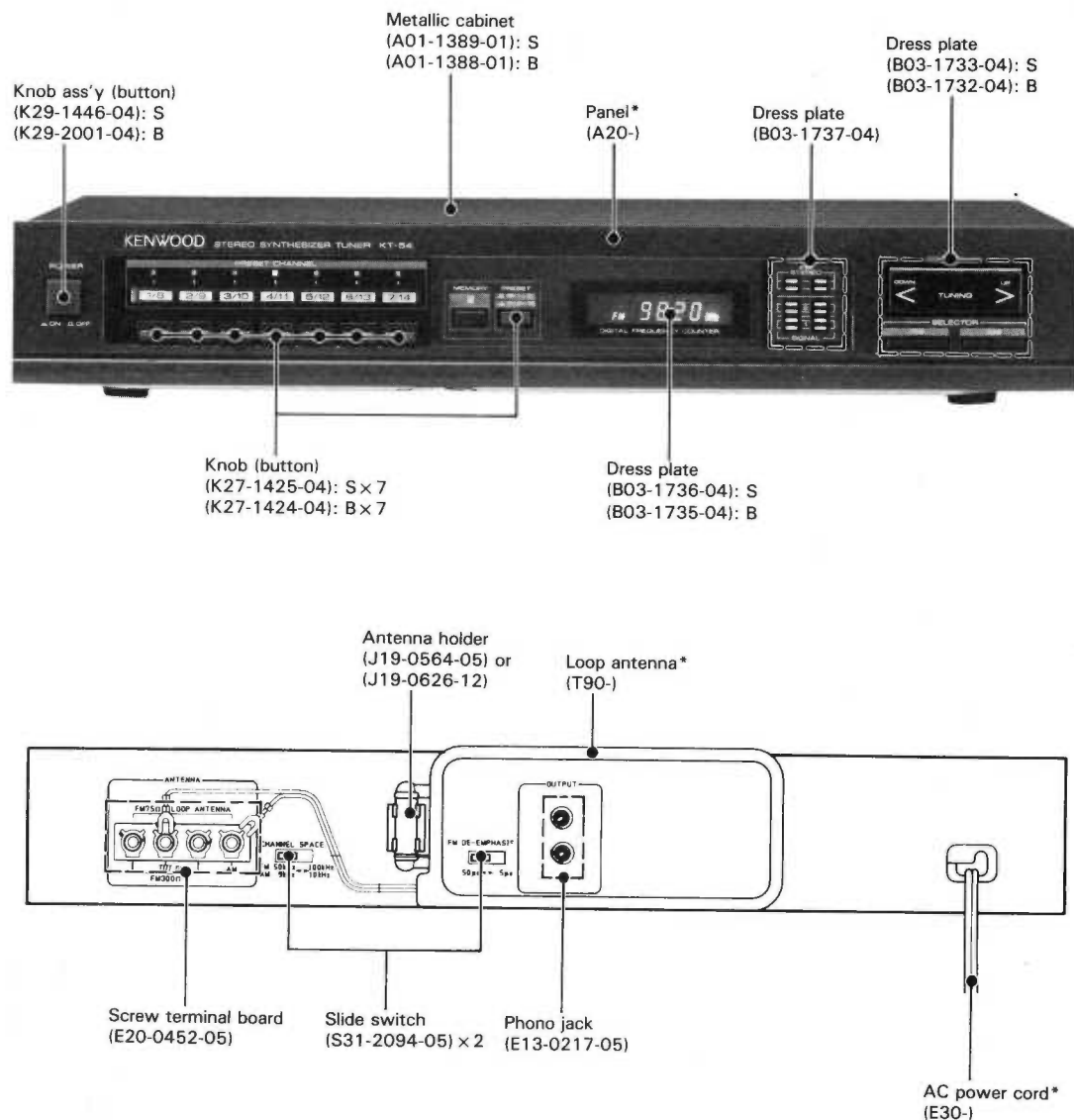


KENWOOD

KT-54 KT-54L

STEREO SYNTHESIZER TUNER

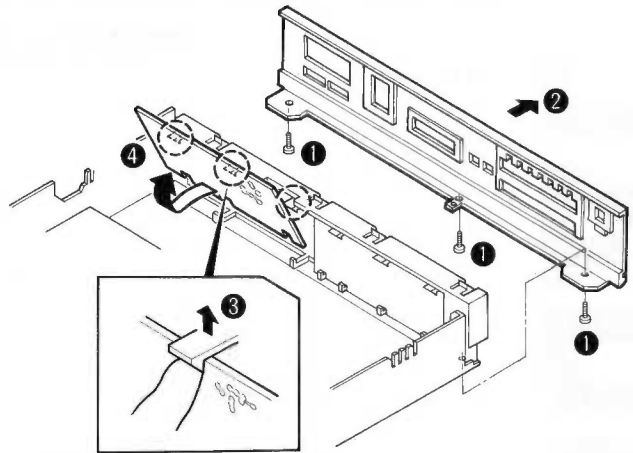


*Refer to Parts List on page 16.
Photo is KT-54 (Black version)
S: Silver version
B: Black version

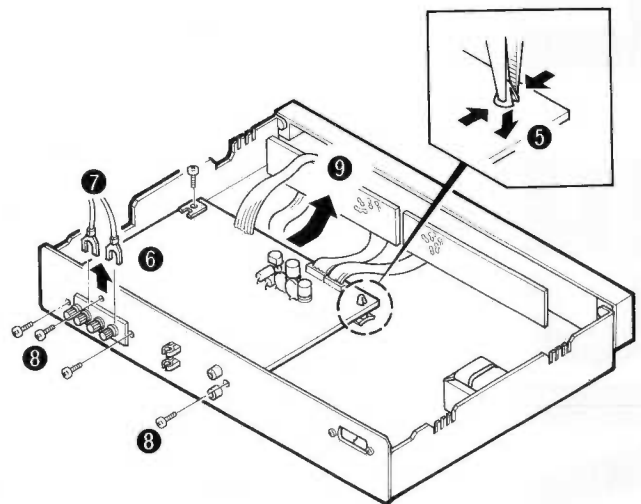
SERVICE MANUAL

DISASSEMBLY FOR REPAIR

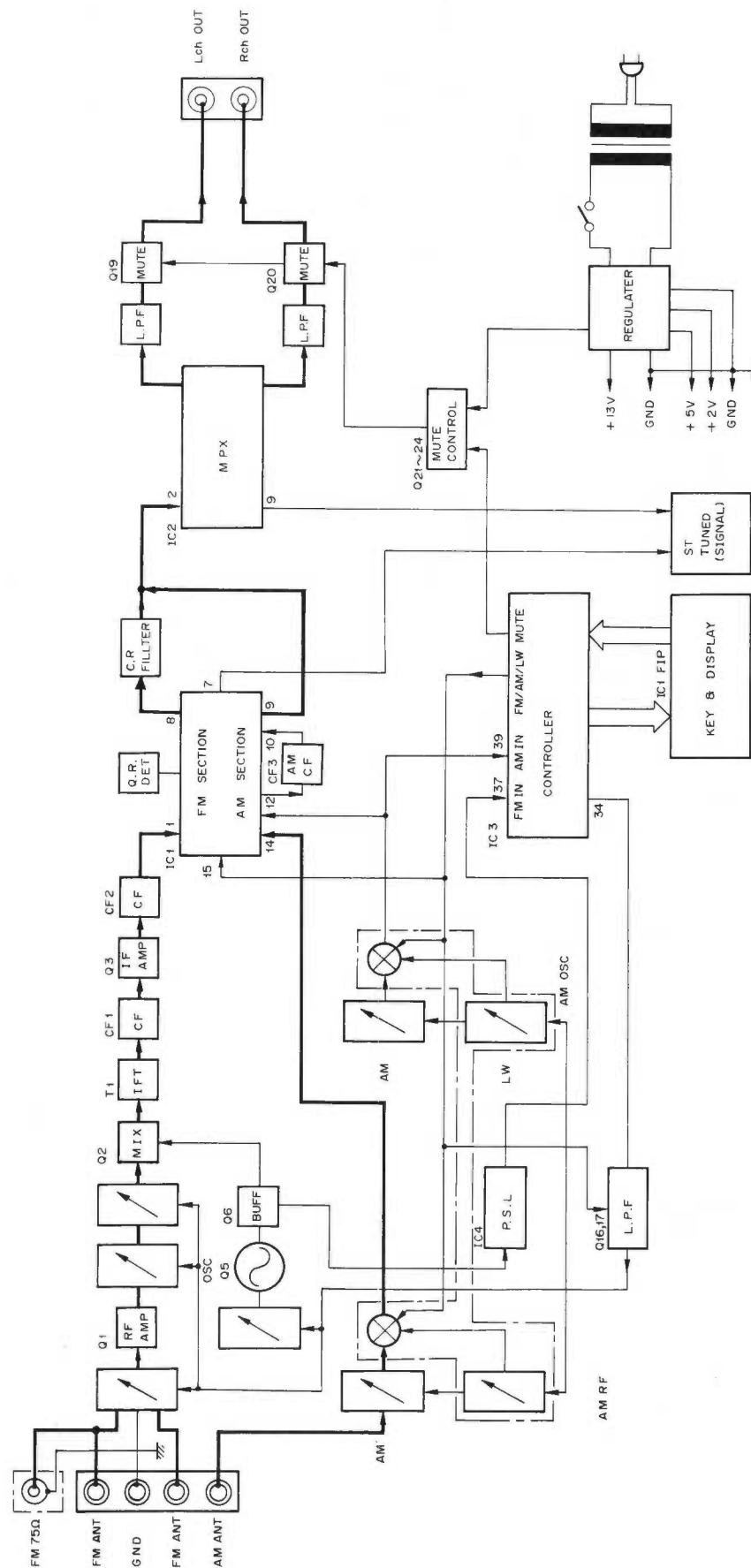
1. To remove the pc boards behind the sub panel, remove 3 screws at the bottom of the panel and take the panel off first (1, 2).
2. Push the pawls at the top side of the pc board upward and release the pc board from them (3). Pull the pc board out as shown by the arrow (4).



