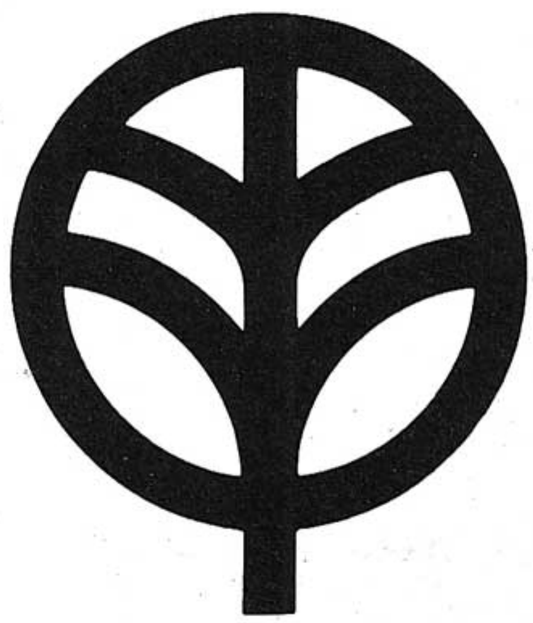


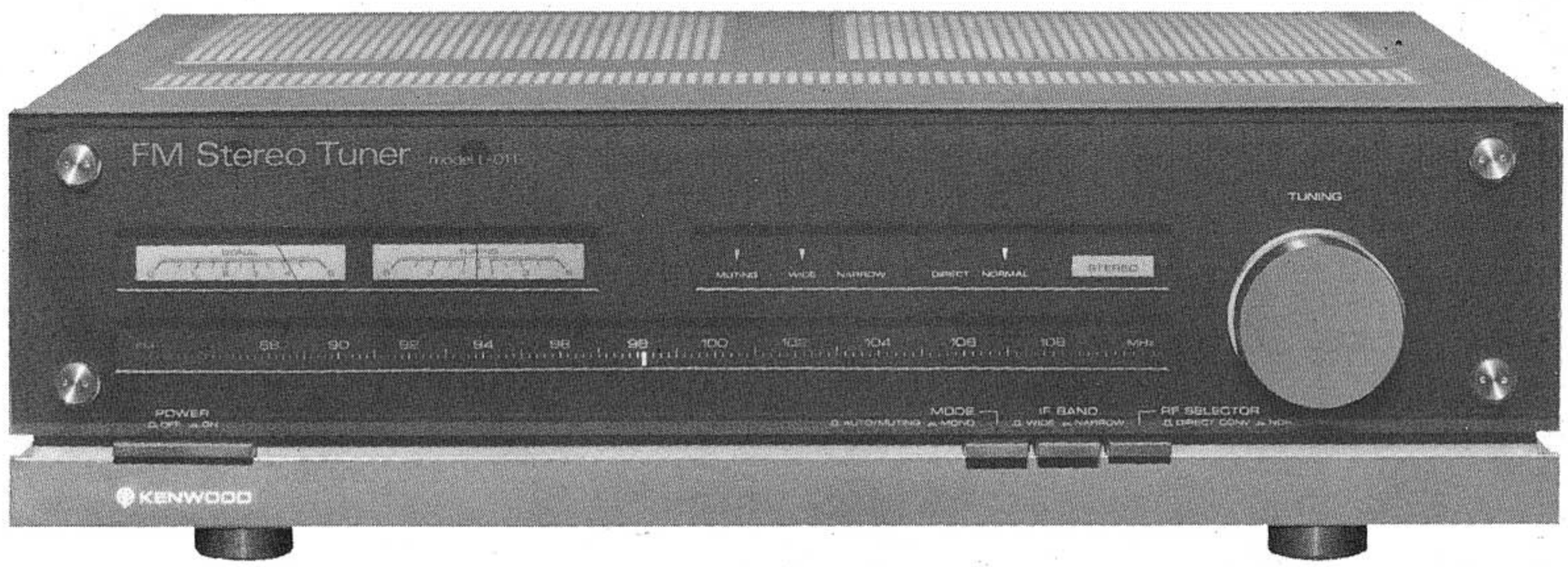
KENWOOD

HI/FI STEREO COMPONENTS

SERVICE MANUAL

L-01T

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.



FM STEREO TUNER

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EXTERNAL VIEW 3
INTERNAL VIEW 4
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Caution

- Do not touch the copper plate with naked hand because it is liable to rust. If fingerprints are left on the plate, remove them with a steel brush.
- The cabinet is made of nylon resin. Do not place any hot object such as a soldering iron on the cabinet.
- The S-meter and T-meter are not covered by the case. Treat them carefully when replacing.

Avertissement

- Ne pas toucher la plaque de cuivre avec les mains nues car elle est susceptible de rouiller. Si des empreintes digitales sont laissées sur la plaque, les nettoyer à la brosse métallique.
- Le coffret est en résine de nylon. Ne pas placer d'objets chauds tels qu'un fer à souder sur le coffret.
- Le Vu-mètre et le compteur d'accord ne sont pas couverts par le coffret. Les manipuler soigneusement lors du remplacement.

Vorsicht

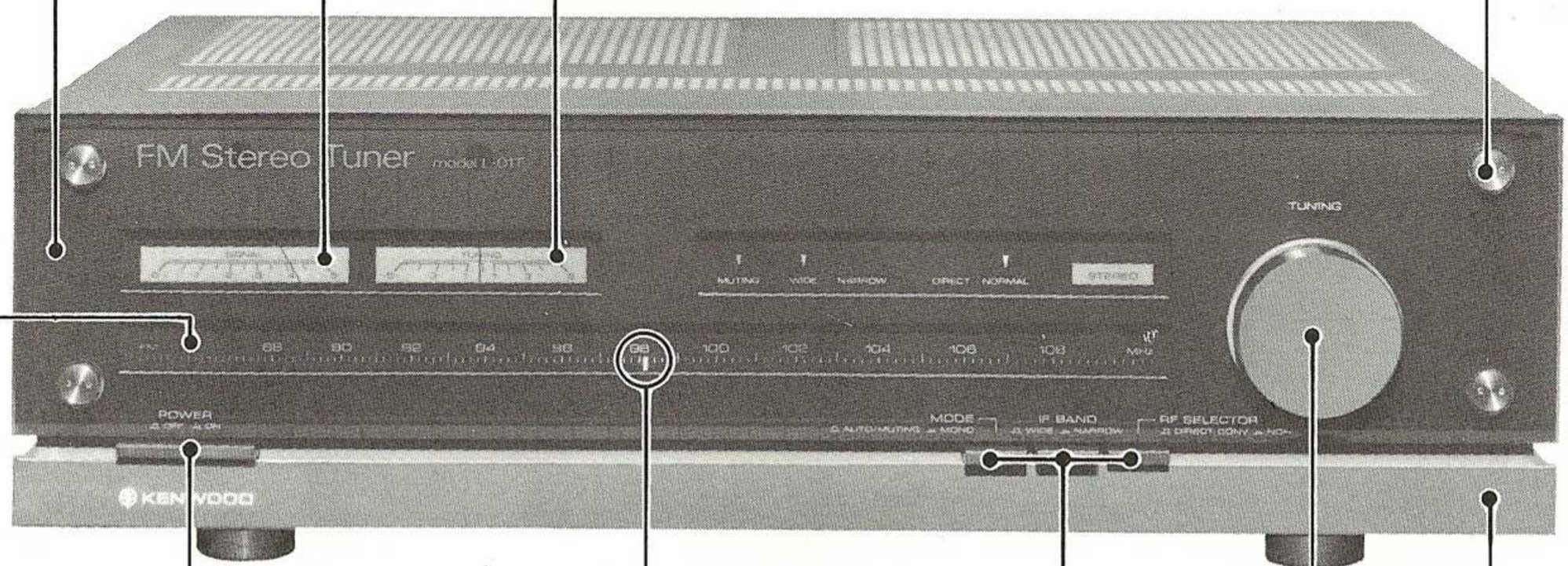
- Die Kupferplatte icht mit der bloßen Hand berühren, well diese sonst rosten kann. Bleiben Fingerabdrûcke auf der Platte zurück, diese mit einer Stahlbürste entfernen.
- Das Gehäuse besteht aus Nylonharz. Keinen heißen Gegenstand, wie z.b. ein Bügeleisen, auf das Gehäuse stellen.
- S-Meter und T-Meter werden nicht durch das Gehäuse geschützt. Diese beim Auswechseln vorsichtig handhaben

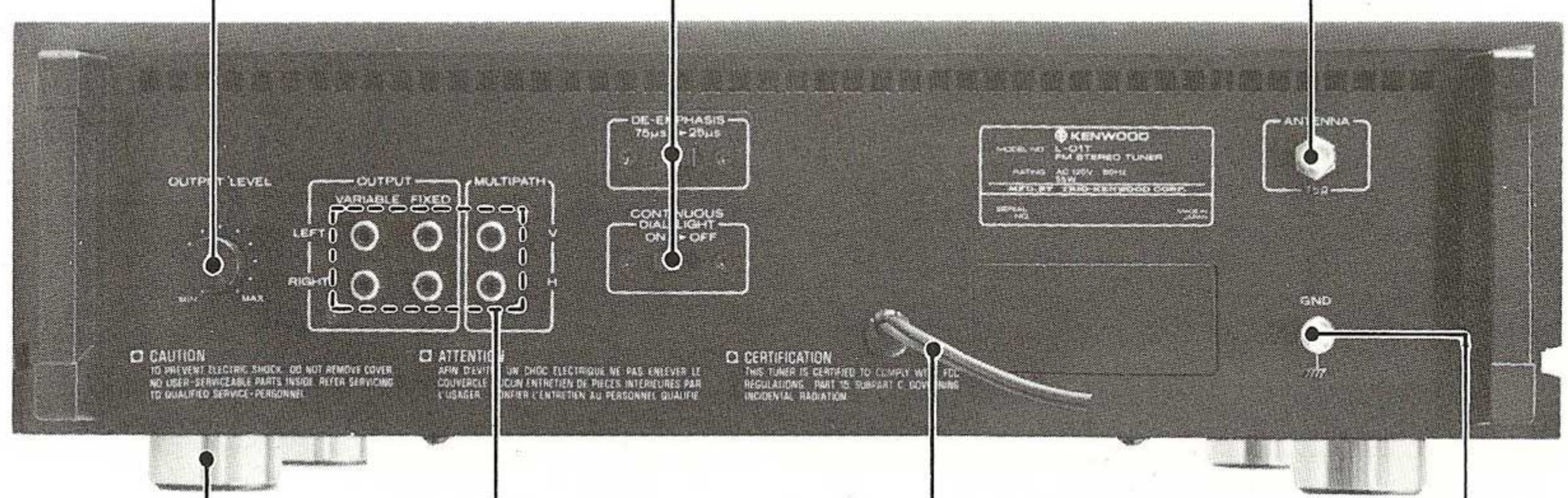
Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

Region	Code
U.S.A.	K
Canade	P
PX	U
Australia	X
Europe & Scandinavia	E
England	T
South Africa	S
Other Areas	M

There is no plan for producing units of S type.

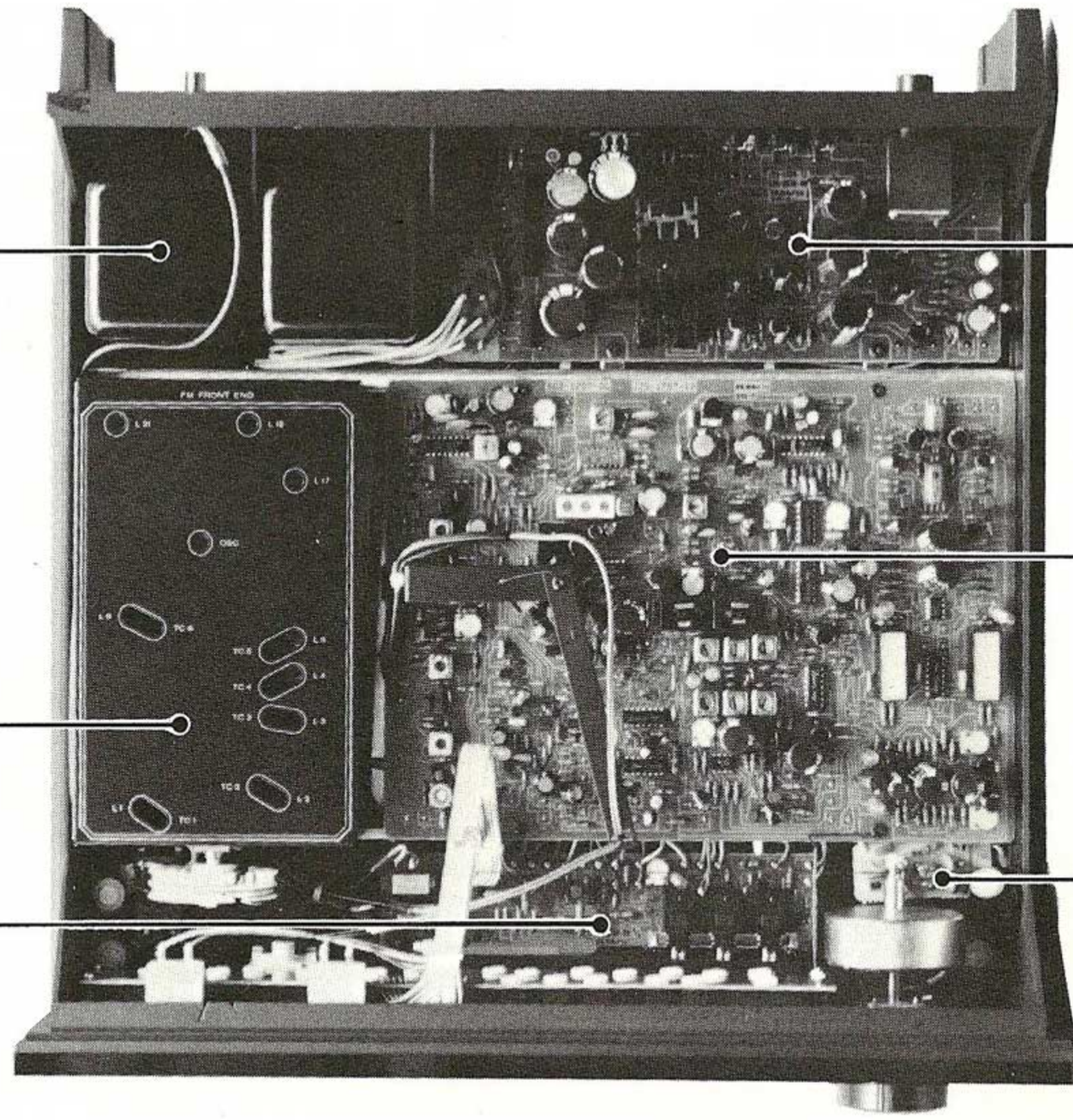
EXTERNAL VIEW





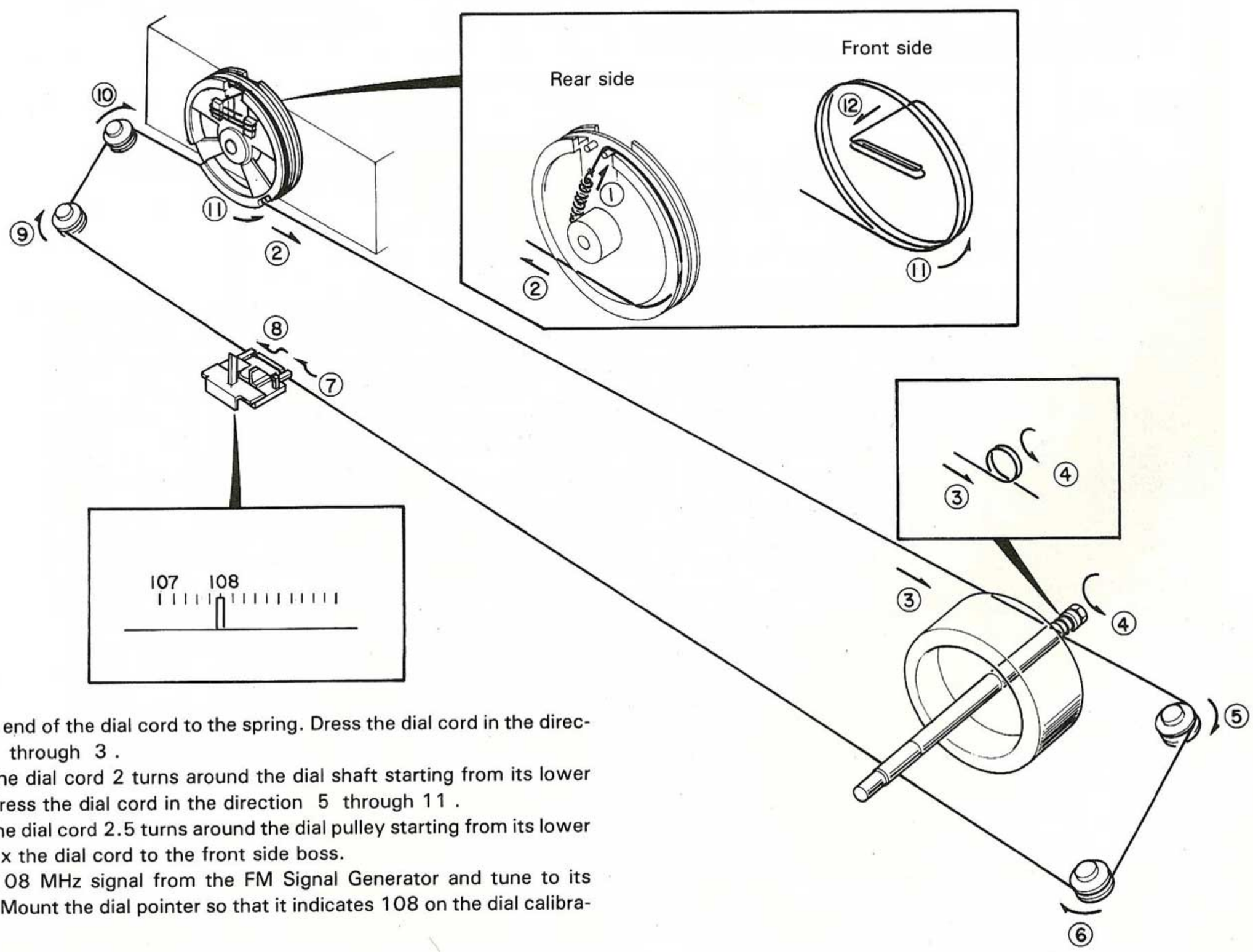
* Refer to Parts List.

