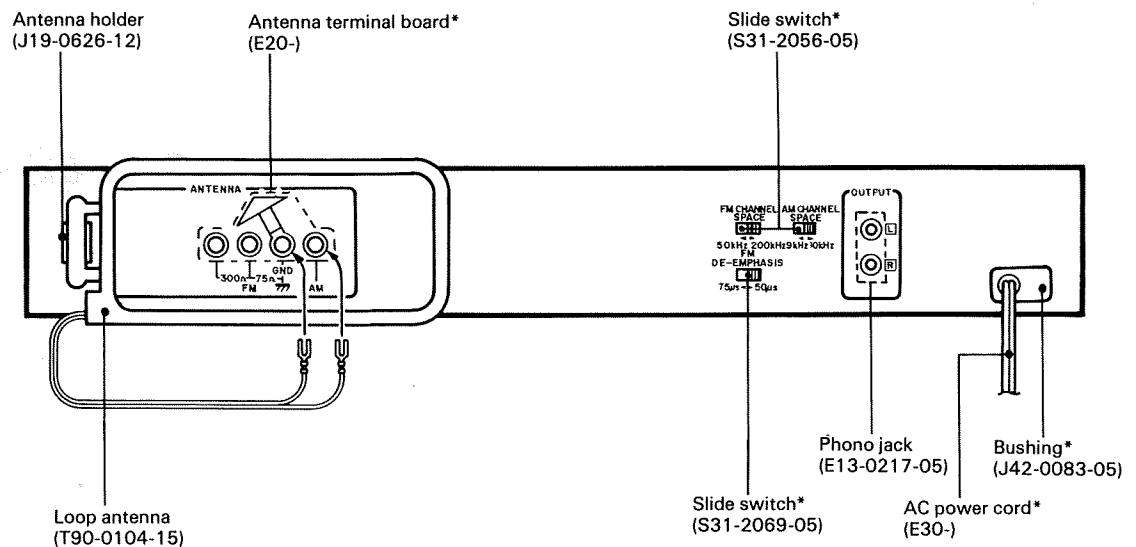
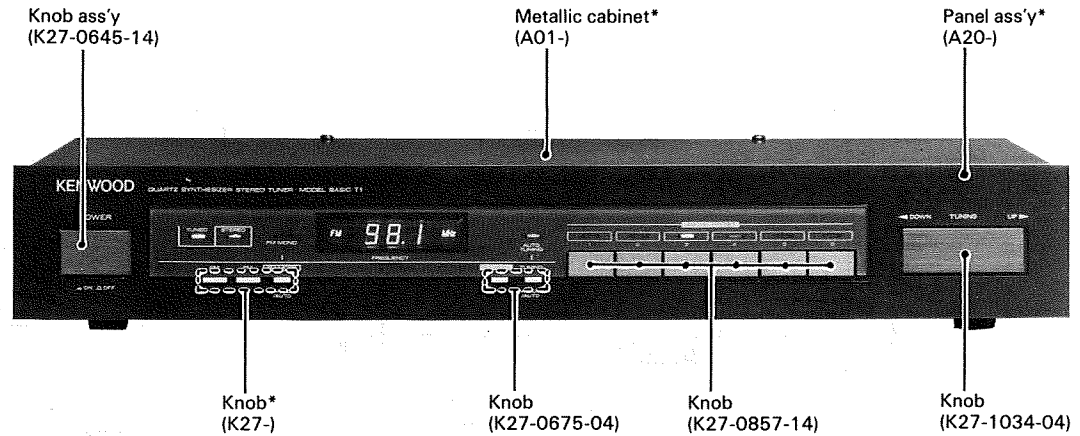


BASIC T1 BASIC T1L

KENWOOD

QUARTZ SYNTHESIZER STEREO TUNER



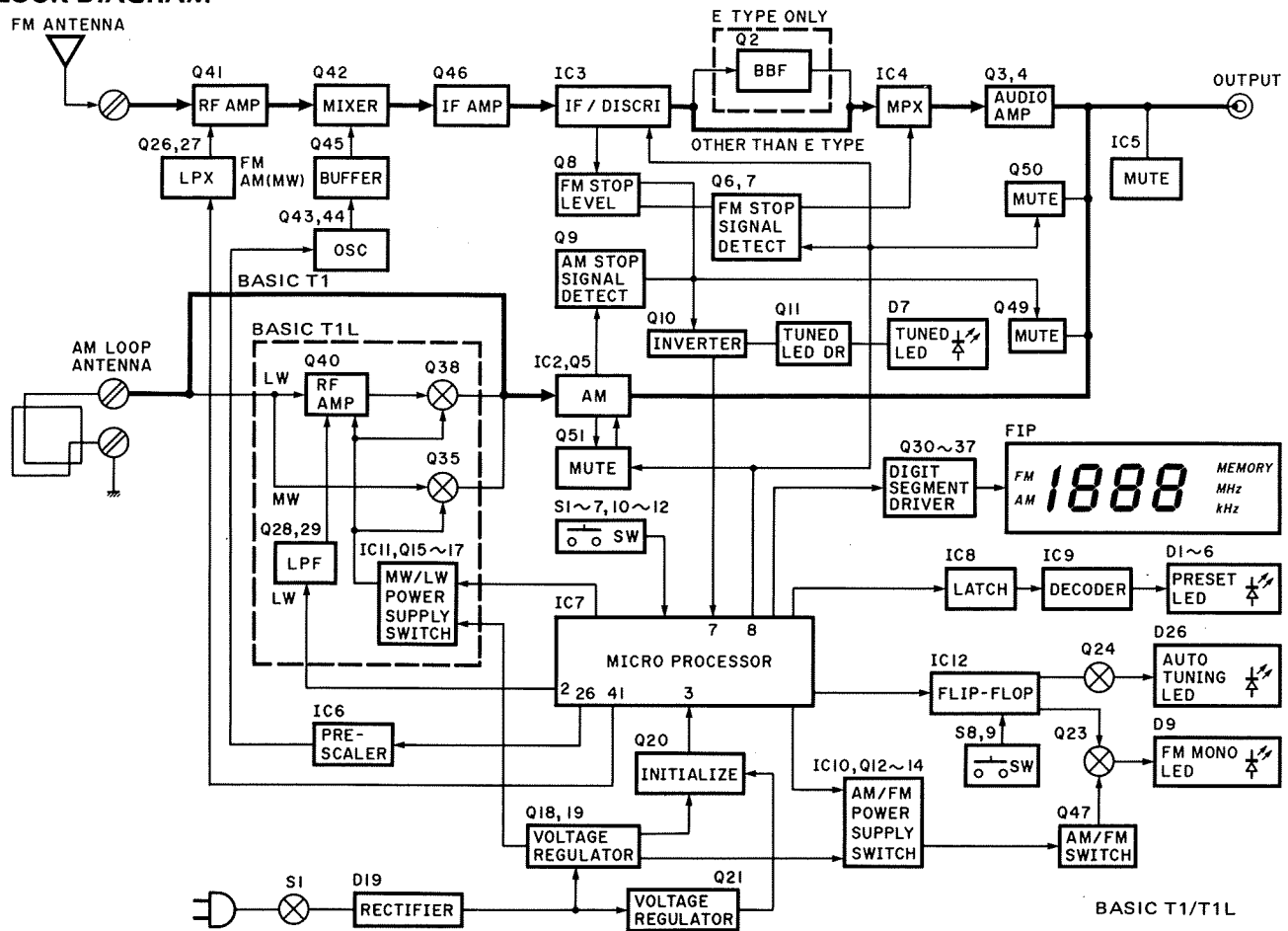
There are two kinds of pc boards used in BASIC T1 and T1L. Make sure you refer to the appropriate schematic diagram when repairing.

*Refer to parts list on page 9 for BASIC T1 (J) and T1L (J), page 18 for BASIC T1 (S) and T1L (S). Photo is BASIC T1.

SERVICE MANUAL

BLOCK DIAGRAM/DISASSEMBLY FOR REPAIR

BLOCK DIAGRAM



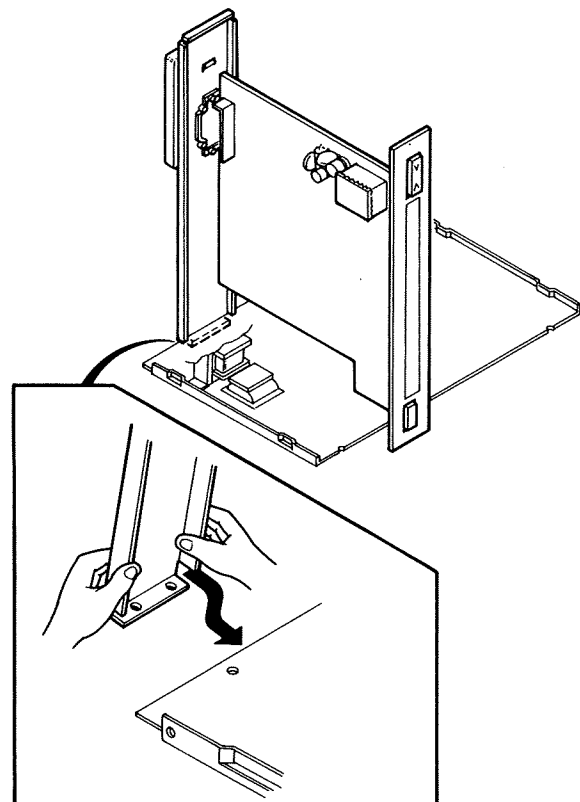
DISASSEMBLY FOR REPAIR

Before repair

There is no frame to connect the front and rear panel in this BASIC T1. Instead, the pc board connects these panels, but the height of the BASIC T1 is not enough to stand the pc board upright. For these reasons, we recommend the following way of standing the pc board upright when repairing.

1. Remove the screws on the bottom plate.
2. Hook the left-hand side slit of the rear panel and lower the front panel on to the bottom plate as shown in the figure.

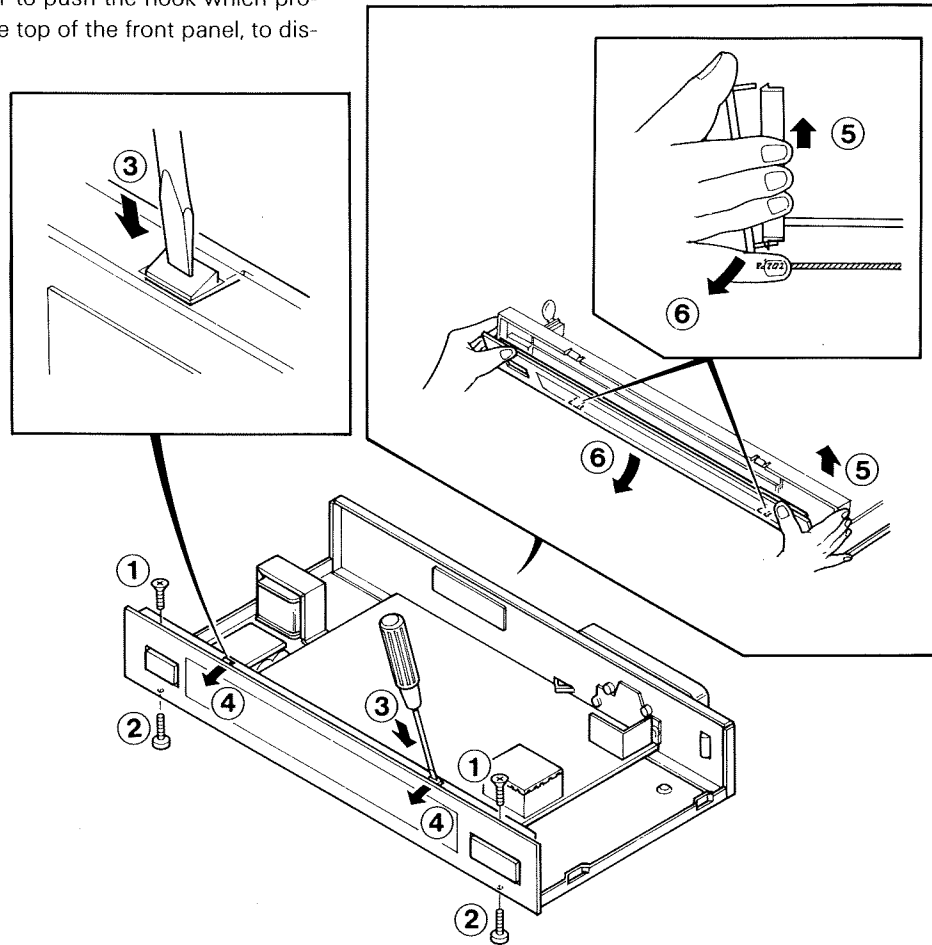
This will make the pc board stand stable and upright making easier to check and replace the components on the pc board.



DISASSEMBLY FOR REPAIR

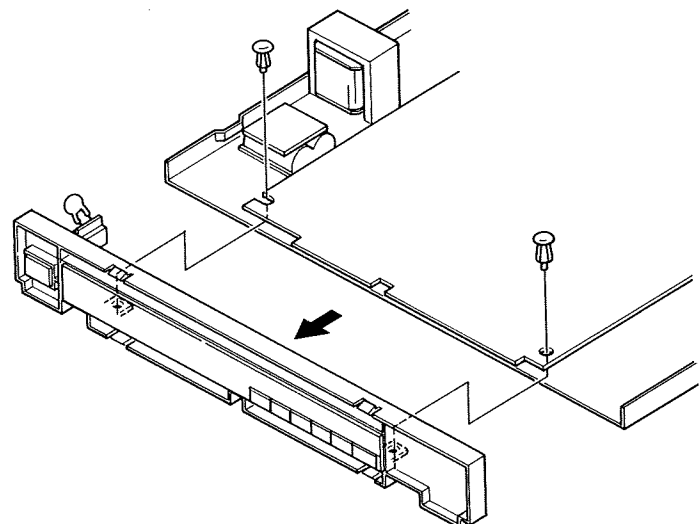
REMOVAL OF FRONT PANEL

1. Remove 3 screws retaining the front panel to the bottom plate.
2. Remove 2 screws at the bottom and 2 screws on the top of the front panel.
3. Use a standard screwdriver to push the hook which projects through the hole at the top of the front panel, to disengage.
4. Slightly tilt the front panel and lift the sub panel to disengage the bottom hook.
5. The front panel will be removed by pulling it frontward.