3. Remove 3 screws from the antenna terminal and 1 screw from the phono jack (5).
4. Remove the AM (MW) loop antenna and 1 screws retaining the pc board (6, 7).
5. Release the pc board from the unit holder (pc support) and slide the pc board out as shown by the arrow (8, 9).



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Tuner unit (X05-2850-10 and X05-2860-10)

Components	Functions	Operations
IC1	FM/AM system IC	FM IF amp/detect/control, AM mix/IF amp/detect
IC2	MPX	MPX demodulation
IC3	DTS controller	Controls the PLL synthesizer, display, etc.
IC4	FM OSC divider	Divides the FM OSC to 1/30 or 1/32.
Q1	FM RF amp	
Q2	FM MIX	
Q3	FM IF amp	
Q4	FM OSC buffer	
Q5	FM OSC	
Q6	FM OSC buffer	
Q7	Switch	ON in FM mode to adjust the FM signal level
Q8	Switch	ON in FM to set the IC to FM mode.
Q9	Switch (MW/LW switching)	ON in MW to operate MW OSC.
Q10	Switch (MW/LW switching)	ON in MW to select the MW RF signal.
Q11	Switch (MW/LW switching)	ON in LW to select the LW RF signal.
Q12	Switch (MW/LW switching)	ON in LW to operate LW OSC.
Q13	AM OSC amp	Amplifies the AM OSC signal to supply it to DTS.
Q14	Inversion amp	Turns ON in LW to turn OFF Q15.
Q15	Switch (FM, MW — LW switching)	LW so that the response of DC amp is switched.
Q16, Q17	PLL DC amp	The darlington connection of Q16 and Q17 forms a high input impedance, high-gain amplifier.
Q18	Composite buffer amp	Turns the composite signal line to low impedance.
Q19, Q20	Muting	ON when muting.
Q21	Power mute drive	Turn ON when Q33 turns ON, and becomes the muting drive source.
Q22	Muting logic composition	Synthesizes the power mute and DTS mute signals.
Q23, Q24	Mute drive	Drive Q19 and Q20.
Q25, Q26	Switch (AM/FM display switching)	Turn ON in AM modes to supply power for the kHz/MW/LM indicator circuit.
Q27	LW display driver	Turns OFF in LW so that "LW" is displayed using high voltage of the collector.
Q28	MW display driver	Turns OFF in MW so that "MW" is displayed using high voltage at the collector.
Q29, Q30	50 kHz display driver	Drives the display of "50 kHz" when displaying the FM frequency.
Q31, Q32	Switch (FM display)	Turn ON in FM to display FM and MHz, and supplies power to the 50 kHz display circuit.

CIRCUIT DESCRIPTION

Components	Functions	Operations
Q33	Grid controller, inhibit	Slow-ON fast OFF circuit for preventing erroneous lighting of display tubes when switching power ON/OFF. The DTS inhibit signal is also generated by dividing the collector voltage.
Q34, Q35, Q36	Regulated power supply circuit	
Q37	5.6 V regulated power supply circuit	
D1 — D3	RF tuning varactor diodes	
D4	OSC varactor diode	
D5A	MW RF tuning varactor diode	
D5B	MW OSC varactor diode	
D6A	LW RF tuning varactor diode	
D6B	LW OSC varactor diode	
D7	Switch (VCO killer)	Turns ON in MW to stop the operation of the PLL MPX VCO.
D8	Switch (VCO killer)	Turns ON in LW to stop the operation of the PLL MPX VCO.
D9	Protector	Prevents the reverse voltage damage between the base and emitter of Q21.
D10	Discharge circuit	When power is switched OFF, discharges C96 to turn Q21 ON immediately.
D11	Reverse current prevention	Prevents the discharge of the DTS backup power source.
D12	Level shift	4.7 V
D13	Clamper	Clamps the Q33 collector voltage and specifies the DTS inhibit voltage.
D14	Reference voltage Zener diode	6.2 V
D15 — D18	Rectifier circuit	For 12 V power supplies
D19, D20	Rectifier circuit	For 5.6 V power supplies
D21, D22	Rectifier circuit	For muting circuit
D28	Clamper	Prevents damage to circuit due to high-voltage static electricity.

CIRCUIT DESCRIPTION

STATIC FM/AM (MW)/*LW 3-BAND DIGITAL TUNING SYSTEM LSI

The TC9157AP is a system LSI comprising one chip of PLL circuit controller for PLL synthesizer type digital tuning system.

The TC9157AP is used as a 3-band tuner in South Africa and Europe. There are the following versions, based on different frequency display systems.

TC9157AP: Digital display by 7-segment display unit by adding TD6301AP.

Applied to South Africa, U.S.A. and Europe.

(FM/AM 2-band in U.S.A. and FM/MW/LW 3-band in South Africa and Europe)

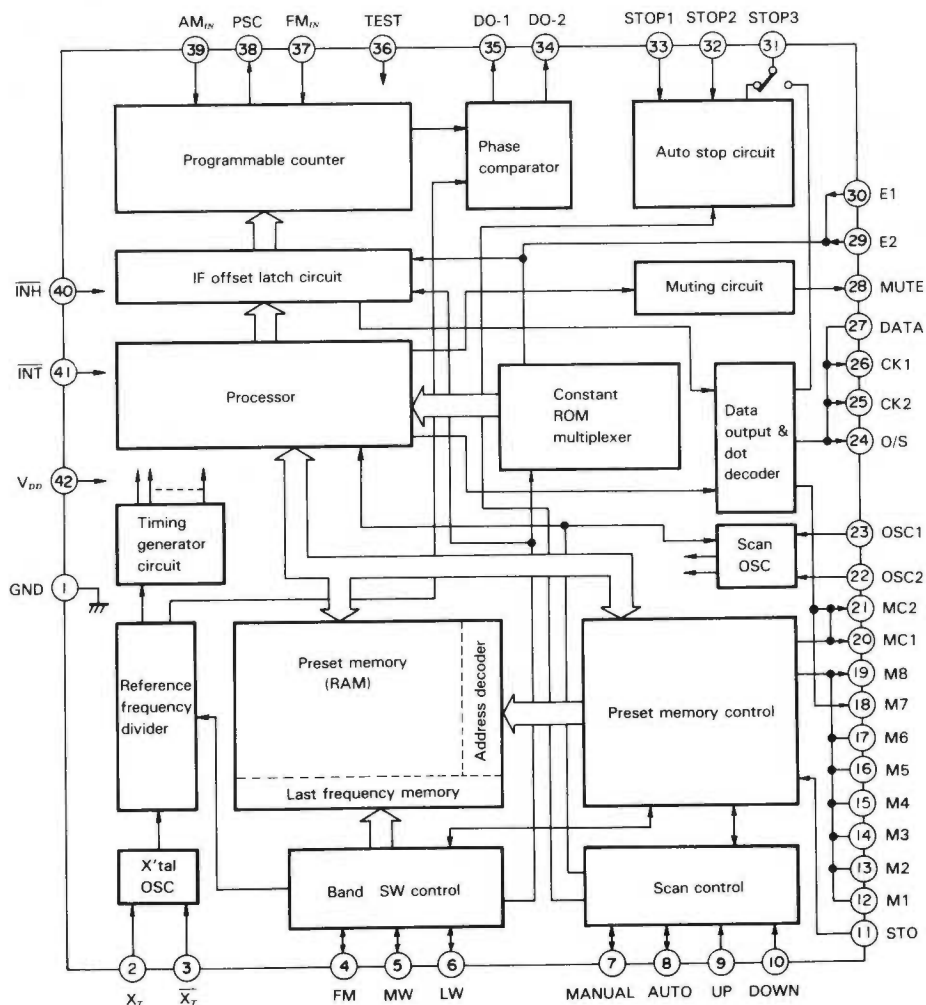
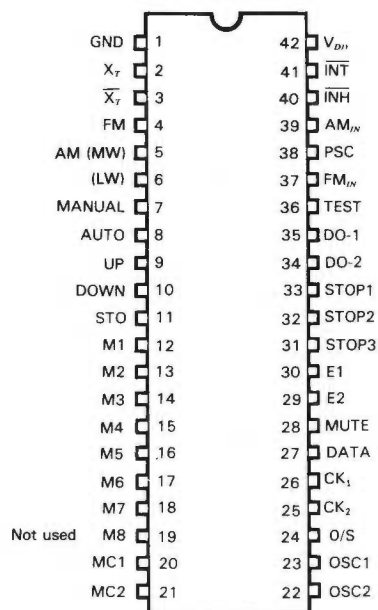
Operation keys, frequency display and operation display are static type.