INTERNAL VIEW / DIAL CORD STRINGING



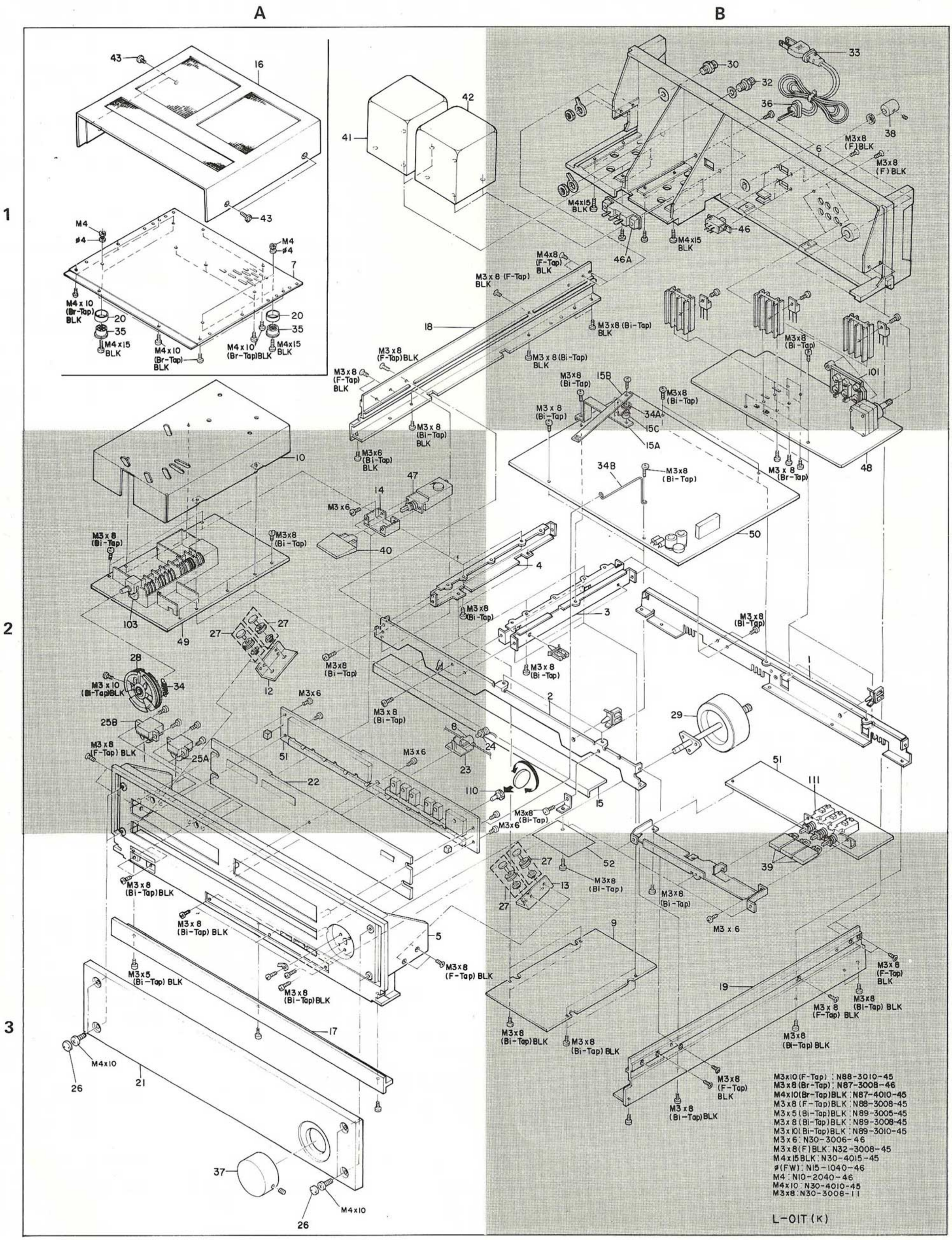
* Refer to Parts List.

DIAL CORD STRINGING



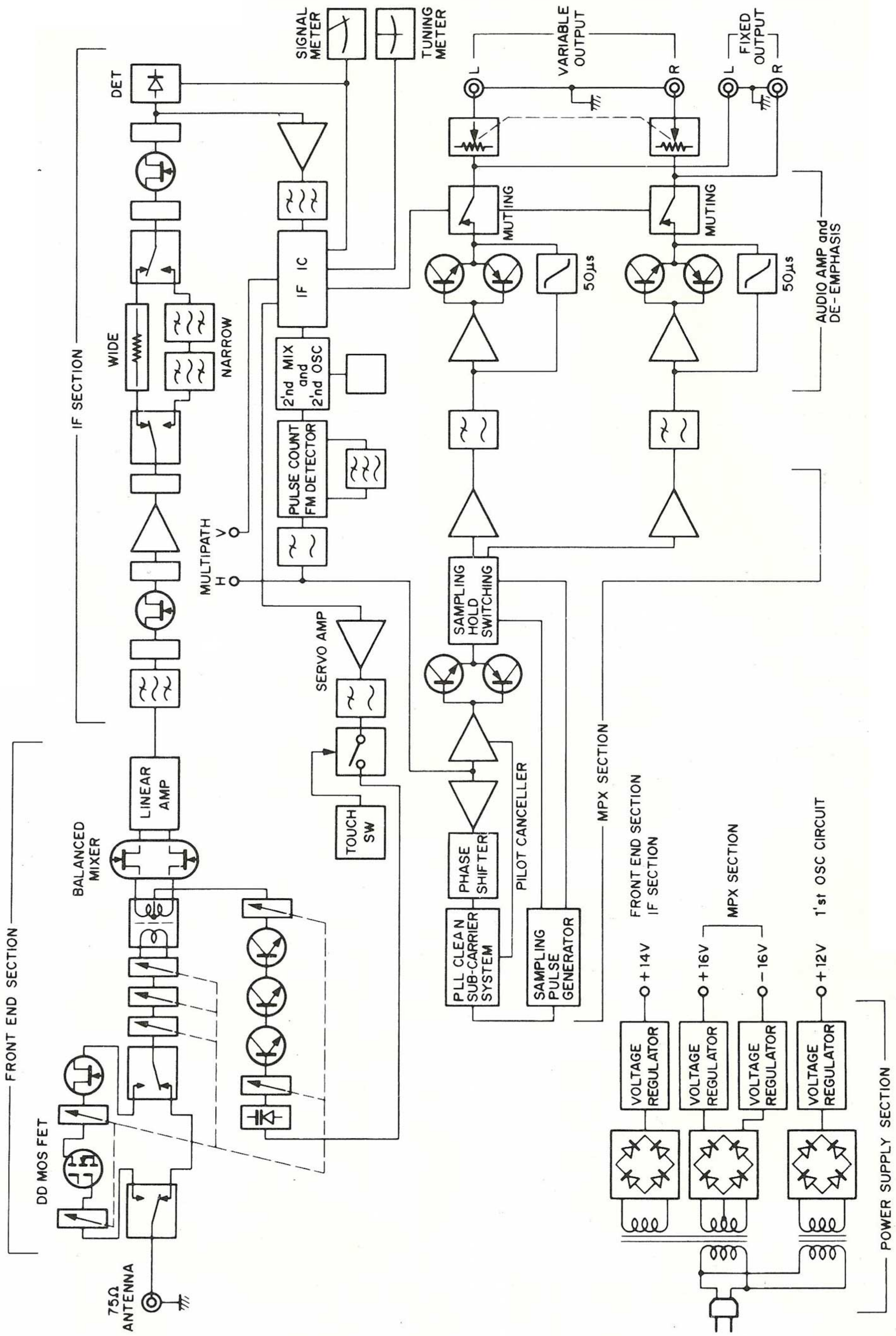
1. Tie the end of the dial cord to the spring. Dress the dial cord in the direction 1 through 3 .
2. Wind the dial cord 2 turns around the dial shaft starting from its lower side. Dress the dial cord in the direction 5 through 11 .
3. Wind the dial cord 2.5 turns around the dial pulley starting from its lower side. Fix the dial cord to the front side boss.
4. Input 108 MHz signal from the FM Signal Generator and tune to its signal. Mount the dial pointer so that it indicates 108 on the dial calibrations.

EXPLODED VIEW



See Parts List on page 20.

BLOCK DIAGRAM



ADJUSTMENT

Set the MODE switch to AUTO/MUTING, IF BAND switch WIDE and RF SELECTOR switch NORMAL, CONTINUOUS DIAL LIGHT switch ON, unless otherwise specified.

NO.	ALIGNMENT	TEST EQUIPMENTS		TUNER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
1	T METER (1)	Ⓐ *1	95MHz 1kHz, 75kHz Dev	95MHz MODE: MONO IF BAND: NARROW	Ⓑ	–	*2
2	T METER (2)	ditto	95MHz 1kHz, 75kHz Dev 60dB *3	95MHz Touch the tuning knob by hand.	T meter	X02-1200 L6	T meter pointer to be on the center line.
3	FRONT END IFT	ditto	95MHz 1kHz, 75kHz Dev Approx. 40dB *3	95MHz	S meter	X01-1310 L17, 19, 21	Maximum deflection
4	TRACKING (1)	ditto	90MHz 1kHz, 75kHz Dev	90MHz MODE:MONO	ditto	X01-1310 L6, 5, 4, 3, 2	Maximum deflection
5	TRACKING (2)	ditto	ditto	ditto	Ⓑ	X01-1310 L1	Minimum distortion and maximum output.
6	TRACKING (3)	ditto	106MHz 1kHz, 75kHz Dev	106MHz MODE:MONO	S meter	X01-1310 TC6, 5, 4, 3, 2	Maximum deflection
7	TRACKING (4)	ditto	ditto	ditto	Ⓑ	X01-1310 TC1	Minimum distortion and maximum output.
8	MUTING	ditto	95MHz 1kHz, 75kHz Dev 10dB *3	ditto	ditto	X02-1200 VR2	*4
9	WIDE GAIN	ditto	95MHz 1kHz, 40kHz Dev	95MHz NARROW	S meter	–	*5
10	WIDE GAIN	ditto	*6	95MHz WIDE	ditto	X02-1200 VR1	S meter deflection: Same as NARROW
11	S METER	ditto	95MHz 1kHz, 40kHz Dev 60dB *3	95MHz	ditto	X02-1200 VR3	*7
12	VCO	ditto	95MHz 0 (Dev) 60dB *3	ditto	Frequency counter to the intersection of R117 and VR6 via SSVM. *8	X02-1200 VR6	76kHz
13	PILOT CANCELLER	Ⓒ	95MHz Pilot signal 60dB *3	ditto	AG to the connecting point of R103 and R104 (X02-1200)	X02-1200 VR7, L16	Minimum output
14	DISTORTION (STEREO)	ditto	95MHz 1kHz, 68.25kHz Dev *9 60dB *3 SELECTOR: L or R	ditto	Ⓑ	X01-1310 L21	Minimum distortion
15	SCA (1)	ditto	95MHz 67kHz, 3.75kHz Dev 60dB *3 SELECTOR: L+R	ditto	DC voltmeter to cathode of D36 (X02-1200)	X02-1200 L10, 11	Maximum DC voltage
16	SCA (2)	ditto	ditto	ditto	DC voltmeter to pin 1 of IC9 (X02-1200)	X02-1200 VR5	*10

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ADJUSTMENT

NO.	ALIGNMENT	TEST EQUIPMENTS		TUNER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
17	NOISE AMP	Ⓐ	–	Dead spot	DC voltmeter to the emitter of Q6 on X02-1200	X02-1200 VR4	DC voltage: 8V

Note: Separation has been adjusted using accurate measuring instruments. Since an ordinary MPX-SG does not have sufficient phase accuracy (especially at 10 kHz), do not use one for separation adjustment. It is not recommended that separation is adjusted in servicing.
For reference, separation adjustment procedures are shown in the following.

NO.	ALIGNMENT	TEST EQUIPMENTS		TUNER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
①	SUB	Ⓒ	95MHz 1kHz, 68.25kHz Dev *9 60dB *3 SELECTOR: L–R	95MHz	Ⓑ	X02-1200 VR8 (L) VR9 (R)	Maximum output
②	SEPARATION (1)	ditto	95MHz 1kHz, 68.25kHz Dev *9 60dB *3 SELECTOR: L	95MHz WIDE	Ⓑ (R CH)	VR11 (L → R)	Minimum crosstalk from the other channel.
③	SEPARATION (2)	ditto	95MHz 1kHz, 68.25kHz Dev *9 60dB *3 SELECTOR: R	ditto	Ⓑ (L CH)	VR10 (R → L)	ditto
④	SEPARATION (3)	ditto	95MHz 10kHz, 68.25kHz Dev *9 60dB *3 SELECTOR: L or R	ditto	ditto	X02-1200 FL5	ditto * 11
Repeat alignments "①~④" several times.							
⑤	SEPARATION (4)	Ⓒ	95MHz 1kHz, 68.25kHz Dev *9 60dB *3 SELECTOR: L or R	95MHz NARROW	Ⓑ	X13-2690 VR1	Minimum crosstalk from the other channel.

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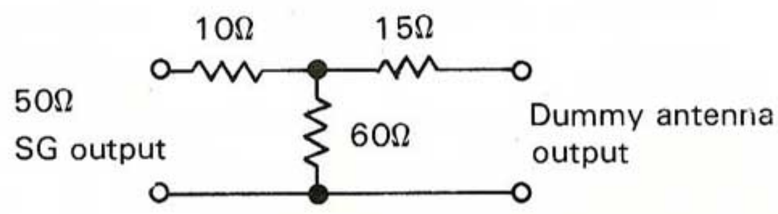
ADJUSTEMENT

TEST INSTRUMENTS

Oscilloscope ..... OSC
AM signal generator ..... AM-SG
FM signal generator ..... FM-SG
Audio frequency generator ..... AG
AC voltmeter.
FM multiplex generator ..... FM-MPX
Frequency counter.
DC voltmeter.
Distortion meter.
Dummy antenna.

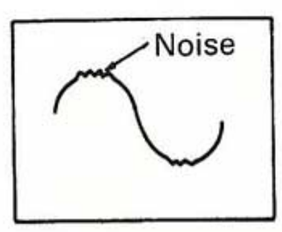
* 1 To perform precise adjustment, a SG (with 75Ω output impedance) must be directly connected to the tuner. Use a connecting cable with a BNC connector at the SG end and an F connctor at the tuner end. When an open-scaled SG (which indicates the output level when no load is connected) is used, subtract 6 dB from the SG reading to obtain ANT input level.
If the output impedance of the SG is 50Ω, use a new IHF standard 50Ω:75Ω dummy antenna.



