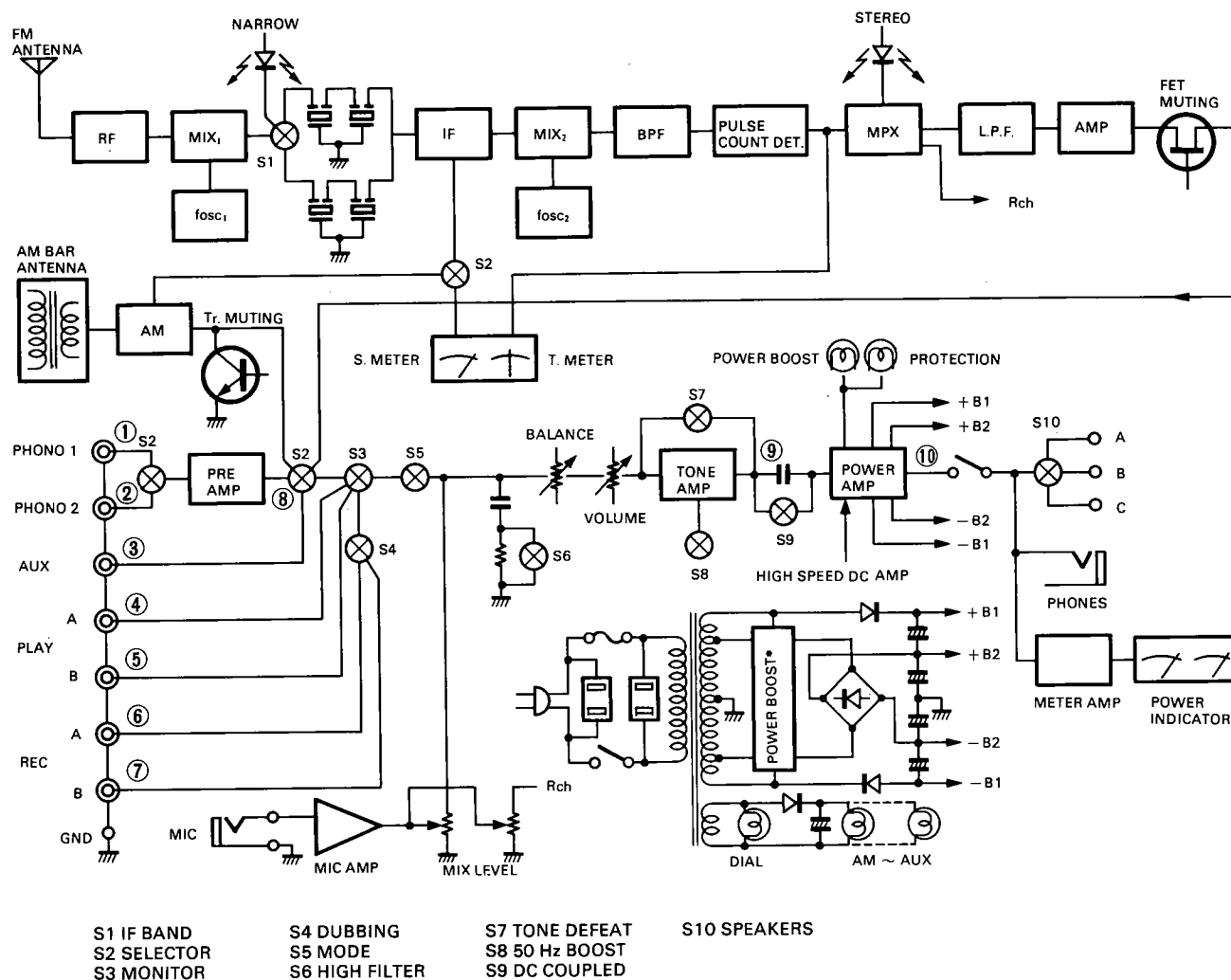
DIAL CORD STRINGING

1. Set the dial pulley as illustrated.
2. Tie the dial cord to the dial spring.
3. Hook the dial spring on the boss A.
4. Dress the dial cord in the direction of "1" to "2".
5. Wind the dial cord two turns around the dial shaft starting from its lower side.
6. Dress the dial cord in the direction of "3" through "7".
7. Wind the dial cord two and a half turns around the dial pulley starting from its lower side.
8. Tie the end of the dial cord to the dial spring.
9. Remove the dial spring from the boss A.
10. Receive a 90 MHz signal, and then mount the dial pointer at the 90 MHz position of the dial calibrations.

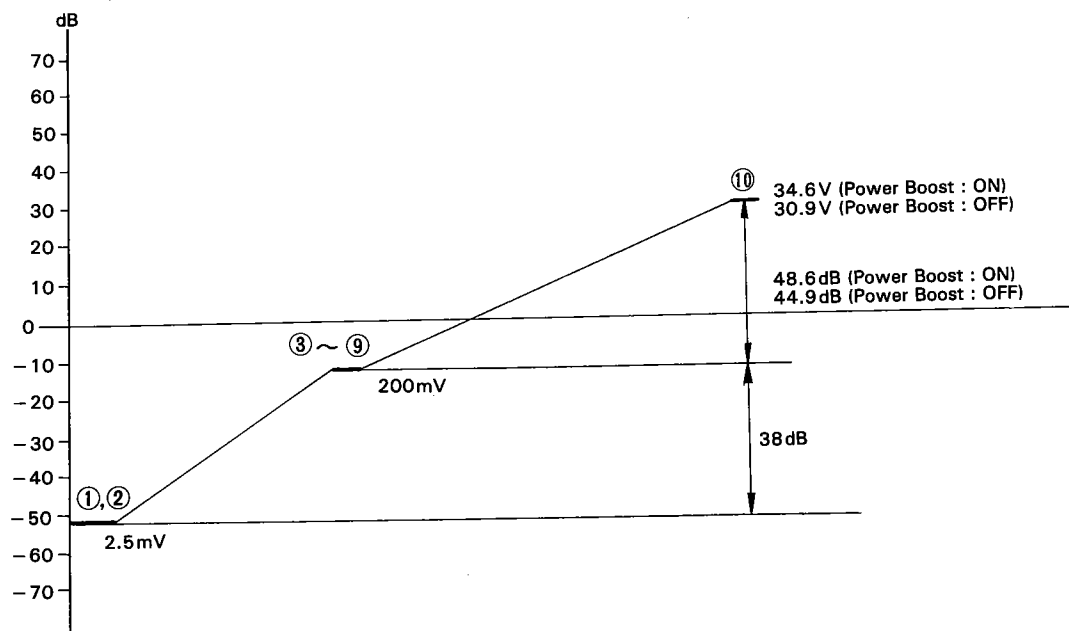


BLOCK & LEVEL DIAGRAM

BLOCK DIAGRAM



LEVEL DIAGRAM



ADJUSTMENT (AMP)/RÉGLAGES (AMPLI)/ABGLEICH (VERSTÄRKER)

1. OFFSET VOLTAGE

- (1) Set the SPEAKERS switch to A and the VOLUME to MIN.
- (2) Connect a DC voltmeter to the SPEAKERS A terminals.
- (3) Adjust VR1 (VR2) for a 0 V reading of the DC voltmeter.

2. BIAS CURRENT

- (1) Set the VOLUME to MIN.
- (2) Connect the DC voltmeter between the emitters of Q23 and Q25. (Q24 and Q26)
- (3) Adjust VR3 (VR4) for an 17.6 mV reading of the DC voltmeter.

1. TENSION DE DÉCALAGE (OFFSET)

- (1) Régler SPEAKERS interrupteur au A et VOLUME au MIN.
- (2) Brancher le voltmètre de C.C. aux bornes de sortie + et -.
- (3) Régler VR1 (VR2) de façon à ce que le voltmètre de C.C. indique 0 V.

2. COURANT DE DEPLACEMENT

- (1) Régler VOLUME au MIN.
- (2) Brancher le voltmètre de C.C. sur l'émetteur de Q23 et Q25. (Q24 et Q26)
- (3) Régler VR3 (VR4) de façon à ce que le voltmètre de C.C. indique 17,6 mV.

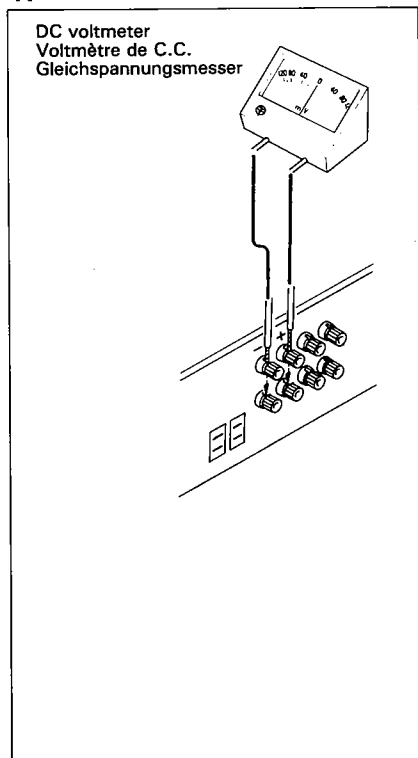
1. OFFSET-SPANNUNG

- (1) Den Schalter SPEAKERS auf A und den VOLUME auf MIN einstellen.
- (2) Einen Gleichspannungsmesser an die Klemmen SPEAKERS A anschließen.
- (3) Den VR1 (VR2) so regulieren, daß die Gleichspannungsmesser-Ablesung 0 V ist.

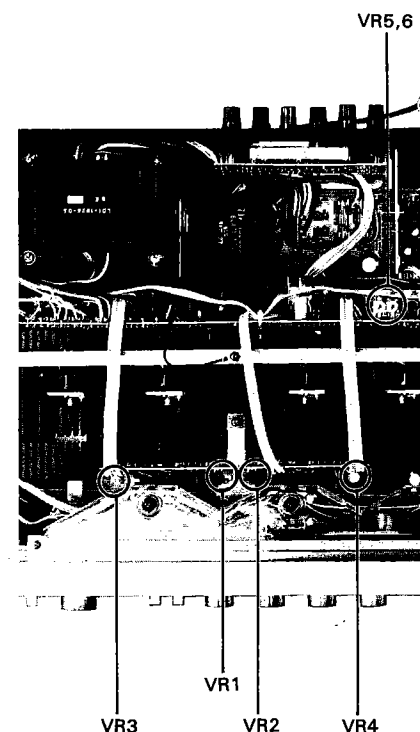
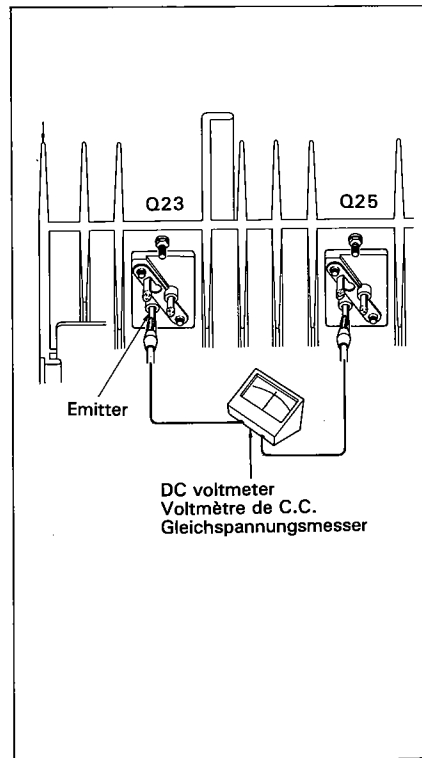
2. LEERLAUFSTROM

- (1) Den VOLUME auf MIN einstellen.
- (2) Den Gleichspannungsmesser zwischen der Emitter von Q23 und der Emitter von Q25. (Q24 und Q26).
- (3) Den VR3 (VR4) so regulieren, daß die Gleichspannungsmesser-Ablesung 17,6 mV ist.

1.



2.



ADJUSTMENT (AMP)/RÉGLAGES (AMPLI)/ABGLEICH (VERSTÄRKER)

3. POWER METER

- (1) Set the TAPE switch to A PLAY and the SPEAKERS switch to A.
- (2) Connect an AG to the TAPE A jack and a dummy load to the SPEAKERS A terminals.
- (3) Connect an AC voltmeter across the dummy load.
- (4) Set the AG to 1 kHz and for a 4.9 V reading of the AC voltmeter.
- (5) Adjust VR5(VR6) for a 3 W reading of the left power meter (right power meter).