Preset memory of 14 stations is contained. Last frequency memory and last channel memory of each band are also contained.

In FM mode, a swallow counter is formed in combination with the TD6104P prescaler, making the reference frequency 25 kHz.

TC9157AP

Pin connection



CIRCUIT DESCRIPTION

Functions of Each Terminal: IC3 (TC9157AP)

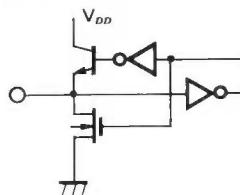
* Make indicates Europe models.

Pin No.	Symbol	Name	Function	Remarks
2	X _T	Crystal oscillator	Connect crystal for reference frequency of 7.2 MHz	Feedback resistance contained
3	X _T			
4	FM	FM band selection input	Munual reset type. Switch FM, MW and *LW bands.	A
5	AM (MW)	AM (MW) band selection input		
*6	*LW	LW band selection input		
7	MANUAL	Manual tuning mode selection input	Munual reset type. Switch manual mode at UP/DOWN channel selection.	A
8	AUTO	Auto search tuning mode selection input	Not used.	A
9	UP	UP control key input	UP/DOWN channel selection made by the push key. S4, 5	B
10	DOWN	Down control key input		
11	STO	Memory store instruction input	With this memory S13's input, preset memory is set to write condition.	A
12-18	M1-M7	Preset memory channel selection input	Control writing and reading of internal 14-channel preset memory in combination with MC1 and MC2 inputs.	A
20	MC1	Memory control input	Set 14-channel preset memory to random system of FM/AM (MW/LW).	C
21	MC2			
22	OSC2	AM oscillator terminal	Connect C and R of the oscillator to determine scan speed at AM search.	—
23	OSC1	FM oscillator terminal	Connect C and R of the oscillator to determine scan speed at FM search.	—
24	O/5	FM 50 kHz output	Output indicating 50 kHz and step in FM band in South Africa and Europe. "H" level at 50 kHz.	D
25	CK1	Receiving frequency data serial output	Output the serial data and timing clock to be sent to TD6301AP driver for digital display of receiving frequency.	D
26	CK2			
27	DATA			
28	MUTE	Muting signal output	"H" level when muting signal is output.	D
29	E2	Area selection input	Designate each area, U.S.A., Europe and South Africa.	E
30	E1			
31	STOP3	AM-IF signal input	Not used.	F
32	STOP2	Auto search stop signal input	Not used.	E
33	STOP1	Scan speed slow input		
34	DO-2	Phase comparator output	Two tri-state buffer outputs are output in parallel from one phase comparator.	G
35	DO-1			
36	TEST	Test terminal	Not connected.	B
37	FM _{IN}	FM programmable counter input	Output of TD6104P prescaler is connected.	F
38	PSC	Prescaler control output	Control frequency dividing of 1/30 and 1/32 of TD6104P prescaler.	D
39	AM _{IN} (MW _{IN})	AM (MW) programmable counter input	Enter AM (MW) station oscillating signal.	F
40	INH	Inhibit input	Normal operation at "H" level and inhibit at "L".	E
41	INT	Initialize input	Normal operation at "H" level and internal condition is initialized at "L".	E
42	V _{DD}	Power application terminal		
1	GND			

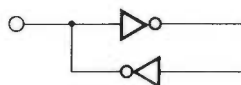
CIRCUIT DESCRIPTION

Input/output equivalent circuit

A. I/O type with built-in LED driver of bipolar transistor



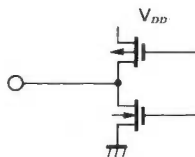
C. C-MOS I/O type



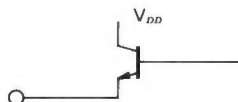
E. C-MOS input (without pull-up/down resistor)



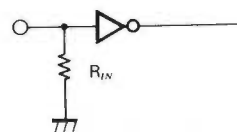
G. Tri-state output



I. LED driver output of bipolar transistor



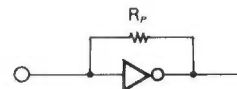
B. C-MOS input with pull-down resistor



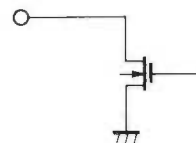
D. C-MOS output



F. With built-in input amplifier



H. LED driver output of Nch MOS



Channel select function

- 1) Manual tuning with UP/DOWN key
 - 1 step/1 push step tuning
 - Fast tuning by pressing key continuously
- 2) Preset tuning by reading memory

Preset memory and last frequency memory

- 1) 14-station preset memory is contained.
 - 14-stations, regardless of the selected band FM or AM (MW/LW) can be preset at random.
- 2) Last frequency memory is provided for each band of FM/AM (MW)/LW.
 - The last frequency memory is capable of storing preset memory channel number together with frequency data. (Last channel memory function)
- 3) All memories consist of static type C-MOS RAM.

Display function

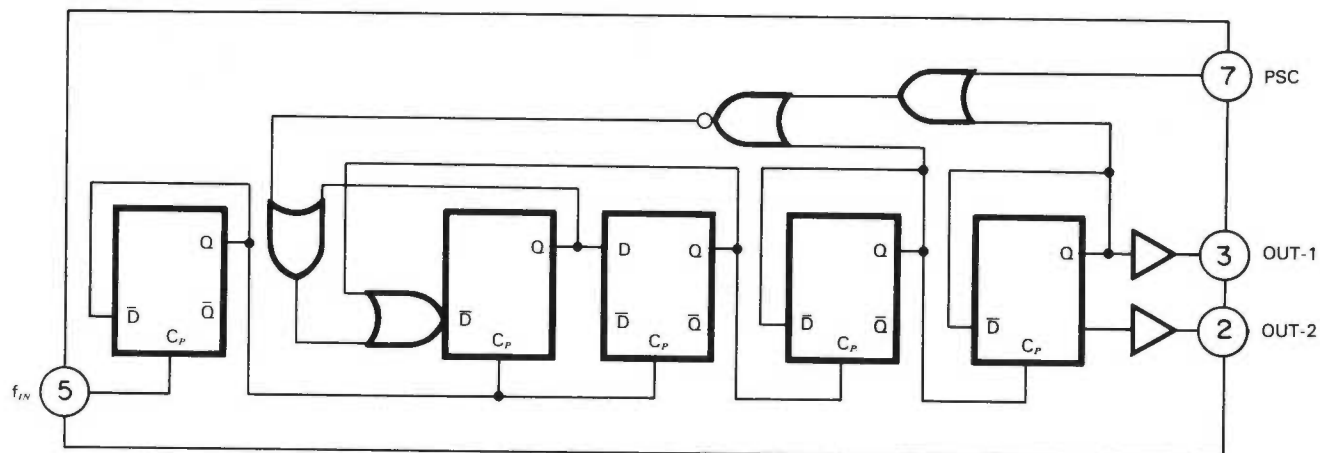
- 1) All displays are static type.
- 2) LED driver is provided for displaying bands, MANUAL/AUTO modes and memory channels.
- 3) Receiving frequency is displayed in the digital system by connecting TD6301AP.

Inhibit function

All input/output operations are inhibited by this function, and LSI operations including OSC oscillation are completely stopped. With this function, the receiving state including the memory contents is backed up for a long time by the capacitor when the power of the set is off.