50Ω:75Ω dummy antenna

If an open-scaled SG is used, subtract 12 dB from the SG reading to obtain ANT input level. If a load-scaled SG (which indicates the output level when a 50Ω load is connected) is used, subtract 6 dB from the SG reading.

* 2 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.



* 3 Tuner input level.

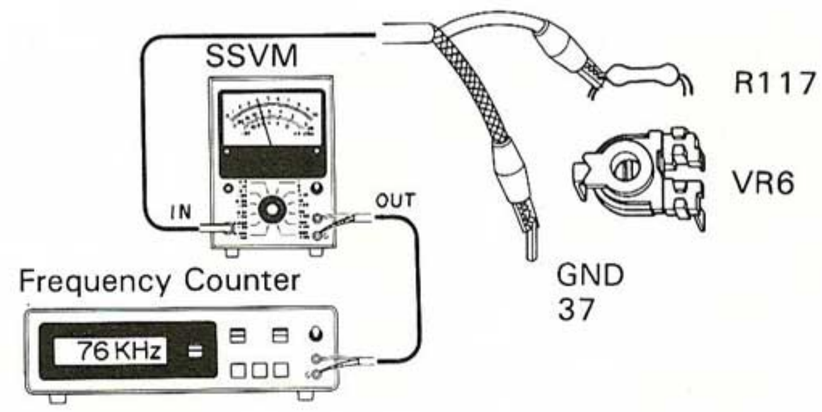
* 4 Turn VR2 until the output waveform disappears, then turn it slightly in the oppposite way until the output waveform appears again.

* 5 TUNER input to achieve a S-meter deflection of 3 scale graduations.

* 6 TUNER input obtained at Step 9

* 7 S-meter deflection: 4.8 scale graduations

* 8



* 9 Set deviation to ±68.25 kHz with selector in L+R position.
Set deviation of pilot signal to 6.75 kHz (9%)

*10 Set VR5 to the position where the voltmeter reading changes from positive to negative.

*11 If sufficient separation cannot be obtained, turn FL5 within ±5° (if they are turned too much, separation at 1 kHz will deteriorate.)

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RÉGLAGES

Placer le MODE dans la position AUTO/MUTING, IF BAND sur WIDE, RF SELECTOR sur NORMAL et CONTINUOUS DIAL LIGHT sur ON sauf indique specialement.

Nº	ALIGNEMENT	APPAREILLAGE		RÉGLAGE DU TUNER	INDICATEUR DE SORTIE	POINTS DE RÉGLAGES	REMARQUES
		RACCORDEMENT	RÉGLAGE				
1	INDICATEUR À ZÉRO CENTRAL(1)	Ⓐ *1	95MHz 1kHz (Mod) 75kHz (Dev)	95MHz	Ⓑ	—	*2
2	INDICATEUR À ZÉRO CENTRAL(2)	idem	95MHz 1kHz (Mod) 75kHz (Dev) 60dB (ENTRÉE ANT) *3	95MHz Toucher le bouton d'accord avec la main	INDICATEUR À ZÉRO CENTRAL	X02-1200 L6	Aiguille de l'indicateur à zéro central en position centrale
3	PARTIE FRONTALE FR	idem	95MHz 1kHz (Mod) 75kHz (Dev) 40dB (ENTRÉE ANT) *3	95MHz	INDICATEUR DE CHAMP	X01-1310 L17, 19, 21	Déviation maximale
4	ALIGNEMENT (1)	idem	95MHz 1kHz (Mod) 75kHz (Dev)	90MHz	idem	X01-1310 L6, 5, 4, 3, 2	Déviation maximale
5	ALIGNEMENT (2)	idem	idem	idem	Ⓑ	X01-1310 L1	Distorsion minimale et déviation maximale
6	ALIGNEMENT (3)	idem	106MHz 1kHz (Mod) 75kHz (Dev)	106MHz	INDICATEUR DE CHAMP	X01-1310 TC6,5,4,3,2	Déviation maximale
7	ALIGNEMENT (4)	idem	idem	idem	Ⓑ	X01-1310 TC1	Distorsion minimale et déviation maximale
8	MUTING	idem	95MHz 1kHz (Mod) 75kHz (Dev) 10dB *3	idem	idem	X02-1200 VR2	*4
9	GRAND GAIN	idem	95MHz 1kHz (Mod) 40kHz (Dev)	95MHz NARROW	INDICATEUR DE CHAMP	—	*5
10	GRAND GAIN	idem	* 6	95MHz WIDE	idem	X02-1200 VR1	Déviation du Vu-mètre: La même que pour NARROW
11	INDICATEUR DE CHAMP	idem	95MHz 1kHz (Mod) 40kHz (Dev) 60dB (ENTRÉE ANT) *3	95MHz	idem	X02-1200 VR3	*7
12	OSCILLATEUR 76kHz	idem	95MHz 0 (Dev) 60dB (ENTRÉE ANT) *3	idem	Compteur de fréquence au point d'intersection à R117 et VR6 par SSVM. *8	X02-1200 VR6	76kHz
13	CIRCUIT SUPPRESSION DE SIGNAL PILOTE	Ⓒ	95MHz signal pilote 60dB (ENTRÉE ANT) *3	idem	Relier le générateur de fréquence audio aux point de connection de R103 et R104 (X02-1200)	X02-1200 VR7, L16	Sortie minimale
14	DISTORSION (STÉRÉO)	idem	95MHz 1kHz (Mod) 68,25kHz (Dev)*9 60dB (ENTRÉE ANT) *3 SELECTION (L ou R)	idem	Ⓑ	X01-1310 L21	Distorsion minimale

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RÉGLAGES

Nº	ALIGNEMENT	APPAREILLAGE		RÉGLAGE DU TUNER	INDICATEUR DE SORTIE	POINTS DE RÉGLAGES	REMARQUES
		RACCORDEMENT	RÉGLAGE				
15	SCA (1)	Ⓐ	95MHz 67kHz (Mod) 3,75kHz (Dev) 60dB (ENTRÉE ANT) *3 SELECTION (L+R)	idem	Relier le voltmètre CC à cathode de D36 D36 (X02-1200)	X02-1200 L10, 11	Lecture maximale du voltmètre CC
16	SCA (2)	idem	idem	idem	Relier le voltmètre CC au plot 1 de IC9 (X02-1200)	X02-1200 VR5	*10
17	AMPLIFICATEUR DE BRUIT	idem	—	Inter-station	Relier le voltmètre CC à l'émetteur de Q6 (X02-1200)	X02-1200 VR4	Le voltage CC: 8V

Note: La séparation a été réglée en utilisant des instruments de mesure de précision. Du fait qu'un MPX-SG ordinaire n'a pas une précision de phase suffisante (généralement à 10 kHz), ne pas utiliser un tel appareil pour le réglage de la séparation. Il n'est pas recommandé d'effectuer le réglage de la séparation lors de l'entretien.
Les opérations de réglage de la séparation sont indiquées à la suite en référence.

Nº	ALIGNEMENT	APPAREILLAGE		RÉGLAGE DU TUNER	INDICATEUR DE SORTIE	POINTS DE RÉGLAGES	REMARQUES
		RACCORDEMENT	RÉGLAGE				
①	SUB	Ⓒ	95MHz 1kHz (Mod) 68,25kHz (Dev)*9 60dB (ENTRÉE ANT) *3 SELECTION (L – R)	95MHz	Ⓑ	X02-1200 VR8 (L) VR9 (R)	Sortie maximale
②	SÉPARATION (1)	idem	95MHz 1kHz (Mod) 68,25kHz (Dev) 60dB (ENTRÉE ANT) *3 SELECTION (L)	95MHz WIDE	Ⓑ (R CH)	VR11 (L → R)	Diaphonie minimale
③	SÉPARATION (2)	idem	95MHz 1kHz (Mod) 68,25kHz (Dev) 60dB (ENTRÉE ANT) *3 SELECTION (R)	idem	Ⓑ (L CH)	VR10 (R → L)	idem
④	SÉPARATION (3)	idem	95MHz 10kHz (Mod) 68,25kHz (Dev)*9 60dB (ENTRÉE ANT) *3 SELECTION (L ou R)	idem	idem	X02-1200 FL5	idem *11
Répéter les points " ① ~ ④" plusieurs fois.							
⑤	SÉPARATION (4)	Ⓒ	95MHz 10kHz (Mod) 68,25kHz (Dev)*9 60dB (ENTRÉE ANT) *3 SELECTION (L ou R)	95MHz NORMAL	Ⓑ	X13-2690 VR1	Diaphonie minimale

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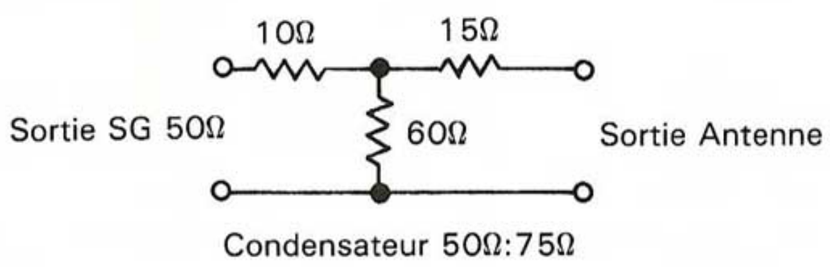
RÉGLAGES

APPAREILLAGE

Oscilloscope ..... SCOPE
Générateur MA ..... AM-SG
Générateur MF..... FM-SG
Générateur audio fréquences ..... AG
Voltmètre CA.
Générateur multiplex stéréo ..... FM-MPX
Fréquencemètre.
Voltmètre CC.
Distorsiomètre.
Antenne fictive.

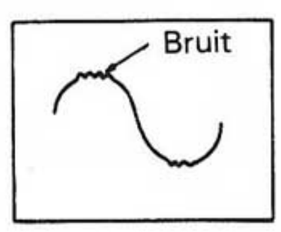
* 1 Pour réaliser un ajustement précis, SG (avec 75Ω d'impédance de sortie) doit être connecté directement au tuner. Utiliser un câble de connexion avec un connecteur BNC à l'extrémité de SG et un connecteur F à l'extrémité du tuner. Quand un SG à échelle ouverte (ce qui indique que le niveau de sortie au moment où il n'y a aucune charge de connectée) est utilisé, soustraire 6 dB de la lecture SG pour obtenir le niveau d'entrée ANT.

Si l'impédance de sortie de SG est de 50Ω, utiliser une antenne artificielle de 50Ω:75Ω de la nouvelle norme IHF.



Si un SG à échelle ouverte est utilisé, soustraire 12 dB de la lecture SG pour obtenir le niveau d'entrée ANT. Si un SG à échelle chargée (ce qui indique le niveau de sortie au moment où la charge de 50Ω est connectée) est utilisé, soustraire 6 dB de la lecture SG.

* 2 Adjuster 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.



* 3 Niveau d'entrée du tuner.

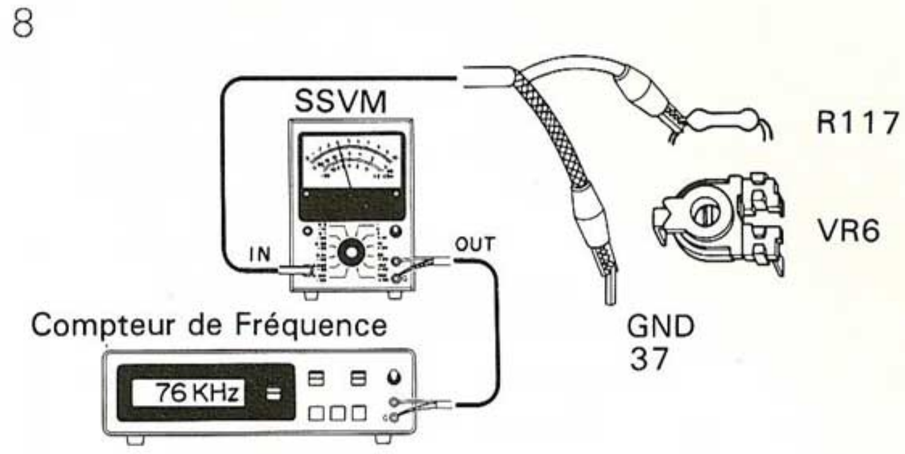
* 4 Tourner VR2 jusqu'à ce que la forme d'onde de sortie disparaisse, le tourner ensuite légèrement dans le sens opposé jusqu'à ce que la forme d'onde de sortie apparaisse à nouveau.

* 5 TUNER entrée pour obtenir une déviation de 3 graduations d'échelle de l'indicateur de champ.

* 6 TUNER entrée obtenue dans l'opération 9.

* 7 Déviation de l'indicateur de champ: 4,8 graduations de l'échelle.

* 8



* 9 Régler la déviation à ±68,25 kHz avec le sélecteur en position L+R (gauche + droite). Régler la déviation du signal pilote à 6,75 kHz (9%).

*10 Régler VR5 à la position à laquelle la lecture du voltmètre passe de positive à négative.

*11 Si l'on ne peut obtenir une séparation suffisante, tourner FL5 dans les limites de ±5°.
Si l'on tourne de trop, la séparation à 1 kHz sera dépassée).

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ABGLEICH

Außers wenn anders angegeben, MODE-Schalter auf AUTO/MUTING, IF BAND-Schalter auf WIDE, RF SELECTOR-Schalter auf NORMAL und CONTINUOUS DIAL LIGHT-Schalter auf ON einstellen.

NR.	ABGLEICH	PRÜFEINRICHTUNG		TUNER EINSTELLUNG	AUSGANGS-ANZEIGE	EINSTELL-PUNKT	BEMERK-UNGEN
		ANSCHLÜSSE	EINSTELLUNG				
1	KANALMITTEN-ANZEIGER (1)	Ⓐ *1	95MHz 1kHz, 75kHz Hub	95MHz	Ⓑ	–	*2
2	KANALMITTEN-ANZEIGER (2)	dito	95MHz 1kHz, 75kHz Hub 60dB *3	95MHz Einstellknopf mit der Hand berühren	Kanalmitten-Anzeiger	X02-1200 L6	Nadel des Kanal-mitten-Anzeigers muß auf Mittellinie stehen
3	EINGANGS-STUFE RF	dito	95MHz 1kHz, 75kHz Hub 40dB *3	95MHz	Feldstärkein-strument	X01-1310 L17, 19, 21	Maximaler Ausschlag
4	EMPFANGS-BEREICH (1)	dito	90MHz 1kHz, 75kHz Hub	90MHz	dito	X01-1310 L6, 5, 4, 3, 2	Maximaler Ausschlag
5	EMPFANGS-BEREICH (2)	dito	dito	dito	Ⓑ	X01-1310 L1	Minimaler Klirr und maximaler Ausgang
6	EMPFANGS-BEREICH (3)	dito	106MHz 1kHz, 75kHz Hub	106MHz	Feldstärkein-strument	X01-1310 TC6,5,4,3,2	Maximaler Ausschlag
7	EMPFANGS-BEREICH (4)	dito	dito	dito	Ⓑ	X01-1310 TC1	Minimaler Klirr und maximaler Ausgang
8	MUTING	dito	95MHz 1kHz, 75kHz Hub 10dB *3	dito	dito	X02-1200 VR2	*4
9	FELDSTÄRKE-INSTRUMENT (WEIT)	dito	95MHz 1kHz, 40kHz Hub	95MHz NARROW	Feldstärkein-strument	–	*5
10	FELDSTÄRKE-INSTRUMENT (WEIT)	dito	*6	95MHz WIDE	dito	X02-1200 VR1	S-Meter-Ausschlag: Gleich wie bei NARROW
11	FELDSTÄRKE-INSTRUMENT	dito	95MHz 1kHz, 40kHz Hub 60dB *3	95MHz	dito	X02-1200 VR3	*7
12	SPANNUNGS-GEREGELTER OSZILLATOR	dito	95MHz 0 (Hub) 60dB (Eingangs-signalpegel) *3	dito	Den Frequenzzähler über SSVM zum Schnittpunkt von R117 und VR6. *8	X02-1200 VR6	76kHz
13	PILOT-LÖSCHER	Ⓒ	95MHz Pilotsignal 60dB *3	dito	AG zum Anschluss-punkt von R103 und R104 (X02-1200)	X02-1200 VR7, L16	Minimaler Ausgang
14	KLIRRFAKTOR (STEREO)	dito	95MHz 1kHz, 68,25kHz Hub *9 60dB *3 SELECTOR: L or R	dito	Ⓑ	X01-1310 L21	Minimale Klirr

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ABGLEICH

NR.	ABGLEICH	PRÜFEINRICHTUNG		TUNER EINSTELLUNG	AUSGANGS-ANZEIGE	EINSTELL-PUNKT	BEMERK-UNGEN
		ANSCHLÜSSE	EINSTELLUNG				
15	SCA (1)	Ⓐ	95MHz 67kHz, 3,75kHz Hub 60dB * SELECTOR: L+R	dito	Gleichstrom-Voltmesser an die Kathode von D36 (X02-1200)	X02-1200 L10, 11	Maximale Gleichstrom-Spannung
16	SCA (2)	dito	dito	dito	Gleichspan-nungsmesser zu Klemme 1 von IC9 (X02-1200)	X02-1200 VR5	*10
17	GER ÄUSCH–VERSTÄRKER	dito	–	Zwischenstation	Gleichspan-nungsmesser an die Emitter von Q6 (X02-1200)	X02-1200 VR4	Ausgangs-spannung: 8V

Zur Beachtung: Die Trennung wurde mit Hilfe von genauen Meßinstrumenten eingestellt. Da ein gewöhnlicher MPX-Meßsender keine ausreichende Phasengenauigkeit (besonders bei 10 kHz) hat, kein derartiges Gerät für die Einstellung der Trennung verwenden. Es ist empfehlenswert, die Trennung beim Warten einzustellen.
Das Vorgehen beim Einstellen der Trennung wird im folgenden beschrieben.