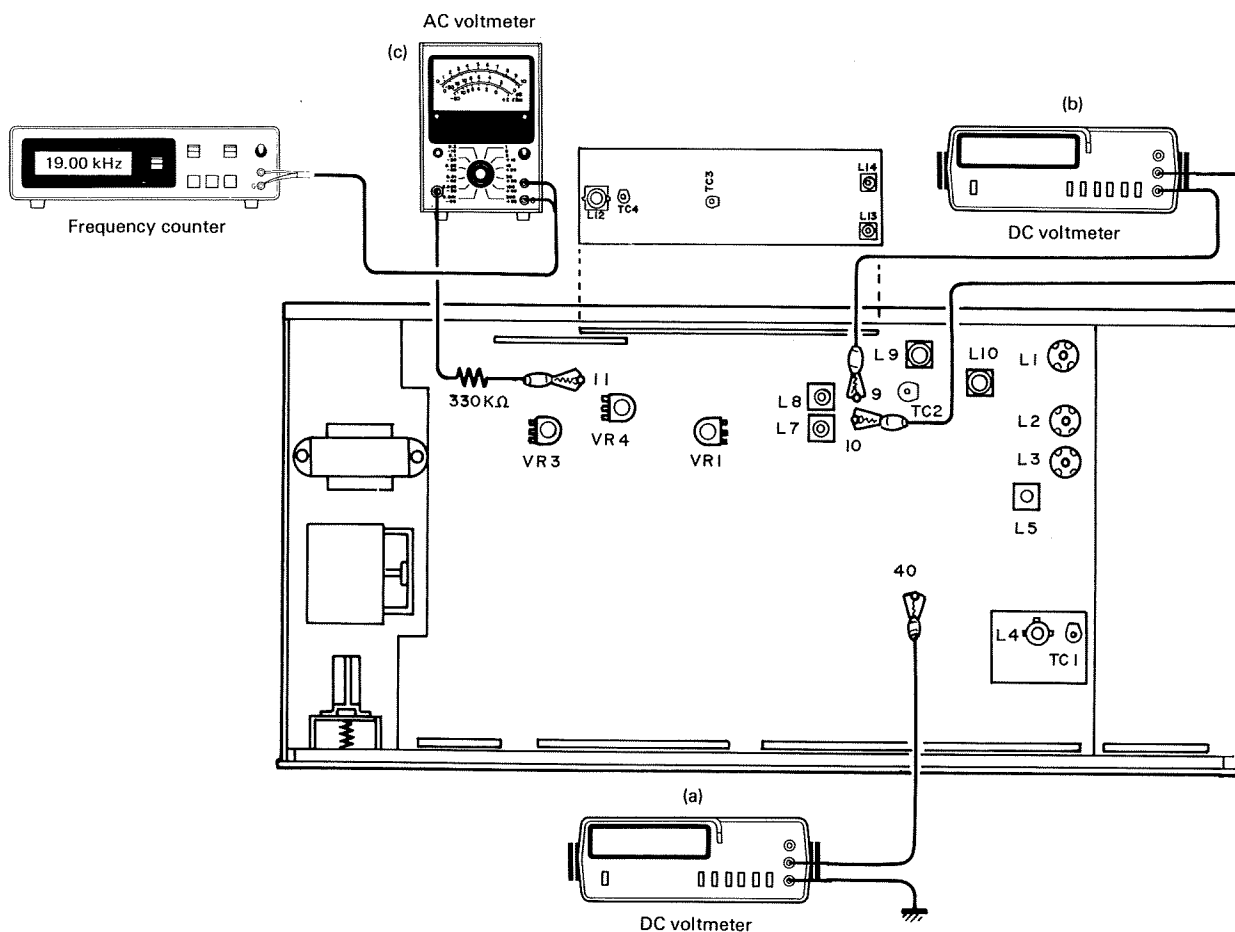
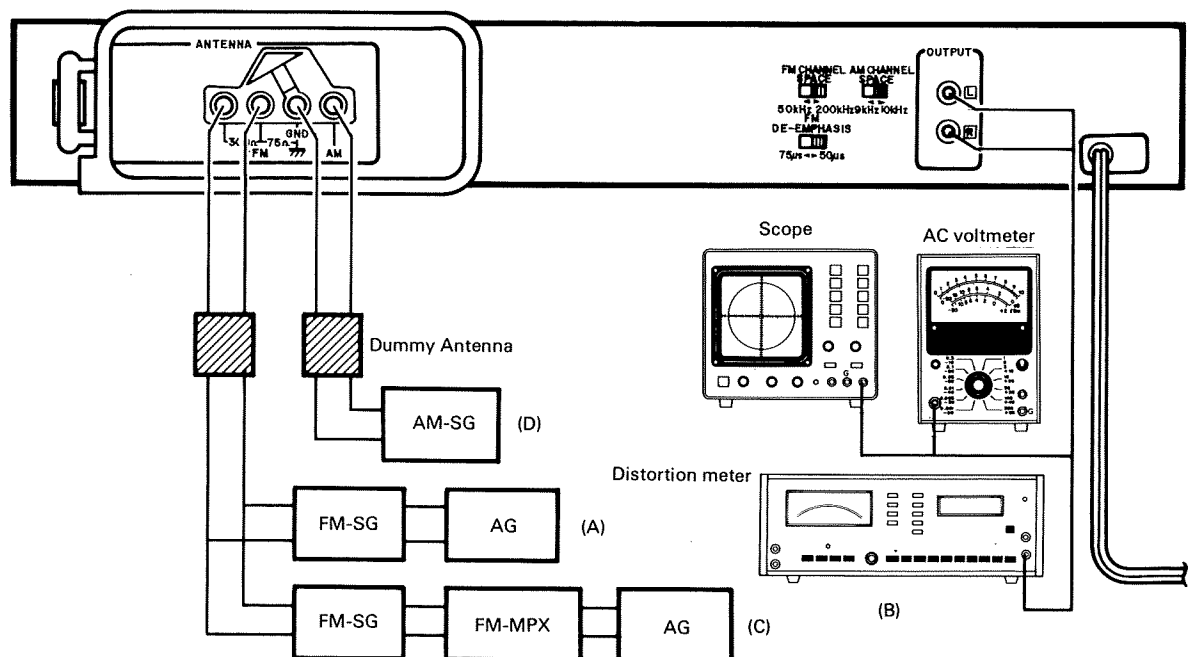


REMOVAL OF SUBPANEL

1. Remove the front panel.
2. Remove 2 push rivets.
3. Pull the sub panel frontward.



ADJUSTMENT/REGLAGES/ABGLEICH



ADJUSTMENT

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION Unless otherwise specified, the individual switches should be set as follows: SELECTOR: FM FM MODE: AUTO							
1	BAND EDGE	—	Connect a DC voltmeter to TP40.	87.9 MHz (87.50 MHz)	L4	3.0V	(a)
2	BAND EDGE	—	Connect a DC voltmeter to TP40.	107.9 MHz (108.00 MHz)	TC1	21.0V	(a)
Repeat alignments 1 and 2 several times.							
3	RF ALIGNMENT	(A) 98.1 MHz 1 kHz $\pm$ 75 kHz dev	(B)	MODE: MONO 98.1 MHz	L1, 2, 3	Maximum amplitude and symmetry of the oscilloscope display	
4	DISCRIMINATOR (1)	(A) 98.1 MHz 1 kHz $\pm$ 75 kHz dev 60 dB (ANT input)	Connect a DC voltmeter between TP9 and 10.	MODE: MONO 98.1 MHz	L7	0V	(b)
5	DISCRIMINATOR (2)	(A) 98.1 MHz 1 kHz $\pm$ 75 kHz dev 60 dB (ANT input)	(B)	MODE: MONO 98.1 MHz	L8	Minimum distortion	
Repeat alignments 4 and 5 several times.							
6	VCO	(A) 98.1 MHz 0 dev 60 dB (ANT input)	Connect a 330 k Ω resistor to TP11. Connect a frequency counter to the resistor via an AC voltmeter.	98.1 MHz	VR3	19.00 kHz	(c)
7	DISTORTION (STEREO)	(C) 98.1 MHz 1 kHz $\pm$ 68.25 kHz dev Selector: L or R Pilot: $\pm$ 6.75 kHz dev 60 dB (ANT input)	(B)	98.1 MHz	L5	Minimum distortion	
8	SEPARATION	(C) 98.1 MHz 1 kHz $\pm$ 68.25 kHz dev Selector: L or R Pilot: $\pm$ 6.75 kHz dev 60 dB (ANT input)	(B)	98.1 MHz	VR4	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separation are unequal.	
9	FM STOP LEVEL	(C) 98.1 MHz 1 kHz $\pm$ 68.25 kHz dev Selector: L or R Pilot: $\pm$ 6.75 kHz dev 30 dB (ANT input)	STEREO LED	98.1 MHz	VR1	Adjust VR1 so that STEREO LED goes off. Then, adjust VR1 and stop at the point where the LED goes on.	
AM SECTION (T1) Keep the AM loop antenna installed. SELECTOR: AM							
(1)	BAND EDGE	—	Connect a DC voltmeter to TP40.	1620 kHz (1611 kHz)	L10	21.0V	(a)
(2)	RF ALIGNMENT (1)	(D) 630 kHz 400 Hz, 30% mod	(B)	630 kHz	L9	Maximum amplitude and symmetry of the oscilloscope display.	
(3)	RF ALIGNMENT (2)	(D) 1440 kHz 400 Hz, 30% mod	(B)	1440 kHz	TC2	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (2) and (3) several times.							
AM-MW SECTION (T1L) Keep the AM loop antenna installed. SELECTOR: MW							
(1)	BAND EDGE	—	Connect a DC voltmeter to TP40.	1620 kHz (1611 kHz)	L13	21.0V	(a)
(2)	RF ALIGNMENT (1)	(D) 630 kHz 400 Hz, 30% mod	(B)	630 kHz	L12	Maximum amplitude and symmetry of the oscilloscope display.	
(3)	RF ALIGNMENT (2)	(D) 1440 kHz 400 Hz, 30% mod	(B)	1440 kHz	TC4	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (2) and (3) several times.							

ADJUSTMENT/REGLAGES

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AM-LW SECTION (T1L) Keep the AM loop antenna installed. SELECTOR: LW							
(4)	BAND EDGE	—	Connect a DC voltmeter to TP40.	353 kHz	L14	21.0V	(a)
(5)	RF ALIGNMENT (1)	(D) 173 kHz 400 Hz, 30% mod	(B)	173 kHz	T1 AM ferrite bar antenna	Maximum amplitude and symmetry of the oscilloscope display.	
(6)	RF ALIGNMENT (2)	(D) 326 kHz 400 Hz, 30% mod	(B)	326 kHz	TC3	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (5) and (6) several times.							

REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTOR: FM FM MODE: AUTO							
1	BORD DE BANDE	—	Connecter un voltmètre CC au TP40.	87,9 MHz (87,50 MHz)	L4	3,0V	(a)
2	BORD DE BANDE	—	Connecter un voltmètre CC au TP40.	107,9 MHz (108,00 MHz)	TC1	21,0V	(a)
Répéter les points 1 et 2 plusieurs fois.							
3	RF ALIGNEMENT	(A) 98,1 MHz 1 kHz $\pm$ 75 kHz dév	(B)	MODE: MONO 98,1 MHz	L1, 2, 3	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
4	DISCRIMINATEUR (1)	(A) 98,1 MHz 1 kHz $\pm$ 75 kHz dév 60 dB (Entrée ANT)	Connecter un voltmètre CC entre les TP9 et TP10.	MODE: MONO 98,1 MHz	L7	0V	(b)
5	DISCRIMINATEUR (2)	(A) 98,1 MHz 1 kHz $\pm$ 75 kHz dév 60 dB (Entrée ANT)	(B)	MODE: MONO 98,1 MHz	L8	Distorsion minimale	
Répéter les points 1 et 2 plusieurs fois.							
6	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98,1 MHz 0 dév 60 dB (Entrée ANT)	Connecter une résistance de 330 k Ω à TP11. Connecter un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,1 MHz	VR3	19,00 kHz	(c)
7	DISTORSION (STEREO)	(C) 98,1 MHz 1 kHz $\pm$ 68,25 kHz dév Selection: L ou R Signal pilote: $\pm$ 6,75 kHz dév 60 dB (Entrée ANT)	(B)	98,1 MHz	L5	Distorsion minimale	
8	SEPARATION	(C) 98,1 MHz 1 kHz $\pm$ 68,25 kHz dév Selection: L ou R Signal pilote: $\pm$ 6,75 kHz dév 60 dB (Entrée ANT)	(B)	98,1 MHz	VR4	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droit à gauche sont inégales.	
9	MF NEVEAU D'ARRET	(C) 98,1 MHz 1 kHz $\pm$ 68,25 kHz dév Selection: L ou R Signal pilote: $\pm$ 6,75 kHz dév 30 dB (Entrée ANT)	STEREO LED	98,1 MHz	VR1	Ajuster VR1 que STEREO LED est non allumé. Alors, ajuster VR1 et arrêter le mouvement de VR1 au moment où le STEREO LED s'allume.	

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
6	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,1 MHz 0 Hub 60 dB (ANT-Eingang)	Einen 330 k Ω Widerstand zu TP11 anschließen. Einen Frequenzzähler über einen Wechselspannungsmesser an den Widerstand anschließen.	98,1 MHz	VR3	19,00 kHz	(c)
7	KLIRRFAKTOR (STEREO)	(C) 98,1 MHz 1 kHz $\pm$ 68,25 kHz Hub Wähler: L oder R Pilotton: $\pm$ 6,75 kHz Hub 60 dB (ANT-Eingang)	(B)	98,1 MHz	L5	Minimalen Klirrfaktor	
8	STEREO KANAL TRENNUNG	(C) 98,1 MHz 1 kHz $\pm$ 68,25 kHz Hub Wähler: L oder R Pilotton: $\pm$ 6,75 kHz Hub 60 dB (ANT-Eingang)	(B)	98,1 MHz	VR4	Minimales Übersprechen. Eine Ausgleichregelung darf notwendig sein, wenn links-zu-rechts und rechts-zu-links Kanal Trennungen ungleich sind.	
9	UKW HALT PEGEL	(C) 98,1 MHz 1 kHz $\pm$ 68,25 kHz Hub Wähler: L oder R Pilotton: $\pm$ 6,75 kHz Hub 30 dB (ANT-Eingang)	STEREO LED	98,1 MHz	VR1	Den Pegelwiderstand VR1 so einstellen, daß der STEREO LED anzeiger nicht leuchtet. Dann der Pegelwiderstand VR1 aufdrehen, und dem VR1 Halt geben wobei den STEREO LED anzeiger leuchtet wird.	

MW-EMPfangSABTEILUNG (T1) Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM

(1)	BANDKANTE	—	Einen Gleichspannungsmesser zu TP40 anschließen.	1620 kHz (1611 kHz)	L10	21,0V	(a)
(2)	HF-ABGLEICH (1)	(D) 630 kHz 400 Hz, 30% mod	(B)	630 kHz	L9	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(3)	HF-ABGLEICH (2)	(D) 1440 kHz 400 Hz, 30% mod	(B)	1440 kHz	TC2	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	

Abstimmungen (2) und (3) mehrere Male wiederholen.

MW-EMPfangSABTEILUNG (T1L) Die MW-Rahmenantenne angebracht lassen. SELECTOR: MW

(1)	BANDKANTE	—	Einen Gleichspannungsmesser zu TP40 anschließen.	1620 kHz (1611 kHz)	L13	21,0V	(a)
(2)	HF-ABGLEICH (1)	(D) 630 kHz 400 Hz, 30% mod	(B)	630 kHz	L12	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(3)	HF-ABGLEICH (2)	(D) 1440 kHz 400 Hz, 30% mod	(B)	1440 kHz	TC2	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	

Abstimmungen (2) und (3) mehrere Male wiederholen.