CIRCUIT DESCRIPTION

Logic diagram: TD6104P (IC4: Prescaler)

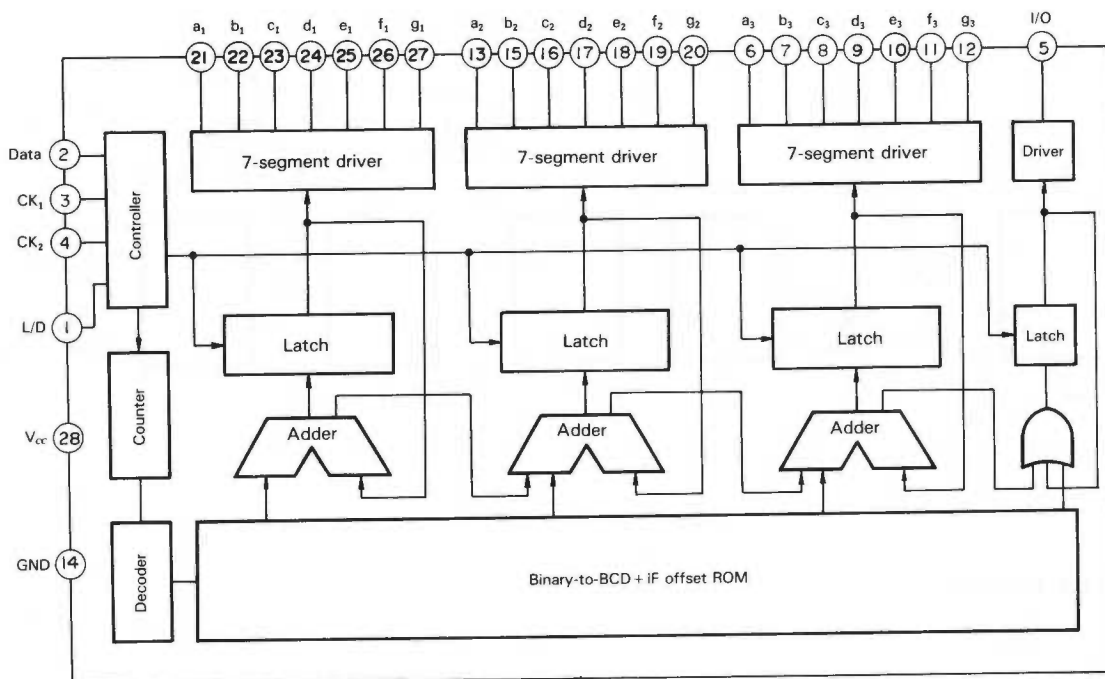


Functions of Each Terminal

Pin No.	Name	Function	Remarks
5	f_{IN}	FM station signal input terminal Frequency range: 60 — 140 MHz Input level: 75 — 300 mVrms	
3	OUT-2	Output obtained by dividing the input signal from the dividing output terminal f_{IN} into 1/30 or 1/32 Output level: 0.5 (V) MIN	
2	OUT-2	Not used	
7	PSC	Dividing number select/control terminal 1/32 at $V_{PSC} \geq 2$ (V) 1/30 at $V_{PSC} \leq 1$ (V)	
6	C	Connect C5 0.01 μ F to GND as a path controller of the bias circuit.	
1	V_{CC}	Power supply terminal	
4	GND	$V_{CC} = 5$ V	

CIRCUIT DESCRIPTION

Block diagram: TD6301AP (IC1; FIP driver)



Function of each connection

Pin No.	Name	Function
1	L/D	Output state switching input terminal. Switch the output state according to the display unit.
2	DATA	Receiving frequency data input terminal. The data is serially input by the system controller LSI.
3, 4	CK1, CK2	Receiving frequency data input control timing input terminal. Transferred simultaneously with the data by the system controller LSI.
5	I/O	Segment driver terminal. Display the 100 MHz digit at FM and 1000 kHz digit at AM.
6 — 12	a ₃ — g ₃	7-segment driver output terminal. Display the 10 MHz digit at FM and 100 kHz at AM.
13, 15 — 20	a ₂ — g ₂	7-segment driver output terminal. Display the 1 MHz digit at FM and 10 kHz digit at AM.
21 — 27	a ₁ — g ₁	7-segment driver output terminal. Display the 100 kHz digit at FM and 1 kHz digit at AM.
14	GND	GND terminal
28	V _{cc}	Supply voltage apply terminal

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: FM MODE/MUTING ON							
1	BAND EDGE (1)	—	Connect a DC voltmeter between TP1 and TP2(GND).	87.5MHz	L7	2.5V	(a)
2	BAND EDGE (2)	—	Connect a DC voltmeter between TP1 and TP2(GND).	108.0MHz	TC1	8.0V	(a)
Repeat alignments 1 and 2 several times.							
3	RF ALIGNMENT	(A) 98.0MHz 1kHz, ± 75 kHz dev	(B)	MONO 98.0MHz	L2,4,5	Maximum amplitude and symmetry of the oscilloscope display.	
4	DISCRIMINATOR	(A) 98.0MHz 1kHz, ± 75 kHz dev 60dB(ANT input)	(B)	MONO 98.0MHz	T2	Minimum distortion.	(b)
5	VCO	(A) 98.0MHz 0 dev 60dB(ANT input)	Connect a 330k Ω resistor to TP11. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR1	19.00kHz	(c)
6	SEPARATION (E,T only)	(C) 98.0MHz 1kHz, ± 40 kHz dev Selector: L Pilot: ± 6.00 kHz dev 60dB(ANT input)	Rel	98.0MHz	VR2	Minimum crosstalk.	
AM-MW SECTION Keep the AM loop antenna installed. SELECTOR: MW							
(1)	BAND EDGE (1)	—	Connect a DC voltmeter between TP1 and TP2(GND).	530kHz (531kHz)	L9	1.5V	(a)
(2)	BAND EDGE (2)	—	Connect a DC voltmeter between TP1 and TP2(GND).	1610kHz (1602kHz)	TC3	8.0V	(a)
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	L11	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	TC2	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							
AM-LW SECTION Keep the AM loop antenna installed. SELECTOR: LW							
(1)	BAND EDGE (LW)(1)	—	Connect a DC voltmeter between TP1 and TP2(GND).	153kHz	L10	1.5V	(a)
(2)	BAND EDGE (LW)(2)	—	Connect a DC voltmeter between TP1 and TP2(GND).	281kHz	TC5	8.0V	(a)
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (LW)(1)	(D) 162kHz 400Hz, 30% mod	(B)	162kHz	L12	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (LW)(2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	TC4	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							