NR.	ABGLEICH	PRÜFEINRICHTUNG		TUNER EINSTELLUNG	AUSGANGS-ANZEIGE	EINSTELL-PUNKT	BEMERK-UNGEN
		ANSCHLÜSSE	EINSTELLUNG				
①	SUB	Ⓒ	95MHz 1kHz, 68,25kHz Hub *9 60dB *3 SELECTOR: L–R	dito	Ⓑ	X02-1200 VR8 (L) VR9 (R)	Maximaler Aus-gang,
②	STEREO KANAL TRENNUNG (1)	dito	95MHz 1kHz (Mod) 68,25kHz (Dev) 60dB *3 SELECTOR: L	95MHz WIDE	Ⓑ (R CH)	VR11 (L → R)	Minimales Übersprechen
③	STEREO KANAL TRENNUNG (2)	dito	95MHz 1kHz (Mod) 68,25kHz (Dev) 60dB *3 SELECTOR: R	dito	Ⓑ (L CH)	VR10 (R → L)	dito
④	STEREO KANAL TRENNUNG (3)	dito	95MHz 10kHz, 68,25kHz Hub *9 60dB *3 SELECTOR: L or R	dito	dito	X02-1200 FL5	dito *11
Abstimmungen " ① bis ④ " mehrere Male wiederholen.							
⑤	STEREO KANAL TRENNUNG (4)	Ⓒ	95MHz 1kHz, 68,25kHz Hub *9 60dB *3 SELECTOR: L or R	95MHz NORMAL	Ⓑ	X13-2690 VR1	Minimales Übersprechen

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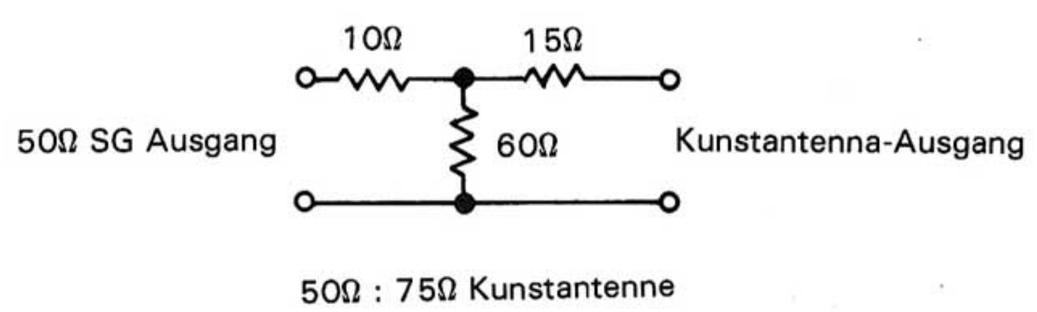
ABGLEICH

PRÜFINSTRUMENTE

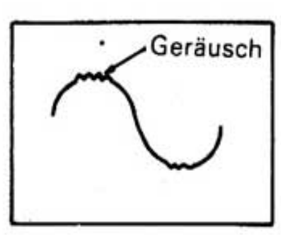
Oszilloskop ..... SCOPE
MW-Signalgenerator ..... AM-SG
UKW-Signalgenerator ..... FM-SG
NF-Signalgenerator..... AG
Wechselspannungsmesser
UKW-Multiplexgenerator ..... FM-MPX
Frequenzzähler
Gleichspannungsmesser
Klirrfaktormesser
Antennennachbildung

* 1 Für präzise Einstellung muß das SG (75Ω Ausgangs-Impedanz) direkt an den Tuner angeschlossen werden. Dazu ein Kabel mit einem BNC-Stecker am einen Ende und einem F-Stecker am anderen Ende verwenden. Wird ein offenes SG (zur Angabe des Ausgangspegels wenn keine zusätzliche Belastung angeschlossen ist) verwendet, 6 dB von der SG-Angabe subtrahieren um den ANT-Eingangspegel zu erhalten.
Ist die Ausgangs-Impedanz von SG 50Ω, das 50Ω:75Ω Kunstantenna der neuen IHF-Norm verwenden.



Bei Verwendung eines offenen SG, 12 dB von der SG. Angabe subtrahieren, um den ANT-Eingangspegel zu erhalten. Wird ein belastetes SG (Angabe des Ausgangspegels bei Anschluss von 50Ω) verwendet, 6 dB von der SG Angabe subtrahieren.

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



* 3 Tuner-Eingangspegel

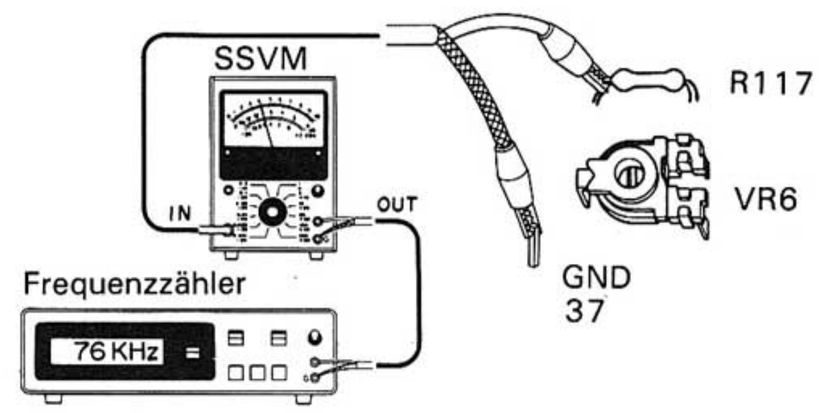
* 4 VR2 drehen, bis die Ausgangs-Wellenform verschwindet: dann leicht in der entgegengesetzten Richtung drehen, bis die Ausgangswellenform wieder erscheint

* 5 TUNER Eingang für einen Feldstärkeinstrument-Ausschlag von 3 Skalenteilungen.

* 6 TUNER Eingang bei Schritt 9.

* 7 Feldstärkeinstrument-Ausschlag: 4,8 Skalenteilungen.

* 8



* 9 Hub mit dem Wahlschalter auf L+R auf 68,25 kHz einstellen. Hub des Kontrollsignals auf 6,75 kHz (9%) einstellen.

*10 VR5 so einstellen, daß die Voltmeter-Angabe von positiv auf negativ umschlägt.

*11 Ist die Trennung ungenügend, FL5 innerhalb von ±3° drehen (wird über ±5° gedreht, so wird die 1 kHz-Trennung negativ beeinträchtigt).

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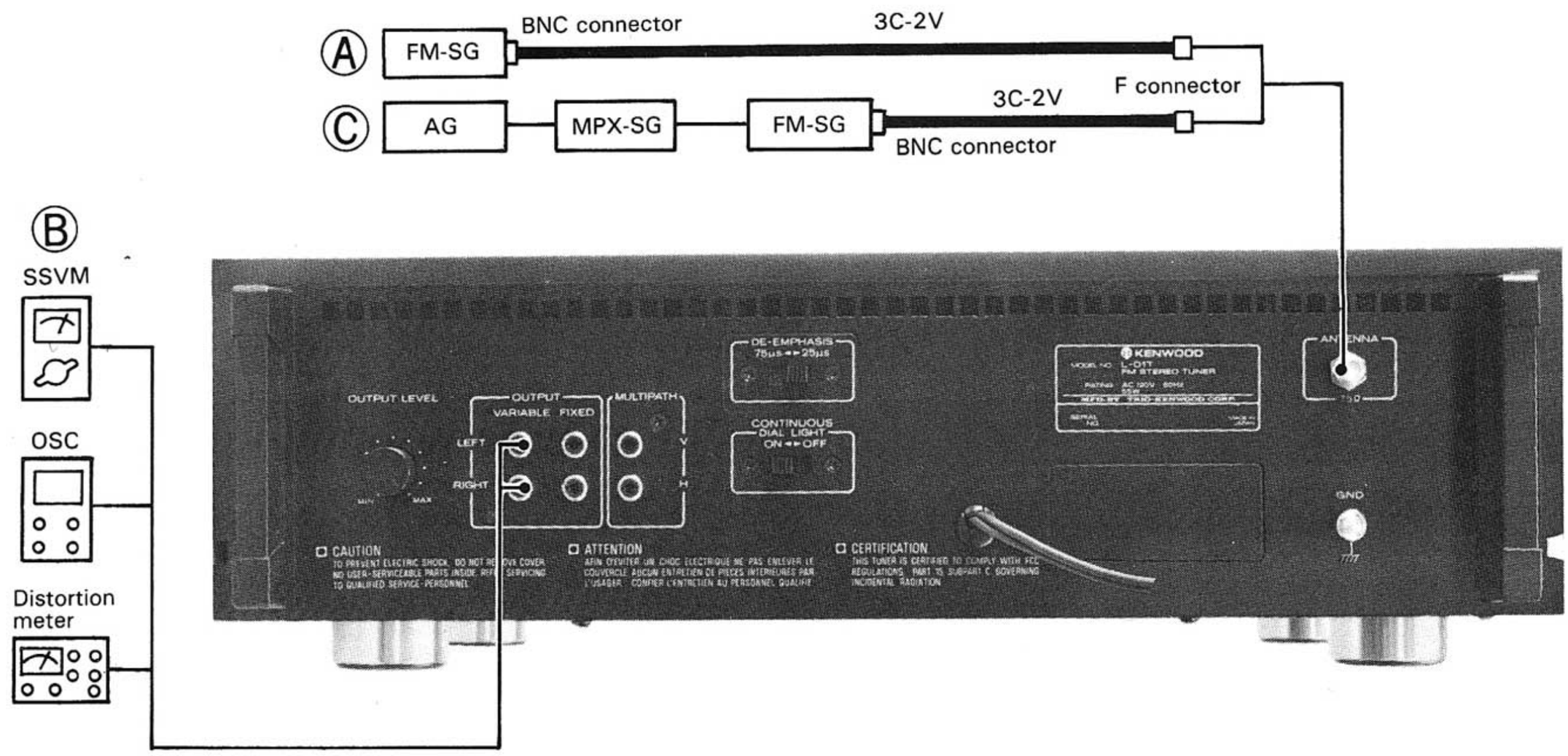
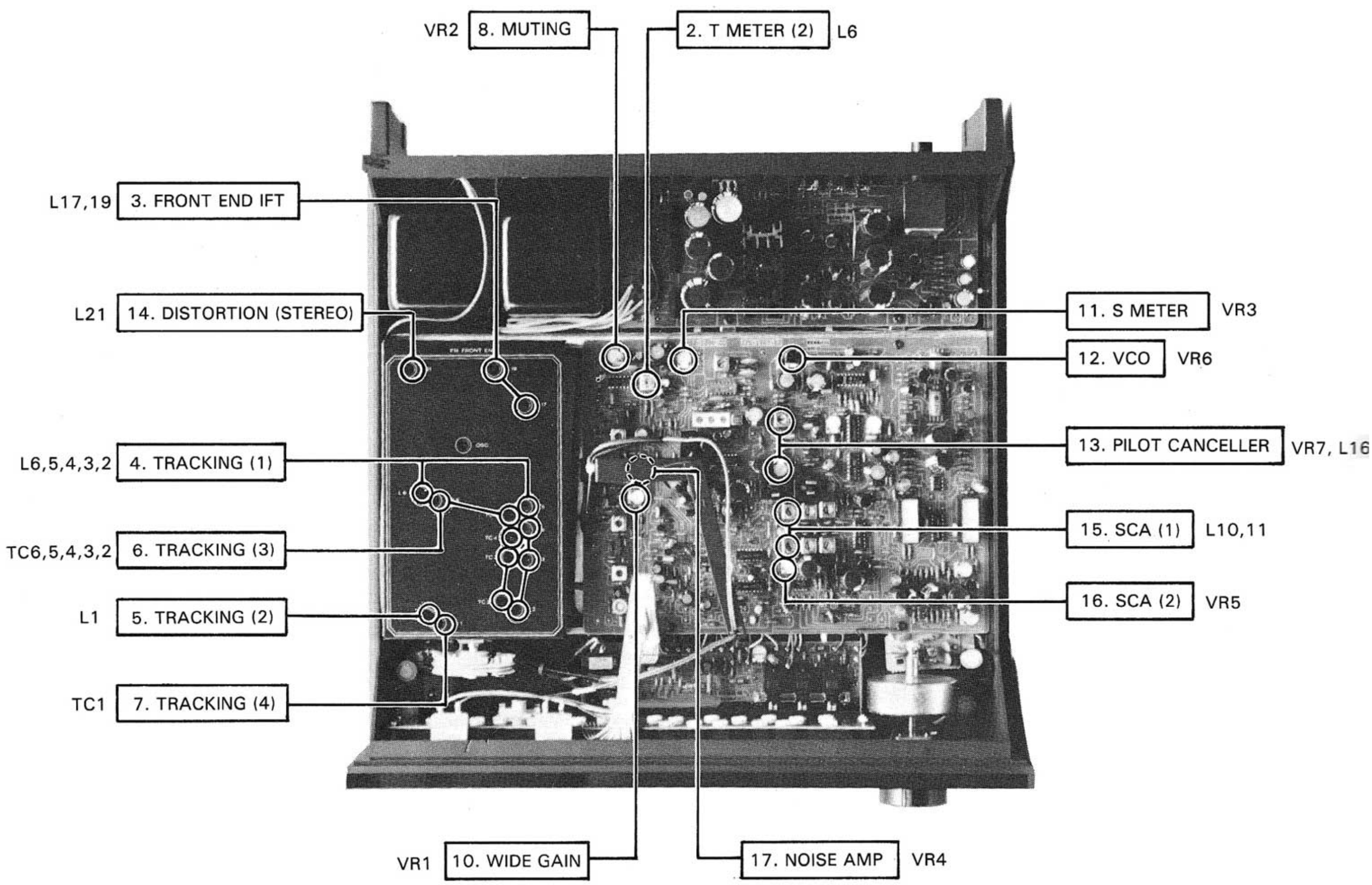
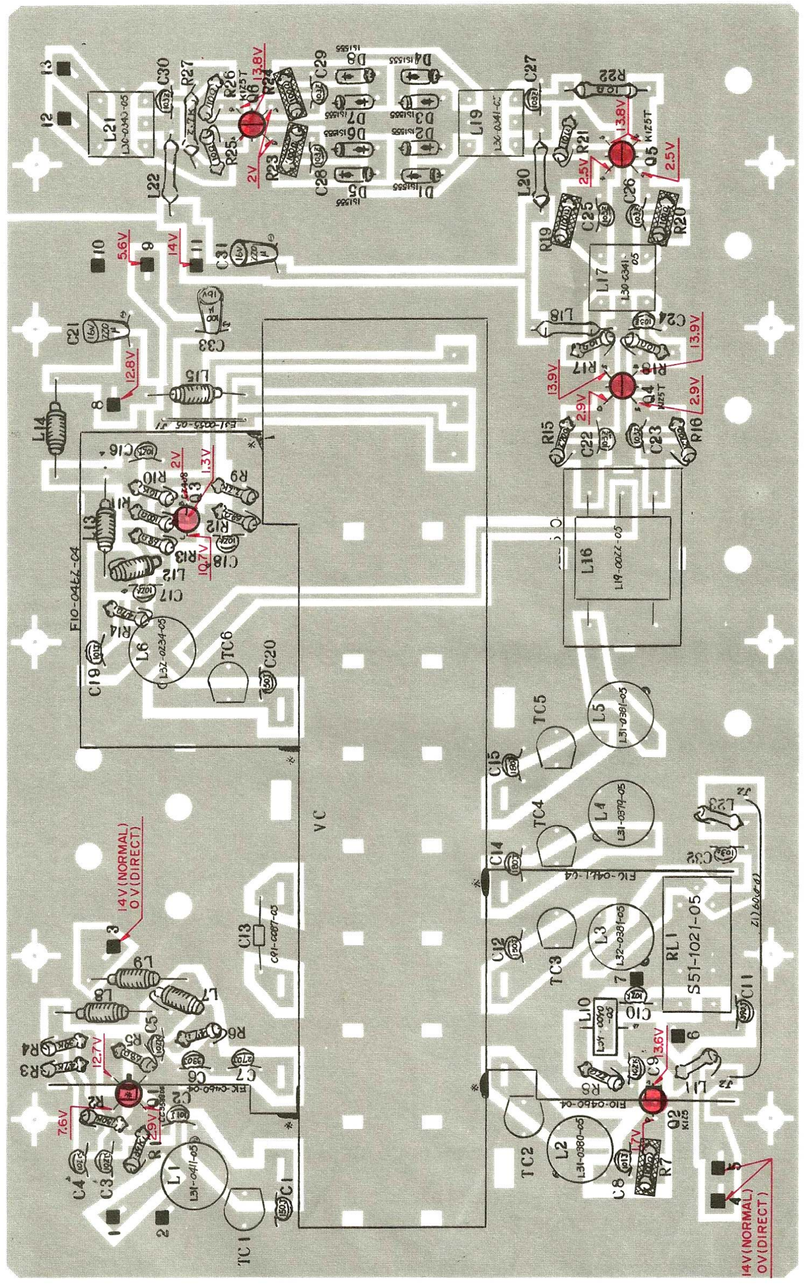
ADJUSTMENT / RÉGLAGES / ABGLEICH