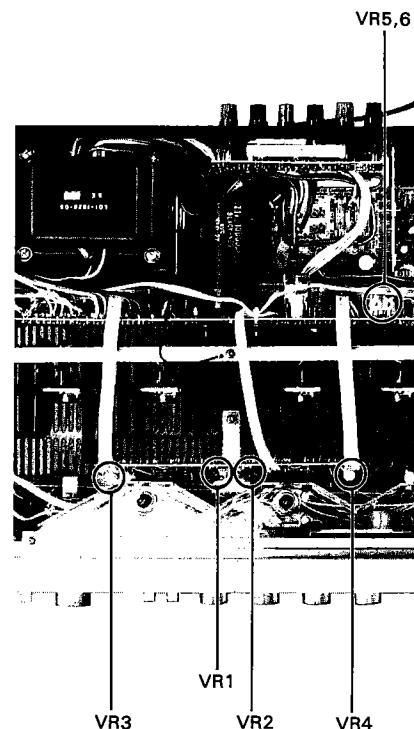
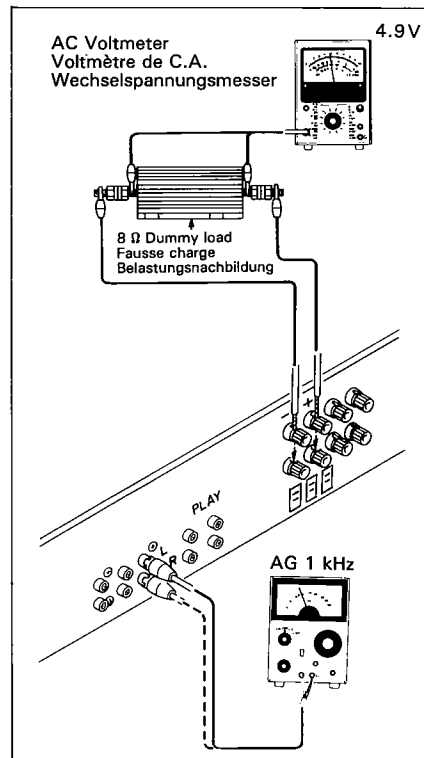
3. VU MÈTRE

- (1) Régler TAPE interrupteur au A PLAY et SPEAKER interrupteur au A.
- (2) Relier un AG (générateur de signaux audio) sur les TAPE A et une fausse charge (résistance) sur les sortie de ampli-tuner (SPEAKER).
- (3) Relier un voltmètre de C.A. aux deux extrémités de la résistance (ou aux borne de sortie + et -).
- (4) Régler le potentiomètre ajustable VR5 (VR6) en sortie que le VU mètre indique 3 W lorsque le voltmètre indique 4,9 V.

3. LEISTUNGSMESSE (POWER METER)

- (1) Den Schalter TAPE auf A PLAY und den Schalter SPEAKERS auf A einstellen.
- (2) Einen AG (NF-Signalgenerator) an die Buchse TAPE A und eine Belastungsnachbildung an die klemmen SPEAKERS A anschließen.
- (3) Einen Wechselspannungsmesser über die Belastungsnachbildung anschließen.
- (4) Den AG auf 1 kHz einstellen.
- (5) Die Lautstärkeregler (VOLUME) und/oder den AG-Ausgang so einstellen, daß die Wechselspannungsmesser-Ablesung 4,9 V ist.
- (6) Den VR5 (VR6) so regulieren, daß die linke Leistungsmesser-Ablesung (rechte Leistungsmesser-Ablesung) 3 W ist.

3.



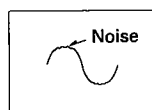
ADJUSTMENT (TUNER)

Set MUTING switch to OFF, MODE switch to STEREO.

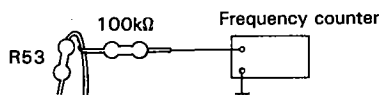
NO.	ALIGNMENT	TEST EQUIPMENTS		RECEIVER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
FM							
1a	T METER (1)	Ⓐ	95MHz 1kHz, ± 150kHz Dev 40dB (Receiver input)	95MHZ NARROW	Ⓑ	—	* 1
1b	T METER (2)	ditto	Same as above except set receiver input level to 80dB.	95MHZ WIDE	T meter	L3	T meter pointer to be center.
2	VCO	ditto	95MHz 0 Dev 60dB (Receiver input)	ditto	Frequency counter to the crosspoint of R53 and VR2 via a 100kΩ resistor. *2	VR2	76kHz ± 76Hz
3	STEREO SENSITIVITY	Ⓒ	95MHz, 1kHz ± 68.25kHz Dev SELECTOR: L or R Pilot: ON (± 6.75kHz Dev) 20dB (Receiver input)	ditto	STEREO indicator	VR1	LED lights
4	PILOT CANCEL	ditto	95MHz 60dB (Receiver input) Pilot: ON (± 6.75kHz Dev)	ditto	Ⓑ	VR3	Minimum output
5	IFT	ditto	95MHz, 1kHz ± 68.25kHz Dev SELECTOR: L or R Pilot: ON (± 6.75kHz Dev) 60dB (Receiver input)	ditto	ditto	T1 (W02-0022-05)	Minimum distortion
6	SEPARATION	ditto	ditto	ditto	ditto	VR4	* 3
AM							
①	IFT	Ⓓ	1,000kHz 400Hz, 30% Mod	1,000kHz	Ⓑ	L15	Maximum deflection
②	TRACKING (1)	ditto	600kHz 400Hz, 30% Mod	600kHz	ditto	L14 AM antenna	ditto
③	TRACKING (2)	ditto	1,400kHz 400Hz, 30% Mod	1,400kHz	ditto	TC1, TC2	ditto
④	9kHz FILTER	ditto	1,000kHz 9kHz, 30% Mod	1,000kHz	ditto	L17	Minimum deflection

* 1

Adjust the tuning knob so that the same amount of noise is observed at the top and bottom of the output waveform with a weak signal.



* 2



* 3 Minimum output

A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.

* 4 FM front end

The FM front end section is completely adjusted in the factory and further adjustment is not necessary. When the transistor and/or FET are replaced, perform the following adjustment.

- (1) Set FM-SG to 108 MHz, 1 kHz Mod, $\pm 75\text{ kHz}$ Dev and connect it to the antenna terminal of the receiver.
- (2) Set the dial pointer at 108 MHz.
- (3) Adjust TCO so that T meter gives a mid-scale reading.
- (4) Adjust TCA, TCR1 and TCR2 so that S meter deflects maximum.

When the FM front end section cannot be repaired by replacing semiconductors and taking steps in "(1)~(4)", replace the front end PCB ass'y (W02-0022-05) and do the following.

- (1) Set FM-SG to 90 MHz, 1 kHz Mod, $\pm 75\text{ kHz}$, 60 dB and connect it to the antenna terminal of the receiver.
- (2) Receive the FM-SG signal.
- (3) Fix the dial pointer at 90 MHz.

* 5 Adjustment of the Second Oscillator (L6)

L6 needs no adjustment. When it is replaced with a new one, it should be adjusted as follows.

First, tune the tuner to a 95 MHz non-modulated signal, and measure the first IF frequency of the pin 1 of IC 2 by a frequency counter. Next, adjust L6 so that the second IF frequency of the connecting point of L8 and R45 is " $\frac{9}{49} \times$ the first IF frequency".

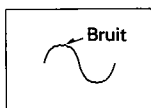
RÉGLAGES (TUNER)

Placer le MUTING dans la position OFF et MODE sur STÉRÉO.

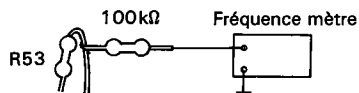
N°	ALIGNEMENT	APPAREILLAGE		RÉGLAGE DU AMPLI-TUNER	INDICATEUR DE SORTIE	POINTS DE RÉGLAGES	REMARQUES
		RACCORDEMENT	RÉGLAGE				
SECTION MF							
1a	INDICATEUR À ZÉRO CENTRAL(1)	Ⓐ	95MHz 1kHz ± 150kHz DÉV 40dB (Niveau d'entrée du ampli-tuner)	95MHz NARROW	Ⓑ	—	* 1
1b	INDICATEUR À ZÉRO CENTRAL(2)	idem	95MHz 1kHz, ± 150kHz DÉV 80dB (Niveau d'entrée du ampli-tuner)	95MHz WIDE	Indicateur à zéro central	L3	Aiguille de l'indicateur à zéro central en position centrale.
2	OSCILLA-TEUR 76kHz	idem	95MHz 0 DÉV 60dB (Niveau d'entrée du ampli-tuner)	idem	Relier le volt-mètre CC au plot R53 et VR2 par la resistance 100kΩ. *2	VR2	76kHz ± 76Hz
3	STEREO SENSIBILITY	Ⓒ	95MHz 1kHz, ± 68,25kHz DÉV SELECTION:L ou R Signal pilote (± 6,75kHz DÉV) 20 dB (Niveau d'entrée du ampli-tuner)	idem	Indicateur à STEREO	VR1	LED s'allument
4	CIRCUIT SUPPRESSION DE SIGNAL PILOTE	idem	95MHz Signal pilote (± 6,75kHz DÉV) 60dB (Niveau d'entrée du ampli-tuner)	idem	Ⓑ	VR3	Déviaton minimale
5	TEI	idem	95MHz 1kHz, ± 68,25kHz DÉV SELECTION: L ou R Signal pilote (± 6,75 kHz DÉV) 60 dB (Niveau d'entrée du ampli-tuner)	idem	idem	T1 (W02-0022-05)	Distorsion minimale
6	SÉPARATION	idem	idem	idem	idem	VR4	* 3
SECTION MA							
①	TFI	Ⓓ	1.000kHz 400Hz, 30% (MOD)	1.000kHz	Ⓑ	L15	Déviaton maximale
②	ALIGNEMENT (1)	idem	600kHz 400Hz, 30% (MOD)	600kHz	idem	L14 Antenne ferrite MA	idem
③	ALIGNEMENT (2)	idem	1.400kHz 400Hz, 30% (MOD)	1.400kHz	idem	TC1, TC2	idem
④	FILTRE 9kHz	idem	1.000kHz 9kHz, 30% (MOD)	1.000kHz	idem	L17	Déviaton minimale

* 1

Ajuster le bouton d'accord de façon que la même quantité du bruit puisse être observé au sommet et en bas de la forme d'onde de sortie sous des conditions d'alimentation de signal faible.



* 2



* 3 Sortie minimale

Si la sortie la droite de diaphonie et la gauche ne sont pas la même, régler le potentiomètre ajustable pour que la tension de sortie est la même.

* 4 Partie frontale FM

La partie frontale FM a été parfaitement réglée en usine et aucun réglage supplémentaire n'est requis.

Si l'on remplace le transistor et/ou FET, il convient d'effectuer le réglage suivant:

- (1) Régler FM-SG sur 108 MHz, 1 kHz Mod, $\pm$ 75 kHz Dev et connecter à la borne d'antenne du ampli-tuner.
- (2) Régler l'aiguille du cadran à 108 MHz.
- (3) Ajuster TCO de façon que l'indicateur à zéro central donne une lecture à mi-échelle.
- (4) Ajuster TCA, TCR1 et TCR2 de façon que l'indicateur de champ dévie au maximum.

Si la partie frontale FM ne peut pas être réparée en remplaçant les semi-conducteurs et en procédant suivant les indications dans (1) ~ (4), remplacer l'assemblage PCB de la partie frontale (W02-0022-05) et effectuer les opérations suivantes:

- (1) Régler FM-SG à 90 MHz, 1 kHz Mod, $\pm$ 75 kHz, 60 dB et le connecter à la borne d'antenne du récepteur.
- (2) Recevoir le signal FM-SG.
- (3) Fixer l'aiguille du cadran à 90 MHz.

* 5 Ajustement du deuxième oscillateur (L6)

Le L6 n'a pas besoin d'être réglé. Lorsqu'il doit être remplacé par un neuf, procéder au réglage comme il suit: Accorder d'abord le tuner à un signal non modulé de 95 MHz, et mesurer la première fréquence FI de l'extrémité 1 de IC 2 à l'aide d'un compteur de fréquence. Ensuite, ajuster L6 de façon que la deuxième fréquence FI du point de connexion de L8 et R45 soit $\frac{9}{49} \times$ première fréquence FI"

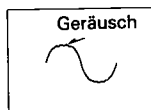
ABGLEICH (EMPFÄNGER)

Steht der MUTING-Umschalter auf Stellung OFF und der Mode-Umschalter auf Stellung STEREO.