LW-EMPfangSABTEILUNG (T1L) Die MW-Rahmenantenne angebracht lassen. SELECTOR: LW

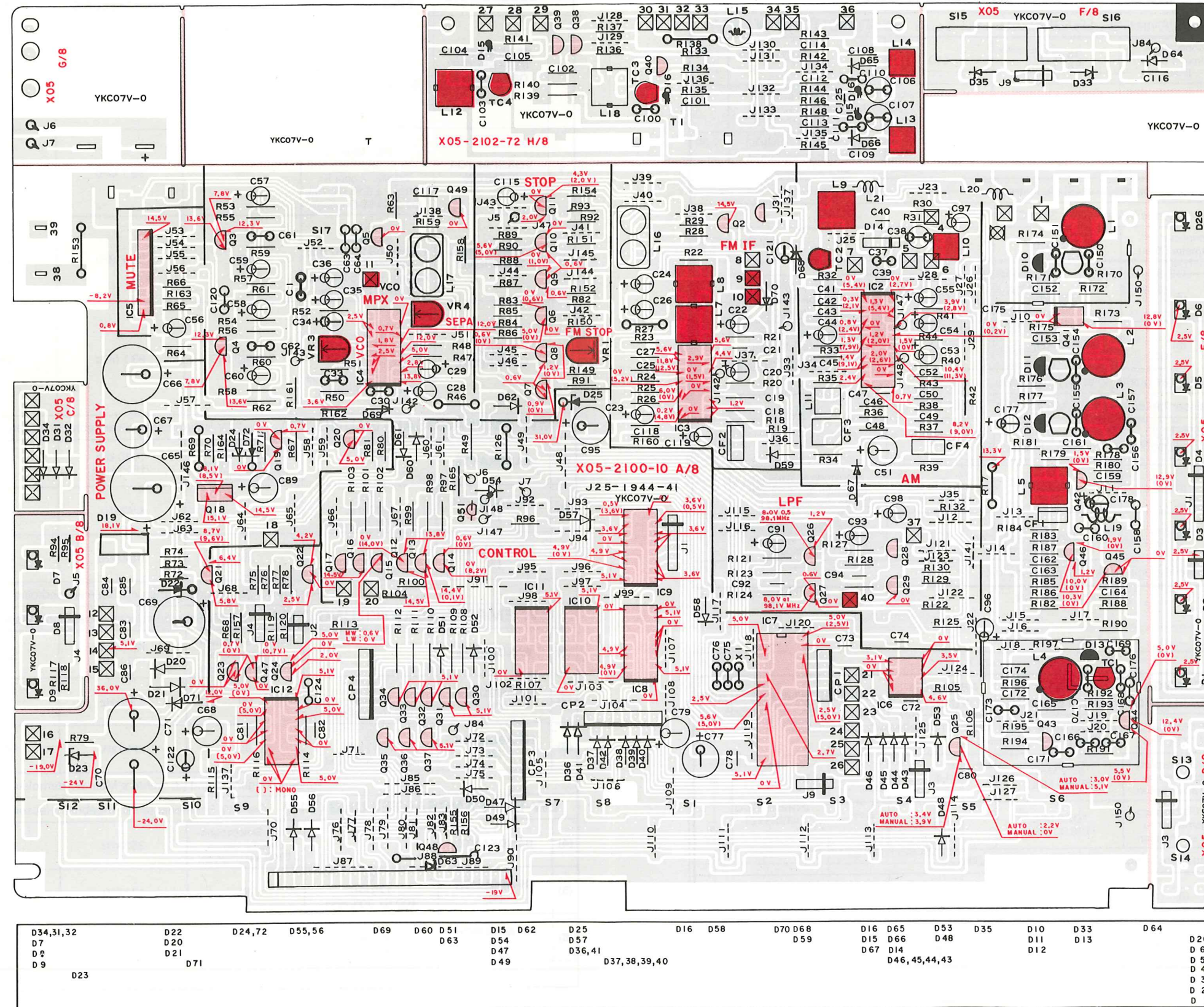
(4)	BANDKANTE	—	Einen Gleichspannungsmesser zu TP40 anschließen.	353 kHz	L14	21,0V	(a)
(5)	FH-ABGLEICH (1)	(D) 173 kHz 400 Hz, 30% mod	(B)	173 kHz	T1 MW-Ferritantenne	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(6)	HF-ABGLEICH (2)	(D) 326 kHz 400 Hz, 30% mod	(B)	326 kHz	TC3	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	

Abstimmungen (5) und (6) mehrere Male wiederholen.

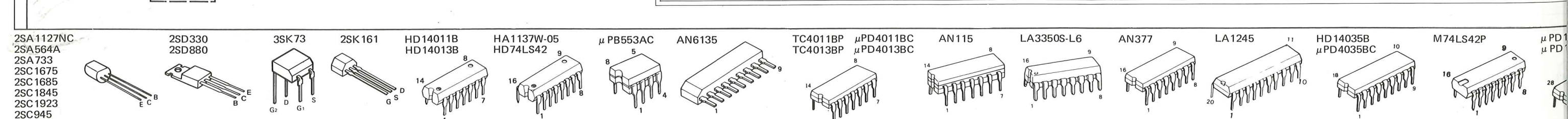
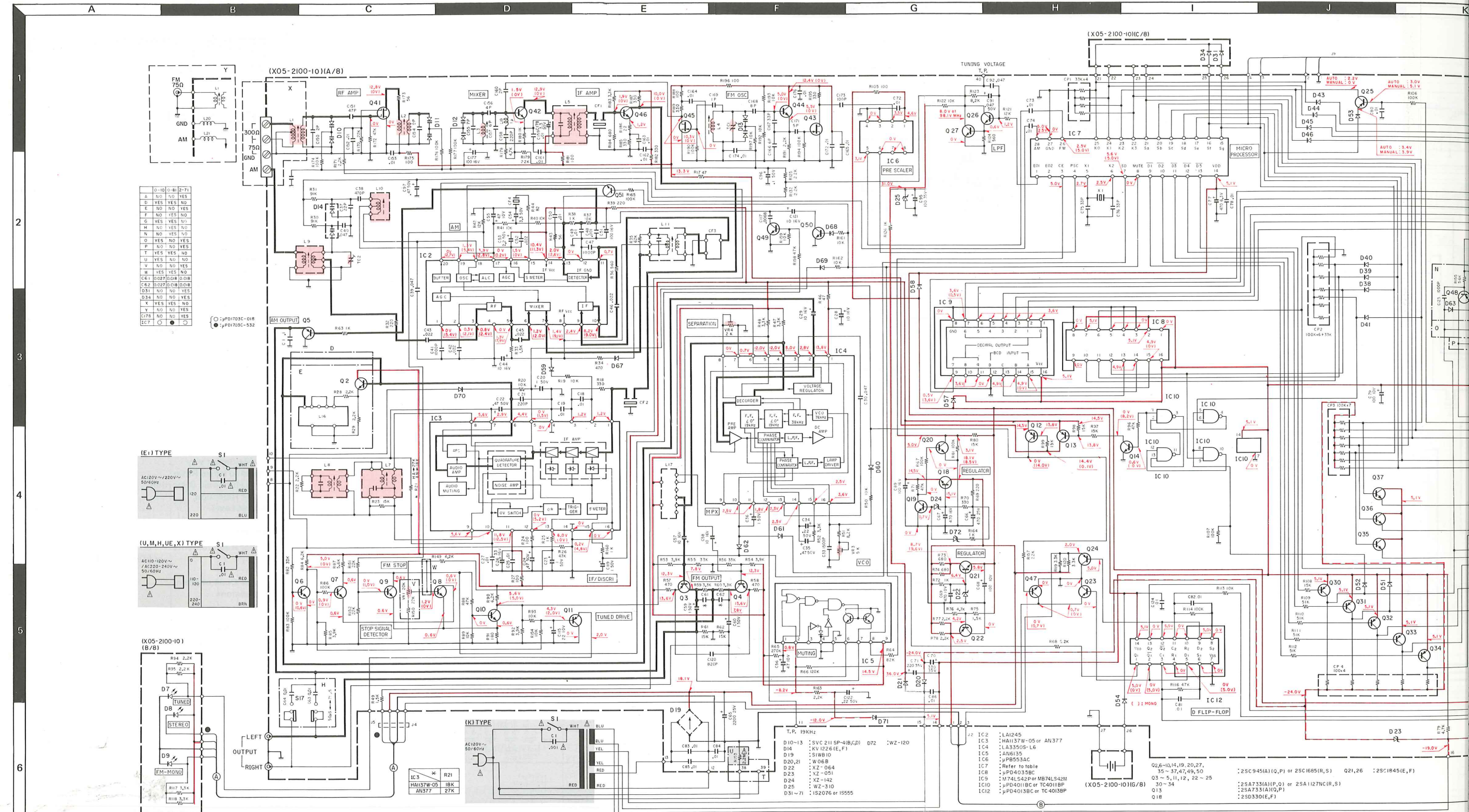
BASIC T1/T1L BASIC T1/T1L

PC BOARD

TUNER (X05-2100-10) Component side view



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



BASIC T1



SPECIFICATIONS

FM tuner section

Usable Sensitivity.....	10.8 dBf (0.95 μ V)
50 dB Quieting Sensitivity	
Mono.....	16.4 dBf (3.6 μ V)
Stereo.....	37.2 dBf (40 μ V)
Signal to Noise Ratio at 65 dBf	
Mono.....	72 dB
Stereo.....	68 dB
Total Harmonic Distortion at 1 kHz	
Mono.....	0.1%
Stereo.....	0.15%
Frequency Response.....	30 Hz to 15 kHz +0.2 dB, -2.0 dB
Capture Ratio.....	1 dB
Image Rejection Ratio.....	80 dB
Spurious Rejection Ratio.....	90 dB
IF Rejection Ratio.....	90 dB
Alternate Channel Selectivity.....	50 dB
AM Suppression Ratio.....	47 dB
Stereo Separation Ratio.....	45 dB at 1 kHz 32 dB at 50 Hz to 10 kHz
Antenna Impedance.....	300 ohms balanced and 75 ohms unbalanced
Output Level at 1 kHz, 100% Mod.....	0.6V/3.3 kohms

AM tuner section

Usable Sensitivity.....	10 μ V
Signal to Noise Ratio.....	50 dB
Total Harmonic Distortion.....	0.5%
Image Rejection.....	30 dB
Output Level.....	0.17V, 3.3 kohms

General

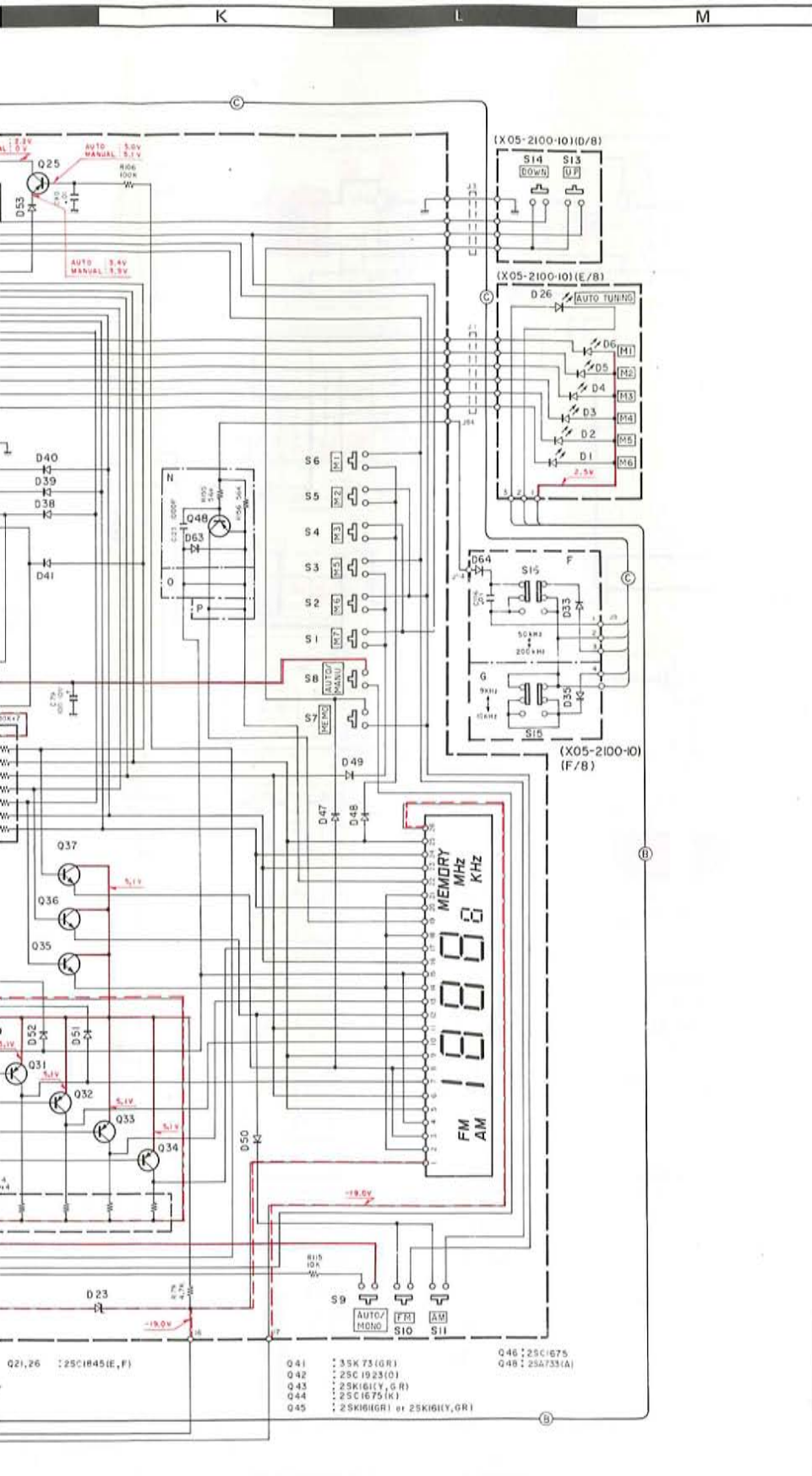
Power Requirements	60 Hz 120V (U.S.A and Canada) or 50/60 Hz 110-120/220-240V, Switchable
Power Consumption	10W
Dimensions	W: 440 mm (17-5/16") H: 74 mm (2-29/32") D: 235 mm (9-1/4")
Weight (Net)	2.5 kg (5.5 lb)