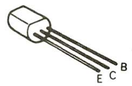
PC BOARD

RF(X01-1310-11) Component side view

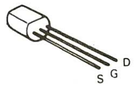


Q1 : CC3588DE
Q2 : 2SK125
Q3 : 2SC2408
Q4~6 : 2SK125-T
D1~8 : 1S1555 or 1S2076

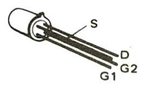
2SC2408



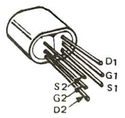
2SK125



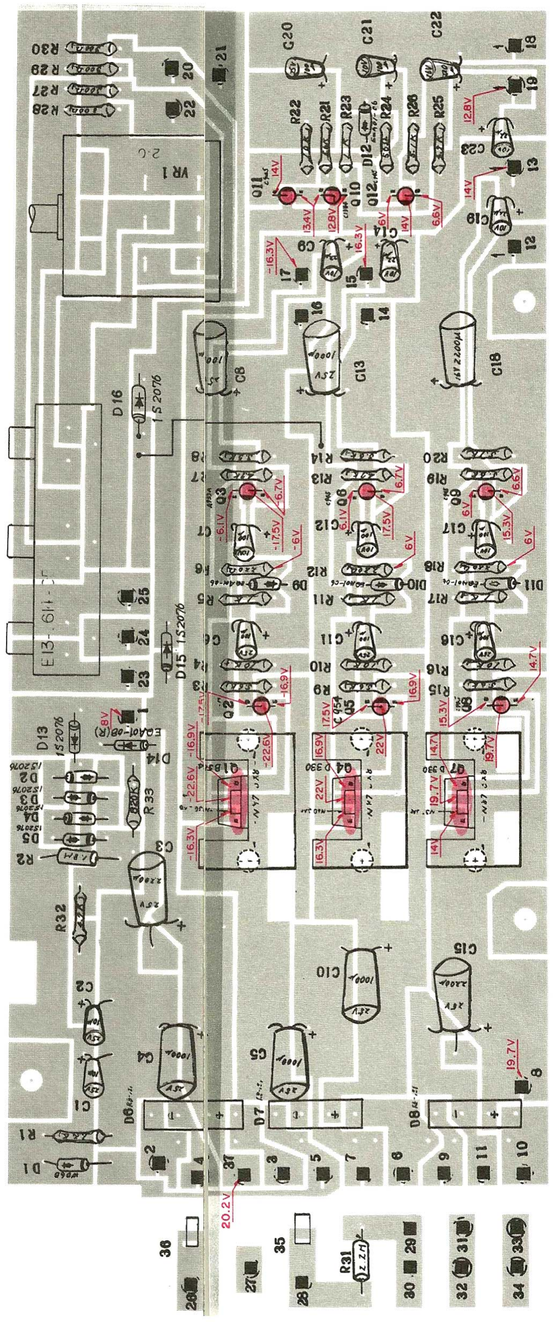
CC3588DE



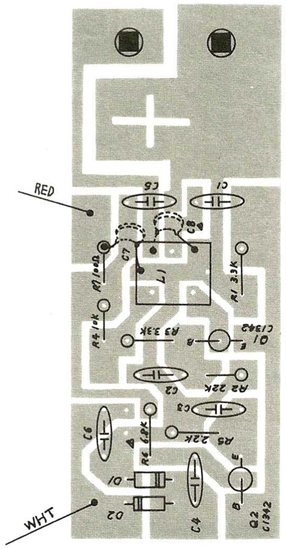
2SK125T



POWER SUPPLY(X00-2070-11) Component side view

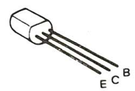


SWITCH(X13-2760-00) Component side view

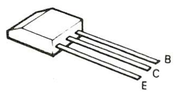


Q1,2 : 2SC1342
D1,2 : 1S2076 or 1S1555

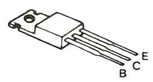
2SA733
2SC945
2SC1384



2SC1342



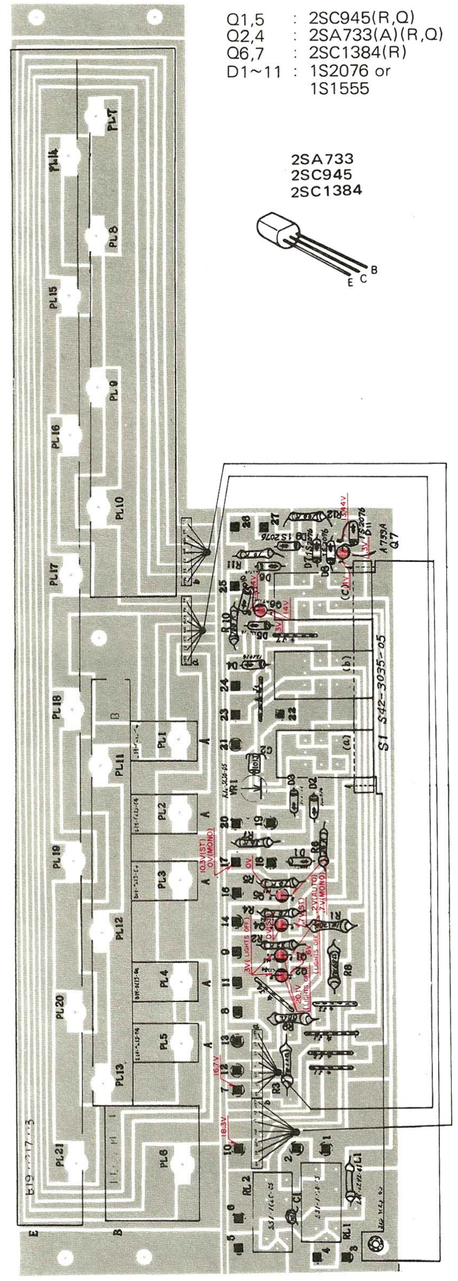
2SB514
2SD330



Q1 : 2SB514(E)
Q2,3 : 2SA733(A)(Q)
Q4,7 : 2SD330(E)
Q5,6,8,9,11,12 : 2SC945(Q)
Q10 : 2SC1384(R)

D1 : W06B
D2~5,13,15,16 : 1S2076 or 1S1555
D6~8 : RB151
D9~12 : EQA01-06S
D14 : EQA01-08(R)

SUB(X13-2690-00) Component side view

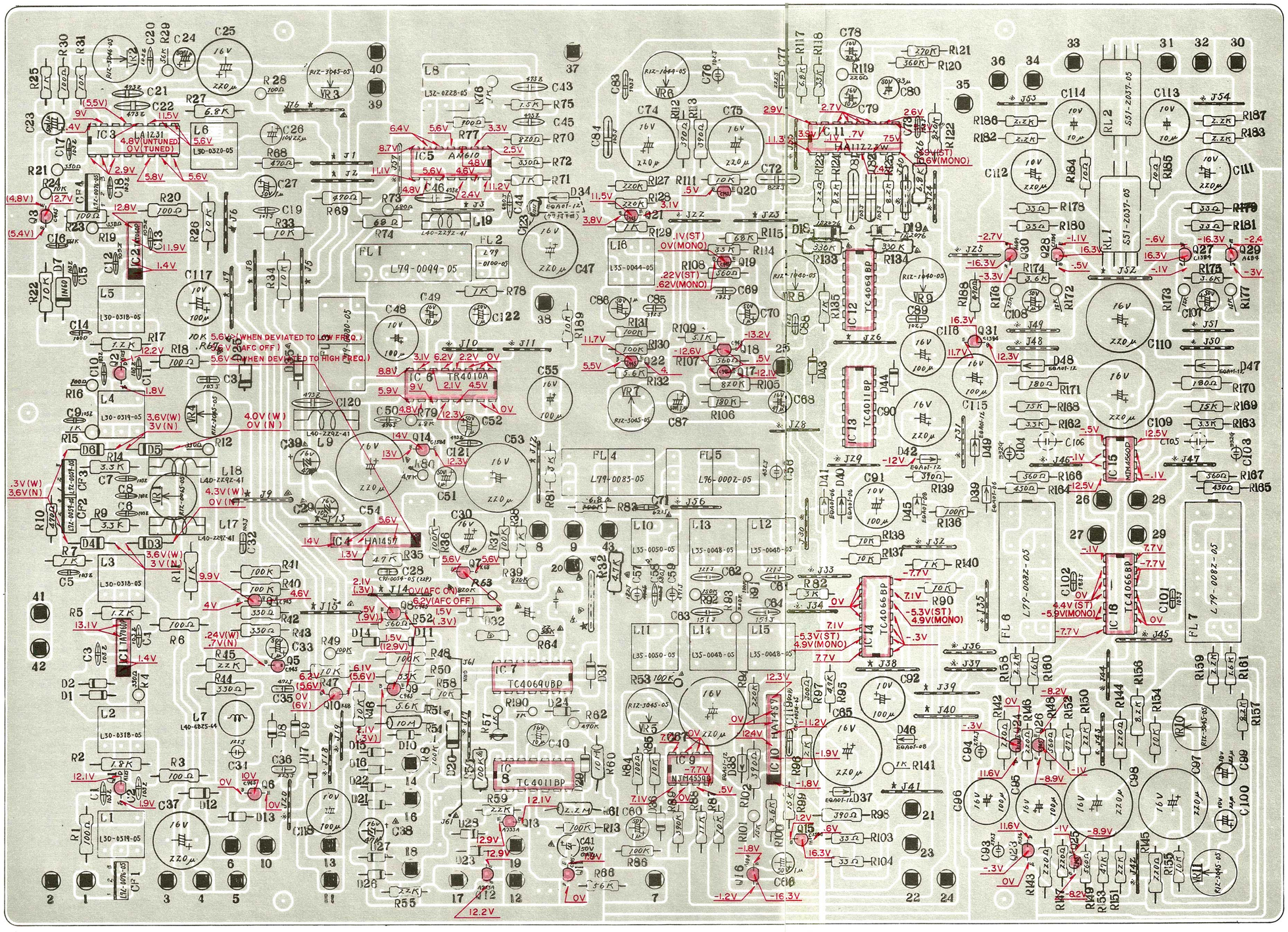


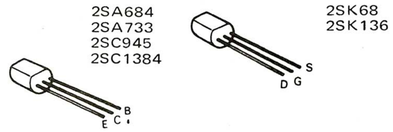
Q1,5 : 2SC945(R,Q)
Q2,4 : 2SA733(A)(R,Q)
Q6,7 : 2SC1384(R)
D1~11 : 1S2076 or 1S1555

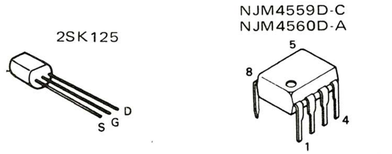
2SA733
2SC945
2SC1384

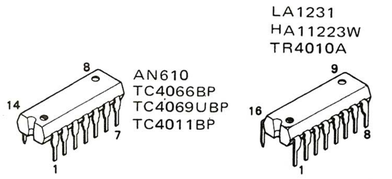
PC BOARD

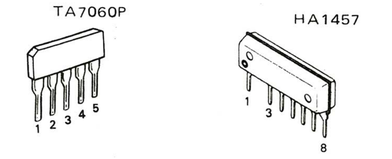
IF(X02-1200-11) Component side view







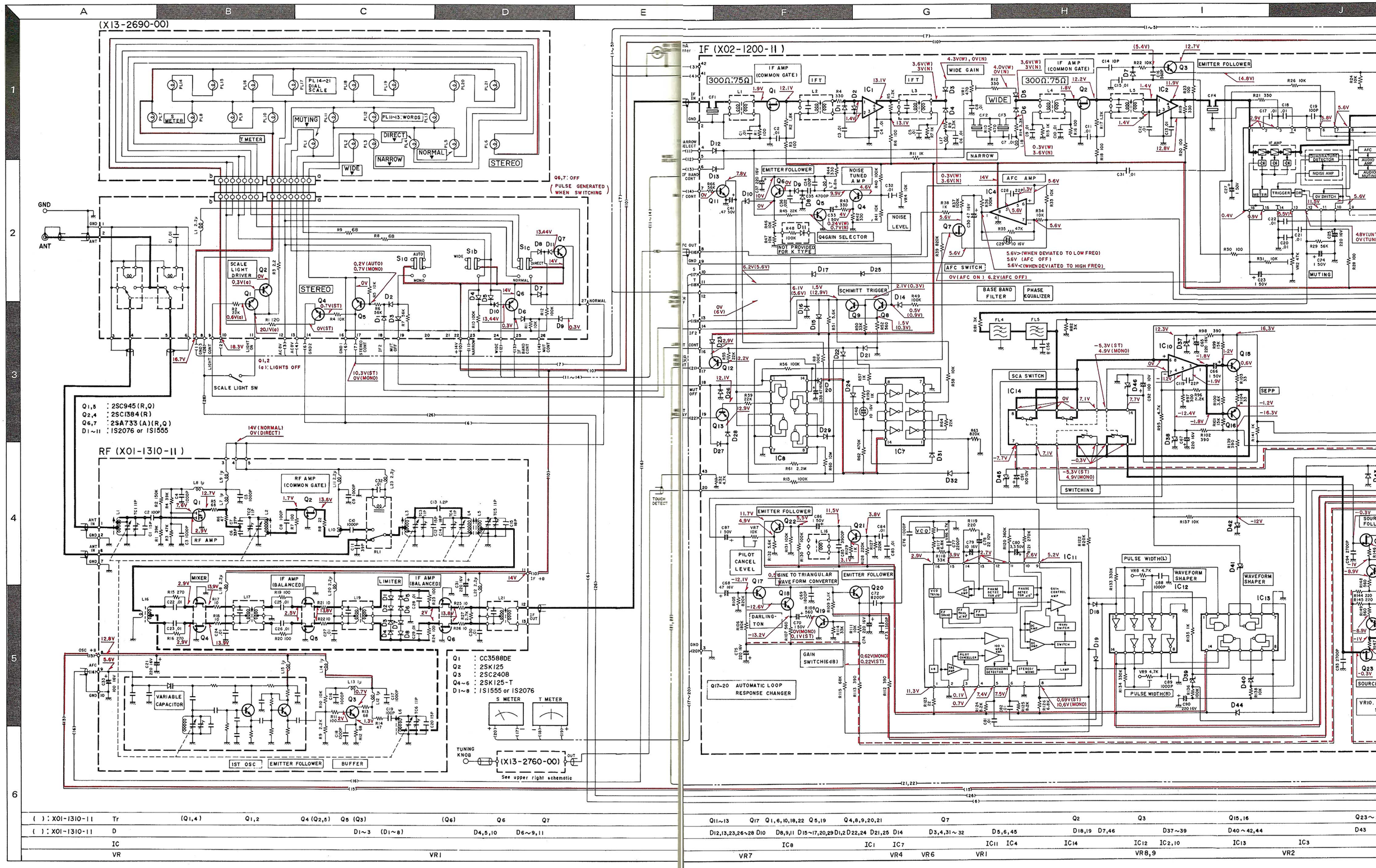




Q1,2	:	2SK125
Q3~6,8,9,11,17~22,25,26	:	2SC945(R,Q)
Q7,10	:	2SK68(M)
Q12,13	:	2SA733(A)(R,Q)
Q14,15,27,28,31	:	2SC1384(R)
Q16,29,30	:	2SA684(R)
Q23,24	:	2SK136(R)
D1~6,8~29,31,32,35,36, 43,44	:	1S2076 or 1S1555
D7	:	1N60
D34,37,38,42,47~49	:	EQA01-12S
D39~41	:	EQA01-06S
D45,46	:	EQA01-08S
IC1,2	:	TA7060P
IC3	:	LA1231
IC4,10	:	HA1457
IC5	:	AN610
IC6	:	TR4010A
IC7,12	:	TC4069UBP
IC8,13	:	TC4011BP
IC9	:	NJM4559D-C
IC11	:	HA11223W
IC14,16	:	TC4066BP
IC15	:	NJM4560D-A