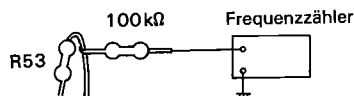
NR.	ABGLEICH	PRÜFEINRICHTUNG		STEUERGERÄT EINSTELLUNG	AUSGANGS- ANZEIGE	EINSTELL- PUNKT	BEMER- KUNGEN
		ANSCHLÜSSE	EINSTELLUNG				
UKW-EMPFANGSABTEILUNG							
1a	KANALMITTEN- ANZEIGER (1)	Ⓐ	95MHz, 1kHz ± 150kHz Hub 40dB (Empfänger- Eingangsspegel)	95MHz NARROW	Ⓑ	—	* 1
1b	KANALMITTEN- ANZEIGER (2)	dito	95MHz, 1kHz ± 150kHz Hub 80dB (Empfänger- Eingangsspegel)	95MHz WIDE	Kanalmitten- anzeiger	L3	Den zeiger des Kanalmitten- anzeiger mittig einstellen
2	SPANNUNGS- GEREGELTER OSZILLATOR	dito	95MHz 0 Hub 60dB (Empfänger- Eingangsspegel)	dito	Frequenzzähler zum Krenzungspunkt von R53 und VR2 via ein 100kΩ Widerstand	VR2	76kHz ± 76Hz
3	STEREO EMPFINDUNGS- FÄHIGKEIT	Ⓒ	95MHz, 1kHz ± 68,25kHz Hub Wähler: L oder R Piloton (± 6,75kHz Hub) 20dB (Empfänger- Eingangsspegel)	dito	STEREO Indikator	VR1	LED leuchte auf
4	PILOTTON- UNTER- DRÜCKUNG	dito	95MHz Piloton (± 6,75kHz Hub) 60dB (Empfänger- Eingangsspegel)	dito	Ⓑ	VR3	Minimaler Ausschlag
5	ZF-T	dito	95MHz, 1kHz ± 68,25kHz Hub Wähler: L oder R Piloton (± 6,75kHz Hub) 60dB (Empfänger- Eingangsspegel)	dito	dito	T1 (W02-0022-05)	Minimaler Klirrfaktor
6	STEREO KANAL TRENNUNG	dito	dito	dito	dito	VR4	* 3
MW-EMPFANGSABTEILUNG							
①	ZF-T	Ⓓ	1.000kHz 400Hz, 30% Mod	1.000kHz	Ⓑ	L15	Maximaler Ausschlag
②	EMPFANGS- BEREICH (1)	dito	600kHz 400Hz, 30% Mod	600kHz	dito	L14 MW-Ferritantenna	dito
③	EMPFANGS- BEREICH (2)	dito	1.400kHz 400Hz, 30% Mod	1.400kHz	dito	TC1, TC2	dito
④	9kHz FILTER	dito	1.000kHz, 9kHz 30% Modulation	1.000kHz	dito	L17	Minimaler Ausschlag

1

Den Abstimmknopf so einstellen, daß an der oberen und unteren Grenze der Ausgangswellenform bei schwachem Signal dasselbe Geräusch auftritt.



* 2



* 3 Minimaler Ausschlag

Wenn dem Übersprechanteil des linken Kanals in den rechten Kanal und dem Übersprechanteil des rechten Kanals in den linken Kanal ungleich sind, eine kompromißabgleichung wird gefordert.

* 4 UKW-Frontende

Das UKW-Frontende wird bereits im Werk vollständig eingestellt. Weitere Einstellung ist daher nicht nötig. Beim Auswechseln des Transistors und/oder des FETs die Einstellung wie folgt vornehmen.

(1) Den UKW-Signalgenerator auf 108 MHz, 1 kHz Modulation und ± 75 kHz Hub einstellen und mit der Antennenklemme des steuergeräts verbinden.

(2) Den Skalenzeiger auf 108 MHz stellen.

(3) TCO so einstellen, daß der Kanalmitten-anzeiger in der Mitte ausschlägt.

(4) TCA, TCR1 und TCR2 so einstellen, daß das Feldstärkeinstrument das Maximum anzeigt.

Wenn das UKW-Frontende durch Auswechseln der Halbleiter und/oder durch in Abschnitt "1~4" genannten Schritte nicht repariert werden kann, ist die Leiterplatte (W02-0022-05) des Frontendes auszuwechseln und folgende Einstellung vorzunehmen:

(1) Den UKW-Signalgenerator auf 90 MHz, 1 kHz Modulation ± 75 kHz Hub, und 60 dB einstellen und mit der Antennenklemme des Steuergeräts verbinden.

(2) Den Steuergeräts so einstellen, daß das Meßsendersignal empfangen wird, während der Skalenzeiger auf 90 MHz zeigt.

* 5 Einstellung des zweiten Oszillators (L6)

L6 braucht nicht eingestellt zu werden. Beim Auswechseln die Einstellung wie folgt vornehmen. Zunächst den Tuner auf ein nichtmoduliertes 95 MHz Signal einstellen. Dann die erste ZF des stifts 1 von IC2 mit einem Frequenzzähler messen. Schließlich L6 so einstellen, daß die zweite ZF des Verbindungspunkts von L8 und R45 dem Produkt aus $\frac{9}{48}$ und der ersten ZF entspricht.

ADJUSTMENT (TUNER)/RÉGLAGES (TUNER)/ABGLEICH (EMPFÄNGER)

TEST INSTRUMENTS

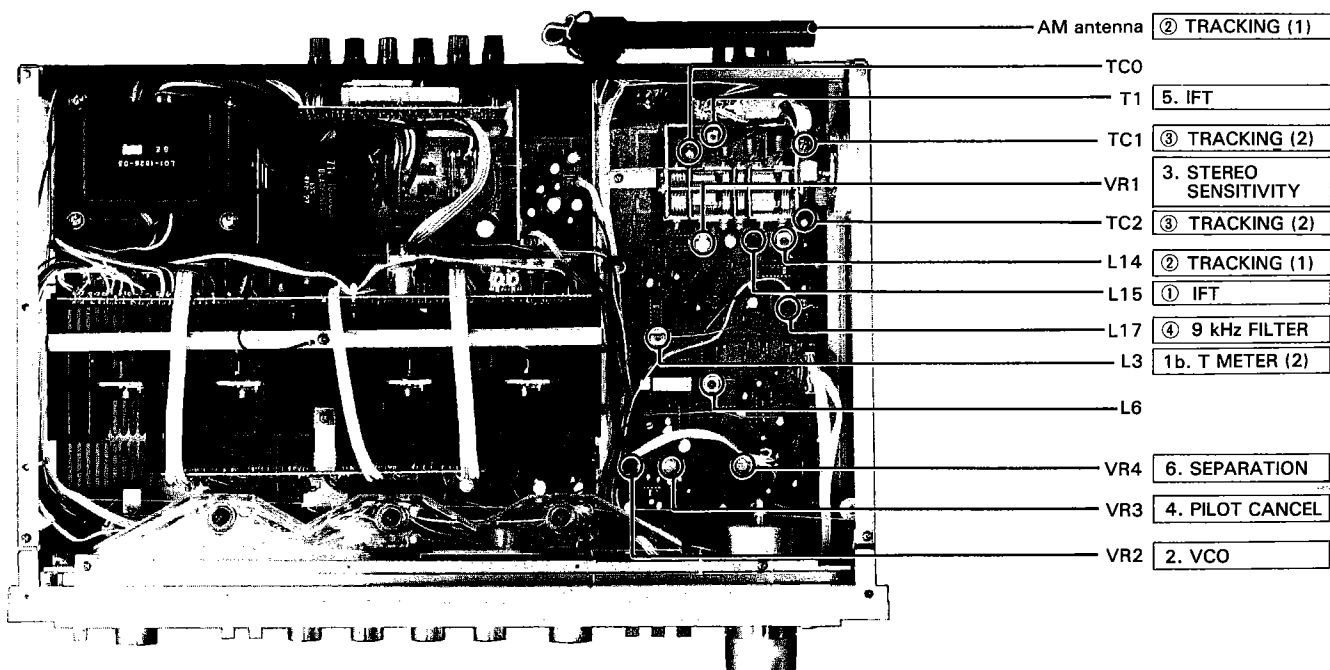
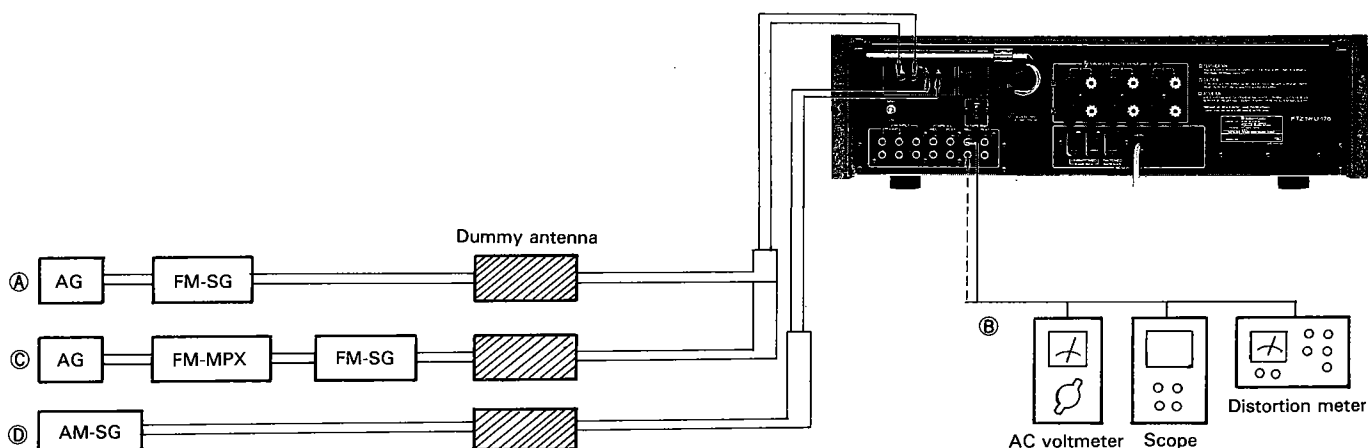
Oscilloscope
 AM signal generator
 FM signal generator
 Audio generator
 AC voltmeter
 FM multiplex generator
 Frequency counter
 DC voltmeter
 Distortion meter
 Dummy antenna

APPAREILLAGE

Oscilloscope
 Générateur MA
 Générateur MF
 Générateur audio fréquences.
 Voltmètre CA
 Générateur multiplex stéréo
 Fréquence-mètre
 Voltmètre CC
 Distorsiomètre
 Antenne fictive

PRÜFINSTRUMENTE

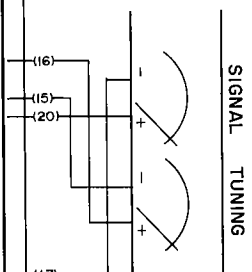
Oszilloskop SCOPE
 MW-Signalgenerator AM-SG
 UKW-Signalgenerator FM-SG
 NF-Signalgenerator AG
 Wechselspannungsmesser
 UKW-Multiplexgenerator FM-MPX
 Frequenzzähler
 Gleichspannungsmesser
 Klirrfaktormesser
 Antennennachbildung



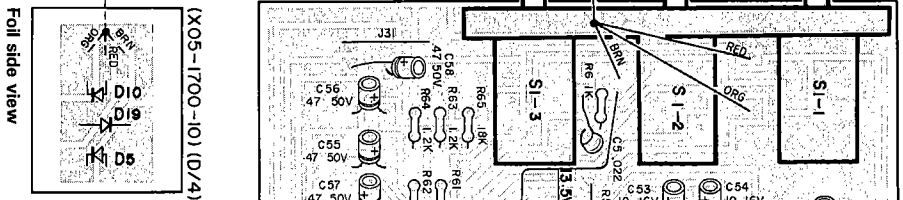
PC BOARD

PC BOARD

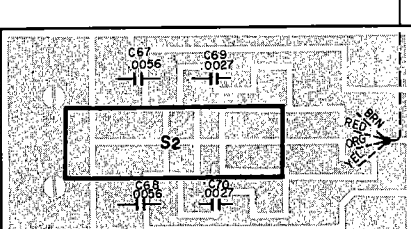
ER (X05-1700-10)