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

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

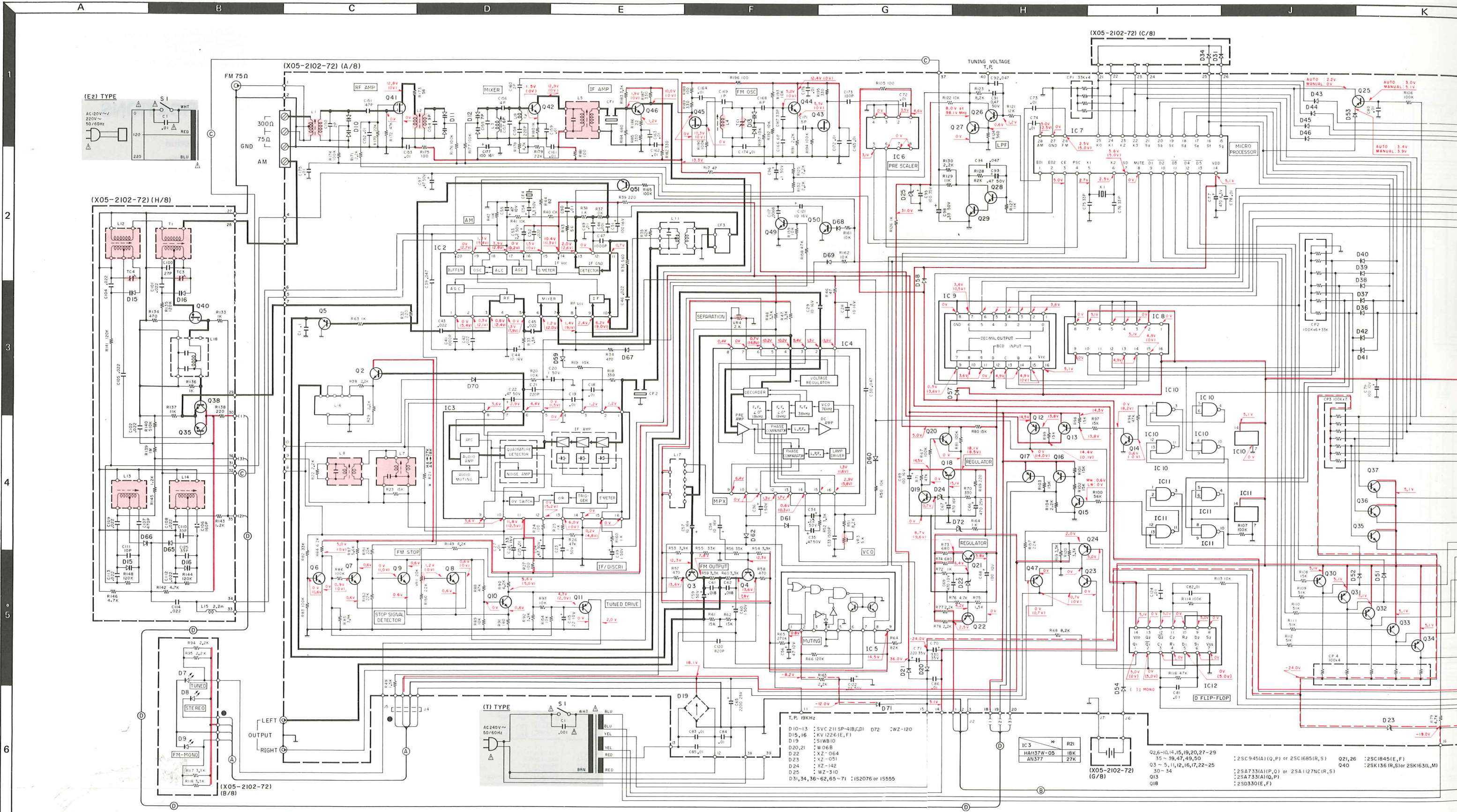
Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

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



KENWOOD

QUARTZ SYNTHESIZER STEREO TUNER



BASIC T1L



SPECIFICATIONS

FM tuner section

Usable Sensitivity.....	10.8 dBf (0.95 μ V)
50 dB Quieting Sensitivity	
Mono.....	16.4 dBf (3.6 μ V)
Stereo.....	37.2 dBf (40 μ V)
Signal to Noise Ratio at 65 dBf	
Mono.....	72 dB
Stereo.....	68 dB
Total Harmonic Distortion at 1 kHz	
Mono.....	0.1%
Stereo.....	0.15%
Frequency Response.....	30 Hz to 15 kHz +0.2 dB, -2.0 dB

Capture Ratio.....	1 dB
Image Rejection Ratio.....	80 dB
Spurious Rejection Ratio.....	90 dB
IF Rejection Ratio.....	90 dB
Alternate Channel Selectivity.....	50 dB
AM Suppression Ratio.....	47 dB
Stereo Separation Ratio.....	45 dB at 1 kHz 32 dB at 50 Hz to 10 kHz

Antenna Impedance.....	300 ohms balanced and 75 ohms unbalanced
Output Level at 1 kHz, 100% Mod.....	0.6V/3.3 kohms

AM tuner section

Usable Sensitivity.....	10 μ V
Signal to Noise Ratio.....	50 dB
Total Harmonic Distortion.....	0.5%
Image Rejection.....	30 dB
Output Level.....	0.17V, 3.3 kohms

General

Power Requirements	60 Hz 120V (U.S.A and Canada) or 50/60 Hz 110-120/220-240V, Switchable
--------------------------	--

Power Consumption	10W
-------------------------	-----

Dimensions	W: 440 mm (17-5/16") H: 74 mm (2-29/32") D: 235 mm (9-1/4")
------------------	---

Weight (Net)	2.5 kg (5.5 lb)
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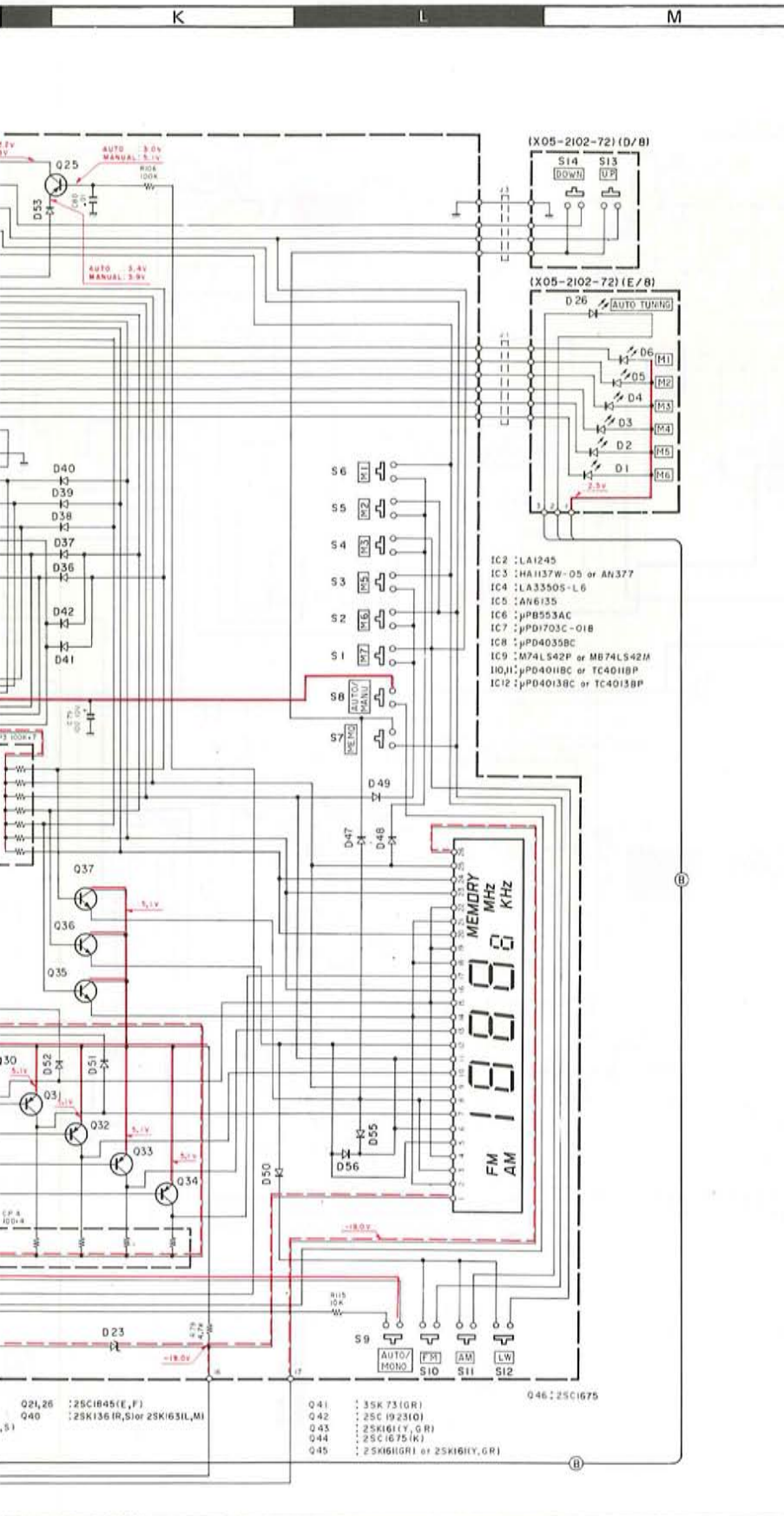
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Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

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

DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).



PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Remarks:

L: long wave version.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
BASIC T1/T1L.....(J) (J): for sets made in Japan.						
11	1A	*	A01-0652-04	METALLIC CABINET		
12	2A	*	A20-3602-03	PANEL ASSY	KPUM	
12	2A	*	A20-3602-03	PANEL ASSY	UEE1	
12	2A	*	A20-3603-03	PANEL ASSY	E2	L
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	UUE	
-			B46-0098-03	WARRANTY CARD	E1E2	L
-		*	B50-4826-00	INSTRUCTION MANUAL (ENGLISH)	KPUM	
-		*	B50-4826-00	INSTRUCTION MANUAL (ENGLISH)	UE	
-		*	B50-4827-00	INSTRUCTION MANUAL (FRENCH)	PME1	
-		*	B50-4828-00	INSTRUCTION MANUAL (SPANISH)	M	
-		*	B50-4829-00	INSTRUCTION MANUAL (4-LING)	E1	
-		*	B50-4833-00	INSTRUCTION MANUAL (5-LING)	E2	L
-			B59-0018-00	SERVICE DIRECTORY	UUE	
13	2A		B10-0315-03	FRONT GLASS	KPUM	
13	2A		B10-0315-03	FRONT GLASS	UEE1	
13	2A		B10-0317-03	FRONT GLASS	E2	L
△ C1	2A		C91-0023-05	CERAMIC 0.01UF AC250V	UMUE	
△ C1	2A		C91-0079-05	CERAMIC 0.01UF AC125V	KPE1	
△ C1	2A		C91-0079-05	CERAMIC 0.01UF AC125V	E2	L
△ 14	2A		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	E1	
△ 14	2A		E03-0053-15	AC INLET	E1E2	L
△ 14	2A		E03-0102-15	AC INLET	UMUE	
△ 15	2A,2B		E30-0181-05	AC POWER CORD	KP	
△ 15	2A,2B		E30-1305-15	AC POWER CORD (INLET)	UMUE	
△ 15	2A,2B		E30-1329-05	AC POWER CORD (INLET)	E1E2	L
16	1A		E30-0505-05	AUDIO CORD		
17	1A		E04-0004-05	RF COAXIAL CABLE RECEPTACLE	E2	L
-		*	H01-4822-04	ITEM CARTON CASE	KPUM	
-		*	H01-4822-04	ITEM CARTON CASE	UEE1	
-		*	H01-4823-04	ITEM CARTON CASE	E2	L
-			H10-1595-03	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG		
-			H25-0179-04	PROTECTION BAG 530X450X0.05		
20	3A,3B		J02-0343-05	FOOT		
21	2B		J19-0626-12	ANTENNA HOLDER		
△ 22	2B		J42-0083-05	POWER CORD BUSHING	KP	
23	2A	*	K27-0645-14	KNOB (POWER)		
24	2A	*	K27-0857-14	KNOB 6KEY (PRESET)		
25	2B	*	K27-0675-04	KNOB 2KEY (MEMORY, MANU/AUTO)		
26	2B	*	K27-0676-04	KNOB 3KEY (AM,FM,FM MODE)	KPUM	
26	2B	*	K27-0676-04	KNOB 3KEY (AM,FM,FM MODE)	UEE1	
26	2B	*	K27-0677-04	KNOB 4KEY (AM,FM,FM MODE,LW)	E2	L
27	3A		K27-1034-04	KNOB TUNING	KPE1	
27	3A		K27-1034-04	KNOB TUNING	E2	L
△ 28	1A		L01-2491-05	POWER TRANSFORMER	KP	
△ 28	1A		L01-2494-05	POWER TRANSFORMER	UMUE	
△ 28	1A		L01-2497-05	POWER TRANSFORMER	E1E2	L

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

P: Canada

△ indicates safety critical components.

S: South Africa

T: England

U: PX(Far East, Hawaii)

E1: T1

Refer to exploded view on page 17.

UE: AAFES(Europe)

X: Australia

M: Other Areas

E2: T1L

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Remarks:

L: long wave version.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
29	1A		N09-0287-05	SEMS(TAPTITE SCREW) TRANSFORMER	3X8,+	
30	3B		N09-0292-05	SCREW(GND) 3X19,+		
31	1A,1B		N09-0377-05	TAPTITE SCREW (CASE)		
32	2B		N29-0033-05	PUSH RIVET (3X6.5) 5PCS		
33	1B,2B		N29-0216-05	RIVET 4PCS		
△ S1	2A		S40-1022-05	PUSH SWITCH (POWER TYPE)	UMUE	
△ S1	2A		S40-1025-05	PUSH SWITCH (POWER TYPE)	E1E2	L
△ S4	2A		S40-1024-05	PUSH SWITCH (POWER TYPE)	KP	
35	2B		T90-0104-15	LOOP ANTENNA		
36	1A		T90-0122-05	ANTENNA ADAPTOR	E1	
37	1A		T90-0202-05	T TYPE ANTENNA		
TUNER UNIT (X05-2100-10,X05-2102-72)						
D1 -7	2B,2A	*	B30-0347-05	LED (PY5532K) M1-6,TUNED		
D8 ,9	2A	*	B30-0348-05	LED (PR5532K) STEREO,FM MONO		
D26	2B	*	B30-0348-05	LED (PR5532K) AUTO-TUNING		
C1			CQ93FM1H104K	MYLAR 0.1UF K		
C18 ,19			C91-0083-05	CERAMIC 0.01UF N		
C21			CC45FSL1H221J	CERAMIC 220PF J		
C25			C91-0083-05	CERAMIC 0.01UF N		
C27			C91-0083-05	CERAMIC 0.01UF N		
C30			CQ93M1H473J	MYLAR 0.047UF J		
C33			CQ09FS1H152J	POLYSTY 1500PF J		
C37			CC45UJ1H220J	CERAMIC 22PF J	KPUM	
C37			CC45UJ1H220J	CERAMIC 22PF J	UEE1	
C38			CQ09FS1H471J	POLYSTY 470PF J	KPUM	
C38			CQ09FS1H471J	POLYSTY 470PF J	UEE1	
C39			CK45FF1H473Z	CERAMIC 0.047UF Z	E2	L
C39 ,40			CK45FF1H473Z	CERAMIC 0.047UF Z	KPUM	
C39 ,40			CK45FF1H473Z	CERAMIC 0.047UF Z	UEE1	
C41			CK45D1H102M	CERAMIC 0.001UF M		
C42 ,43			C91-0085-05	CERAMIC 0.022UF N		
C45 ,46			C91-0085-05	CERAMIC 0.022UF N		
C47			CK45FB1H102K	CERAMIC 0.001UF K		
C48			CK14D1H102M	CERAMIC 1000PF M		
C49 ,50			C91-0083-05	CERAMIC 0.01UF N		
C52			C91-0085-05	CERAMIC 0.022UF N		
C61 ,62			CQ93M1H183J	MYLAR 0.018UF J	UMUE	
C61 ,62			CQ93M1H183J	MYLAR 0.018UF J	E1E2	L
C61 ,62			CQ93M1H273J	MYLAR 0.027UF J	KP	
C63 ,64			CQ93M1H103J	MYLAR 0.01UF J	UMUE	
C72 -74			CK45FF1H103Z	CERAMIC 0.01UF Z		
C75 ,76			CC45CH1H330J	CERAMIC 33PF J		
C78			CK45FF1H103Z	CERAMIC 0.01UF Z		
C80 -86			CK45FF1H103Z	CERAMIC 0.01UF Z		
C92			CQ93FM1H473K	MYLAR 0.047UF K		
C94			CQ93FM1H473K	MYLAR 0.047UF K	E2	L
C100			CC45SL1H270J	CERAMIC 27PF J	E2	L
C101,102			C91-0085-05	CERAMIC 0.022UF N	E2	L
C104,105			C91-0085-05	CERAMIC 0.022UF N	E2	L
C106			CQ09FS1H161J	POLYSTY 160PF J	E2	L
C107			CQ09FS1H471J	POLYSTY 470PF J	E2	L
C108,109			C91-0085-05	CERAMIC 0.022UF N	E2	L
C110			CC45CH1H390J	CERAMIC 39PF J	E2	L
C111			CC45UJ1H100D	CERAMIC 10PF D	E2	L