REGLAGES

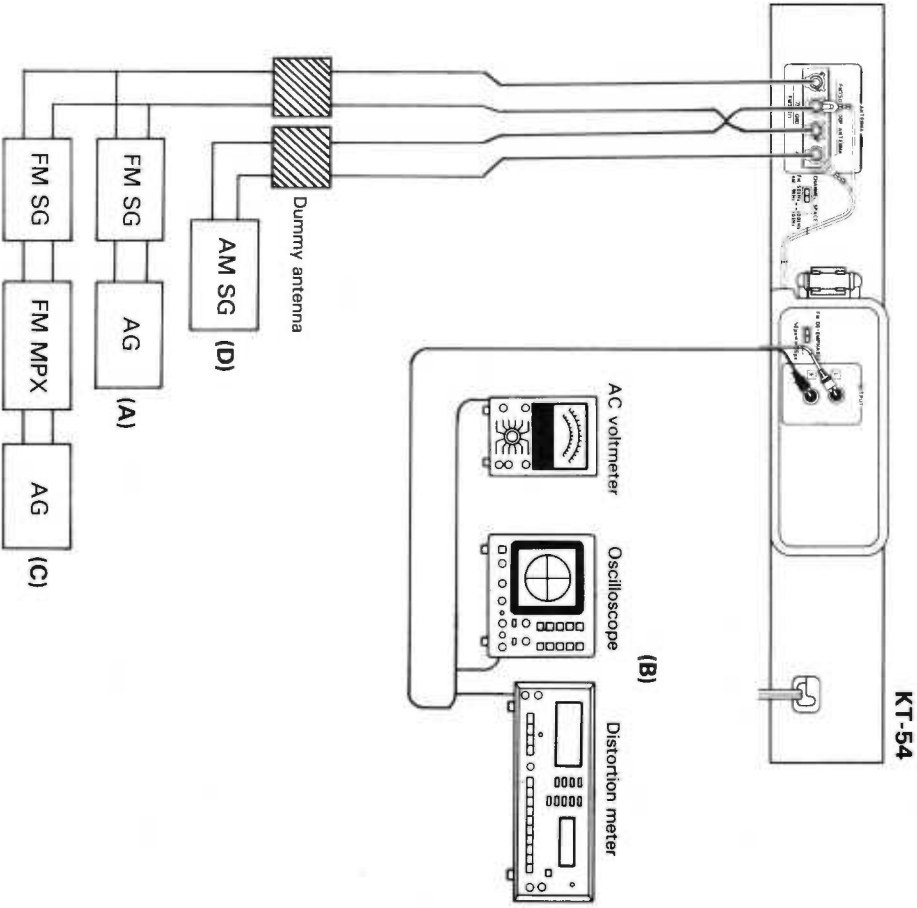
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR: FM MODE: FM MODE/MUTING ON							
1	BORD DE BANDE (1)	—	Relier un voltmètre CC entre les TP1 et TP2(GND).	87,5MHz	L7	2,5V	(a)
2	BORD DE BANDE (2)	—	Relier un voltmètre CC entre les TP1 et TP2(GND).	108,0MHz	TC1	8,0V	(a)
Répéter les points 1 et 2 plusieurs fois.							
3	ALIGNEMENT HT	(A) 98,0MHz 1kHz, ±75kHz dév	(B)	MODE: MONO 98,0MHz	L2,4,5	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
4	DISCRIMINATEUR	(A) 98,0MHz 1kHz, ±75kHz dév 60dB(Entrée ANT)	(B)	MODE: MONO 98,0MHz	T2	Distorsion minimale.	(b)
5	VCO	(A) 98,0MHz 0 dév 60dB(Entrée ANT)	Relier une résistance de 330kΩ à TP11. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,0MHz	VR1	19,00kHz	(c)
6	SEPARATION (E.T only)	(C) 98,0MHz 1kHz, ±40kHz dév Selection: L Signal pilote: ±6,00kHz dév 60dB(Entrée ANT)	Rch	98,0MHz	VR2	Diaphonie minimale.	
SECTION MA Laisser l'antenne bouche MA installée. SELECTEUR: MW							
(1)	BORD DE BANDE (1)	—	Relier un voltmètre CC entre les TP1 et TP2(GND).	530kHz (531kHz)	L9	1,5V	(a)
(2)	BORD DE BANDE (2)	—	Relier un voltmètre CC entre les TP1 et TP2(GND).	1610kHz (1602kHz)	TC2	8,0V	(a)
Répéter les points (1) et (2) plusieurs fois.							
(3)	ALIGNEMENT HT (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	L13	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT HT (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	TC2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (3) et (4) plusieurs fois.							
SECTION OL Laisser l'antenne bouche MA installée. SELECTEUR: LW							
(1)	BOAD DE BANDE (LW)(1)	—	Relier un voltmètre CC entre les TP1 et TP2(GND).	153kHz	L10	1,5V	(a)
(2)	BOAD DE BANDE (LW)(2)	—	Relier un voltmètre CC entre les TP1 et TP2(GND).	281kHz	TC5	8,0V	(a)
Répéter les points (1) et (2) plusieurs fois.							
(3)	ALIGNEMENT HT (LW)(1)	(D) 162kHz 400Hz, 30% mod	(B)	162kHz	L12	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT HT (LW)(2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	TC4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (3) et (4) plusieurs fois.							

ABGLEICH

KT-54/1 KT-54/1

ADJUSTMENT

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABR.
UKW-EMPFANGSABTEILUNG SELECTOR: FM MODE: FM MODE/MITTING ON Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen:							
1	BANDKANTE (1)	—	Einen Gleichspannungsmesser zwischen TP1 und TP2 anschließen.	87,5MHz	L7	2,5V	(a)
2	BANDKANTE (2)	—	Einen Gleichspannungsmesser zu TP5 anschließen.	108,0MHz	TC1	8,0V	(a)
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	HF-ABGLEICH	(A) 98,0MHz 1kHz, ±75kHz Hub	(B)	MODE: MONO 98,0MHz	L2,4,5	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
4	DISKRIMINATOR	(A) 98,0MHz 1kHz, ±75kHz Hub 60dB(ANT-Eingang)	(B)	MODE: MONO 98,0MHz	T2	Minimal Klirrfaktor.	(b)
5	SPANNUNGS-GEREGELTER Oszillator	(A) 98,0MHz 0 Hub 60dB(ANT-Eingang)	Einen 330kΩ Widerstand zu TP1 anschließen. Einen Frequenzzähler über einen Wechselspannungsmesser an den Widerstand anschließen.	98,0MHz	VR1	19,00kHz	(c)
6	STEREO KANAL TRENNUNG (E.T only)	(C) 98,0MHz 1kHz, ±40kHz Hub Mahlerr:L Piloten: ±6,00kHz Hub 60dB(ANT-Eingang)	Rich	98,0MHz	VR2	Minimal übersprechen.	
MW-EMPFANGSABTEILUNG Die MW-Rahmenantenne angebracht lassen. SELECTOR: MW							
(1)	BANDKANTE (1)	—	Einen Gleichspannungsmesser zwischen TP1 und TP2 anschließen.	530kHz (531kHz)	L9	1,5V	(a)
(2)	BANDKANTE (2)	—	Einen Gleichspannungsmesser zwischen TP1 und TP2 anschließen.	1610kHz (1602kHz)	TC3	8,0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 630kHz 400Hz, 30% mod	(B)	630kHz	L11	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1440kHz 400Hz, 30% mod	(B)	1440kHz	TC2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
LW-EMPFANGSABTEILUNG Die MW-Rahmenantenne angebracht lassen. SELECTOR: LW							
(1)	BANDKANTE (LW)(1)	—	Einen Gleichspannungsmesser zwischen TP1 und TP2 anschließen.	153kHz	L10	1,5V	(a)
(2)	BANDKANTE (LW)(2)	—	Einen Gleichspannungsmesser zwischen TP1 und TP2 anschließen.	281kHz	TC5	8,0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (LW)(1)	(D) 162kHz 400Hz, 30% mod	(B)	162kHz	L12	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (LW)(2)	(D) 270kHz 400Hz, 30% mod	(B)	270kHz	TC4	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							

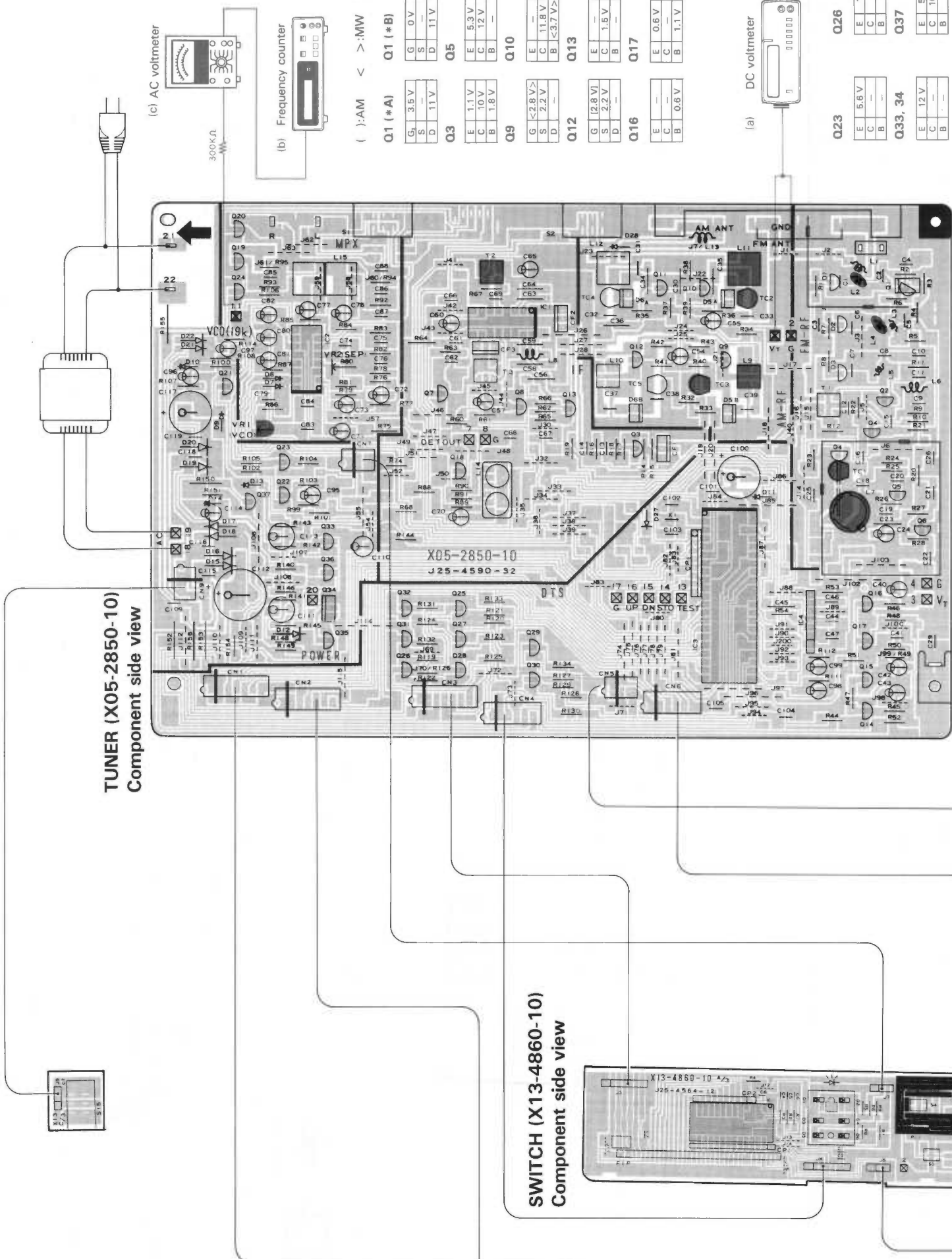
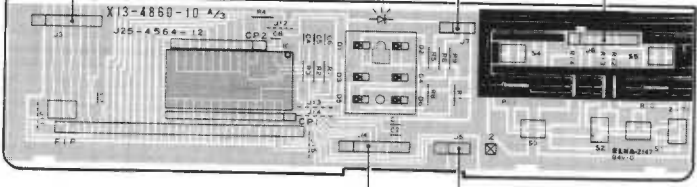