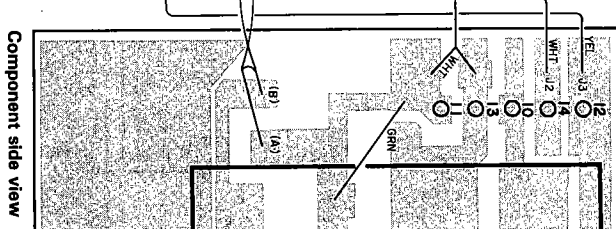
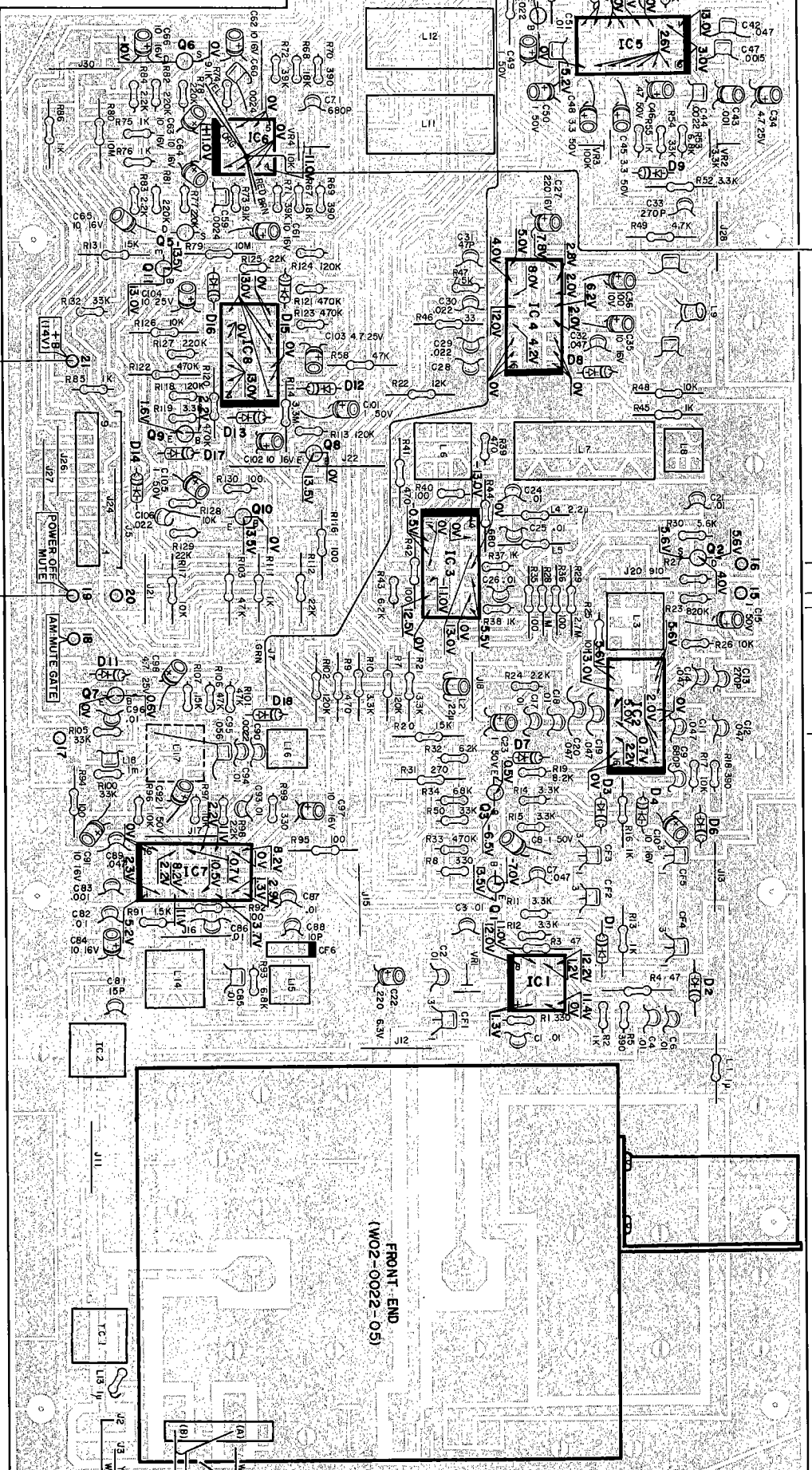
Component side view
(X05-1700-10) (A/4)



Foil side view
(X05-1700-10) (C/4)



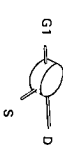
(X05-1700-10) (B/4)



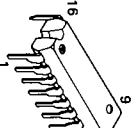
Component side view

- Q1,11 : 2SA733(A)(Q,P) or 2SA564A (Q,R,S)
Q2 : 2SK163 (N) or 2SK136 (S)
Q3,4,7~10: 2SC945 (Q,P) or 2SC828A (Q,R)
5,6 : 2SK136 (R,S) or 2SK163 (L,M,N)
IC1 : LA1222
IC2 : HA11225
IC3 : MC1496N

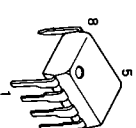
- IC4 : TR4010A
IC5 : HA11223W
IC6 : NJM4558D (A,B)
IC7 : HA1197 or LA1240
IC8 : TC4069UBP or MC14069UBCP or
μPD4069C



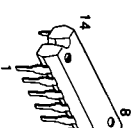
- HA11223W
HA11225
HA1197
LA1240
TR4010A



- LA1222
NJM4558D



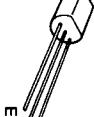
- TC4069UBP
μPD4069C
MC1496N



- 2SK136
2SK163

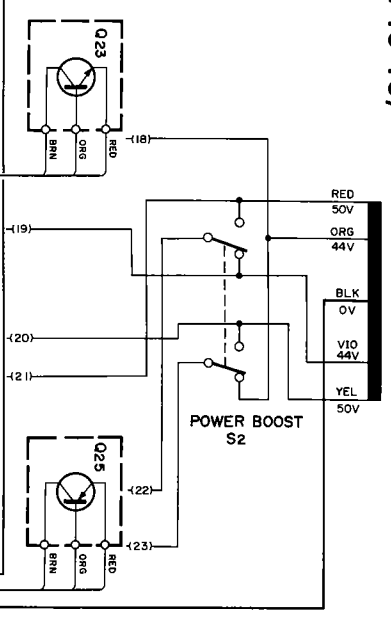
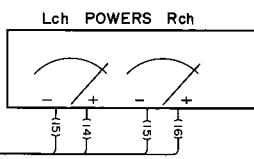


- 2SA564A
2SA733A
2SC828A
2SC945



PC BOARD

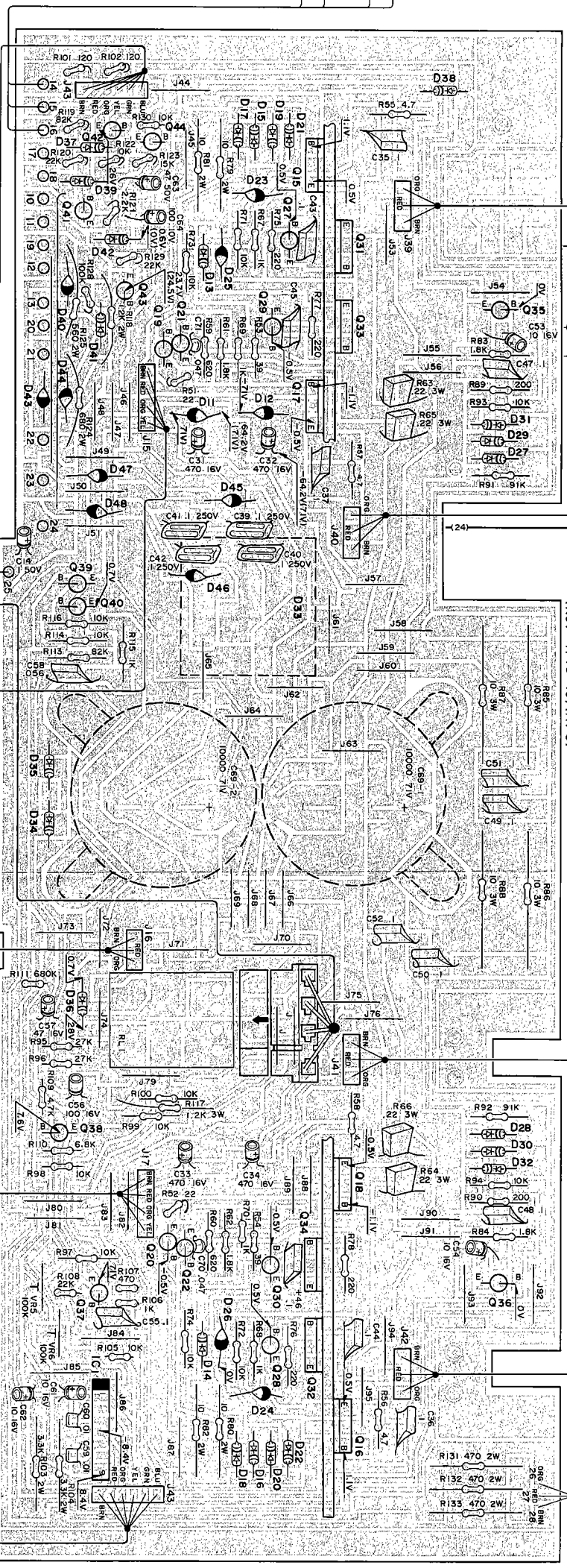
POWER AMP (X07-1740-10)



- 01,2 : μ PA68H
03~6,38 : 2SC945 (R,O) or 2SC828A (Q,R) or 2SC2259 (G,H)
07,8 : 2SA899 (B,V)
09~12 : 2SC1904 (B,V)
013,14 : 2SC1913 (Q,R)
015,16 : 2SA913 (Q,R)
017,18 : 2SA733A (R,O) or 2SA564A (Q,R)
021,22 : 2SC2607
023,24

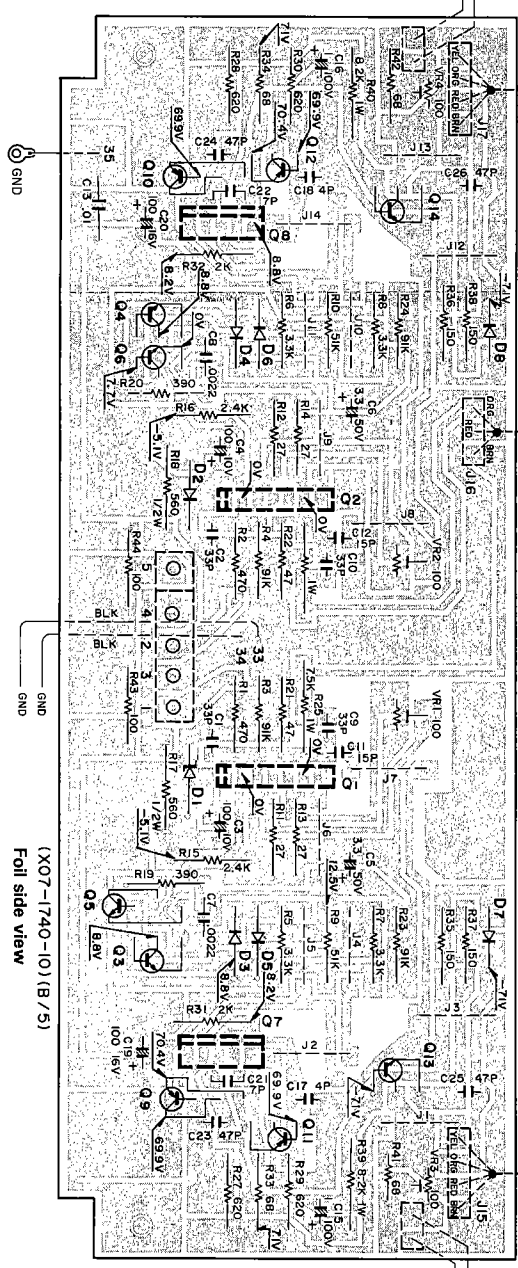
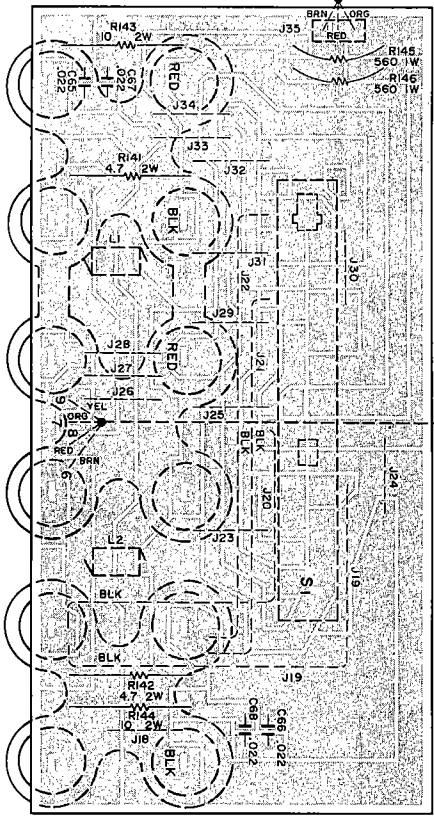
- 025,26 : 2SA1116
027,28,33,36 : 2SC1885 (Q,R)
029,30 : 2SA912 (Q,R)
031,32 : 2SA957 (Y,G)
033,34 : 2SC2167 (Y,G)
039 : 2SC1775
019,20,41,44 : 2SC1845 (F,E) or 2SC1775
037,42,43 : 2SA992 (F,E) or 2SA893A
040 : 2SA850 (G,H)
IC1 : TA7318P

Component side view (X07-1740-10) (A/G/S)

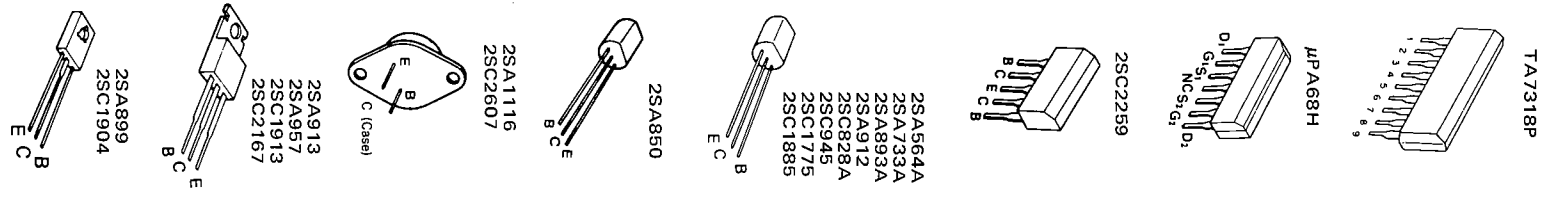


(X07-1740-10) (D/S)

Foil side view (X07-1740-10) (C/S)