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C112-114			C91-0085-05	CERAMIC 0.022UF N	E2	L
C116			C91-0083-05	CERAMIC 0.01UF N	UMUE	
C117			CQ93M1H682K	MYLAR 0.0068UF K		
C120			CK45B1H821K	CERAMIC 820PF K		
C123			CK45B1H102K	CERAMIC 0.001UF K	UMUE	
C124			CK45F1H103Z	CERAMIC 0.01UF Z	E2	L
C125			CC45CH1H330J	CERAMIC 33PF J		
C150			CC45SL1H020C	CERAMIC 2PF C		
C151			CC45SL1H470J	CERAMIC 47PF J		
C152,153			C91-0083-05	CERAMIC 0.01UF N		
C154			CC45SL1H090D	CERAMIC 9PF D		
C155			CC45SL1H070D	CERAMIC 7PF D		
C156			CC45SL1H040C	CERAMIC 4PF C		
C157			CC45SL1H060D	CERAMIC 6PF D		
C158			CC45SL1H221J	CERAMIC 220PF J		
C159			C91-0083-05	CERAMIC 0.01UF N		
C160			CC45SL1H020C	CERAMIC 2PF C		
C161-165			C91-0083-05	CERAMIC 0.01UF N		
C166			CC45CH1H060D	CERAMIC 6PF D		
C167			CC45CH1H330J	CERAMIC 33PF J		
C168			CC45UJ1H080D	CERAMIC 8PF D		
C169		*	CC45CH1H010C	CERAMIC 1PF C		
C171			CC45CH1H050C	CERAMIC 5PF C		
C172			C91-0083-05	CERAMIC 0.01UF N		
C173			CC45SL1H101J	CERAMIC 100PF J		
C174,175			C91-0083-05	CERAMIC 0.01UF N		
C176			CK45F1H103Z	CERAMIC 0.01UF Z		
TC1			C05-0302-05	CERAMIC TRIMMER CAP. 11PF	KPUM	
TC2			C05-0303-05	CERAMIC TRIMMER CAP. 20PF	UEE1	
TC2			C05-0303-05	CERAMIC TRIMMER CAP. 20PF		
TC3 ,4			C05-0303-05	CERAMIC TRIMMER CAP. 20PF	E2	L
100	1B	*	E13-0217-05	PHONE JACK 2P		
101	1B	*	E20-0232-05	ANTENNA TERMINAL BOARD	E1	
101	1B		E20-0439-05	ANTENNA TERMINAL BOARD	KPUM	
101	1B		E20-0439-05	ANTENNA TERMINAL BOARD	UEE2	L
CF1		*	L72-0190-05	CERAMIC FILTER	E1E2	L
CF1 ,2		*	L72-0140-05	CERAMIC FILTER	KPUM	
CF1 ,2		*	L72-0140-05	CERAMIC FILTER	UE	
CF2		*	L72-0195-05	CERAMIC FILTER	E1E2	L
CF3			L72-0097-05	CERAMIC FILTER		
CF4			L72-0096-05	CERAMIC FILTER		
L1		*	L31-0475-05	FM-RF COIL	KPUM	
L1		*	L31-0475-05	FM-RF COIL	UEE2	
L1		*	L31-0481-05	FM-RF COIL	E1	
L2 ,3		*	L31-0476-05	FM-RF COIL		
L4		*	L32-0270-05	FM OSCILLATING COIL		
L5			L30-0326-05	FM IFT		
L7			L30-0316-05	FM IFT		
L8			L30-0317-05	FM IFT		
L9		*	L31-0474-05	MW-RF COIL	KPUM	
L9		*	L31-0474-05	MW-RF COIL	UEE1	
L10		*	L32-0271-05	MW OSCILLATING COIL	KPUM	
L10		*	L32-0271-05	MW OSCILLATING COIL	UEE1	
L11			L30-0337-05	AM IFT		

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L12		*	L31-0474-05	MW-RF COIL	E2	L
L13		*	L32-0271-05	MW OSCILLATING COIL	E2	L
L14		*	L32-0272-05	LW OSCILLATING COIL	E2	L
L15			L40-1021-03	SMALL FIXED INDUCTOR	E2	L
L16			L79-0125-05	LC FILTER	E1E2	L
L17			L79-0140-05	LC FILTER		
L18			L79-0119-05	LC FILTER	E2	L
L19			L40-1092-11	SMALL FIXED INDUCTOR 1.0UH M		
L20 ,21			L40-1092-11	SMALL FIXED INDUCTOR -1.0UH M	E1	
X1			L77-0573-05	CRYSTAL RESONATOR 4.5MHZ		
CP1			R90-0140-05	MULTI-COMP 33K X4		
CP2		*	R90-0184-05	MULTI-COMP		
CP3			R90-0132-05	MULTI-COMP 100K X7		
CP4		*	R90-0183-05	MULTI-COMP 100K X5		
R17			RD14GB2E470J	FL-PROOF RD 47 J 2E		
R27			RD14GB2E101J	FL-PROOF RD 100 J 2E		
R46			RD14GB2E470J	FL-PROOF RD 47 J 2E		
R69		*	RD14GB2E221J	FL-PROOF RD 220 J 2E		
R126		*	RD14GB2E102J	FL-PROOF RD 1K J 2E		
R153			R92-0173-05	RC 2.2M M 2H	KP	
VR1			R12-3313-05	TRIMMING POT 20K(FM STOP)	E1E2	L
VR3			R12-2305-05	TRIMMING POT 5K (VCO)		
VR4			R12-1313-05	TRIMMING POT 2K (SEPARATION)		
S1 -11	2B	*	S40-1052-05	PUSH SWITCH(SELECTOR, MEMORY)		
S12	2B	*	S40-1052-05	PUSH SWITCH(SELECTOR, MEMORY)	E2	L
S13 ,14	2B	*	S40-1054-05	PUSH SWITCH(TUNING UP, DOWN)		
S15	3A		S31-2056-05	SLIDE SWITCH(AM CHANNEL SPACE)	KP	
S15 ,16	3A,3B		S31-2056-05	SLIDE SWITCH(AM CHANNEL SPACE)	UMUE	
S15 ,16	3A,3B		S31-2056-05	SLIDE SWITCH(FM CHANNEL SPACE)	UMUE	
S17	1B	*	S31-2069-05	SLIDE SWITCH(DE-EMPHASIS)	UMUE	
T1		*	T90-0117-05	BAR ANTENNA	E2	L
102	2B		FIP7D8	FLUORESCENT INDICATOR TUBE	KPUM	
102	2B		FIP7D8	FLUORESCENT INDICATOR TUBE	UEE1	
102	2B		FIP7G8	FLUORESCENT INDICATOR TUBE	E2	L
D10 -13		*	SVC211SP-4(BCD)	VARIABLE CAPACITANCE DIODE		
D14			KV1226(EF)	VARIABLE CAPACITANCE DIODE	KPUM	
D14			KV1226(EF)	VARIABLE CAPACITANCE DIODE	UEE1	
D15 ,16			KV1226(EF)	VARIABLE CAPACITANCE DIODE	E2	L
D19			S1WB10	DIODE		
D20 ,21			W06B	DIODE		
D22			XZ-064	ZENER DIODE		
D23			XZ-051	ZENER DIODE		
D24			XZ-142	ZENER DIODE		
D25		*	WZ-310	ZENER DIODE		
D31			1S1555	DIODE	E1E2	L
D31			1S2076	DIODE	E1E2	L
D33			1S1555	DIODE	UMUE	
D33			1S2076	DIODE	UMUE	
D34			1S1555	DIODE	E1E2	L
D34			1S2076	DIODE	E1E2	L
D35			1S1555	DIODE	KPUM	
D35			1S1555	DIODE	UE	
D35			1S2076	DIODE	KPUM	

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D35			1S2076	DIODE	UE	
D36 ,37			1S1555	DIODE	E2	L
D36 ,37			1S2076	DIODE	E2	L
D38 -41			1S1555	DIODE		
D38 -41			1S2076	DIODE		
D42			1S1555	DIODE	E2	L
D42			1S2076	DIODE	E2	L
D43 -54			1S1555	DIODE		
D43 -54			1S2076	DIODE		
D55 ,56			1S1555	DIODE	E2	L
D55 ,56			1S2076	DIODE	E2	L
D57 -62			1S1555	DIODE		
D57 -62			1S2076	DIODE		
D63 ,64			1S1555	DIODE	UMUE	
D63 ,64			1S2076	DIODE	UMUE	
D65 ,66			1S1555	DIODE	E2	L
D65 ,66			1S2076	DIODE	E2	L
D67 -71			1S1555	DIODE		
D67 -71			1S2076	DIODE		
D72			WZ-120	ZENER DIODE		
IC2			LA1245	IC (AM)		
IC3			AN377	IC (FM-IF, DET)		
IC3			HA1137W-05	IC (FM-IF, DET)		
IC4			LA3350S-L6	IC (MPX)		
IC5			AN6135	IC (MUTING)		
IC6			UPB553AC	IC (PRE SCALER)		
IC7			UPD1703C-018	IC (MICROPROCESSOR)	KPE1	
IC7			UPD1703C-018	IC (MICROPROCESSOR)	E2	L
IC7		*	UPD1703C-532	IC (MICROPROCESSOR)	UMUE	
IC8			UPD4035BC	IC (4-STAGE SHIFT RESISTOR)		
IC9			MB74LS42M	IC (BCD-TO-DECIMAL DECODER)		
IC9			M74LS42P	IC (BCD-TO-DECIMAL DECODER)		
IC10			TC4011BP	IC (QUAD 2-INPUT NAND GATE)		
IC10			UPD4011BC	IC (QUAD 2-INPUT NAND GATE)		
IC11			TC4011BP	IC (QUAD 2-INPUT NAND GATE)	E2	L
IC11			UPD4011BC	IC (QUAD 2-INPUT NAND GATE)	E2	L
IC12			TC4013BP	IC (QUAD D FLIP-FLOP)		
IC12			UPD4013BQ	IC (QUAD D FLIP-FLOP)		
Q2			2SC1685(R,S)	TRANSISTOR	E1E2	L
Q2			2SC945(A)(Q,P)	TRANSISTOR	E1E2	L
Q3 -5			2SA1127NC(R,S)	TRANSISTOR		
Q3 -5			2SA733(A)(Q,P)	TRANSISTOR		
Q6 -10			2SC1685(R,S)	TRANSISTOR		
Q6 -10			2SC945(A)(Q,P)	TRANSISTOR		
Q11 ,12			2SA1127NC(R,S)	TRANSISTOR		
Q11 ,12			2SA733(A)(Q,P)	TRANSISTOR		
Q13			2SA733(A)(Q,P)	TRANSISTOR		
Q14			2SC1685(R,S)	TRANSISTOR		
Q14			2SC945(A)(Q,P)	TRANSISTOR		
Q15			2SC1685(R,S)	TRANSISTOR	E2	L
Q15			2SC945(A)(Q,P)	TRANSISTOR	E2	L
Q16 ,17			2SA1127NC(R,S)	TRANSISTOR	E2	L
Q16 ,17			2SA733(A)(Q,P)	TRANSISTOR	E2	L
Q18			2SD330(E,F)	TRANSISTOR		
Q19 ,20			2SC1685(R,S)	TRANSISTOR		

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Q19 ,20			2SC945(A)(Q,P)	TRANSISTOR		
Q21			2SC1845(F,E)	TRANSISTOR		
Q22 -25			2SA1127NC(R,S)	TRANSISTOR		
Q22 -25			2SA733(A)(Q,P)	TRANSISTOR		
Q26			2SC1845(F,E)	TRANSISTOR		
Q27			2SC1685(R,S)	TRANSISTOR		
Q27			2SC945(A)(Q,P)	TRANSISTOR		
Q28 ,29			2SC1685(R,S)	TRANSISTOR	E2	L
Q28 ,29			2SC945(A)(Q,P)	TRANSISTOR	E2	L
Q30 -34			2SA1127NC(R,S)	TRANSISTOR		
Q30 -34			2SA733(A)(Q,P)	TRANSISTOR		
Q35 -37			2SC1685(R,S)	TRANSISTOR		
Q35 -37			2SC945(A)(Q,P)	TRANSISTOR		
Q38 ,39			2SC1685(R,S)	TRANSISTOR	E2	L
Q38 ,39			2SC945(A)(Q,P)	TRANSISTOR	E2	L
Q40			2SK136(R,S)	FET	E2	L
Q40			2SK163(L,M)	FET	E2	L
Q41		*	3SK73(GR)	FET		
Q42		*	2SC1923(O)	TRANSISTOR		
Q43			2SK161(Y,GR)	FET		
Q44			2SC1675(K)	TRANSISTOR		
Q45		*	2SK161(GR)	FET		
Q45			2SK161(Y,GR)	FET		
Q46			2SC1675	TRANSISTOR		
Q47			2SC1685(R,S)	TRANSISTOR		
Q47			2SC945(A)(Q,P)	TRANSISTOR		
Q48			2SA1127NC	TRANSISTOR	UMUE	
Q48			2SA733(A)	TRANSISTOR	UMUE	
Q49 ,50			2SC1685(R,S)	TRANSISTOR		
Q49 ,50			2SC945(A)(Q,P)	TRANSISTOR		
Q51			2SC1685	TRANSISTOR		
Q51			2SC945(A)	TRANSISTOR		