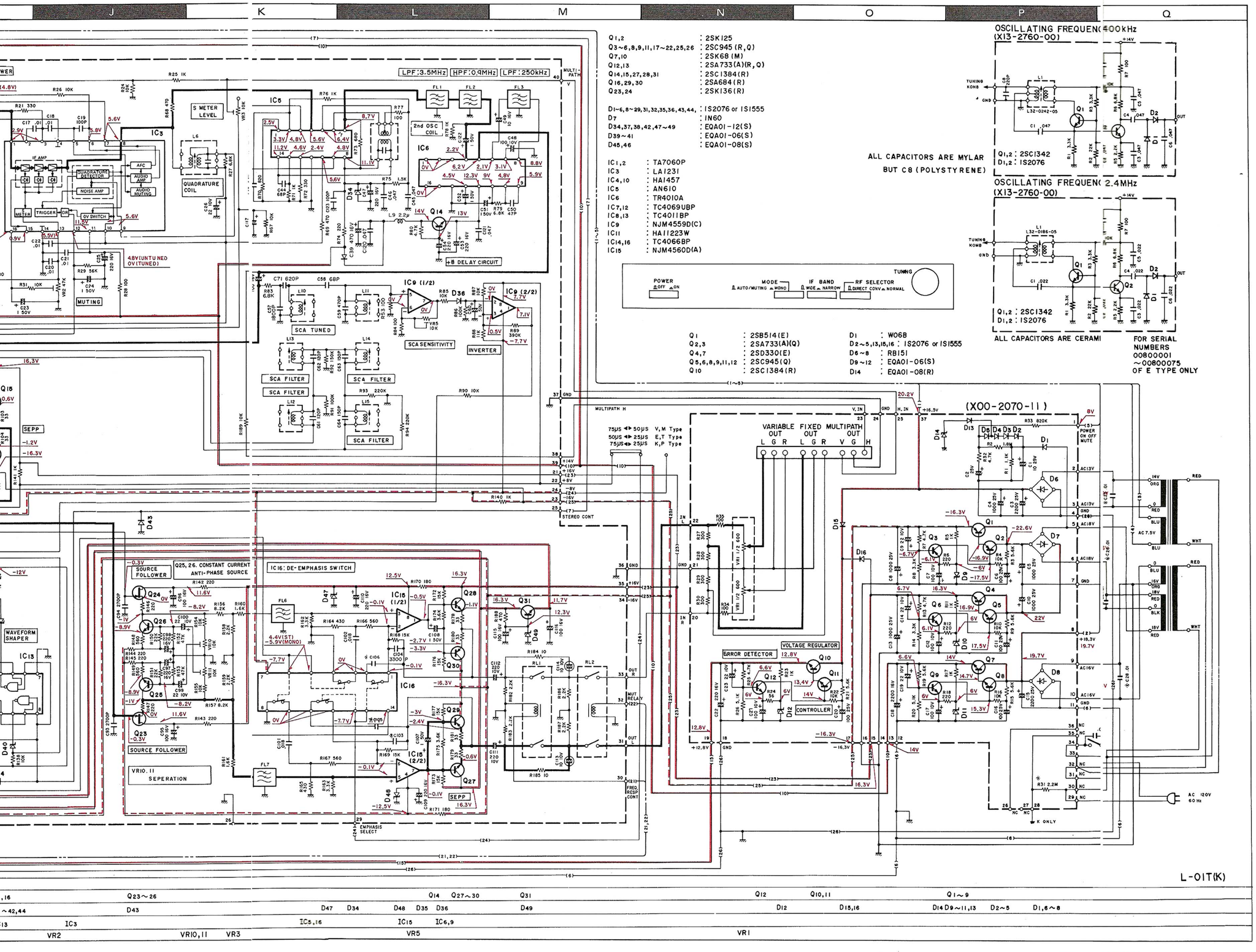
KENWOOD

FM ST



| | | |

FM STEREO TUNER



Q1,2	: 2SK125
Q3~6,8,9,11,17~22,25,26	: 2SC945(R,Q)
Q7,10	: 2SK68(M)
Q12,13	: 2SA733(A)(R,Q)
Q14,15,27,28,31	: 2SC1384(R)
Q16,29,30	: 2SA684(R)
Q23,24	: 2SK136(R)
D1~6,8~29,31,32,35,36,43,44,	: 1S2076 or 1S1555
D7	: IN60
D34,37,38,42,47~49	: EQA01-12(S)
D39~41	: EQA01-06(S)
D45,46	: EQA01-08(S)
IC1,2	: TA7060P
IC3	: LA1231
IC4,10	: HA1457
IC5	: AN610
IC6	: TR4010A
IC7,12	: TC4069UBP
IC8,13	: TC4011BP
IC9	: NJM4559D(C)
IC11	: HA11223W
IC14,16	: TC4066BP
IC15	: NJM4560D(A)

ALL CAPACITORS ARE MYLAR BUT C8 (POLYSTYRENE)

OSCILLATING FREQUENCY 400kHz (X13-2760-00)

Q1,2 : 2SC1342
D1,2 : 1S2076

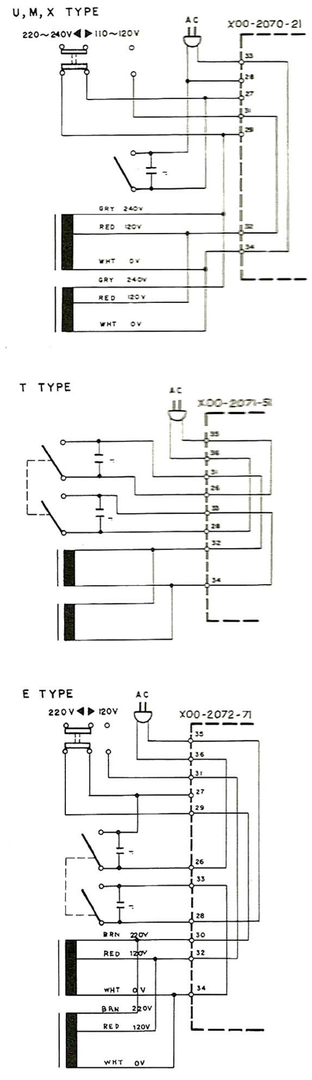
OSCILLATING FREQUENCY 2.4MHz (X13-2760-00)

Q1,2 : 2SC1342
D1,2 : 1S2076

ALL CAPACITORS ARE CERAMIC

FOR SERIAL NUMBERS 00800001 ~00800075 OF E TYPE ONLY

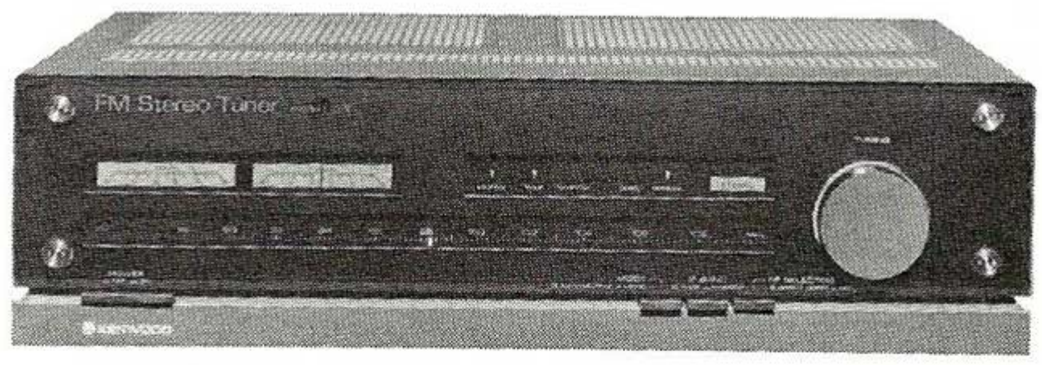
Q1	: 2SB514(E)	D1	: W06B
Q2,3	: 2SA733(A)(Q)	D2~5,13,15,16	: 1S2076 or 1S1555
Q4,7	: 2SD330(E)	D6~8	: RB151
Q5,6,8,9,11,12	: 2SC945(Q)	D9~12	: EQA01-06(S)
Q10	: 2SC1384(R)	D14	: EQA01-08(R)



PC BOARD	PARTS \ CODES	0-11 K	0-70 X	0-81 U	2-71 E
X00-207	C25~28	No	No	No	Yes
	R31	Yes	No	No	No
X02-120	C103, 104	1600pF	1600pF	3300pF	1600pF
	C105, 106	3300pF	1600pF	1600pF	1600pF
	R48	No	No	Yes	Yes
	D11	No	Yes	Yes	Yes

DC voltages are measured by a 25 kΩ/ VOM while receiving in STEREO mode and when scale lamps u t.

L-01T



SPECIFICATIONS

FM TUNER SECTION

	NORMAL	DIRECT
Usable Sensitivity	10.3 dBf (1.8 μV)	20.7 dBf (6.0 μV)
50 dB Quieting Sensitivity:		
Mono	15.8 dBf (3.4 μV)	26.7 dBf (12 μV)
Stereo	37.2 dBf (40 μV)	48.1 dBf (140 μV)
Signal to Noise Ratio:		
Mono	86 dB	
Stereo	80 dB	

Total Harmonic Distortion	WIDE	NARROW
Mono at 100 Hz	0.02%	0.04%
1000 Hz	0.02%	0.15%
6000 Hz	0.04%	0.2%
15000 Hz	0.04%	0.05%
50 Hz ~ 10000 Hz	0.04%	0.3%
Stereo at 100 Hz	0.03%	0.3%
1000 Hz	0.03%	0.2%
6000 Hz	0.05%	0.3%
15000 Hz	0.18%	
50 Hz ~ 10000 Hz	0.08%	0.4%
Capture Ratio	0.9 dB	2.5 dB
Alternate Channel Selectivity	45 dB	65 dB (300 kHz)
Stereo Separation		
1000 Hz	60 dB	47 dB
100 Hz ~ 10000 Hz	48 dB	35 dB
15000 Hz	45 dB	

Frequency Response	15 Hz ~ 15000 Hz, +0.5 dB, −0.5 dB
Spurious Response Ratio	120 dB
Image Response Ratio	120 dB
IF Response Ratio	120 dB
AM Suppression Ratio	65 dB
Sub Carrier Product Ratio	70 dB
Antenna Impedance	75Ω unbalanced
FM Frequency Range	88 MHz ~ 108 MHz
Output Level	
Fixed	0.75V, 150Ω
Variable (1000 Hz, 100% Mod.)	0 ~ 1.5V, 150Ω
Multipath Output	
Vertical	100 mV, 1.0 kΩ
Horizontal	300 mV, 10 kΩ

GENERAL

Power Requirements	60 Hz 120V (U.S.A. and Canada Model) or 50Hz/60 Hz 110-120V/220-240V, switchable
Power Consumption	50 Watts
Dimensions	W: 440 mm (17-5/16") H: 136 mm (5-11/32") D: 452 mm (17-25/32")
Weight (Net)	9.1 kg (20 lb)

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

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

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PARTS LIST

INSTRUCTION FOR PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
14 3A	A20-1391-13	FRONT PANEL ASSY	*K
14 3A	A20-1417-13	FRONT PANEL ASSY	*T
15 3A	A21-0302-03	DRESSING PANEL	*K
15 3A	A21-0302-03	DRESSING PANEL	PU
15 3A	A21-0302-03	DRESSING PANEL	MX
C1 ,C2	C54-3310-39	CERAMIC 0.01UF P	ET
C1	C90-0145-05	POLYESTER 0.01UF AC125V	K
C1	C91-0023-05	CERAMIC 0.01UF AC250V	UM
C1	C91-0023-05	CERAMIC 0.01UF AC250V	HX
C1	C91-0025-05	CERAMIC 0.01UF AC125V	P

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.
⑤ Reference No. in schematic diagram.
⑥ Abbreviation of "ceramic capacitor"
All capacitors and resistors are listed using abbreviations.
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
MP ..... Metallized paper 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
FUSE-RESIST ..... Resistor with fuse function
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)
Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

* CODE's in X00-207x-xx X02-120x-xx

K:	X00-2070-11	K:X02-1200-11
M:	X00-2070-21	X:X02—1200-71
T:	X00-2070-51	U:X02-1200-81
E:	X00-2072-71	E:X02-1202-71

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
L-01T (UNIT)			
1 2B	-	METALLIC FRAME (A)	
2 2B	-	METALLIC FRAME (B)	
3 2B	-	METALLIC FRAME (C)	
4 2B	-	METALLIC FRAME (D)	
5 3A	-	SUB PANEL	
6 1B	-	REAR PANEL	
7 1A	-	BOTTOM PLATE	
8 2A	-	HOLDER	
9 3B	-	SHIELDING PLATE	
10 2A	-	SHIELDING CASE	
12 2A	-	MOUNTING HARDWARE (A)	
13 3B	-	MOUNTING HARDWARE (B)	
14 2A	-	MOUNTING HARDWARE (SW)	
15 2A	-	DIAL POINTER RAIL	
15A 1B	-	MOUNTING HARDWARE	
15B 1B	-	MOUNTING HARDWARE	
15C 1B	-	COLLAR	
-	050-1012-05	SHIELDING WIRE	
16 1A	A03-0248-01	WOODEN CABINET ASSY	*K
16 1A	A03-0251-01	WOODEN CABINET ASSY	*P
16 1A	A03-0251-01	WOODEN CABINET ASSY	UM
16 1A	A03-0251-01	WOODEN CABINET ASSY	XT
16 1A	A03-0251-01	WOODEN CABINET ASSY	EH
17 3A	A20-1546-03	FRONT PANEL	*K
17 3A	A20-1546-03	FRONT PANEL	PU
17 3A	A20-1546-03	FRONT PANEL	MX
17 3A	A20-1546-03	FRONT PANEL	E
17 3A	A20-1548-03	FRONT PANEL	*T
18 1A	A50-0071-02	SIDE PLATE (L)	*
19 3B	A50-0072-02	SIDE PLATE (R)	*
-	B46-0055-20	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-20	WARRANTY CARD	K
-	B46-0062-20	WARRANTY CARD	UH
-	B46-0063-13	WARRANTY CARD	UH
-	B46-0064-10	WARRANTY CARD	X
-	B46-0074-00	USER CARD	*
-	B50-3062-00	INSTRUCTION MANUAL	KU
-	B50-3062-00	INSTRUCTION MANUAL	H
-	B50-3063-00	INSTRUCTION MANUAL	PM
-	B50-3063-00	INSTRUCTION MANUAL	X
-	B50-3064-00	INSTRUCTION MANUAL	T
-	B50-3065-00	INSTRUCTION MANUAL	E
-	B59-0018-00	SERVICE STATIONS' LIST	UH
20 1A	B07-0249-04	ESCUTCHEON (FOOT) X4	
21 3A	B10-0258-03	FRONT GLASS	*
22 2A	B20-0457-03	DIAL CALIBRATION	*
23 2A	B21-0039-04	DIAL POINTER	*
24 2B	B30-0208-15	LAMP 8V 0.15A	*
25A 2A	B31-0314-05	T METER	*
25B 2A	B31-0315-05	S METER	*
26 3A	B09-0015-04	CAP X4	*
-	C54-3310-39	CERAMIC 0.01UF P	
-	C91-0023-05	CERAMIC 0.01UF AC250V	
-	C91-0079-05	CERAMIC 0.01UF AC125V	
27 2A	D15-0174-05	PULLEY ASSY X4	
28 2A	D15-0176-03	PULLEY	
29 2B	D20-0152-03	DIAL SHAFT ASSY	*