(X07-1740-10) (B/S)

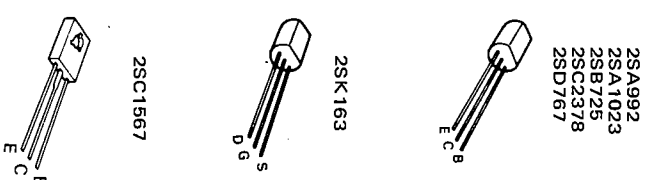
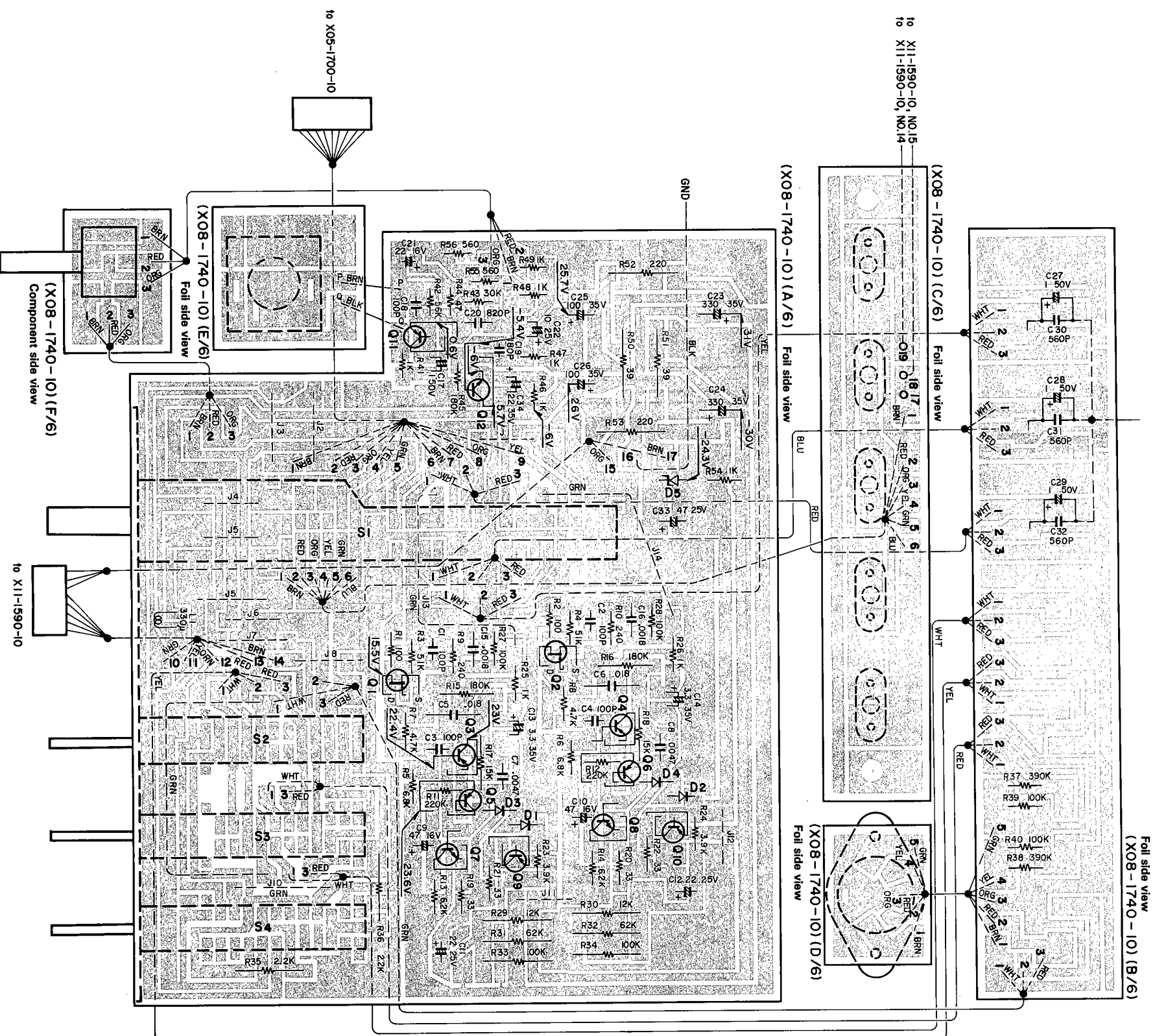


PC BOARD

PC BOARD

EAMP (X08-1740-10)

- Q1,2 : 2SK163 (L)
 Q3~6,9,10 : 2SB725 or 2SA1023(P,K)
 Q7,8 : 2SD767 or 2SC2378(P,K)
 Q11 : 2SA992 (F,E)
 Q12 : 2SC1567 (R,S)
 D1~4 : 1S1555
 D5 : EOA01-24

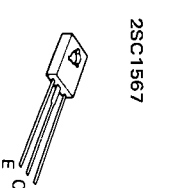
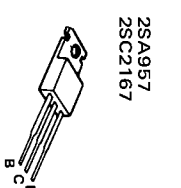
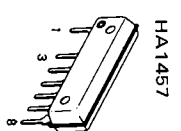
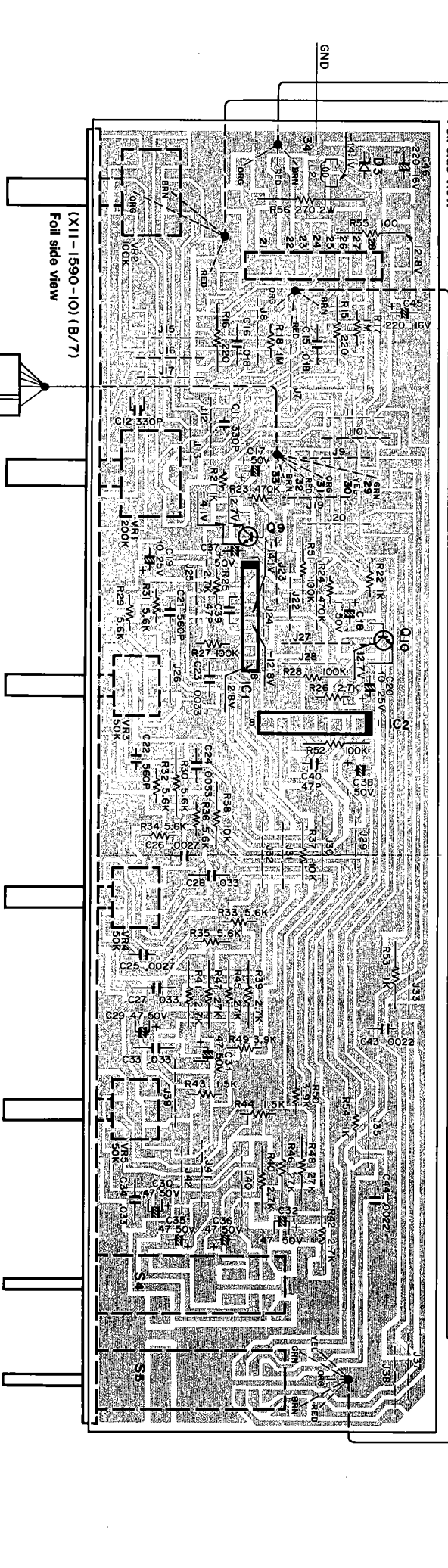
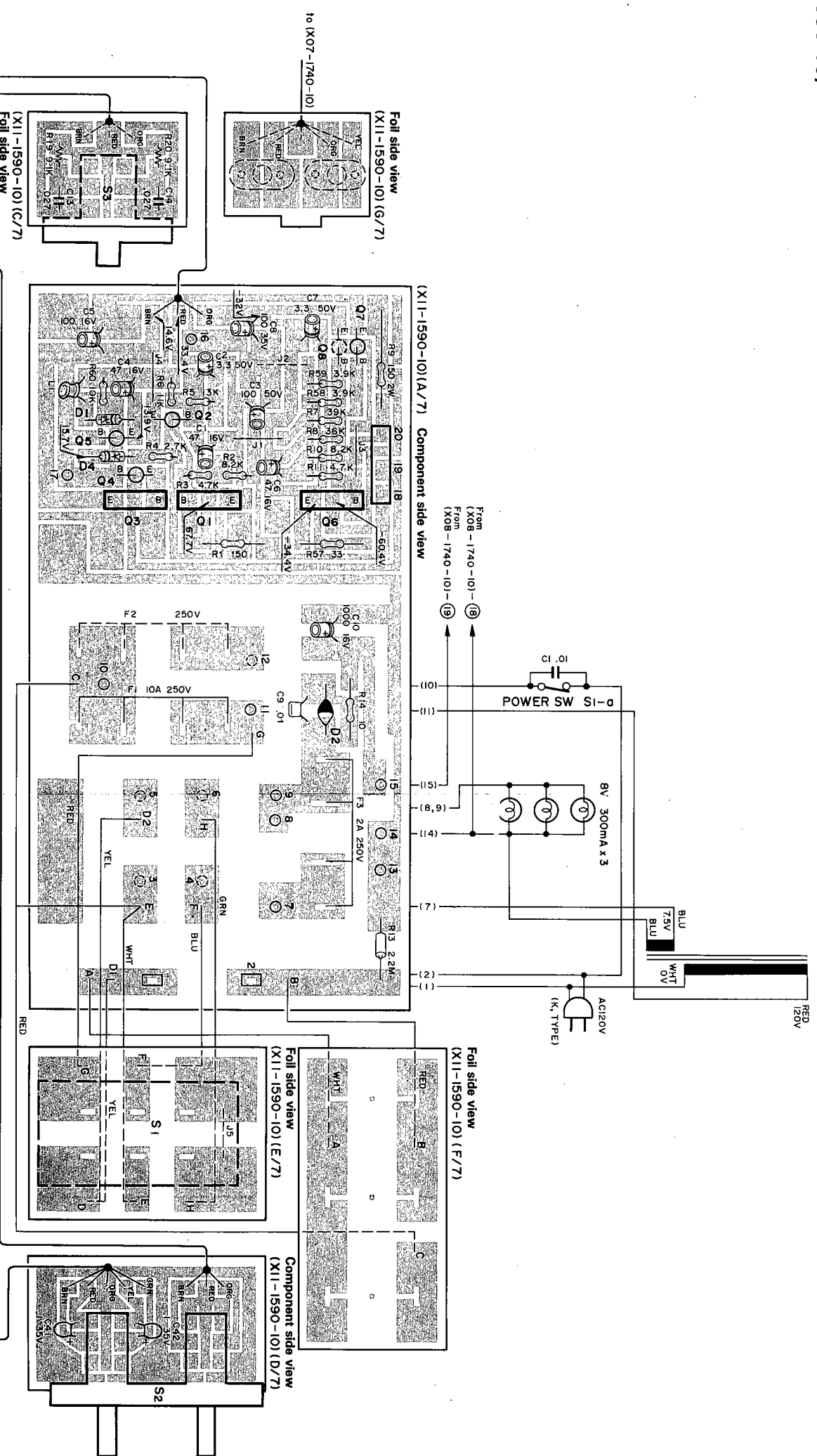


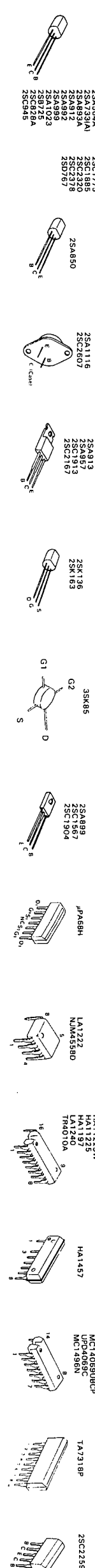
PC BOARD

PC BOARD

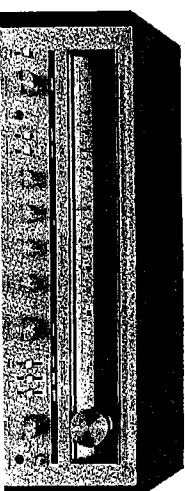
ONE AMP (X11-1590-10)

- 01 : 2SC1567
- 02,5 : 2SC2320 or 2SC945
- 03 : 2SC2167 (Y,G)
- 04 : 2SC2378
- 06 : 2SA957 (Y,G)
- 07,8 : 2SA999 or 2SA733 (A)
- 09,10 : 2SC1845
- IC1,2 : HA1457
- D1,3 : XZ-142 or EQA01-14
- D2 : V06B
- D4 : IS2076





KR-8050



150 watts* (POWER BOOST on) per channel or 120 watts* (POWER BOOST off) per channel, minimum RMS both channels driven at 8 ohms from 20 to 20,000 Hz with no more than 0.02% total harmonic distortion.