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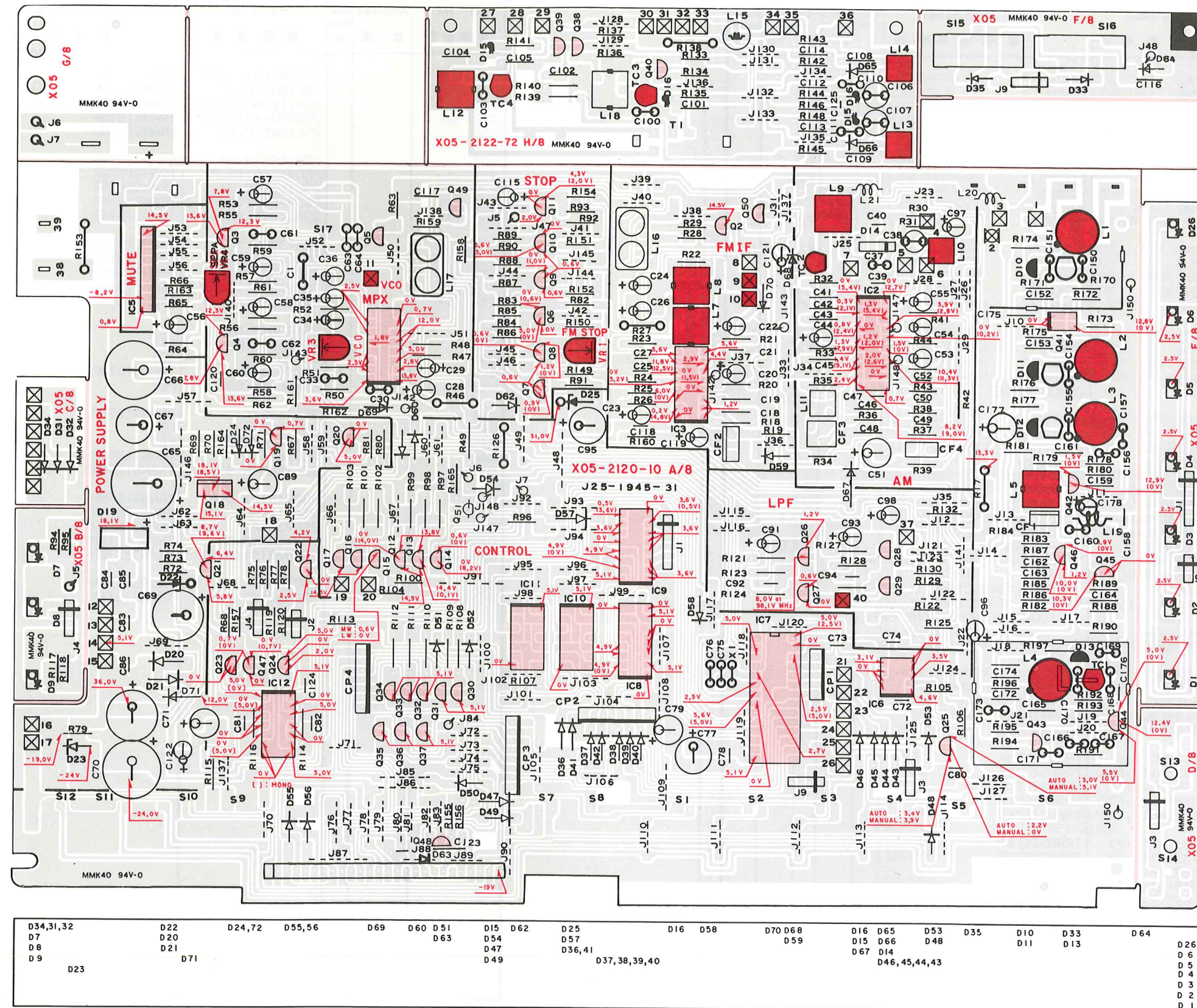
X: Australia

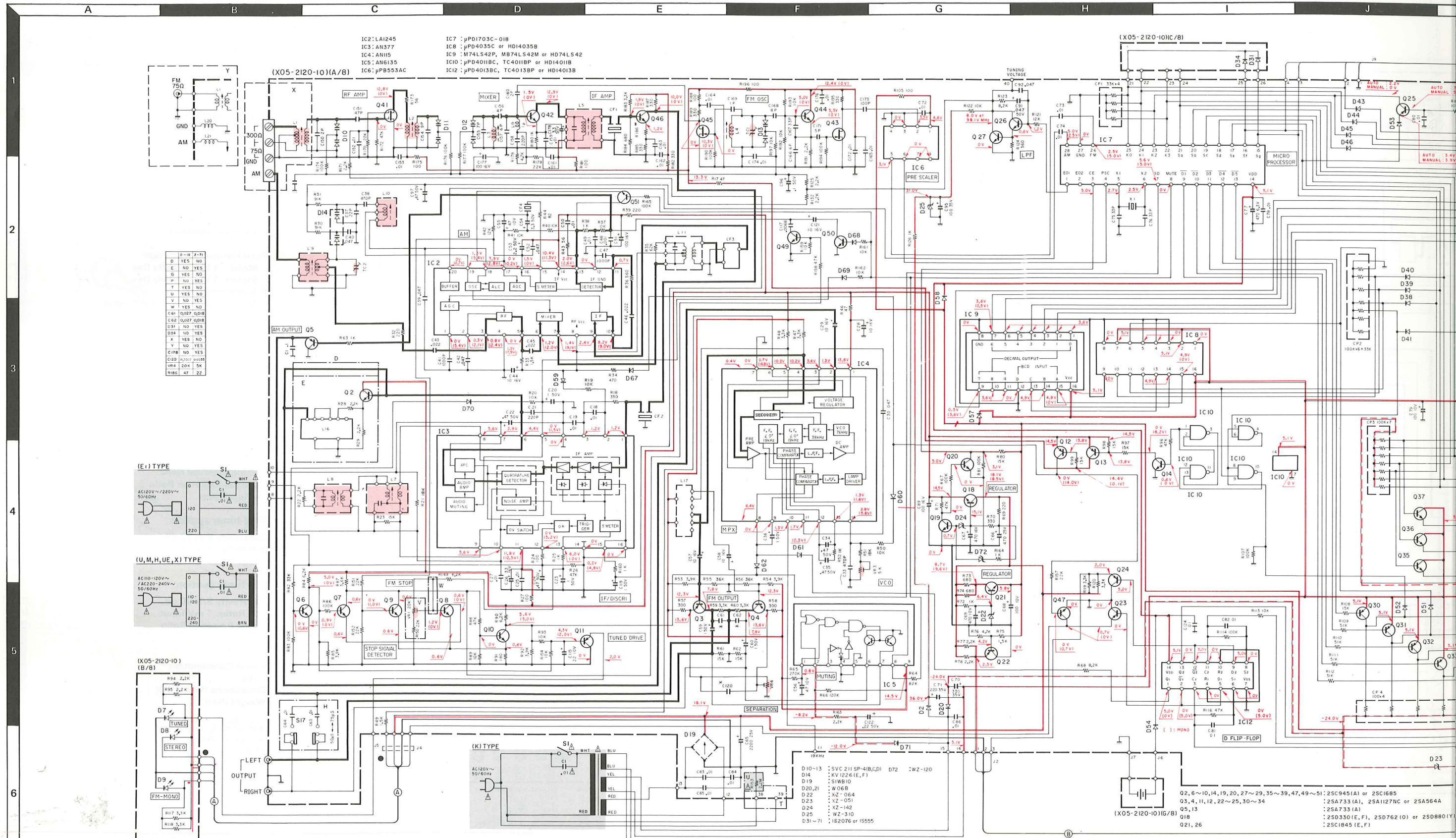
M: Other Areas

BASIC T1/T1L BASIC T1/T1L

PC BOARD

TUNER (X05-2120-10) Component side view





- | | | | | | | | | | | | | | | | | |
|-----------|--------|--------|--------|-------|--------|----------------------|----------|----------|--------|-----------------------------------|-------|------------|-------|--------|-----------------------|---------|
| 2SA1127NC | 2SC945 | 2SD330 | 2SK136 | 3SK73 | 2SK161 | HD14011B
HD14013B | HD74LS42 | μPB553AC | AN6135 | TC4011BP
μPD4011BC
TC4013BP | AN115 | LA3350S-L6 | AN377 | LA1245 | HD14035B
μPD4035BC | M74LS42 |
|-----------|--------|--------|--------|-------|--------|----------------------|----------|----------|--------|-----------------------------------|-------|------------|-------|--------|-----------------------|---------|

BASIC T1



SPECIFICATIONS

FM tuner section

Sensitivity at 75 ohms

Mono: S/N 26 dB, 40 kHz Dev	0.95 μ V
Stereo: S/N 46 dB, 46 kHz Dev	25 μ V

Limiting Level

-3 dB, Point, 40 kHz Dev	0.7 μ V
--------------------------	-------------

Frequency Response	30 Hz ~ 15 kHz +0.2 dB, -2.0 dB
--------------------	------------------------------------

Total Harmonic Distortion

Mono: 1 kHz, 40 kHz Dev	0.2%
Stereo: 1 kHz, 46 kHz Dev	0.4%

S/N Weighted (IEC-A)

Mono: 40 kHz Dev., 1 mV Input	68 dB
Stereo: 46 kHz Dev., 1 mV Input	63 dB

S/N Ratio (IHF)

Mono: 75 kHz Dev., 1 mV Input	72 dB
Stereo: 75 kHz Dev., 1 mV Input	68 dB

FM Stereo Separation: 1 mV Input (DIN)

250 Hz	38 dB
1 kHz	40 dB
6.3 kHz	30 dB
12.5 kHz	24 dB

Image Rejection Ratio

Selectivity

300 kHz, 20 dB input	73 dB
----------------------	-------

IF Rejection Ratio

	90 dB
--	-------

AM Suppression Ratio

	47 dB
--	-------

Spurious Rejection Ratio

	90 dB
--	-------

Capture Ratio

	2 dB
--	------

MW tuner section

Sensitivity S/N 20 dB

	10 μ V
--	------------

S/N Ratio: 1 mV Input

	50 dB
--	-------

Image Rejection Ratio

	30 dB
--	-------

LW tuner section

Sensitivity S/N 20 dB

	20 μ V
--	------------

S/N Ratio: 1 mV Input

	46 dB
--	-------

Image Rejection Ratio

	65 dB
--	-------

General

Power Consumption

IEC	10W
-----	-----

Dimensions (W x H x D)

	440 x 74 x 260 mm
--	-------------------

Weight (Net)

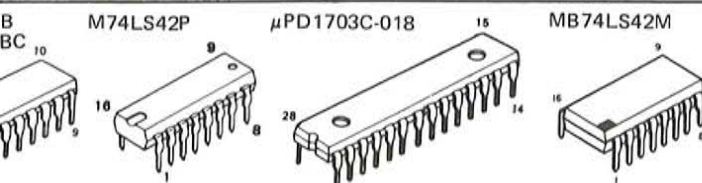
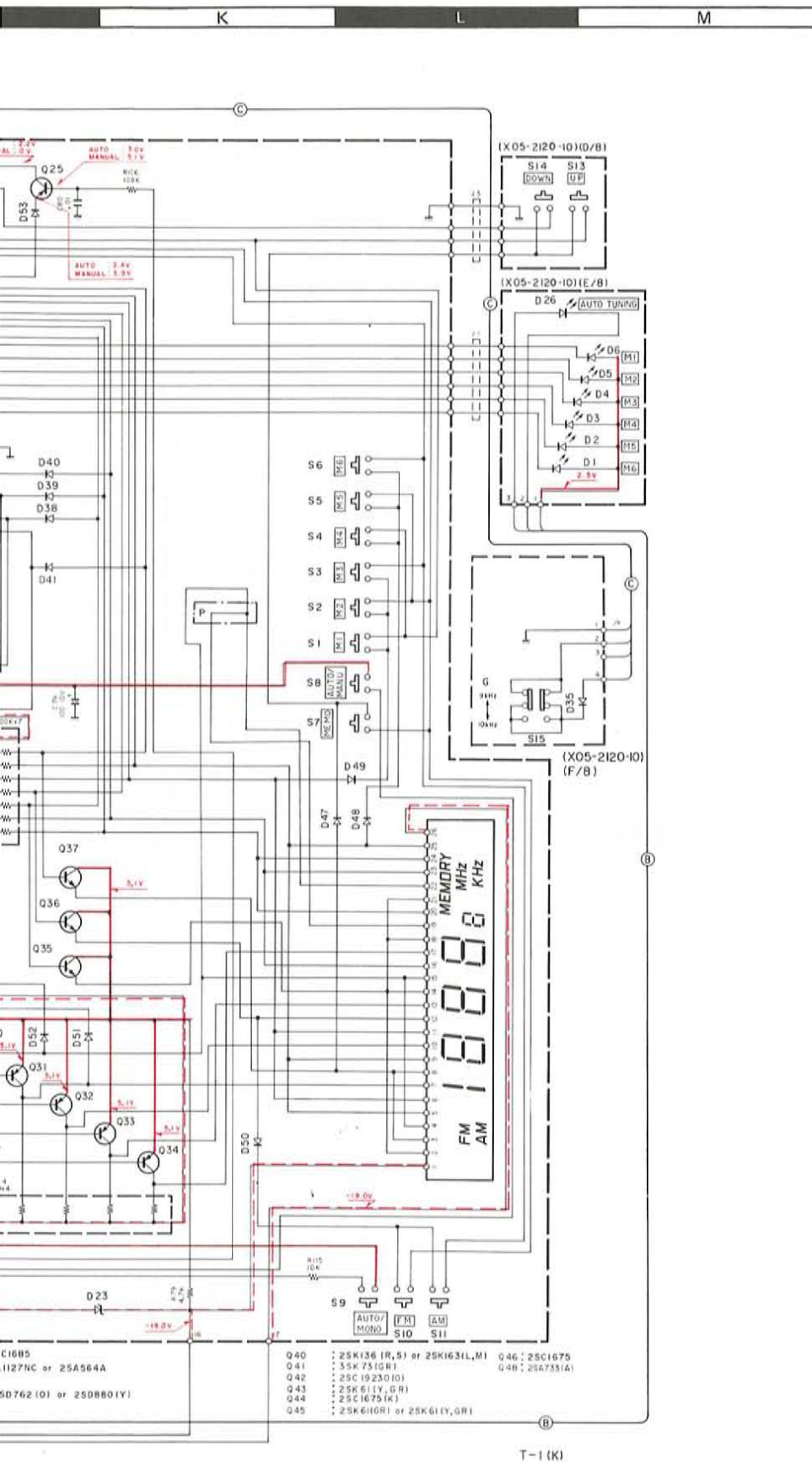
	2.5 kg
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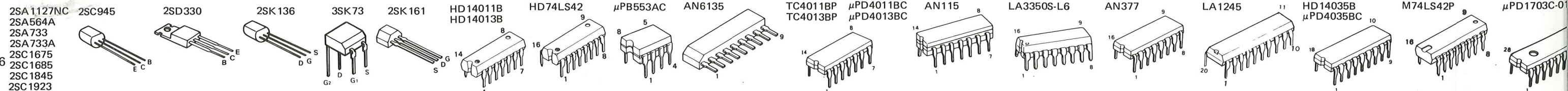
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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

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

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





BASIC T1L



SPECIFICATIONS

FM tuner section

Sensitivity at 75 ohms	
Mono: S/N 26 dB, 40 kHz Dev	0.95 μ V
Stereo: S/N 46 dB, 46 kHz Dev	25 μ V
Limiting Level	
-3 dB, Point, 40 kHz Dev	0.7 μ V
Frequency Response	30 Hz ~ 15 kHz +0.2 dB, -2.0 dB

Total Harmonic Distortion

Mono: 1 kHz, 40 kHz Dev	0.2%
Stereo: 1 kHz, 46 kHz Dev	0.4%

S/N Weighted (IEC-A)

Mono: 40 kHz Dev., 1 mV Input	68 dB
Stereo: 46 kHz Dev., 1 mV Input	63 dB

S/N Ratio (IHF)