KT-54/L KT-54/L

PC BOARD

TUNER (X05-2850-10)
Component side view

SWITCH (X13-4860-10)
Component side view



() : AM < > : MW [] : LW

Q1 (*A)	Q1 (*B)	Q2	Q19, 20
G 3.5 V	S —	E 1.5 V	E —
S —	D 11 V	C 12 V	C —
D 11 V		B 2.1 V	B 0.7 V (MUT ON)

Q3	Q5	Q8	Q24
E 1.1 V	E 5.3 V	E —	E —
C 10 V	C 12 V	C 11.3 V	C 0.7 V (MUT ON)
B 1.8 V	B —	B —	B —

Q9	Q10	Q11	IC1
G <2.8 V>	E —	E —	1 9 (1.8 V)
S 2.2 V	C 11.8 V	C 11.3 V	2 1.4 V
D —	B <3.7 V>	B 13.7 V	3 1.1 V

Q12	Q13	Q14	Q15
G [2.8 V]	E —	E —	4 5.3 V
S 2.2 V	C 1.5 V	C 0 V	5 12 5.3 V
D —	B —	B —	6 0.7 V

Q16	Q17	Q18	IC2
E —	E 0.6 V	E 0.8 V	1 11 V
C —	C —	C —	2 2.6 V
B 0.6 V	B 1.1 V	B —	3 6 V

Q19	Q20	Q21	Q22
E 1.1 V	E 5.3 V	E —	E —
C 10 V	C 12 V	C 11.3 V	C 0.7 V (MUT ON)
B 1.8 V	B —	B —	B —

Q23	Q24	Q25	Q26
E 5.6 V	E 12 V	E 12 V	E 12 V
C —	C —	C —	C —
B —	B —	B —	B —

Q27	Q28	Q29	Q30
E 5.6 V	E 12 V	E 12 V	E 12 V
C —	C —	C —	C —
B —	B —	B —	B —

Q31	Q32	Q33	Q34
E 12 V	E 12 V	E 12 V	E 12 V
C —	C —	C —	C —
B —	B —	B —	B —

Q35	Q36	Q37	Q38
E 5.6 V	E 12 V	E 12 V	E 12 V
C —	C —	C —	C —
B —	B —	B —	B —

Q39	Q40	Q41	Q42
E 12 V	E 12 V	E 12 V	E 12 V
C —	C —	C —	C —
B —	B —	B —	B —

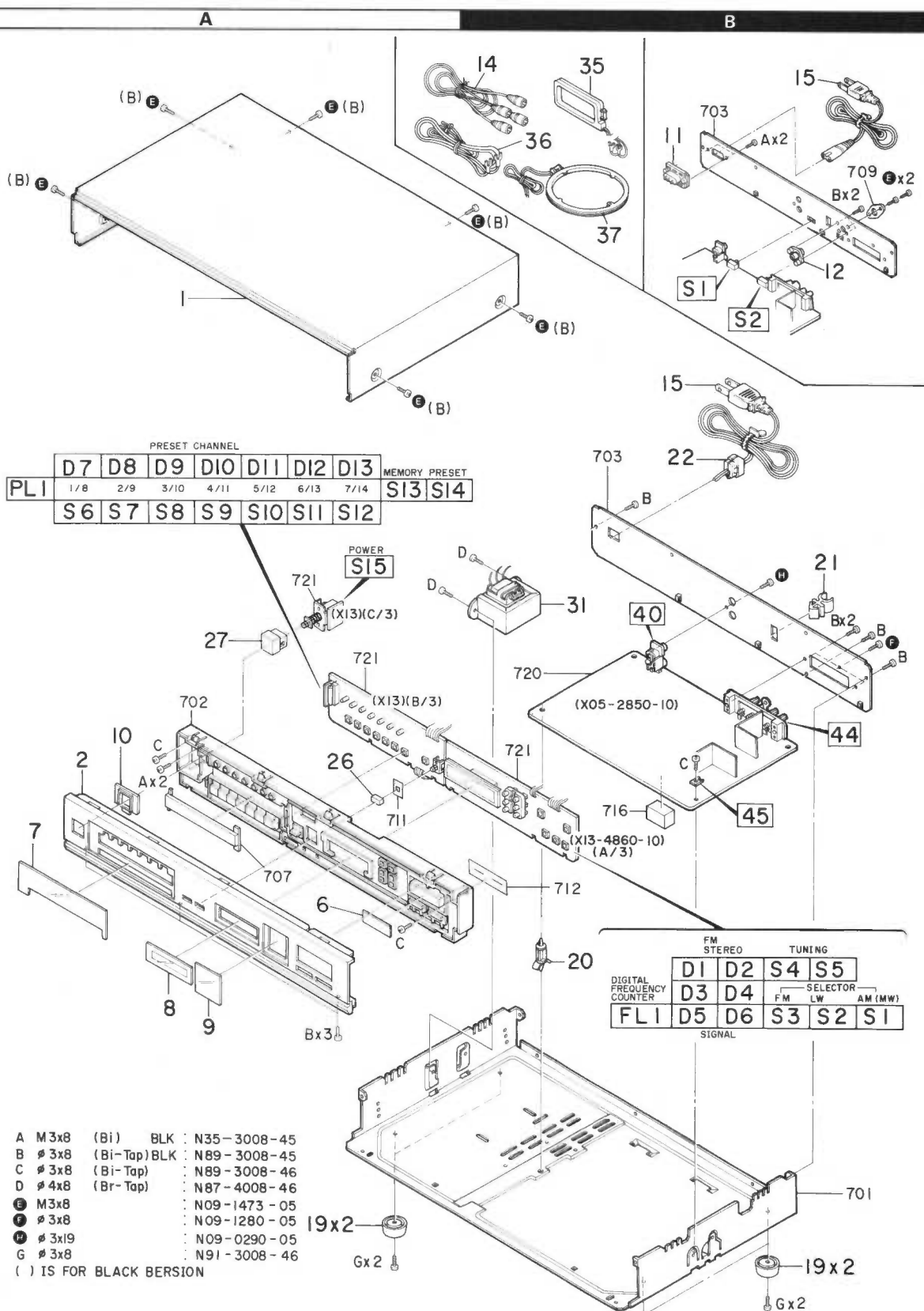
Q43	Q44	Q45	Q46
E 12 V	E 12 V	E 12 V	E 12 V
C —	C —	C —	C —
B —	B —	B —	B —