150 watts* (POWER BOOST on) per channel or 120 watts* (POWER BOOST off) per channel, minimum RMS both channels driven at 8 ohms from 20 to 20,000 Hz with no more than 0.02% total harmonic distortion.

min @ 1,000 Hz	170W - 170W
(POWER BOOST on)	130W - 120W
min @ 1,000 Hz	550W @ 80%
Dynamic Power Output	
Total Harmonic Distortion	
(20 Hz to 20,000 Hz from AUI)	
1W power into 8Ω	0.02%
1W power into 8Ω	0.007%
Intermodulation Distortion	
(60 Hz : 7 kHz $\times$ 4 : 1 SMPTE)	
1W power into 8Ω	0.005%
1W power into 8Ω	0.006%
Rise Time	≤200V/μsec
Rise Time	0.9 μsec

min @ 1,000 Hz	170W - 170W
(POWER BOOST on)	130W - 120W
min @ 1,000 Hz	550W @ 80%
Dynamic Power Output	
Total Harmonic Distortion	
(20 Hz to 20,000 Hz from AUI)	
1W power into 8Ω	0.02%
1W power into 8Ω	0.007%
Intermodulation Distortion	
(60 Hz : 7 kHz $\times$ 4 : 1 SMPTE)	
1W power into 8Ω	0.005%
1W power into 8Ω	0.006%
Rise Time	≤200V/μsec
Rise Time	0.9 μsec

Input Sensitivity/Impedance	PHONO 1, 2	AUX and TAPE	MIC
Signal to Noise Ratio (A, weighted) <td>PHONO 1, 2</td> <td></td> <td></td>	PHONO 1, 2		
AUX and TAPE			
MIC			
Maximum Phone Input Level at 1,000 Hz			
Frequency Response			

Input Sensitivity/Impedance	PHONO 1, 2	AUX and TAPE	MIC
Signal to Noise Ratio (A, weighted) <td>PHONO 1, 2</td> <td></td> <td></td>	PHONO 1, 2		
AUX and TAPE			
MIC			
Maximum Phone Input Level at 1,000 Hz			
Frequency Response			

Tone Control	
Bass	± 12 dB at 100 Hz
(60 Hz Boost)	− 10 dB at 50 Hz
Mid	± 8 dB at 800 Hz
Treble	± 12 dB at 10 kHz
Loudness Control	
IVOL. − 30 dB	− 10 dB at 100 Hz
Sonicity Filter	
(DC COUPLED OFF)	18 Hz 6 dB/oct
High Filter	100 Hz 6 dB/oct
Output Level/Impedance	
TAPE REC Out (Pn)	10 mV/50Ω
TAPE REC Out (Dn)	30 mV/50Ω

Tone Control	
Bass	± 12 dB at 100 Hz
(60 Hz Boost)	− 10 dB at 50 Hz
Mid	± 8 dB at 800 Hz
Treble	± 12 dB at 10 kHz
Loudness Control	
IVOL. − 30 dB	− 10 dB at 100 Hz
Sonicity Filter	
(DC COUPLED OFF)	18 Hz 6 dB/oct
High Filter	100 Hz 6 dB/oct
Output Level/Impedance	
TAPE REC Out (Pn)	10 mV/50Ω
TAPE REC Out (Dn)	30 mV/50Ω

Usable Sensitivity	10.3 dB(11.8 μ V)
50 dB Quieting Sensitivity	15.3 dB(13.2 μ V)
Micro	36.8 dB(13.8 μ V)
Stereo	
Signal Sensitivity	25.2 dB(110 μ V)
position 1 (S, N 40 dB)	45.2 dB(1100 μ V)
position 2 (S, N 60 dB)	
Signal to Noise Ratio at 65 dB	
Micro	83 dB
Stereo	75 dB
Total Harmonic Distortion	77 dB at 10 mV input
Micro	0.07%
Stereo	0.09%

Usable Sensitivity	10.3 dB(11.8 μ V)
50 dB Quieting Sensitivity	15.3 dB(13.2 μ V)
Micro	36.8 dB(13.8 μ V)
Stereo	
Signal Sensitivity	25.2 dB(110 μ V)
position 1 (S, N 40 dB)	45.2 dB(1100 μ V)
position 2 (S, N 60 dB)	
Signal to Noise Ratio at 65 dB	
Micro	83 dB
Stereo	75 dB
Total Harmonic Distortion	77 dB at 10 mV input
Micro	0.07%
Stereo	0.09%

Capture Ratio	1.0 dB
Image Rejection Ratio	83 dB
Spurious Response Ratio	100 dB
If Response Ratio	105 dB
Alternate Channel Selectivity	
WIDE	30 dB at 300 kHz
NARROW	60 dB at 300 kHz
AM Suppression Ratio	65 dB at 65 dB
Stereo Separation Ratio	65 dB at 65 dB
Stereo Separation Ratio	40 dB at 5.0 MHz, 10 dB at 50.0 MHz
Subcarrier Product Ratio	70 dB
Antenna Impedance	300 Ω Balanced and 75 Ω Unbalanced
FM Frequency Range	88 MHz to 108 MHz

Capture Ratio	1.0 dB
Image Rejection Ratio	83 dB
Spurious Response Ratio	100 dB
If Response Ratio	105 dB
Alternate Channel Selectivity	
WIDE	30 dB at 300 kHz
NARROW	60 dB at 300 kHz
AM Suppression Ratio	65 dB at 65 dB
Stereo Separation Ratio	65 dB at 65 dB
Stereo Separation Ratio	40 dB at 5.0 MHz, 10 dB at 50.0 MHz
Subcarrier Product Ratio	70 dB
Antenna Impedance	300 Ω Balanced and 75 Ω Unbalanced
FM Frequency Range	88 MHz to 108 MHz

Variable Sensitivity	10 μ V (250 μ V/m)
Signal to Noise Ratio	52 dB
Range Injection	50 nB
Structure	45 nB

GENERAL

Power Consumption

5.5 A (UL and CSA)
570 W B class at 1 kHz
60 W (No Signal)
Switched 1, Unswitched 1
W 571 mm (22.5/5.1)
H 172 mm (6.8/3.4)
D 411 mm (16.5/3.1)

Variable Sensitivity	10 μ V (250 μ V/m)
Signal to Noise Ratio	52 dB
Range Injection	50 nB
Structure	45 nB

GENERAL

Power Consumption

5.5 A (UL and CSA)
570 W B class at 1 kHz
60 W (Net Signal)
Switched 1, Unswitched 1
W 571 mm (22.5/5.1)
H 172 mm (6.8/3.4)
D 411 mm (16.5/3.1)

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

PARTS LIST

PARTS LIST

Ref. No. 参照番号	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Re- marks 備考
UNIT (KR-8050)			
1 2A	-	BOTTOM PLATE	
2 2A	-	METALLIC FRAME (L)	
3 3B	-	SUB PANEL	
4 1B	-	REAR PANEL	
5 2A	-	METALLIC FRAME (C)	
6 2A	-	METALLIC FRAME (R)	
7 2B	-	METALLIC FRAME (H)	
-	351-0003-14	DIAL CORD	
8 3A	A20-1467-02	FRONT PANEL ASSY	*K
8 3A	A20-1467-02	FRONT PANEL ASSY	PU
8 3A	A20-1467-02	FRONT PANEL ASSY	ME
8 3A	A20-1467-02	FRONT PANEL ASSY	X
8 3A	A20-1468-02	FRONT PANEL ASSY	*T
8 3A	A20-1469-02	FRONT PANEL ASSY	
9 3A	A33-0056-04	REFLECTOR	*H
10 3A	A33-0057-04	REFLECTOR	*
11 1A	A50-0065-03	SIDE PLATE (L)	*K
11 1A	A50-0065-03	SIDE PLATE (L)	PU
11 1A	A50-0065-03	SIDE PLATE (L)	
11 1A	A50-0065-03	SIDE PLATE (L)	MT
11 1A	A50-0065-03	SIDE PLATE (L)	HX
11 1A	A50-0067-03	SIDE PLATE (L)	*E
12 1A	A50-0066-03	SIDE PLATE (R)	*K
12 1A	A50-0066-03	SIDE PLATE (R)	PU
12 1A	A50-0066-03	SIDE PLATE (R)	
12 1A	A50-0066-03	SIDE PLATE (R)	MT
12 1A	A50-0066-03	SIDE PLATE (R)	HX
12 1A	A50-0068-03	SIDE PLATE (R)	*E
13 1A	A54-0173-02	TOP PLATE	*K
13 1A	A54-0173-02	TOP PLATE	UM
13 1A	A54-0173-02	TOP PLATE	
13 1A	A54-0173-02	TOP PLATE	TH
13 1A	A54-0173-02	TOP PLATE	X
13 1A	A54-0173-02	TOP PLATE	*P
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	P
13 1A	A54-0178-02	TOP PLATE	T
13 1A	A54-0178-02	TOP PLATE	K
13 1A	A54-0178-02	TOP PLATE	UH
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
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13 1A	A54-0178-02	TOP PLATE	U
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13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
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13 1A	A54-0178-02	TOP PLATE	*K
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13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
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13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
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13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
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13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
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13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	U
13 1A	A54-0178-02	TOP PLATE	MX
13 1A	A54-0178-02	TOP PLATE	
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K
13 1A	A54-0178-02	TOP PLATE	X
13 1A	A54-0178-02	TOP PLATE	*K

Ref. No	Parts No.	Description	Re- marks
参照番号	部品番号	部品名 / 規格	備考
17 1A	B04-0069-03	MESH PLATE	X
17 1A	B04-0074-03	MESH PLATE	*E
17 1A	B04-0075-03	MESH PLATE	*P
18 3A	B07-0251-04	ESCUTCHEON(POWER BOOST)	
19 3A	B07-0275-04	ESCUTCHEON X2 (KNOB)	
20 3A	B07-0277-04	ESCUTCHEON (SIDE) X2	
21 3A	B07-0278-04	ESCUTCHEON (SHAF) X2	
22 3A	B08-0008-04	INDICATOR (STEREO)	*
23 3A	B08-2019-03	INDICATOR (POSITION)	*
24 3A	B08-2020-04	INDICATOR (PROTECTION)	*
25 3A	B10-0249-04	FRONT GLASS	*
26 3B	B19-0205-02	LIGHTING PLATE	*
27 3A	B20-0448-04	DIAL CALIBRATIONS	
28 3A	B21-0033-03	DIAL POINTER	
29 3E	B30-0184-05	LAMP X3	
30 2b	B31-0310-05	METER	*
C1 2	C54-3310-39	CERAMIC 0.01UF P	TE
C1	C91-0023-05	CERAMIC 0.01UF Z	UM
C1	C91-0023-05	CERAMIC 0.01UF Z	HX
C1	C91-0079-05	CERAMIC 0.01UF	KP
31 3b	D15-0170-14	PULLEY X4	
32 28	D15-0171-13	DIAL PULLEY	
33 3E	D20-0149-03	DIAL SHAFT	
34 1b	E04-0004-05	RECEPTACLE (FM)	TE
35 1b	E30-0181-05	POWER CORD	KP
35 1b	E30-0185-05	POWER CORD	UM
35 1b	E30-0545-05	POWER CORD	X
35 1b	E30-0580-05	POWER CORD	EH
35 1b	E30-0602-05	POWER CORD	T
36 2b	G01-0045-24	COIL SPRING	
37 3A	G01-0364-04	COIL SPRING X6 (XKN08)	
-	H01-3053-04	CARTON BOX	*K
-	H01-3053-04	CARTON BOX	UM
-	H01-3053-04	CARTON BOX	X
-	H01-3054-04	CARTON BOX	*P
-	H01-3055-04	CARTON BOX	*T
-	H01-3056-04	CARTON BOX	*E
-	H01-3057-04	CARTON BOX	*H
-	H10-1553-02	POLYSTYRENE FIXTURE X2	M
-	H20-0415-04	COVER	KP
-	H20-0446-04	COVER	KP
-	H20-0446-04	COVER	UT
-	H20-0446-04	COVER	EH
-	H25-0078-04	BAG	X
38 2b	J02-0101-05	FOOT X4	
39 2b	J19-0306-05	LEAD HOLDER X4	
40 1b	J19-0507-05	ANTENNA HOLDER	
41 3B	J33-0254-14	HEX BOSS (M7,11MM)	*
42 3A	J32-0258-04	HEX BOSS (M8,22MM)	*
43 2B	J32-0260-04	HEX BOSS (M3)X2	*
44 1b	J41-0024-05	POWER CORD BUSHING	KP
44 1b	J42-0083-05	POWER CORD BUSHING	UM
44 1b	J42-0084-05	POWER CORD BUSHING	EH
44 1b	J42-0085-05	POWER CORD BUSHING	TX
45 3A	K23-0321-04	KNOB (SELECTOR) X3	
46 3A	K23-0322-04	KNOB (TONE) X4	
47 3A	K23-0323-04	KNOB (MIC)	
48 3A	K25-0324-04	KNOB (TUNING)	
49 3A	K27-0093-04	KNOB (LEVER) X6	