Mono: 75 kHz Dev., 1 mV Input	72 dB
Stereo: 75 kHz Dev., 1 mV Input	68 dB

FM Stereo Separation: 1 mV Input (DIN)

250 Hz	38 dB
1 kHz	40 dB
6.3 kHz	30 dB
12.5 kHz	24 dB

Image Rejection Ratio

Selectivity	
300 kHz, 20 dB input	73 dB
IF Rejection Ratio	90 dB
AM Suppression Ratio	47 dB
Spurious Rejection Ratio	90 dB
Capture Ratio	2 dB

MW tuner section

Sensitivity S/N 20 dB	10 μ V
S/N Ratio: 1 mV Input	50 dB
Image Rejection Ratio	30 dB

LW tuner section

Sensitivity S/N 20 dB	20 μ V
S/N Ratio: 1 mV Input	46 dB
Image Rejection Ratio	65 dB

General

Power Consumption

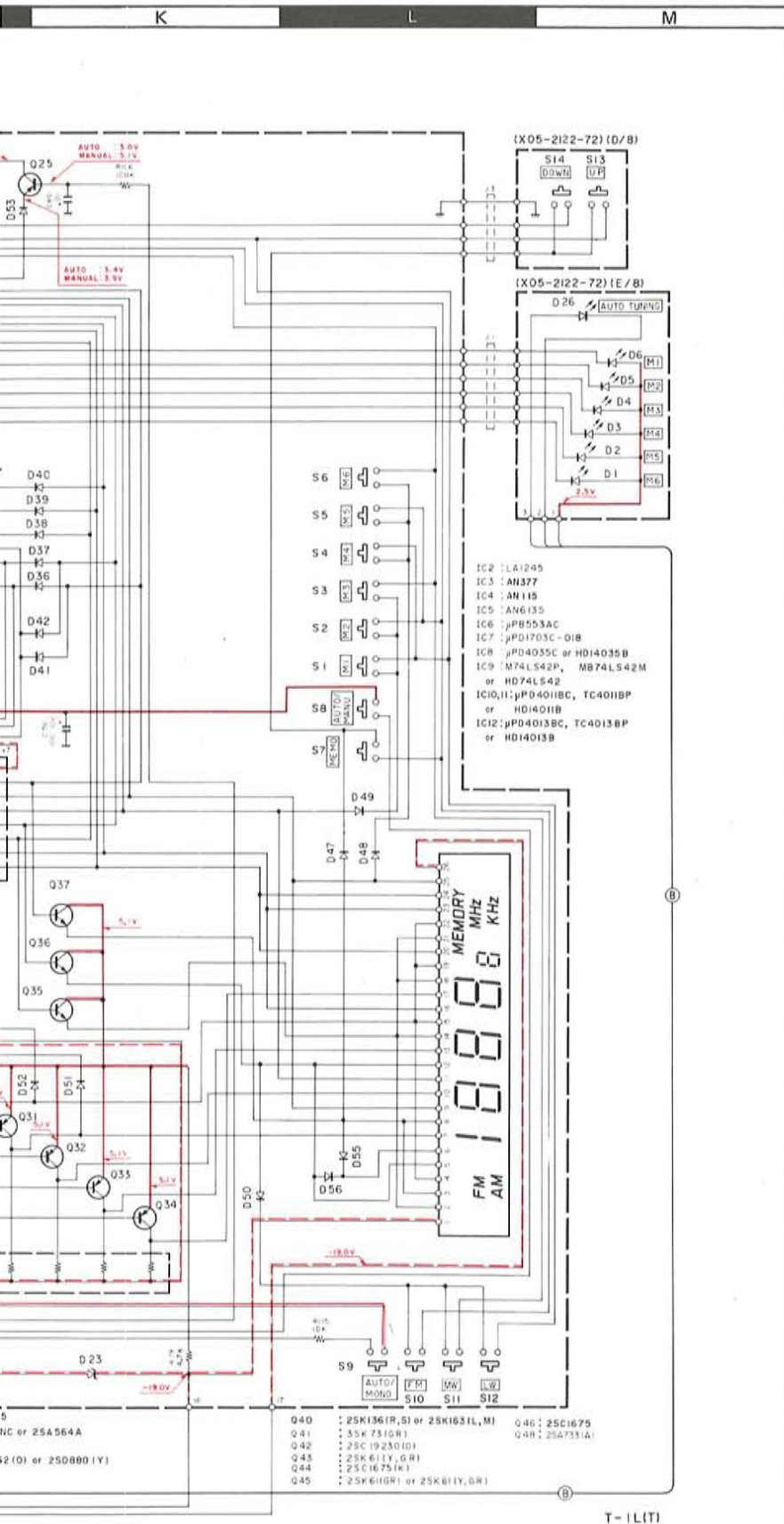
IEC	10W
Dimensions (W x H x D)	440 x 74 x 260 mm
Weight (Net)	2.5 kg

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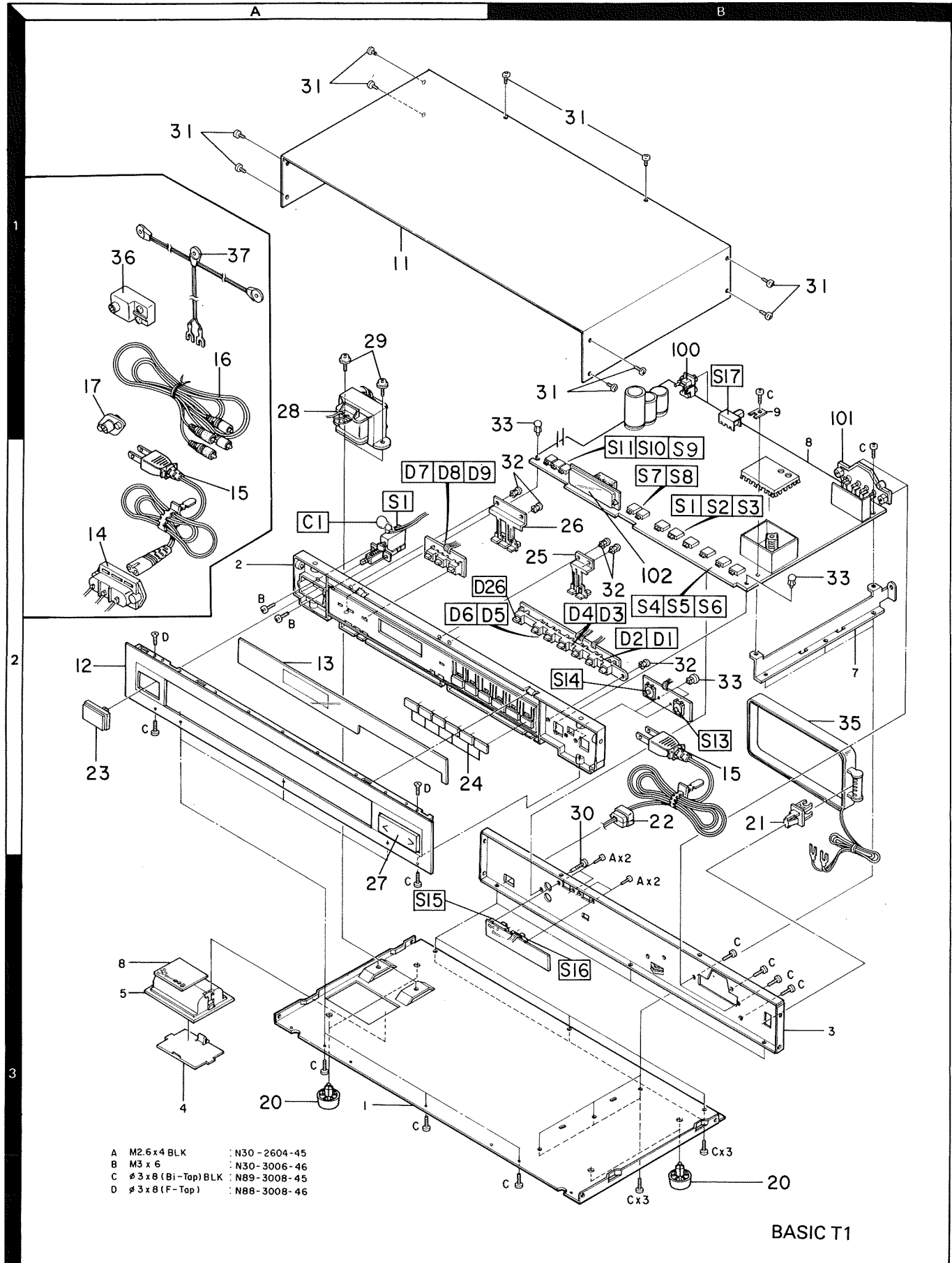
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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



DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception of the AM broadcast signal (with a signal strength of 60 dB at the ANT terminal).

EXPLODED VIEW

Exploded view No. 1 ~ 9 are not supplied.



PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

Remarks:

L: long wave version.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
BASIC T1/T1L.....(S) (S): for sets made in Singapore.						
11	1A	*	A01-0652-04	METALLIC CABINET	KP	
12	2A	*	A20-3602-03	PANEL ASSY	E1	
12	2A	*	A20-3602-03	PANEL ASSY	E2	L
12	2A	*	A20-3603-03	PANEL ASSY		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0093-03	WARRANTY CARD	P	
-			B46-0098-03	WARRANTY CARD	E1E2	L
-		*	B50-4826-00	INSTRUCTION MANUAL (ENGLISH)	KP	
-		*	B50-4827-00	INSTRUCTION MANUAL (FRENCH)	PE1	
-		*	B50-4829-00	INSTRUCTION MANUAL (4-LING)	E1	
-		*	B50-4833-00	INSTRUCTION MANUAL (5-LING)	E2	L
13	2A		B10-0315-03	FRONT GLASS	KP	
13	2A		B10-0315-03	FRONT GLASS	E1	
13	2A		B10-0317-03	FRONT GLASS	E2	L
△ C1	2A		C91-0079-05	CERAMIC 0.01UF AC125V		
△ 14	2A		E03-0053-15	AC INLET	E1E2	
△ 15	2A, 2B		E30-0181-05	AC POWER CORD	KP	
△ 15	2A, 2B		E30-1329-05	AC POWER CORD (INLET)	E1E2	
16	1A		E30-0505-05	AUDIO CORD		
17	1A		E04-0004-05	RF COAXIAL CABLE RECEPTACLE	E2	L
17	1A		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	E1	
-		*	H25-0078-04	PROTECTION BAG	KPE1	
-		*	H01-4824-04	ITEM CARTON CASE	E2	L
-			H01-4825-04	ITEM CARTON CASE		
-			H10-1595-03	POLYSTYRENE FOAMED FIXTURE		
-			H25-0179-04	PROTECTION BAG		
20	3A, 3B		J02-0343-05	FOOT		
21	2B		J19-0564-05	ANTENNA HOLDER		
△ 22	2B		J42-0083-05	POWER CORD BUSHING	KP	
23	2A	*	K27-0645-14	KNOB (POWER)		
24	2A		K27-0857-14	KNOB 6KEY (PRESET)		
25	2B		K27-0675-04	KNOB 2KEY (MEMORY, MANU/AUTO)	KP	
26	2B		K27-0676-04	KNOB 3KEY (AM, FM, FM MODE)	E1	
26	2B		K27-0676-04	KNOB 3KEY (AM, FM, FM MODE)		
26	2B		K27-0677-04	KNOB 4KEY (AM, FM, FM MODE, LW)	E2	L
27	3A		K27-1034-04	KNOB TUNING		
△ 28	1A		L01-2491-05	POWER TRANSFORMER	KP	
△ 28	1A		L01-2497-05	POWER TRANSFORMER	E1E2	L
29	1A		N09-0287-05	SEMS (TAPTITE SCREW) TRANSFORMER		
30	2B		N09-0292-05	GROUND		
31	1A, 1B		N09-0377-05	TAPTITE SCREW (CASE)		
32	2B		N29-0033-05	PUSH RIVET 5PCS		
33	1B, 2B		N29-0216-05	RIVET 4PCS		
△ 51	2A		S40-1024-05	PUSH SWITCH (POWER TYPE)	KP	
△ 51	2A		S40-1025-05	PUSH SWITCH (POWER TYPE)	E1E2	L
35	2B		T90-0104-15	LOOP ANTENNA		
37	1A		T90-0121-05	FEEDER ANTENNA		
TUNER UNIT (X05-2120-10, X05-2122-72)						
D1 -7	2B, 2A	*	B30-0347-05	LED (PY5532K) M1-6, TUNED		

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PARTS LIST

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Remarks:

L: long wave version.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
D8 ,9	2A	*	B30-0348-05	LED (PR5532K) STEREO,FM-MONO		
D26	2B	*	B30-0348-05	LED (PR5532K) AUTO-TUNING		
C1			CQ92FM1H104K	MYLAR 0.10UF K		
C18 ,19			CK45F1H103Z	CERAMIC 0.01UF Z		
C21			CC45FSL1H221J	CERAMIC 220PF J		
C25			CK45F1H103Z	CERAMIC 0.01UF Z		
C27			CK45F1H103Z	CERAMIC 0.01UF Z		
C30			CQ92M1H473K	MYLAR 0.047UF K		
C33			CQ09FS1H471J	POLYSTY 470PF J		
C37			CC45UJ1H220J	CERAMIC 22PF J	KPE1	
C38			CQ09FS1H471J	POLYSTY 470PF J	KPE1	
C39			CK45FF1H473Z	CERAMIC 0.047UF Z		
C40			CK45FF1H473Z	CERAMIC 0.047UF Z	KPE1	
C41			CK14D1H102M	CERAMIC 1000PF M		
C42			CK45FF1H473Z	CERAMIC 0.047UF Z		
C43			CK45F1H223Z	CERAMIC 0.022UF Z		
C45 ,46			CK45F1H223Z	CERAMIC 0.022UF Z		
C47 ,48			CK45FB1H102K	CERAMIC 0.001UF K		
C49			CQ92M1H103K	MYLAR 0.01UF K		
C50			CK45F1H103Z	CERAMIC 0.01UF Z		
C52			CK45F1H473Z	CERAMIC 0.047UF Z		
C61 ,62			CQ92M1H183J	MYLAR 0.018UF J	PE1E2	L
C61 ,62			CQ92M1H273J	MYLAR 0.027UF J	K	
C61 ,62			CQ93M1H183J	MYLAR 0.018UF J	E	
C72 ,74			CK45FF1H103Z	CERAMIC 0.01UF Z		
C75 ,76			CC45CH1H330J	CERAMIC 33PF J		
C78			CK45FF1H103Z	CERAMIC 0.01UF Z		
C80 ,86			CK45FF1H103Z	CERAMIC 0.01UF Z		
C92			CQ92FM1H473K	MYLAR 0.047UF K		
C94			CQ92FM1H473K	MYLAR 0.047UF K	E2	L
C100			CC45SL1H270J	CERAMIC 27PF J	E2	L
C101,102			CK45F1H473Z	CERAMIC 0.047UF Z	E2	L
C104,105			CK45F1H473Z	CERAMIC 0.047UF Z	E2	L
C106			CQ09FS1H161J	POLYSTY 160PF J	E2	L
C107			CQ09FS1H471J	POLYSTY 470PF J	E2	L
C108,109			CK45F1H473Z	CERAMIC 0.047UF Z	E2	L
C110			CC45CH1H390J	CERAMIC 39PF J	E2	L
C111			CC45UJ1H100D	CERAMIC 10PF D	E2	L
C112-114			CK45F1H473Z	CERAMIC 0.047UF Z	E2	L
C117			CQ92M1H682K	MYLAR 0.0068UF K		
C120			CQ92M1H222K	MYLAR 0.0022UF K	KP	
C120			CQ92M1H332K	MYLAR 0.0033UF K	E1E2	L
C124			CK45F1H103Z	CERAMIC 0.01UF Z		
C125			CC45CH1H330J	CERAMIC 33PF J	E2	L
C150			CC45SL1H020C	CERAMIC 2PF C		
C151			CC45SL1H470J	CERAMIC 47PF J		
C152,153			CK45F1H103Z	CERAMIC 0.01UF Z		
C154			CC45SL1H090D	CERAMIC 9PF D		
C155			CC45SL1H070D	CERAMIC 7PF D		
C156			CC45SL1H040C	CERAMIC 4PF C		
C157			CC45SL1H060D	CERAMIC 6PF D		
C158			CC45SL1H221J	CERAMIC 220PF J		
C159			CK45F1H103Z	CERAMIC 0.01UF Z		
C160			CC45SL1H020C	CERAMIC 2PF C		