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
-	E05-0127-05	PLUG	*K
-	E05-0127-05	PLUG	PU
-	E05-0127-05	PLUG	MX
-	E05-0127-05	PLUG	T
-	E14-0004-05	PHONO PLUG X4	
-	E19-0211-05	PLUG	*E
30 1B	E04-0001-05	RECEPTACLE	
32 1A	E21-0007-05	TERMINAL (GND)	
33 1B	E30-0181-05	POWER CORD	KP
33 1B	E30-0185-05	POWER CORD	X
33 1B	E30-0459-05	POWER CORD	E
33 1B	E30-0545-05	POWER CORD	UM
33 1B	E30-0587-05	POWER CORD	T
-	F09-0033-05	CAPACITOR COVER	
34 2A	G01-0368-04	COILED SPRING (PULLEY)	
34A 1B	G09-0022-04	SPRING	
34B 2B	G09-0024-04	SPRING	
-	H01-3082-04	CARTON BOX	KU
-	H01-3082-04	CARTON BOX	MX
-	H01-3085-04	CARTON BOX	E
-	H12-0072-03	PACKING FIXTURE	
-	H20-0458-04	COVER	KP
-	H20-0458-04	COVER	UX
-	H20-0458-04	COVER	TE
-	H20-0459-04	COVER	M
-	H25-0078-04	BAG(INSTRUCTION MANUAL)	
-	H25-0096-04	BAG(INSTRUCTION MANUAL)	
-	H25-0148-04	BAG(INSTRUCTION MANUAL)	
-	H40-0004-04	ANTI-RUST PAPER	M
35 1A	J02-0098-04	FOOT X4	
36 1B	J41-0017-05	BUSHING (POWER CORD)	TE
36 1B	J42-0072-05	BUSHING (POWER CORD)	KP
36 1B	J42-0072-05	BUSHING (POWER CORD)	UM
36 1B	J42-0074-05	BUSHING (POWER CORD)	X
37 3A	K21-0379-04	KNOB (TUNING)	*
38 1B	K21-0380-04	KNOB (OUTPUT)	*
39 3B	K27-0114-03	KNOB (SELECTOR) X3	*
40 2A	K27-0115-03	KNOB (POWER CORD)	*
41 1A	L01-1931-05	POWER TRANSFORMER	*K
41 1A	L01-1931-05	POWER TRANSFORMER	P
41 1A	L01-1932-05	POWER TRANSFORMER	*T
41 1A	L01-1934-05	POWER TRANSFORMER	*E
41 1A	L01-1937-05	POWER TRANSFORMER	*U
41 1A	L01-1937-05	POWER TRANSFORMER	MX
41 1A	L01-1937-05	POWER TRANSFORMER	H
42 1B	L01-1941-05	POWER TRANSFORMER	*K
42 1B	L01-1941-05	POWER TRANSFORMER	P
42 1B	L01-1942-05	POWER TRANSFORMER	*T
42 1B	L01-1944-05	POWER TRANSFORMER	*E
42 1B	L01-1947-05	POWER TRANSFORMER	*U
42 1B	L01-1947-05	POWER TRANSFORMER	MX
42 1B	L01-1947-05	POWER TRANSFORMER	H
43 1A	N09-0323-04	SCREW M4x10 (CASE)	
46 1B	S31-2007-05	SLIDE SW. (LIGHT,DE-EM)	
46 1B	S31-2050-05	SLIDE SW. (VOLTAGE)	UM
46A 1B	S31-2050-05	SLIDE SW. (VOLTAGE)	XE
46A 1B	S31-2050-05	SLIDE SW. (VOLTAGE)	H
47 2A	S40-1011-05	PUSH SWITCH (POWER)	P
47 2A	S40-1014-05	PUSH SWITCH (POWER)	UM
47 2A	S40-1014-05	PUSH SWITCH (POWER)	X
47 2A	S40-1015-05	PUSH SWITCH (POWER)	*K
47 2A	S40-2099-05	PUSH SWITCH (POWER)	TE
-	T90-0101-05	ANTENNA ADAPTER	*
-	T90-0202-05	ANTENNA	
-	W01-0090-05	CLEANING CLOTH	*
48 2B	X00-2070-11	POWER SUPPLY PCB ASSY	*K
48 2B	X00-2070-11	POWER SUPPLY PCB ASSY	P
48 2B	X00-2070-21	POWER SUPPLY PCB ASSY	*U
48 2B	X00-2070-21	POWER SUPPLY PCB ASSY	MX
48 2B	X00-2070-21	POWER SUPPLY PCB ASSY	H
48 2B	X00-2070-51	POWER SUPPLY PCB ASSY	*T
48 2B	X00-2072-71	POWER SUPPLY PCB ASSY	*E
49 2A	X01-1310-11	FM RF PCB ASSY	*
50 2B	X02-1200-11	FM IF PCB ASSY	*K
50 2B	X02-1200-11	FM IF PCB ASSY	P
50 2B	X02-1200-71	FM IF PCB ASSY	*X
50 2B	X02-1200-81	FM IF PCB ASSY	*U
50 2B	X02-1200-81	FM IF PCB ASSY	MH
50 2B	X02-1202-71	FM IF PCB ASSY	*T
50 2B	X02-1202-71	FM IF PCB ASSY	E
51 2B	X13-2690-00	SUB PCB ASSY	*
52 2B	X13-2760-00	SWITCH PCB ASSY	*

POWER SUPPLY (X00-207x-xx)

C1 ,2	C25-1410-67	LL-ELEC 10UF 25WV		
C3	C90-0422-05	ELECTRO 2200UF 25WV		
C4	C90-0423-05	ELECTRO 1000UF 25WV		
C5	C90-0428-05	ELECTRO 1000UF 25WF		
C6	C90-0429-05	ELECTRO 100UF 25WV		
C7	C90-0430-05	ELECTRO 100UF 10WV		
C8	C90-0428-05	ELECTRO 1000UF 25WF		
C9	C90-0431-05	ELECTRO 22UF 10WV		
C10	C90-0428-05	ELECTRO 1000UF 25WF		
C11	C90-0429-05	ELECTRO 100UF 25WV		
C12	C90-0430-05	ELECTRO 100UF 10WV		
C13	C90-0428-05	ELECTRO 1000UF 25WF		
C14	C90-0431-05	ELECTRO 22UF 10WV		
C15	C90-0420-05	ELECTRO 2200UF 25WV		
C16	C90-0429-05	ELECTRO 100UF 25WV		
C17	C90-0430-05	ELECTRO 100UF 10WV		
C18	C90-0421-05	ELECTRO 2200UF 16WV		
C19	C90-0431-05	ELECTRO 22UF 10WV		
C20	C90-0400-05	ELECTRO 100UF 25WV		
C21	C90-0425-05	ELECTRO 100UF 10WV		
C22	C90-0407-05	ELECTRO 220UF 16WV		
C23	C90-0427-05	ELECTRO 22UF 10WV		
C25 -28	C54-2710-39	CERAMIC 0.01UF P		E
-	E13-0614-05	PHONO JACK		
-	E23-0046-04	TERMINAL		
-	E23-0047-04	TERMINAL		
-	E23-0077-05	TERMINAL		TE
R2	R40-8318-58	RC 1.8M M 2H		
R3	R48-6256-25	RN 5.6K J 2E		
R4	R48-6210-35	RN 10K J 2E		
R5	R48-6210-25	RN 1K J 2E		
R6	R48-6222-15	RN 220 J 2E		
R7	R48-2247-25	RN 4.7K J 2E		
R8	R48-6233-25	RN 3.3K J 2E		
R9	R48-6256-25	RN 5.6K J 2E		
R10	R48-6210-35	RN 10K J 2E		

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PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
R11	R48-6210-25	RN 1K J 2E	
R12	R48-6222-15	RN 220 J 2E	
R13	R48-2247-25	RN 4.7K J 2E	
R14	R48-6233-25	RN 3.3K J 2E	
R15	R48-6256-25	RN 5.6K J 2E	
R16	R48-6210-35	RN 10K J 2E	
R17	R48-6210-25	RN 1K J 2E	
R18	R48-6222-15	RN 220 J 2E	
R19	R48-6256-25	RN 5.6K J 2E	
R20	R48-6251-25	RN 5.1K J 2E	
R21	R48-6256-25	RN 5.6K J 2E	
R22	R48-6210-35	RN 10K J 2E	
R23	R48-6210-25	RN 1K J 2E	
R24	R48-6256-05	RN 56 J 2E	
R25	R48-2247-25	RN 4.7K J 2E	
R26	R48-6251-25	RN 5.1K J 2E	
R27 -30	R48-6230-15	RN 300 J 2E	
R31	R92-0173-05	RC 2.2M M 2H	K
R34 ,35	R48-2210-15	RN 100 J 2E	
VR1	R10-0002-05	POTENTIOMETER 600X2	
D1	V11-0295-05	W06B	
D2 -5	V11-0271-05	1S2076 OR 1S1555	
D6 -8	V11-5100-60	RB-151	
D9 -12	V11-0431-05	EQA01-06(S)	
D13	V11-0271-05	1S2076 OR 1S1555	
D14	V11-0352-05	EQA01-08(R)	
D15 ,16	V11-0271-05	1S2076 OR 1S1555	
Q1	V02-0514-30	2SB514(E)	
Q2 ,3	V01-0733-50	2SA733(A)(Q)	
Q4	V04-0330-40	2SD330(E)	
Q5 ,6	V03-0293-05	2SC945(Q)	
Q7	V04-0330-40	2SD330(E)	
Q8 ,9	V03-0293-05	2SC945(Q)	
Q10	V03-0388-05	2SC1384(R)	
Q11 ,12	V03-0293-05	2SC945(Q)	
FM RF (X01-1310-11)			
-	C01-0220-05	VARIABLE CAPACITOR	
C1	C63-1715-05	CERAMIC 15PF J	
C2	C71-1710-15	CERAMIC 100PF J	
C3 -5	C52-1710-26	CERAMIC 0.001UF K	
C6	C63-1733-05	CERAMIC 33PF J	
C7	C63-1727-05	CERAMIC 27PF J	
C8	C71-1710-15	CERAMIC 100PF J	
C9 ,10	C52-1710-26	CERAMIC 0.001UF K	
C11	C63-1739-05	CERAMIC 39PF J	
C12	C63-1715-05	CERAMIC 15PF J	
C13	C91-0087-05	CERAMIC 1.2PF J	
C14 ,15	C63-1718-05	CERAMIC 18PF J	
C16 -18	C52-1710-26	CERAMIC 0.001UF K	
C19	C71-1710-15	CERAMIC 100PF J	
C20	C63-1715-05	CERAMIC 15PF J	
C21	C90-0407-05	ELECTRO 220UF 16WV	
C22 -30	C55-1710-38	CERAMIC 0.01UF Z	
C31	C90-0407-05	ELECTRO 220UF 16WV	
C32	C55-1710-38	CERAMIC 0.01UF Z	
C33	C90-0399-05	ELECTRO 100UF 16WV	
TC1 -6	C05-0302-05	TRIMMER CAPACITOR 11PF	
-	E23-0046-04	TERMINAL	
L1	L31-0411-05	RF COIL	
L2	L31-0380-05	RF COIL	
L3	L31-0381-05	RF COIL	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
L4	L31-0379-05	RF COIL	
L5	L31-0381-05	RF COIL	
L6	L32-0234-05	OSCILLATING COIL	
L7 -9	L33-0025-05	CHOKE COIL	
L10	L39-0090-05	COIL	
L11	L40-2292-41	INDUCTOR	
L12 -15	L33-0025-05	CHOKE COIL	
L16	L19-0022-05	TRANSFORMER	
L17	L30-0341-05	IFT	
L18	L40-2292-41	INDUCTOR	
L19	L30-0341-05	IFT	
L20	L40-2292-41	INDUCTOR	
L21	L30-0343-05	IFT	
L22	L40-2292-41	INDUCTOR	
L23	L40-2292-41	INDUCTOR	
R15 ,16	R48-2270-03	RN 270 F 2E	
R22	R43-1210-05	FL-PROOF RD10 J 2E	
RL1	S51-1020-05	RELAY	
D1 -8	V11-0271-05	1S2076 OR 1S1555	
Q1	V09-0146-10	CC3588DE	
Q2	V09-0136-10	2SK125	
Q3	V03-2408-00	2SC2408	
Q4 -6	V09-0136-20	2SK125T	
FM IF (X02-120x-xx)			
C1 -13	C55-1710-38	CERAMIC 0.01UF Z	
C14	C71-1710-02	CERAMIC 10PF D	
C15	C55-1710-38	CERAMIC 0.01UF Z	
C16	C52-1756-16	CERAMIC 560PF K	
C17 ,18	C55-1710-38	CERAMIC 0.01UF Z	
C19	C71-1710-15	CERAMIC 100PF J	
C20	C55-1710-38	CERAMIC 0.01UF Z	
C21 ,22	C55-1747-38	CERAMIC 0.047UF Z	
C23 ,24	C90-0398-05	ELECTRO 1UF 50WV	
C25	C90-0407-05	ELECTRO 220UF 16WV	
C26	C90-0427-05	ELECTRO 22UF 10WV	
C27	C90-0398-05	ELECTRO 1UF 50WV	
C28	C91-0054-05	POLYSTY 22PF K	
C29	C90-0439-05	ELECTRO 10UF 16WV	
C30	C90-0438-05	ELECTRO 47UF 16WV	
C31 ,32	C46-1710-35	MYLAR 0.01UF J	
C33	C90-0398-05	ELECTRO 1UF 50WV	
C34	C47-1712-15	POLYSTY 120PF J	
C35	C46-1747-25	MYLAR 0.0047UF J	
C36	C46-1722-35	MYLAR 0.022UF J	
C37	C90-0407-05	ELECTRO 220UF 16WV	
C38	C90-0438-05	ELECTRO 47UF 16WV	
C39	C24-1247-71	ELECTRO 470UF 16WV	
C40	C90-0439-05	ELECTRO 10UF 16WV	
C41	C25-1747-47	LL-ELEC 0.47UF 50WV	
C43	C55-1747-38	CERAMIC 0.047UF Z	
C44	C58-1768-05	CERAMIC 68PF J	
C45 ,46	C55-1747-38	CERAMIC 0.047UF Z	
C47	C90-0407-05	ELECTRO 220UF 16WV	
C48	C90-0430-05	ELECTRO 100UF 10WV	
C49	C90-0441-05	ELECTRO 10UF 16WV	
C50	C58-1747-05	CERAMIC 47PF J	
C51 ,52	C90-0433-05	ELECTRO 1UF 50WV	
C53 ,54	C90-0443-05	ELECTRO 220UF 16WV	
C55	C90-0442-05	ELECTRO 100UF 16WV	
C56	C47-1739-24	POLYSTY 3900PF G	E
C56	C48-1743-24	POLYSTY 4300PF G	KX