Ref. No.	Parts No.	Description	Re- marks 備考
参照番号	部品番号	部品名 / 規格	
50 3A 51 3A	K29-0319-04 K29-0320-04	KN08 X6 KN08 (PUSH)	
52 28 52 28 52 28 52 28 52 28	L01-1821-05 L01-1802-05 L01-1825-05 L01-1825-05 L01-1825-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	*K *T *U *U *U
52 28 52 28 52 28 52 28 52 28	L01-1826-05 L01-1827-05 N08-0126-05 N08-0128-35 N09-0293-05 N09-0303-05 N14-0074-05	POWER TRANSFORMER POWER TRANSFORMER DEESS SCREW X4 GND SCREW SCREW (PULLEY) X4 SCREW (R/P JACK) X2 NUT X6 (KN08)	*T *P *P *P *P
59 28 60 38	N15-1030-46 N29-0033-05	FLAT WASHER(HEX BOSS)X2 PUSH RIVET X2	
61 28 61 28 61 28 61 28 62 28	S33-4012-05 S33-4014-05 S33-4016-05 S33-4025-05 S40-2096-05	LEVER SWITCH(POWER) LEVER SWITCH(POWER) LEVER SWITCH(POWER) LEVER SWITCH(POWER) PUSH SWITCH(POWER BOOST)	KR P P U H X TE
63 28 64 18	S90-0025-05 S90-0026-05	REMOTE SWITCH SHAFT REMOTE WIRE	
65 18 66 18	T90-0083-05 T90-0202-05	AM ANTENNA FM ANTENNA	
67 28 67 28 67 28 67 28 67 28	X05-1700-10 X05-1700-10 X05-1700-11 X05-1700-11 X05-1700-11	TUNER PCB ASSY TUNER PCB ASSY TUNER PCB ASSY TUNER PCB ASSY TUNER PCB ASSY	*K *K *U *U MT MT X
67 28 68 1A 69 38 70 28 70 28	X05-1700-11 X07-1740-10 X08-1740-10 X11-1590-10 X11-1590-61	TUNER PCB ASSY POWER AMP PCB ASSY PRE AMP PCB ASSY TONE AMP PCB ASSY TONE AMP PCB ASSY	X * * * * *U
70 28 70 28 70 28 70 28 70 28	X11-1590-81 X11-1590-81 X11-1591-01 X11-1591-51 X11-1592-71	TONE AMP PCB ASSY TONE AMP PCB ASSY TONE AMP PCB ASSY TONE AMP PCB ASSY TONE AMP PCB ASSY	MH X *P *T *T *E
TUNER (X05-1700)			
D5 10	B30-0191-05	LED X2	FIG.101
C1 -4 C5 C5 C6 C7 C8 C9 C10 C11 12 C13 C14 C15 C17 18 C19 20 C21 C22 C23 26	C55-1710-38 C9G-0253-05 C55-1710-38 C55-1710-38 C55-1747-36 C26-1710-57 C55-1710-38 C24-1210-61 C25-1747-38 C71-1727-15 C55-1747-38 C55-1710-51 C55-1710-38 C55-1747-38 C55-1710-38 C55-1710-38 C24-0822-71 C24-1710-51 C55-1710-38	CERAMIC 0.01UF Z CERAMIC 0.02UF M CERAMIC 0.01UF Z CERAMIC 0.047UF Z CERAMIC 0.047UF Z NP-ELEC 1UF 50MV CERAMIC 0.01UF Z ELECTRO 10UF 16MV CERAMIC 0.047UF Z CERAMIC 270PF J CERAMIC 0.047UF Z ELECTRO 1UF 50MV CERAMIC 0.01UF Z CERAMIC 0.047UF Z CERAMIC 0.01UF Z ELECTRO 220UF 6.3V ELECTRO 1UF 50MV CERAMIC 0.01UF Z	

Ref. No.	Parts No.	Description	规格	Ref. marks
参照番号	部品番号	部品名 / 规格		参考
C27	C24-1222-71	ELECTRO 220UF	16WV	R3
C28 -30	C90-0253-05	CERAMIC 0.022UF	M	R35
C31	C63-1747-05	CERAMIC 47PF	J	R46
C32	C55-1747-38	CERAMIC 0.047UF	Z	R47
C33	C71-1727-15	CERAMIC 270PF	J	R51
C34	C24-1447-51	ELECTRO 4.7UF	25WV	R79
C35	C24-1210-61	ELECTRO 10UF	16WV	R92
C36	C24-1010-71	ELECTRO 100UF	10WV	R94
C37 ,38	C71-1710-15	CERAMIC 100PF	J	R11
C41	C24-1210-71	ELECTRO 100UF	16WV.	VR1
C42	C45-1747-57	MYLAR 0.047UF	M	VR2
C43	C48-1710-25	POLYSTY 1000PF	J	VR3
C44	C45-1722-27	MYLAR 0.0022UF	M	VR4
C45	C24-1733-51	ELECTRO 3.3UF	50WV	
C46	C24-1747-41	ELECTRO 0.47UF	50WV	S1
C47	C45-1715-27	MYLAR 0.0015UF	M	S2
C48	C24-1733-51	ELECTRO 3.3UF	50WV	D1
C49 ,50	C24-1710-51	ELECTRO 1UF	50WV	D3
C51	C45-1710-57	MYLAR 0.01UF	M	D6
C53 ,54	C24-1210-61	ELECTRO 10UF	16WV	D7
C55 -58	C25-1747-47	LL-ELEC 0.47UF	50WV	D11
C59 ,60	C45-1724-25	MYLAR 0.0024UF	16WV	D11
C61 -65	C24-1210-61	ELECTRO 10UF	16WV	IC1
C67 ,68	C46-1756-25	MYLAR 0.0055UF	J	IC2
C69 ,70	C46-1727-25	MYLAR 0.0027UF	J	IC3
C71	C52-1768-16	CERAMIC 680PF	K	IC4
C78	C24-1447-51	ELECTRO 4.7UF	25WV	IC5
C81	C70-1715-05	CERAMIC 15PF	J	IC6
C83	C45-1710-26	CERAMIC 0.001UF	K	IC7
C85 ,86	C45-1710-57	MYLAR 0.01UF	M	IC8
C88	C71-1708-02	CERAMIC 8PF	D	Q1
C89	C55-1747-38	CERAMIC 0.047UF	Z	Q2
C90	C52-1722-26	CERAMIC 0.0022UF	K	Q3
C92	C24-1710-51	ELECTRO 1UF	50WV	Q5
C95	C45-1756-37	MYLAR 0.056UF	M	Q11
C101	C24-1710-51	ELECTRO 1UF	50WV	
C104	C25-1447-57	LL-ELEC 4.7UF	25WV	
C105	C24-1610-61	ELECTRO 10UF	25WV	
C106	C26-1710-57	NP-ELEC 1UF	50WV	C1
C106	C90-0253-05	CERAMIC 0.022UF	M	C3
Tc1 ,2	C05-0073-05	TRIMMER CAPACITOR		C5
102 1A	E20-0439-05	TERMINAL BOARD		C7
Cf1 -5	L79-0085-05	FILTER ASSY		C9
Cf6	L72-0075-05	AM CERAMIC FILTER		
L1	L40-1092-11	INDUCTOR 1UH		C13
L2	L40-2201-03	INDUCTOR 22UH		C14
L3	L30-0320-05	FM 1FT		C15
L4 ,5	L40-2292-11	INDUCTOR 2.2UH		C17
L6	L32-8218-15	FM OSCILLATING COIL		C19
L7	L79-0099-05	LC FILTER		C21
L8	L79-0100-05	LC FILTER		C23
L9	L40-4721-28	INDUCTOR 4.7MH		C31
L11 ,12	L79-0060-05	LC FILTER		C35
L13	L40-1092-12	INDUCTOR 1UH		C39
L14	L32-0225-05	MM OSCILLATING COIL		C43
L15	L30-0321-05	AM 1FT		C53
L16	L30-0284-05	AM 1FT		C55
L17	L79-0073-05	AM BPF		C56
L18	L40-1021-45	INDUCTOR 1MH		C57
			11	C58
				C59
				C61

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re- marks 備考
C27 C28 -30 C31 C32 C33	C24-1222-71 C90-0253-05 C63-1747-05 C53-1747-38 C71-1727-15	ELECTRO 220UF 16WV CERAMIC 0.022UF M CERAMIC 47PF J CERAMIC 0.047UF Z CERAMIC 270PF J	
C34 C35 C36 C37 ,38 C41	C24-1447-51 C24-1210-61 C24-1210-71 C71-1710-15 C24-1210-71	ELECTRO 4.7UF 25WV ELECTRO 10UF 16WV ELECTRO 100UF 10WV CERAMIC 100PF J ELECTRO 100UF 16WV	
C42 C43 C44 C45 C46	C45-1747-37 C68-1710-25 C45-1722-27 C24-1733-51 C24-1747-41	MYLAR 0.047UF M POLYSTY 1000PF J MYLAR 0.0022UF M ELECTRO 3.3UF 50WV ELECTRO 0.47UF 50WV	
C47 C48 C49 ,50 C51 C53 ,54 C55 -58 C59 ,60 C61 C67 ,68 C69 ,70	C45-1715-27 C24-1733-51 C24-1710-51 C45-1710-57 C24-1210-61 C25-1747-47 C45-1724-25 C24-1210-61 C46-1756-25 C46-1727-25	MYLAR 0.0015UF M ELECTRO 3.3UF 50WV ELECTRO 1UF 50WV MYLAR 0.01UF M ELECTRO 10UF 16WV LL-ELEC 0.47UF 50WV MYLAR 0.0024UF 16WV ELECTRO 10UF 16WV MYLAR 0.0056UF J MYLAR 0.0027UF J	
C71 C78 C81 C83 C85 ,86 C88 C88 C89 C90 C92	C52-1768-16 C24-1447-51 C70-1715-05 C52-1710-26 C45-1710-37 C71-1708-02 C71-1710-02 C55-1747-38 C52-1722-26 C24-1710-51	CERAMIC 680PF K ELECTRO 4.7UF 25WV CERAMIC 15PF J CERAMIC 0.001UF M MYLAR 0.01UF M CERAMIC 8PF D CERAMIC 10PF D CERAMIC 0.047UF Z CERAMIC 0.0022UF K ELECTRO 1UF 50WV	11 11 10
C95 C103 C104 C105	C45-1756-37 C24-1710-51 C25-1447-57 C24-1410-61 C26-1710-57	MYLAR 0.056UF M ELECTRO 1UF 50WV LL-ELEC 4.7UF 25WV ELECTRO 10UF 25WV NP-ELEC 1UF 50WV	
C106 TC1 ,2 102 1A	C90-0253-05 C05-0073-05 E20-0439-05	CERAMIC 0.022UF M TRIMMER CAPACITOR TERMINAL BOARD	
CF1 -5 CF6 L1 L2 L3	L79-0085-05 L72-0075-05 L40-1092-11 L40-2201-03 L30-0320-05	FILTER ASSY AM CERAMIC FILTER INDUCTOR 1UH INDUCTOR 22UH FM IFT	
L4 ,5 L6 L7 L8 L9	L40-2292-11 L32-0218-15 L79-0099-05 L79-0100-05 L40-4721-28	INDUCTOR 2.2UH FM OSCILLATING COIL LC FILTER LC FILTER INDUCTOR 4.7MH	
L11 ,12 L13 L14 L15 L16	L79-0060-05 L40-1092-12 L32-0225-05 L30-0321-05 L30-0284-05	LC FILTER INDUCTOR 1UH MM OSCILLATING COIL AM IFT AM IFT	
L17 L18	L79-0073-05 L40-1021-45	AM BPF INDUCTOR 1MH	11
Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re- marks 備考
R3 ,4 R35 ,36 R46 R47 R51	R43-1247-05 R43-1210-15 R43-1233-05 R48-2750-93 R43-1222-05	FL-PROOF RD47 J 2E FL-PROOF RD100 J 2E FL-PROOF RD33 J 2E RN 7.5K F 2E FL-PROOF RD22 J 2E	
R79 ,80 R92 R94 R116 VR1	R40-8310-68 R43-1210-15 R43-1210-15 R43-1210-15 R12-0065-05	RC 10M M 2H FL-PROOF RD100 J 2E FL-PROOF RD100 J 2E FL-PROOF RD100 J 2E TRIMMING POT.4701F GAIN	
VR2 VR3 VR4	R12-1041-05 R12-5030-05 R12-3045-05	TRIMMING POT.3.3K VCO TRIMMING POT.100K P.C. TRIMMING POT.10K SEPN	
S1 S2	S42-3031-05 S31-2048-05	PUSH SWITCH FIG103 SLIDE SWITCH FIG104	
D1 ,2 D3 ,4 D6 D7 D8 ,9 D11 -19 IC1 IC2 IC3 IC4	V11-0051-05 V11-0076-05 V11-0076-05 V11-0076-05 V11-0076-05 V11-0076-05 V11-0076-05 V11-0076-05 V30-0215-05 V30-0321-10 V30-0268-20 V30-0296-20	1N60 1S1555,1S2076 1S1555,1S2076 1S1555,1S2076 1S1535 1S1555,1S2076 1S1555,1S2076 1S1555,1S2076 LA1222 HA11225 MC1496N TR4010A	
IC5 IC6 IC7 IC8 Q1 Q2 Q3 ,4 Q5 ,6 Q7 -10 Q11 105 28	V30-0266-20 V30-0217-05 V30-0196-05 V30-0297-20 V01-0733-40 V09-0144-40 V03-0348-05 V09-0144-40 V03-0348-05 V01-0733-40 W02-0022-05	HA11223M NUM4558D(A,B) HA1197,LA1240 2SA4059UB,2SA4069C 2SA735A(C,P),2SA564A(ORS) 2SK163(N),2SK136(S) 2SC945(Q,P),2SC828A(Q,R) 2SK136(R,S),2SK163(LWN) 2SC945(Q,P),2SC828A(Q,R) 2SA735A(Q,P),2SA564A(ORS) FM FRONT END	
POWER AMP (X07-1740-10)			
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10 C11 ,12 C13 C14 C15 ,16 C17 ,18 C19 ,20 C21 ,22 C23 -26 C25 ,54 C35 C36 C37 -37 C39 -42 C43 -52 C45 ,54 C55 C56 C57 C58 C59 ,60 C61 ,62	C71-1733-05 C24-1010-51 C24-1733-51 C46-1722-25 C71-1727-05 C71-1715-05 C45-1710-46 C24-1710-51 C24-2010-51 C71-1704-01 C24-1210-71 C71-1707-02 C71-1747-05 C24-1210-61 C45-1710-46 C26-1210-77 C91-0039-05 C45-1710-46 C24-1210-61 C45-1710-46 C26-1210-77 C25-1247-67 C45-2056-36 C45-1710-36 C24-1210-61	CERAMIC 33PF J ELECTRO 100UF 10WV ELECTRO 3.3UF 50WV MYLAR 0.0022UF J CERAMIC 27PF J CERAMIC 15PF J MYLAR 0.1UF K ELECTRO 1UF 50WV ELECTRO 1UF 100WV CERAMIC 4PF C ELECTRO 100UF 16WV CERAMIC 7PF D CERAMIC 47PF J ELECTRO 470UF 16WV MYLAR 0.1UF K CERAMIC 0.1UF 250V MYLAR 0.1UF 16WV ELECTRO 10UF 16WV NP-ELEC 100UF 16WV LL-ELEC 47UF 16WV MYLAR 0.0056UF K MYLAR 0.01UF K ELECTRO 10UF 16WV	