Q47	Q48	Q49	Q50
E 12 V	E 12 V	E 12 V	E 12 V
C —	C —	C —	C —
B —	B —	B —	B —

Q51	Q52	Q53	Q54
E 12 V	E 12 V	E 12 V	E 12 V
C —	C —	C —	C —
B —	B —	B —	B —

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

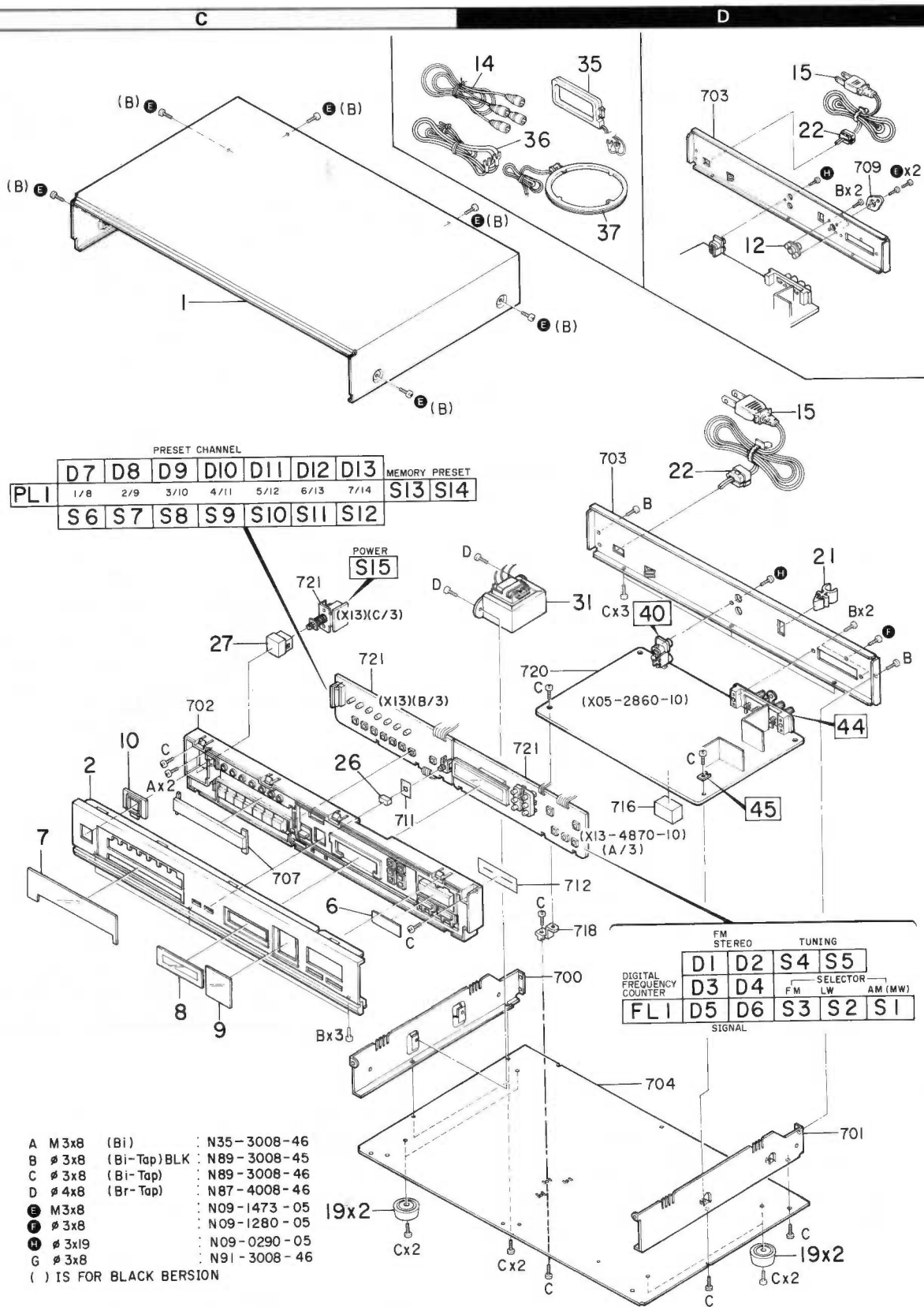
EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

KT-54
(Japan made)

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

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

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
KT-54 (Silver) (Japan made)						
1	1A	*	A01-1389-01	METALLIC CABINET		
2	2A	*	A20-4276-02	PANEL	KPUM	
2	2A	*	A20-4276-02	PANEL	UEXS	
2	2A	*	A20-4277-02	PANEL	T	
2	2A	*	A20-4278-02	PANEL	E	
6	2A	*	B03-1733-04	DRESSING PLATE(TUNING)		
7	2A		B03-1734-04	DRESSING PLATE(PRESET CHANNEL)		
8	3A	*	B03-1736-04	DRESS PLATE(DGTL FREQ COUNTER)		
9	3A		B03-1737-04	DRESS PLATE(FM STEREO SIGNAL)		
10	2A		B07-1248-04	ESCUTCHEON (POWER)		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UE	
-			B46-0095-03	WARRANTY CARD	UE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B50-5580-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
-			B50-5580-00	INSTRUCTION MANUAL(ENGLISH)	UEXS	
-			B50-5581-00	INSTRUCTION MANUAL(FRENCH)	PMX	
-			B50-5582-00	INSTRUCTION MANUAL(SPANISH)	M	
-			B50-5583-00	INSTRUCTION MANUAL(ENGLISH)	T	
-			B50-5584-00	INSTRUCTION MANUAL(E,F,G,D,I)	E	
-			B50-5585-00	INSTRUCTION MANUAL(ARABIC)	M	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0245-33	CAUTION CARD (FTZ)	E	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
-			B59-0092-00	SERVICE DIRECTORY	UE	
△ 11	1B		E03-0102-15	AC INLET	UM	
12	1B		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	UE	
14	1B		E30-0505-05	AUDIO CORD	E	
△ 15	1B		E30-0181-05	AC POWER CORD	KP	
△ 15	1B		E30-0459-05	AC POWER CORD	E	
△ 15	1B		E30-0587-15	AC POWER CORD	T	
△ 15	1B		E30-1305-15	AC POWER CORD (INLET)	UM	
△ 15	1B		E30-1341-05	AC POWER CORD	X	
-		*	H01-5434-04	ITEM CARTON CASE	KPUM	
-		*	H01-5434-04	ITEM CARTON CASE	UEXS	
-		*	H01-5435-04	ITEM CARTON CASE	T	
-		*	H01-5436-04	ITEM CARTON CASE	E	
-			H10-1799-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG (235X315)		
-			H25-0223-04	PROTECTION BAG (750X350)		
-			H25-0232-04	PROTECTION BAG		
19	3A, 3B		J02-0161-04	FOOT		
20	3B		J19-0515-05	UNIT HOLDER		
21	2B		J19-0626-12	ANTENNA HOLDER		
△ 22	1B		J42-0083-05	POWER CORD BUSHING	KP	
-			J61-0307-05	WIRE BAND	XTE	
26	2A	*	K27-1425-04	KNOB (BUTTON) PRESET		
27	2A		K29-1446-04	KNOB ASSY(BUTTON)POWER		

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

P: Canada

S: South Africa

T: England

U: PX(Far East, Hawaii)

UE: AAFES(Europe)

X: Australia

M: Other Areas

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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
△ 31	2B		L01-6631-05	POWER TRANSFORMER	KP	
△ 31	2B		L01-6632-05	POWER TRANSFORMER	XTE	
△ 31	2B		L01-6634-05	POWER TRANSFORMER	UMUES	
E	1A, 1B		N09-1473-05	TAPPING SCREW (M3X8)		
F	2B		N09-1280-05	TAPTITE SCREW (Ø3X8)		
H	2B		N09-0292-05	STEPPED SCREW (Ø3X19)	E	
35	1B		T90-0104-15	LOOP ANTENNA	KPUM	
35	1B		T90-0104-15	LOOP ANTENNA	UEXS	
35	1B		T90-0111-15	LOOP ANTENNA	TE	
36	1B		T90-0132-05	T TYPE ANTENNA		
37	1B		T90-0138-05	LOOP ANTENNA	TE	
KT-54 (Silver) (Singapore, France made)						
1	1C	*	A01-1389-01	METALLIC CABINET	KPTE	
2	2C	*	A20-4276-02	PANEL	KP	
2	2C	*	A20-4277-02	PANEL	T	
2	2C	*	A20-4278-02	PANEL	E	
6	2C	*	B03-1733-04	DRESSING PLATE(TUNING)	KPTE	
7	2C		B03-1734-04	DRESSING PLATE(PRESET CHANNEL)	KPTE	
8	3C	*	B03-1736-04	DRESS PLATE(DGTL FREQ. COUNTER)	KPTE	
9	3C		B03-1737-04	DRESS PLATE(FM STEREO, SIGNAL)	KPTE	
10	2C		B07-1248-04	ESCUTCHEON (POWER)	KPTE	
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-			B46-0123-03	WARRANTY CARD	T	
-			B50-5673-00	INSTRUCTION MANUAL(ENGLISH)	KP	
-			B50-5674-00	INSTRUCTION MANUAL(FRENCH)	P	
-			B50-5675-00	INSTRUCTION MANUAL(ENGLISH)	T	
-			B50-5676-00	INSTRUCTION MANUAL(E,F,G,D,I)	E	
-			B58-0245-33	CAUTION CARD (FTZ)	E	
-			B58-0269-04	CAUTION CARD	K	
12	1D		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	E	
14	1D		E30-0505-05	AUDIO CORD	KPTE	
15	1D		E30-0181-05	AC POWER CORD	KP	
15	1D		E30-0459-05	AC POWER CORD	E	
15	1D		E30-0587-15	AC POWER CORD	T	
-		*	H01-5440-04	ITEM CARTON CASE	KP	
-		*	H01-5441-04	ITEM CARTON CASE	T	
-		*	H01-5442-04	ITEM CARTON CASE	E	
-			H10-1685-03	POLYSTYRENE FOAMED FIXTURE	KPTE	
-			H25-0078-04	PROTECTION BAG (235X315)	KPTE	
-			H25-0223-04	PROTECTION BAG (750X350)	KPTE	
-			H25-0232-04	PROTECTION BAG	KPTE	
19	3C, 3D		J02-0161-04	FOOT	KPTE	
21	2D		J19-0564-05	ANTENNA HOLDER	KPTE	
22	1D		J42-0083-05	POWER CORD BUSHING	KPTE	
-			J61-0307-05	WIRE BAND	KPTE	
26	2C	*	K27-1425-04	KNØB (BUTTON) PRESET	KPTE	
27	2C		K29-1446-04	KNØB ASSY(BUTTON)POWER	KPTE	
31	2D		L01-6631-05	POWER TRANSFORMER	KP	
31	2D		L01-6632-05	POWER TRANSFORMER	TE	
E	1C, 1D		N09-1473-05	TAPPING SCREW (M3X8)	KPTE	