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PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
C56	C48-1743-24	POLYSTY 4300PF G	UE
C57	C47-1718-25	POLYSTY 1800PF J	
C58	C71-1768-06	CERAMIC 68PF K	
C59	C47-1747-15	POLYSTY 470PF J	
C60	C90-0398-05	ELECTRO 1UF 50WV	
C61 ,62	C71-1712-16	CERAMIC 120PF K	
C63 ,64	C71-1715-16	CERAMIC 150PF K	
C65	C90-0443-05	ELECTRO 220UF 16WV	
C66	C90-0433-05	ELECTRO 1UF 50WV	
C67	C90-0443-05	ELECTRO 220UF 16WV	
C68	C90-0438-05	ELECTRO 47UF 16WV	
C69	C46-1718-25	MYLAR 0.0018UF J	
C70	C90-0398-05	ELECTRO 1UF 50WV	
C71	C71-1762-15	CERAMIC 620PF J	
C72	C46-1782-25	MYLAR 0.0082UF J	
C73	C46-1715-25	MYLAR 0.0015UF J	
C74 ,75	C90-0407-05	ELECTRO 220UF 16WV	
C76	C48-1710-25	POLYSTY 1000PF J	
C77	C46-1722-25	MYLAR 0.0022UF J	
C78	C90-0427-05	ELECTRO 22UF 10WV	
C79	C90-0437-05	ELECTRO 10UF 16WV	
C80	C90-0436-05	ELECTRO 3.3UF 50WV	
C81 -84	C46-1710-35	MYLAR 0.01UF J	
C85	C46-1739-25	MYLAR 0.0039UF J	
C86	C90-0398-05	ELECTRO 1UF 50WV	
C87	C90-0433-05	ELECTRO 1UF 50WV	
C88 ,89	C46-1710-25	MYLAR 0.001UF J	
C90	C90-0407-05	ELECTRO 220UF 16WV	
C91 ,92	C90-0430-05	ELECTRO 100UF 10WV	
C93 ,94	C47-1727-25	POLYSTY 2700PF J	
C95 ,96	C90-0442-05	ELECTRO 100UF 16WV	
C97 ,98	C90-0443-05	ELECTRO 220UF 16WV	
C99 ,100	C90-0431-05	ELECTRO 22UF 10WV	
C101,102	C46-1718-35	MYLAR 0.018UF J	
C103,104	C47-1716-24	POLYSTY 1600PF G	KX
C103,104	C47-1716-24	POLYSTY 1600PF G	E
C103,104	C47-1733-25	POLYSTY 3300PF J	U
C105,106	C47-1716-24	POLYSTY 1600PF G	XU
C105,106	C47-1716-24	POLYSTY 1600PF G	E
C105,106	C47-1733-25	POLYSTY 3300PF J	K
C107,108	C90-0433-05	ELECTRO 1UF 50WV	
C109,110	C90-0443-05	ELECTRO 220UF 16WV	
C111,112	C90-0444-05	ELECTRO 220UF 10WV	
C113,114	C90-0445-05	ELECTRO 10UF 10WV	
C115,116	C90-0399-05	ELECTRO 100UF 16WV	
C117	C90-0425-05	ELECTRO 100UF 10WV	
C118	C90-0440-05	ELECTRO 100UF 10WV	
C119	C91-0054-05	POLYSTY 22PF K	
C120,121	C55-1747-38	CERAMIC 0.047UF Z	
C122	C90-0433-05	ELECTRO 1UF 50WV	
C123	C71-1710-15	CERAMIC 100PF J	
-	E23-0047-04	TERMINAL	
-	E23-0048-04	TERMINAL	
CF1 -4	L79-0098-05	CERAMIC FILTER SET	KX
CF1 -4	L79-0098-05	CERAMIC FILTER SET	U
CF1 -4	L79-0118-05	CERAMIC FILTER SET	E
FL1	L79-0099-05	LC FILTER (L.P.F.)	
FL2	L79-0100-05	LC FILTER (H.P.F.)	
FL3	L79-0080-05	LC FILTER (L.P.F.)	
FL4	L79-0083-05	LC FILTER (L.P.F.)	KX
FL4	L79-0083-05	LC FILTER (L.P.F.)	U

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
FL4	L79-0124-05	LC FILTER (L.P.F.)	E
FL5	L76-0002-05	PHASE COMPENSATOR	KX
FL5	L76-0002-05	PHASE COMPENSATOR	U
FL5	L76-0004-05	PHASE COMPENSATOR	E
FL6 ,7	L79-0082-05	LC FILTER (L.P.F.)	
L1	L30-0319-05	IFT	
L2 ,3	L30-0318-05	IFT	
L4	L30-0319-05	IFT	
L5	L30-0318-05	IFT	
L6	L30-0320-05	IFT	
L7	L40-6825-64	INDUCTOR 6.8UH	
L8	L32-0228-05	OSCILLATING COIL	
L9	L40-2292-41	INDUCTOR 2.2UH	
L10 ,11	L35-0050-05	MPX COIL	
L12 -15	L35-0048-05	MPX COIL	
L16	L35-0044-05	MPX COIL	
L17 -19	L40-2292-41	INDUCTOR 2.2UH	
R1	R48-2210-15	RN 100 J 2E	
R2	R48-6218-25	RN 1.8K J 2E	
R3	R43-1210-15	FL-PROOF RD100 J 2E	
R4	R48-2233-15	RN 330 J 2E	
R5	R48-6212-25	RN 1.2K J 2E	
R6	R43-1210-15	FL-PROOF RD100 J 2E	
R7	R48-6210-25	RN 1K J 2E	
R8	R48-6210-45	RN 100K J 2E	
R9	R48-6233-25	RN 3.3K J 2E	
R10	R48-2247-15	RN 470 J 2E	
R11	R48-6210-25	RN 1K J 2E	
R12	R48-2233-15	RN 330 J 2E	
R13	R48-6210-45	RN 100K J 2E	
R14	R48-6233-25	RN 3.3K J 2E	
R15	R48-6210-25	RN 1K J 2E	
R16	R48-6210-15	RN 100 J 2E	
R17	R48-6212-25	RN 1.2K J 2E	
R18	R43-1210-15	FL-PROOF RD100 J 2E	
R19	R48-2233-15	RN 330 J 2E	
R20	R43-1210-15	FL-PROOF RD100 J 2E	
R21	R48-2233-15	RN 330 J 2E	
R22	R48-6210-35	RN 10K J 2E	
R23	R48-2210-15	RN 100 J 2E	
R24	R48-6210-35	RN 10K J 2E	
R25	R48-6210-25	RN 1K J 2E	
R26	R48-6210-35	RN 10K J 2E	
R27	R48-6268-25	RN 6.8K J 2E	
R28	R48-6210-15	RN 100 J 2E	
R29	R48-6256-35	RN 56K J 2E	
R30	R48-2210-15	RN 100 J 2E	
R31	R48-6210-35	RN 10K J 2E	
R32	R48-6247-23	RN 4.7K F 2E	
R33 ,34	R48-6210-35	RN 10K J 2E	
R35	R48-6247-35	RN 47K J 2E	
R36 ,37	R48-6210-45	RN 100K J 2E	
R38	R48-6210-25	RN 1K J 2E	
R40 ,41	R48-6210-45	RN 100K J 2E	
R42 -44	R48-2233-15	RN 330 J 2E	
R45	R48-6222-35	RN 22K J 2E	
R46 ,47	R48-6210-35	RN 10K J 2E	
R48	R48-6210-45	RN 100K J 2E	XU
R48	R48-6210-45	RN 100K J 2E	E
R49	R48-6210-45	RN 100K J 2E	
R50	R48-6233-35	RN 33K J 2E	
R51	R48-2256-25	RN 5.6K J 2E	

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PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
R52	R48-6256-15	RN 560 J 2E	
R53	R48-6210-45	RN 100K J 2E	
R54	R40-8310-68	RC 10M M 2H	
R55	R48-6222-35	RN 22K J 2E	
R56	R48-6210-45	RN 100K J 2E	
R57	R48-6210-25	RN 1K J 2E	
R58	R48-6210-35	RN 10K J 2E	
R59	R48-6222-35	RN 22K J 2E	
R60	R40-8310-68	RC 10M M 2H	
R61	R92-0173-05	RC 2.2M M 2H	
R64	R48-6222-35	RN 22K J 2E	
R66	R48-6256-35	RN 56K J 2E	
R68 ,69	R48-2247-15	RN 470 J 2E	
R70	R48-6282-13	RN 820 F 2E	
R71	R48-6210-25	RN 1K J 2E	
R72	R48-2233-15	RN 330 J 2E	
R73	R48-6268-15	RN 680 J 2E	
R74	R43-1268-05	FL-PROOF RD68 J 2E	
R75	R48-6215-23	RN 1.5K F 2E	
R76	R48-6210-25	RN 1K J 2E	
R77	R48-2210-15	RN 100 J 2E	
R78	R48-6210-25	RN 1K J 2E	
R79	R48-6268-25	RN 6.8K J 2E	
R80	R48-6247-23	RN 4.7K F 2E	
R81 ,82	R48-2230-25	RN 3K J 2E	
R83	R48-6268-25	RN 6.8K J 2E	
R84	R48-2210-15	RN 100 J 2E	
R85	R48-6210-35	RN 10K J 2E	
R86	R48-6210-45	RN 100K J 2E	
R87	R48-6210-35	RN 10K J 2E	
R88	R48-2211-35	RN 11K J 2E	
R89	R48-2239-45	RN 390K J 2E	
R90	R48-6210-35	RN 10K J 2E	
R91	R48-6210-45	RN 100K J 2E	
R92	R48-2215-45	RN 150K J 2E	
R93	R48-2222-45	RN 220K J 2E	
R94	R48-2222-45	RN 220K J 2E	
R95	R48-6247-23	RN 4.7K F 2E	
R96	R48-6220-25	RN 2K J 2E	
R97	R48-6230-15	RN 300 J 2E	
R98	R48-6239-15	RN 390 J 2E	
R99	R48-2215-35	RN 15K J 2E	
R100	R48-6236-25	RN 3.6K J 2E	
R101	R48-2215-35	RN 15K J 2E	
R102	R48-6239-15	RN 390 J 2E	
R103,104	R43-1233-05	FL-PROOF RD33 J 2E	
R106	R48-2218-45	RN 180K J 2E	
R107,108	R48-6256-15	RN 560 J 2E	
R109	R48-6251-25	RN 5.1K J 2E	
R111	R48-6210-35	RN 10K J 2E	
R112,113	R48-6239-15	RN 390 J 2E	
R114	R48-6233-35	RN 33K J 2E	
R115	R48-6268-35	RN 68K J 2E	
R117	R48-6268-25	RN 6.8K J 2E	
R118	R48-6233-35	RN 33K J 2E	
R119	R48-6222-15	RN 220 J 2E	
R120	R48-2236-45	RN 360K J 2E	
R121	R48-6227-45	RN 270K J 2E	
R123	R48-6222-05	RN 22 J 2E	
R124,125	R48-6282-25	RN 8.2K J 2E	
R126	R48-6268-25	RN 6.8K J 2E	
R127,128	R48-2222-45	RN 220K J 2E	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
R129	R48-6210-25	RN 1K J 2E	
R130,131	R48-6210-45	RN 100K J 2E	
R132	R48-2256-25	RN 5.6K J 2E	
R133,134	R48-2233-45	RN 330K J 2E	
R135	R48-6210-25	RN 1K J 2E	
R136	R48-6210-45	RN 100K J 2E	
R137,138	R48-6210-35	RN 10K J 2E	
R139	R48-6239-15	RN 390 J 2E	
R140	R48-6210-25	RN 1K J 2E	
R141	R48-6210-25	RN 1K J 2E	
R142-147	R48-6222-15	RN 220 J 2E	
R148,149	R48-6256-15	RN 560 J 2E	
R150,151	R48-6222-35	RN 22K J 2E	
R152,153	R48-6247-35	RN 47K J 2E	
R154,155	R48-6210-35	RN 10K J 2E	
R156,157	R48-6282-25	RN 8.2K J 2E	
R158,159	R48-6222-25	RN 2.2K J 2E	
R160,161	R48-2216-25	RN 1.6K J 2E	
R162,163	R48-6233-25	RN 3.3K J 2E	
R164,165	R48-2430-03	RN 430 F 2E	
R166,167	R48-2560-03	RN 560 F 2E	
R168,169	R48-2150-23	RN 15K F 2E	
R170,171	R43-1218-15	FL-PROOF RD180 J 2E	
R172,173	R48-2215-35	RN 15K J 2E	
R174,175	R48-6236-25	RN 3.6K J 2E	
R176,177	R48-2215-35	RN 15K J 2E	
R178-181	R43-1233-05	FL-PROOF RD33 J 2E	
R182,183	R48-6222-25	RN 2.2K J 2E	
R184,185	R48-2210-05	RN 10 J 2E	
R186,187	R48-6222-25	RN 2.2K J 2E	
R188	R48-2247-15	RN 470 J 2E	
R189	R48-6210-35	RN 10K J 2E	
R190	R48-6210-25	RN 1K J 2E	
R511	R48-2256-25	RN 5.6K J 2E	
VR1	R12-0065-05	TRIMMING POT. 470	
VR2	R12-3046-05	TRIMMING POT. 47K	
VR3 -5	R12-3045-05	TRIMMING POT. 10K	
VR6	R12-1044-05	TRIMMING POT. 4.7K	
VR7	R12-3045-05	TRIMMING POT. 10K	
VR8 ,9	R12-1040-05	TRIMMING POT. 4.7K	
VR10,11	R12-3045-05	TRIMMING POT. 10K	
RL1 ,2	S51-2037-05	RELAY	
D1 -6	V11-0271-05	1S2076 OR 1S1555	
D7	V11-0051-05	1N60	
D8 -10	V11-0271-05	1S2076 OR 1S1555	
D11	V11-0271-05	1S2076 OR 1S1555	XUE
D12 -29	V11-0271-05	1S2076 OR 1S1555	
D31 ,32	V11-0271-05	1S2076 OR 1S1555	
D34	V11-0398-05	EQA01-12(S)	
D35 ,36	V11-0271-05	1S2076 OR 1S1555	
D37 ,38	V11-0398-05	EQA01-12(S)	
D39 -41	V11-0431-05	EQA01-06(S)	
D42	V11-0398-05	EQA01-12(S)	
D43 ,44	V11-0271-05	1S2076 OR 1S1555	
D45 ,46	V11-0352-05	EQA01-08	
D47 -49	V11-0398-05	EQA01-12(S)	
IC1 ,2	V30-0087-05	TA7060P	
IC3	V30-0275-20	LA1231	
IC4	V30-0264-10	HA1457	
IC5	V30-0356-10	AN610	
IC6	V30-0296-20	TR4010A	

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Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
IC7	V30-0297-20	TC4069UBP	
IC8	V30-0301-70	TC4011BP	
IC9	V30-0271-50	NJM4559D(C)	
IC10	V30-0264-10	HA1457	
IC11	V30-0266-20	HA11223W	
IC12	V30-0297-20	TC4069UBP	
IC13	V30-0301-70	TC4011BP	
IC14	V30-0301-20	TC4066BP	
IC15	V30-0387-10	NJM4560D(A)	
IC16	V30-0301-20	TC4066BP	
Q1 ,2	V09-0136-10	2SK125	
Q3 -6	V03-0270-05	2SC945(R,Q)	
Q7	V09-0122-20	2SK68(M)	
Q8 ,9	V03-0270-05	2SC945(R,Q)	
Q10	V09-0122-20	2SK68(M)	
Q11	V03-0270-05	2SC945(R,Q)	
Q12 ,13	V01-0733-30	2SA733(A)(R,Q)	
Q14 ,15	V03-0388-05	2SC1384(R)	
Q16	V01-0684-10	2SA684(R)	
Q17 -22	V03-0270-05	2SC945(R,Q)	
Q23 ,24	V09-0149-50	2SK136(R)	
Q25 ,26	V03-0270-05	2SC945(R,Q)	
Q27 ,28	V03-0388-05	2SC1384(R)	
Q29 ,30	V01-0684-10	2SA684(R)	
Q31	V03-0388-05	2SC1384(R)	
SUB (X13-2690-00)			
PL1 -21	B30-0209-05	LAMP 8V 0.1A	110
C1	C55-1710-38	CERAMIC 0.01UF Z	
C2	C48-1710-15	POLYSTY 100PF J	
-	E23-0047-04	TERMINAL	
L1	L40-2292-41	INDUCTOR 2.2UH	
R1	R47-5412-15	FL-PROOF RS120 J 3A	
R3	R47-5422-95	FL-PROOF RS2.2 J 3A	
R8 ,9	R47-5468-05	FL-PROOF RS68 J 3A	
VR1	R12-5030-05	TRIMMING POT. 100K	
RL1 ,2	S51-1020-05	RELAY	
S1	S42-3035-05	PUSH SWITCH	111
D1 -11	V11-0271-05	1S2076	
Q1	V03-0270-05	2SC945(R,Q)	
Q2	V03-0388-05	2SC1384(R)	
Q4	V03-0388-05	2SC1384(R)	
Q5	V03-0270-05	2SC945(R,Q)	
Q6 ,7	V01-0733-30	2SA733(A)(R,Q)	
SWITCH (X13-2760-00)			
C1 -7	C55-1722-38	CERAMIC 0.022UF Z	
C8	C47-1722-15	POLYSTY 220P J	
-	E23-0046-04	TERMINAL	
L1	L32-0242-05	OSCILLATING COIL	
D1 ,2	V11-0271-05	1S2076 OR 1S1555	
Q1 ,2	V03-1342-00	2SC1342	

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