PARTS LIST

Ref. No. 参照番号	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Re- marks 備考
C63	C24-1747-41	ELECTRO 0.47UF 50WV	
C64	C24-1010-71	ELECTRO 100UF 10WV	
C65 -68	C66-1722-35	MYLAR 0.022UF J	
C69	C70-0414-05	ELECTRO 10000UF 71WV	*
C70 ,71	C55-1747-58	CERAMIC 0.047UF Z	
106 2A	E02-0004-05	TRANSISTOR SOCKET X4	
107 28	E11-0060-05	PHONE JACK	
108 18	E20-0812-05	TERMINAL BOARD	
109 2A	F01-0316-02	HEAT SINK (L)	*
110 1A	F01-0317-02	HEAT SINK (R)	*
111 1A	F01-0318-04	HEAT SINK (DRIVER) X2	*
112 1A	F01-0319-04	HEAT SINK (SUB) X4	*
L1 ,2	L39-0085-05	PHASE COMPENSATION COIL	
113	N09-0287-05	SCREW X6	
R17 ,18	R40-8356-16	RC 560 K 2H	
R25 ,26	R47-5475-25	FL-PROOF RS7.5K J 3A	
R27 -30	R43-1262-15	FL-PROOF RD620 J 2E	
R31 ,32	R43-1262-25	FL-PROOF RD2K J 2E	
R33 ,34	R43-1268-05	FL-PROOF RD68 J 2E	
R35 -38	R43-1215-15	FL-PROOF RD150 J 2E	
R39 ,40	R47-5482-25	FL-PROOF RS8.2K J 3A	
R41 ,42	R43-1233-05	FL-PROOF RD35 J 2E	
R43 ,44	R43-1210-15	FL-PROOF RD100 J 2E	
R53 ,54	R43-1239-05	FL-PROOF RD39 J 2E	
R55 -58	R43-1247-95	FL-PROOF RD4.7 J 2E	
R63 -66	R42-0167-05	METAL PLATE 0.22 3M J 2E	
R75 -78	R43-1222-15	FL-PROOF RD220 J 2E	
R79 -82	R47-5510-05	FL-PROOF RS10 J 3F	
R85 -88	R47-5610-05	FL-PROOF RS10 J 3F	
R103 ,104	R47-5533-25	FL-PROOF RS3.3K J 3D	
R117	R47-5612-25	FL-PROOF RS1.2K J 3F	
R118	R47-5568-15	FL-PROOF RS1.2K J 3D	
R124	R47-5568-15	FL-PROOF RS680 J 3D	
R125	R47-5556-15	FL-PROOF RS350 J 3D	
R131-133	R47-5547-15	FL-PROOF RS470 J 3D	
R141,142	R47-5547-95	FL-PROOF RS4.7 J 3D	
R145,144	R47-5510-05	FL-PROOF RS10 J 3D	
R146,146	R47-5456-15	FL-PROOF RS560 J 3A	
VR1 ,2	R12-0501-05	TRIMMING POT 100	
VR3 ,4	R12-0408-05	TRIMMING POT 100	
VR5 ,6	R12-5013-05	TRIMMING POT 100K	
RL1	S51-4034-05	RELAY	
S1	S90-0006-05	SLIDE SWITCH 	
D1 ,2	V11-4103-60	XZ-051	
D3 -6	V11-0051-05	1N60	
D7 ,8	V11-0271-05	1S2076	
D9 ,10	V11-5100-40	STV-4H(G)	
D11 ,12	V11-0219-05	V068	
D13 ,14	V11-0271-05	1S2076	
D15 -22	V11-0273-05	1S2076A	
D23 -26	V11-0219-05	V068	
D27 ,28	V11-0273-05	1S2076A	
D29 ,30	V11-0051-05	1N60	
D31 ,32	V11-0273-05	1S2076A	
D33	V11-2100-80	M4C-51-13*2	
D34 ,35	V11-0271-05	1S2076	
D36	V11-0295-05	W068	
D37 -39	V11-0273-05	1S2076A	
D40	V11-0219-05	V068	

Ref. No. 参照番号	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Re- marks 備考
D41 ,42	V11-0273-05	1S2076A	
D43 -48	V11-0219-05	V068	
IC1	V30-0292-10	TA7731BP	
C01 ,2	V09-0145-10	UPA68H	
C03 -6	V03-0270-05	2SC945(R,O),2SC828A(Q,R	
Q7 ,8	V03-2259-05	2SC2259(G,H)	
Q9 -12	V01-0206-10	2SA899(B,V)	
Q13 ,14	V03-0460-05	2SC1904(B,V)	
Q15 ,16	V03-0468-05	2SC1913(Q,R)	
Q17 ,18	V01-0188-05	2SA913(Q,R)	
Q19 ,20	V03-1845-10	2SC1845(F,E),2SC1775	
Q21 ,22	V01-0733-30	2SA733A(R),2SA564A(R	
Q23 ,24	V03-2607-00	2SC2607	
Q25 ,26	V01-1116-00	2SA1116	
Q27 ,28	V03-0451-05	2SC1885(Q,R)	
Q29 ,30	V01-0912-20	2SA912(Q,R)	
Q31 ,32	V01-0937-10	2SA937(Y,G)	
Q33 ,34	V03-2167-10	2SC2167(Y,G)	
Q35 ,36	V03-0451-05	2SC1885(Q,R)	
Q37	V01-0992-10	2SA992(F,E),2SA892A	
Q32	V03-0270-05	2SC945(R,O),2SC828A(Q,R	
Q39	V03-1845-10	2SC1845(F,E),2SC1775	
Q40	V01-0173-05	2SA850	
Q41	V03-1845-10	2SC1845(F,E),2SC1775	
Q42 ,43	V01-0992-10	2SA992(F,E),2SA892A	
Q44	V03-1845-10	2SC1845(F,E),2SC1775	

PRE AMP (X08-1740-10)			
117 28	B30-B084-05	LAMP X5	
C1 -4	C71-1710-15	CERAMIC 100PF J	
C5 ,6	C49-2018-34	MYLAR 0.018UF G	
C7 ,8	C49-2047-24	MYLAR 0.0047UF G	
C9 ,10	C24-1247-61	ELECTRO 47UF 16WV	
C11 ,12	C24-1422-61	ELECTRO 22UF 25WV	
C13 ,14	C25-6533-57	LL-ELEC 3.3UF 35WV	
C15 ,16	C46-1718-25	MYLAR 0.0018UF J	
C17	C25-1710-57	LL-ELEC 1UF 50WV	
C18	C71-1710-15	CERAMIC 100PF J	
C19	C71-1747-05	CERAMIC 47PF J	
C20	C46-1715-25	MYLAR 0.0015UF J	
C21	C24-1410-61	ELECTRO 10UF 25WV	
C22	C25-1410-67	LL-ELEC 10UF 25WV	
C23 ,24	C24-6533-71	ELECTRO 330UF 35WV	
C25 ,26	C24-6510-71	ELECTRO 100UF 35WV	
C27 -29	C24-1710-51	ELECTRO 1UF 50WV	
C30 -32	C52-1756-16	CERAMIC 560PF K	
C33	C24-1447-61	ELECTRO 47UF 25WV	
C34	C24-1047-61	ELECTRO 47UF 10WV	
118 18	E06-0513-05	R/P JACK	
119 38	E11-0065-05	PHONE JACK	
120 18	E13-0423-05	PHONO JACK (4P) X2	
121 18	E13-0612-05	PHONO JACK (6P)	
L1	L40-3311-03	INDUCTOR	
122 38	R06-4032-05	POTENTIOMETER 50K X2	
R15 ,16	R48-2180-34	RN 180K G 2E	
R17 ,18	R48-2150-24	RN 15K G 2E	
R50 ,51	R43-1282-05	FL-PROOF RD82 J2E	
R52 ,53	R43-1222-15	FL-PROOF RD220 J 2E	
S1	S29-1123-05	ROTARY WAFER SWITCH 123	
S2 ,3	S33-4026-05	LEVER SWITCH 	
S4	S33-4027-05	LEVER SWITCH 	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
② ①	14 3A 14 3A 15 3A 15 3A 15 3A	A20-1391-13 A20-1417-13 A21-0302-03 A21-0302-03 A21-0302-03	FRONT PANEL PANEL FRONT PANEL ASSY DRESSING PANEL DRESSING PANEL DRESSING PANEL
⑤	C1 .C2 C1 C1 C1 C1	C54-3310-39 C90-0145-05 C91-0023-05 C91-0023-05 C91-0025-05	CERAMIC 0.01UF P POLYESTER 0.01UF AC125V CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC125V
	28 1B 29 1B 30 2A 31 2A	D15-0155-13 D15-0156-13 D15-0170-14 D20-0144-03	PULLEY PULLEY PULLEY DIAL SHAFT

- ① Exploded view drawing No.
 ② Position in exploded view.
 ③ Symbol of new parts
 ④ Area to which parts are shipped. Example: A20-1390-13 is the part No. of FRONT PANEL ASS'Y for the "K" type products (for U.S.A.).
 When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.

CODEs in X11-1590

K: X11-1590-11

U: X11-1590-81

P: X11-1591-01

T: X11-1591-51

E: X11-1592-71

- ⑤ Reference No. in schematic diagram.
 ⑥ Abbreviation of "ceramic capacitor".
 All capacitors and resistors are listed using abbreviations.
 ⑦ Abbreviations

* Abbreviations of capacitors (Parts No. with initial letter "C").

ELECTRO Electrolytic capacitor
 LL-ELEC Low leak electrolytic capacitor
 NP-ELEC Non-pole electrolytic capacitor
 MICA Mica capacitor
 POLYSTY Polystyrene capacitor
 MYLAR Mylar capacitor
 CERAMIC Ceramic capacitor
 TANTAL Tantalum capacitor
 MF Metallized film capacitor
 OIL Oil capacitor
 The unit "UF" is used in lieu of "μF".

* Abbreviations of resistors (Parts No. with initial letters "R").

RC Carbon composition resistor
 RD Carbon film resistor
 FL-PROOF RD Flame-proof carbon film resistor
 RW Wire wound power resistor
 FL-PROOF RS Flame-proof metal oxide film resistor
 RN Metal film resistor
 2B Rated wattage 1/8W

2E Rated wattage 1/4W
 2H Rated wattage 1/2W
 3A Rated wattage 1W
 3D Rated wattage 2W
 3F Rated wattage 3W
 3G Rated wattage 4W
 3H Rated wattage 5W

All resistor values are indicated with the unit (Ω) omitted.

* Abbreviations common to capacitors and resistors.

C ±0.25pF (Used for capacitors only)
 D ±0.5pF (Used for capacitors only)
 F ±1%
 G ±2%
 J ±5%
 K ±10%
 M ±20%
 Z +80%, -20% (Used for capacitors only)
 P +100%, -0% (Used for capacitors only)

- ⑧ Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

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