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C161-165 C166 C167 C168 C169			CK45F1H103Z CC45CH1H060D CC45CH1H330J CC45UJ1H080D CC45CH1H010C	CERAMIC 0.01UF Z CERAMIC 6PF D CERAMIC 33PF J CERAMIC 8PF D CERAMIC 1PF C		
C171 C172 C173 C174-175 TC1			CC45CH1H050C CK45F1H103Z CC45SL1H101J CK45F1H103Z C05-0302-05	CERAMIC 5PF C CERAMIC 0.01UF Z CERAMIC 100PF J CERAMIC 0.01UF Z CERAMIC TRIMMER CAP 11PF		
TC2 TC3 ,4			C05-0303-05 C05-0303-05	CERAMIC TRIMMER CAP 20PF CERAMIC TRIMMER CAP 20PF	KPE1 E2	L
100 101 101	1B 1B 1B	*	E13-0217-05 E20-0232-05 E20-0439-05	PHONE JACK 2P ANTENNA TERMINAL BOARD ANTENNA TERMINAL BOARD	E1 KPE2	L
CF1 CF1 ,2 CF2 CF3 CF4		*	L72-0190-05 L72-0140-05 L72-0195-05 L72-0097-05 L72-0096-05	CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER	E1E2 KP E1E2	L L
L1 L1 L2 ,3 L4 L5		*	L31-0475-05 L31-0481-05 L31-0476-05 L32-0270-05 L30-0326-05	FM-RF COIL FM-RF COIL FM-RF COIL FM OSCILLATING COIL FM IFT	KPE2 E1	L
L7 L8 L9 L9 L10		*	L30-0316-05 L30-0317-05 L31-0474-05 L31-0474-05 L32-0271-05	FM IFT FM IFT MW-RF COIL MW-RF COIL MW OSCILLATING COIL	KPE1 E2 KPE1	L
L11 L12 L13 L14 L15		*	L30-0337-05 L31-0474-05 L32-0271-05 L32-0272-05 L40-1021-03	AM IFT MW-RF COIL MW OSCILLATING COIL LW OSCILLATING COIL SMALL FIXED INDUCTOR	E2 E2 E2 E2	L L L L
L16 L17 L18 L19 L20 ,21			L79-0125-05 L79-0140-05 L79-0119-05 L40-1092-11 L40-1092-11	LC FILTER LC FILTER LC FILTER SMALL FIXED INDUCTOR 1.0UH M SMALL FIXED INDUCTOR 1.0UH M	E1E2 E2 E1	L L
X1			L77-0573-05	CRYSTAL RESONATOR 4.5MHZ		
CP1 CP2 CP3 CP4 R17		*	R90-0140-05 R90-0184-05 R90-0132-05 R90-0183-05 RD14GB2E470J	MULTI-COMP 33K X4 MULTI-COMP MULTI-COMP 100K X7 MULTI-COMP 100K X5 FL-PROOF RD 47 J 2E		
R27 R46 R69 R126 R153		*	RD14GB2E101J RD14GB2E470J RD14GB2E221J RD14GB2E102J R92-0173-05	FL-PROOF RD 100 J 2E FL-PROOF RD 47 J 2E FL-PROOF RD 220 J 2E FL-PROOF RD 1K J 2E RC 2.2M M 2H	KP	
VR1 VR3			R12-3313-05 R12-2305-05	TRIMMING POT 20K(FM STOP) TRIMMING POT 5K (VCO)	E1E2	L

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Remarks:

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
VR4 VR4			R12-2305-05 R12-3313-05	TRIMMING POT 20K(SEPARATION) TRIMMING POT 5K (SEPARATION)	E1E2 KP	L
S1 -11	2B	*	S40-1052-05	PUSH SWITCH (SELECTOR, MEMORY)	E1E2	L
S12	2B	*	S40-1052-05	PUSH SWITCH (LW)	E2	L
S13 ,14	2B	*	S40-1054-05	PUSH SWITCH (TUNING UP, DOWN)		
S15	3A		S31-2056-05	SLIDE SWITCH(AM CHANNEL SPACE)	K	
T1		*	T90-0117-05	BAR ANTENNA	E2	L
102	2B		FIP7D8	FLUORESCENT INDICATOR TUBE	KPE1	
102	2B		FIP7G8	FLUORESCENT INDICATOR TUBE	E2	L
D10 -13		*	SVC211SP-4(BCD)	VARIABLE CAPACITANCE DIODE		
D14			KV1226(EF)	VARIABLE CAPACITANCE DIODE	KPE1	
D15 ,16			KV1226(EF)	VARIABLE CAPACITANCE DIODE	E2	L
D19			S1WB10	DIODE		
D20 ,21			W06B	DIODE		
D22			XZ-064	ZENER DIODE		
D23			WZ-051	ZENER DIODE		
D24			XZ-142	ZENER DIODE		
D25		*	WZ-310	ZENER DIODE		
D31			1S1555	DIODE	PE1E2	L
D31			1S2076	DIODE	PE1E2	L
D34			1S1555	DIODE	PE1E2	L
D34			1S2076	DIODE	PE1E2	L
D35			1S1555	DIODE	K	
D35			1S2076	DIODE	K	
D36 ,37			1S1555	DIODE	E2	L
D36 ,37			1S2076	DIODE	E2	L
D38 -41			1S1555	DIODE		
D38 -41			1S2076	DIODE		
D42			1S1555	DIODE	E2	L
D42			1S2076	DIODE	E2	L
D43 -54			1S1555	DIODE		
D43 -54			1S2076	DIODE		
D55 ,56			1S1555	DIODE	E2	L
D55 ,56			1S2076	DIODE	E2	L
D57 -62			1S1555	DIODE		
D57 -62			1S2076	DIODE		
D65 ,66			1S1555	DIODE	E2	L
D65 ,66			1S2076	DIODE	E2	L
D67 -71			1S1555	DIODE		
D67 -71			1S2076	DIODE		
D72			WZ-120	ZENER DIODE		
IC2			LA1245	IC (AM)		
IC3			AN377	IC (FM-IF, DET)		
IC3			HA1137W-05	IC (FM-IF, DET)		
IC4			AN115	IC (MPX)		
IC5			AN6135	IC (MUTING)		
IC6			UPB553AC	IC (PRE SCALER)		
IC7			UPD1703C-018	IC (MICROPROCESSOR)		
IC8		*	HD14035B	IC (4-STAGE SHIFT RESISTOR)		
IC8		*	UPD4035BC	IC (4-STAGE SHIFT RESISTOR)		
IC9			HD74LS42	IC (BCD-TO-DECIMAL DECORDER)		
IC9			MB74LS42M	IC (BCD-TO-DECIMAL DECORDER)		
IC9			M74LS42P	IC (BCD-TO-DECIMAL DECORDER)		

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IC10			HD14011B	IC (QUAD 2-INPUT NAND GATE)		
IC10			TC4011BP	IC (QUAD 2-INPUT NAND GATE)		
IC10			UPD4011BC	IC (QUAD 2-INPUT NAND GATE)	KPUM	
IC11			HD14011B	IC (QUAD 2-INPUT NAND GATE)	E2	L
IC11			TC4011BP	IC (QUAD 2-INPUT NAND GATE)	E2	L
IC11			UPD4011BC	IC (QUAD 2-INPUT NAND GATE)	E2	L
IC12			HD14013B	IC (QUAD D FLIP-FLÖP)		
IC12			TC4013BP	IC (QUAD D FLIP-FLÖP)		
IC12			UPD4013BC	IC (QUAD D FLIP-FLÖP)		
Q2			2SC1685	TRANSISTOR	E1E2	L
Q2			2SC945(A) (Q,P)	TRANSISTOR	E1E2	L
Q3 ,4			2SA1127NC(R,S)	TRANSISTOR		
Q3 ,4			2SA564A	TRANSISTOR		
Q3 ,4			2SA733(A) (Q,P)	TRANSISTOR		
Q5			2SA733(A) (Q,P)	TRANSISTOR		
Q6 -10			2SC1685	TRANSISTOR		
Q6 -10			2SC945(A) (Q,P)	TRANSISTOR		
Q11 ,12			2SA1127NC(R,S)	TRANSISTOR		
Q11 ,12			2SA564A	TRANSISTOR		
Q11 ,12			2SA733(A) (Q,P)	TRANSISTOR		
Q13			2SA733(A) (Q,P)	TRANSISTOR		
Q14			2SC1685	TRANSISTOR		
Q14			2SC945(A) (Q,P)	TRANSISTOR		
Q15			2SC1685	TRANSISTOR	E2	L
Q15			2SC945(A) (Q,P)	TRANSISTOR	E2	L
Q16 ,17			2SA1127NC(R,S)	TRANSISTOR	E2	L
Q16 ,17			2SA564A	TRANSISTOR	E2	L
Q16 ,17			2SA733(A) (Q,P)	TRANSISTOR	E2	L
Q18			2SD330(E,F)	TRANSISTOR		
Q18			2SD880(Y)	TRANSISTOR		
Q19 ,20			2SC1685	TRANSISTOR		
Q19 ,20			2SC945(A) (Q,P)	TRANSISTOR		
Q21			2SC1845(F,E)	TRANSISTOR		
Q22 -25			2SA1127NC(R,S)	TRANSISTOR		
Q22 -25			2SA564A	TRANSISTOR		
Q22 -25			2SA733(A) (Q,P)	TRANSISTOR		
Q26			2SC1845(F,E)	TRANSISTOR		
Q27			2SC1685	TRANSISTOR		
Q27			2SC945(A) (Q,P)	TRANSISTOR		
Q28 ,29			2SC945(A) (Q,P)	TRANSISTOR	E2	L
Q30 -34			2SA1127NC(R,S)	TRANSISTOR		
Q30 -34			2SA564A	TRANSISTOR		
Q30 -34			2SA733(A) (Q,P)	TRANSISTOR		
Q35 -37			2SC1685	TRANSISTOR		
Q35 -37			2SC945(A) (Q,P)	TRANSISTOR		
Q38 ,39			2SC1685	TRANSISTOR	E2	L
Q38 ,39			2SC945(A) (Q,P)	TRANSISTOR	E2	L
Q40			2SK136(R,S)	FET	E2	L
Q40			2SK163(L,M)	FET	E2	L
Q41		*	3SK73(GR)	FET		
Q42		*	2SC1923(O)	TRANSISTOR		
Q43			2SK161(Y,GR)	FET		
Q44			2SC1675(K)	TRANSISTOR		
Q45		*	2SK161(GR)	FET		
Q45			2SK161(Y,GR)	FET		

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

P: Canada

Δ indicates safety critical components.

S: South Africa

T: England

U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia

M: Other Areas

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Remarks:

L: long wave version.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q46			2SC1675	TRANSISTOR		
Q47			2SC1685	TRANSISTOR		
Q47			2SC945(A)(Q,P)	TRANSISTOR		
Q49 -51			2SC1685	TRANSISTOR		
Q49 -51			2SC945(A)(Q,P)	TRANSISTOR		

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

P: Canada

△ indicates safety critical components.

S: South Africa

T: England

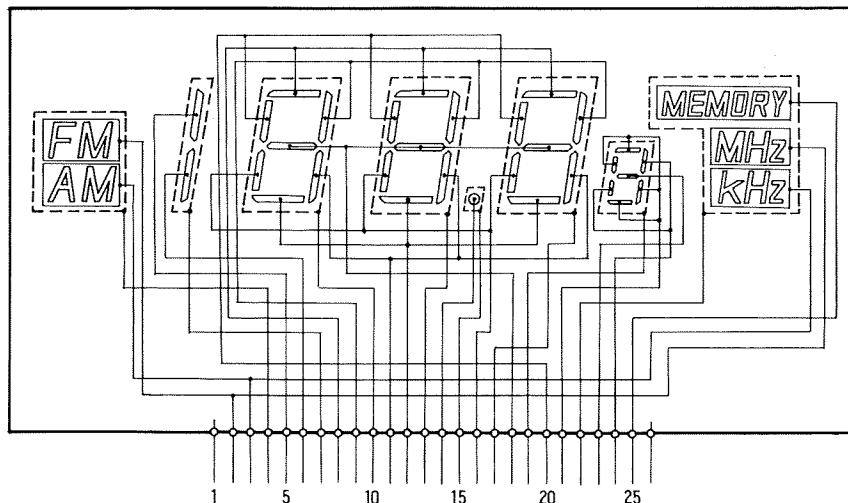
U: PX(Far East, Hawaii)

UE: AAFES(Europe)

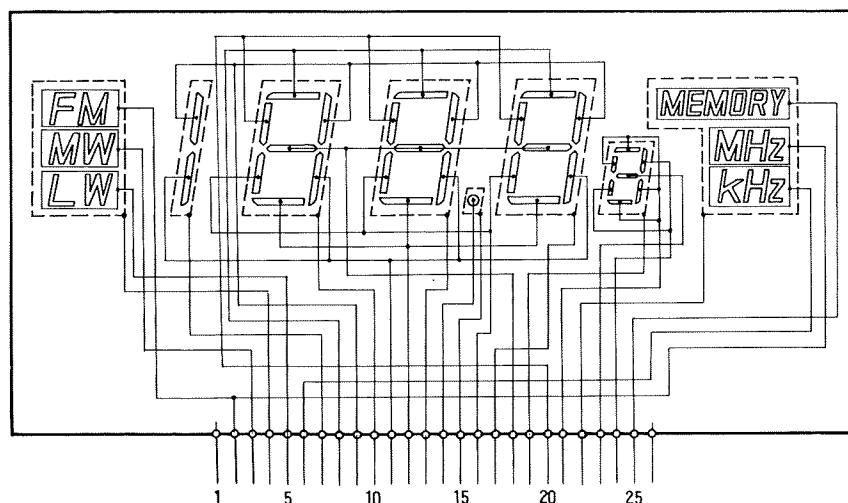
X: Australia

M: Other Areas

FIP7D8



FIP7G8



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.

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