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

P: Canada

S: South Africa T: England U: PX(Far East, Hawaii)

UE: AAFES(Europe) X: Australia M: Other Areas

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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
F H	2D 2D		N09-1280-05 N09-0292-05	TAPTITE SCREW (Ø3X8) STEPPED SCREW (Ø3X19)	KPTE E	
35	1D		T90-0104-15	LOOP ANTENNA	KP	
35	1D		T90-0111-15	LOOP ANTENNA (RECTANGULAR)	TE	
36	1D		T90-0121-05	T TYPE ANTENNA		
37	1D		T90-0138-05	LOOP ANTENNA (CIRCULAR)	TE	
KT-54 (Black) (Japan made)						
1	1A	*	A01-1388-01	METALLIC CABINET		
2	2A	*	A20-4273-02	PANEL	KPUM	
2	2A	*	A20-4273-02	PANEL	UEXS	
2	2A	*	A20-4274-02	PANEL	T	
2	2A	*	A20-4275-02	PANEL	E	
6	2A	*	B03-1732-04	DRESSING PLATE(TUNING)		
7	2A	*	B03-1734-04	DRESSING PLATE(PRESET CHANNEL)		
8	3A	*	B03-1735-04	DRESS PLATE(DGTL FREQ COUNTER)		
9	3A	*	B03-1737-04	DRESS PLATE(FM STEREO,SIGNAL)		
10	2A		B07-1248-04	ESCUTCHEON (POWER)		
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	UEE	
-			B46-0095-03	WARRANTY CARD	UEE	
-			B46-0096-03	WARRANTY CARD	X	
-			B46-0097-03	WARRANTY CARD	T	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0122-13	WARRANTY CARD	E	
-		*	B50-5580-00	INSTRUCTION MANUAL(ENGLISH)	KPUM	
-		*	B50-5580-00	INSTRUCTION MANUAL(ENGLISH)	UEXS	
-		*	B50-5581-00	INSTRUCTION MANUAL(FRENCH)	PMX	
-		*	B50-5582-00	INSTRUCTION MANUAL(SPANISH)	M	
-		*	B50-5583-00	INSTRUCTION MANUAL(ENGLISH)	T	
-		*	B50-5584-00	INSTRUCTION MANUAL(E,F,G,D,I)	E	
-		*	B50-5585-00	INSTRUCTION MANUAL(ARABIC)	M	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0245-33	CAUTION CARD (FTZ)	E	
-			B58-0269-04	CAUTION CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
-			B59-0092-00	SERVICE DIRECTORY	UEE	
△ 11	1B		E03-0102-15	AC INLET	UMUES	
12	1B		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	E	
14	1B		E30-0505-05	AUDIO CORD		
△ 15	1B		E30-0181-05	AC POWER CORD	KP	
△ 15	1B		E30-0459-05	AC POWER CORD	E	
△ 15	1B		E30-0587-15	AC POWER CORD	T	
△ 15	1B		E30-1305-15	AC POWER CORD (INLET)	UMUES	
△ 15	1B		E30-1341-05	AC POWER CORD	X	
-		*	H01-5381-04	ITEM CARTON CASE	KPUM	
-		*	H01-5381-04	ITEM CARTON CASE	UEXS	
-		*	H01-5382-04	ITEM CARTON CASE	T	
-		*	H01-5383-04	ITEM CARTON CASE	E	
-		*	H10-1799-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0078-04	PROTECTION BAG (235X315)		
-			H25-0223-04	PROTECTION BAG (750X350)		
-			H25-0232-04	PROTECTION BAG		
19	3A,3B		J02-0161-04	FOOT		

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

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20	3B		J19-0515-05	UNIT HOLDER	KPXTE	
21	2B		J19-0626-12	ANTENNA HOLDER		
22	1B		J42-0083-05	POWER CORD BUSHING		
			J61-0307-05	WIRE BAND		
26	2A	*	K27-1424-04	KNØB (BUTTON) PRESET	KP XTE UMUES	
27	2A		K29-2001-04	KNØB ASSY(BUTTON)POWER		
31	2B	*	L01-6631-05	POWER TRANSFORMER		
31	2B	*	L01-6632-05	POWER TRANSFORMER		
31	2B	*	L01-6634-05	POWER TRANSFORMER	E E	
E	1B		N09-1473-05	TAPPING SCREW (M3X8)		
F	2B		N09-1280-05	TAPTITE SCREW (Ø3X8)		
H	2B		N09-0292-05	STEPPED SCREW (Ø3X19)		
35	1B		T90-0104-15	LOOP ANTENNA	KPUM UEXS TE	
35	1B		T90-0104-15	LOOP ANTENNA		
35	1B		T90-0111-15	LOOP ANTENNA		
36	1B		T90-0132-05	T TYPE ANTENNA		
37	1B		T90-0138-05	LOOP ANTENNA	TE	
KT-54 (Black) (Singapore, France made)						
1	1C	*	A01-1388-01	METALLIC CABINET	KPTE KP T E	
2	2C	*	A20-4273-02	PANEL		
2	2C	*	A20-4274-02	PANEL		
2	2C	*	A20-4275-02	PANEL		
6	2C	*	B03-1732-04	DRESSING PLATE(TUNING)	K P E T KP	
7	2C	*	B03-1734-04	DRESSING PLATE(PRESET CHANNEL)		
8	3C	*	B03-1735-04	DRESS PLATE(DGTL FREQ COUNTER)		
9	3C	*	B03-1737-04	DRESS PLATE(FM STEREO,SIGNAL)		
10	2C		B07-1248-04	ESCUTCHEON (POWER)	P T E E K	
			B46-0092-03	WARRANTY CARD		
			B46-0121-03	WARRANTY CARD		
			B46-0122-13	WARRANTY CARD		
			B46-0123-03	WARRANTY CARD	E KPTE KPTE	
		*	B50-5673-00	INSTRUCTION MANUAL(ENGLISH)		
		*	B50-5674-00	INSTRUCTION MANUAL(FRENCH)		
		*	B50-5675-00	INSTRUCTION MANUAL(ENGLISH)		
		*	B50-5676-00	INSTRUCTION MANUAL(E,F,G,D,I)	E KPTE KP E T	
			B58-0245-33	CAUTION CARD (FTZ)		
			B58-0269-04	CAUTION CARD		
12	1D		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	E KPTE KP E T	
14	1D		E30-0505-05	AUDIO CORD		
15	1D		E30-0181-05	AC POWER CORD		
15	1D		E30-0459-05	AC POWER CORD		
15	1D		E30-0587-15	AC POWER CORD	KP T E KPTE KPTE	
		*	H01-5437-04	ITEM CARTON CASE		
		*	H01-5438-04	ITEM CARTON CASE		
		*	H01-5439-04	ITEM CARTON CASE		
		*	H10-1685-02	POLYSTYRENE FOAMED FIXTURE	KPTE	
			H25-0078-04	PROTECTION BAG (235X315)		
			H25-0223-04	PROTECTION BAG (750X350)	KPTE	
19	3C, 3D		J02-0161-04	FOST	KPTE KPTE KPTE KPTE	
21	2D		J19-0564-05	ANTENNA HOLDER		
22	1D		J42-0083-05	POWER CORD BUSHING		
			J61-0307-05	WIRE BAND		

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

P: Canada

S: South Africa

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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
26	2C	*	K27-1424-04	KNOB (BUTTON) PRESET	KPTE	
27	2C	*	K29-2001-04	KNOB ASSY(BUTTON)POWER	KPTE	
△ 31	2D	*	L01-6631-05	POWER TRANSFORMER	KP	
△ 31	2D	*	L01-6632-05	POWER TRANSFORMER	TE	
E	1D		N09-1473-05	TAPPING SCREW (M3X8)	E	
F	2D		N09-1280-05	TAPTITE SCREW (Ø3X8)	KPTE	
H	2D		N09-0292-05	STEPPED SCREW (Ø3X19)	E	
35	1D		T90-0104-15	LOOP ANTENNA	KP	
35	1D		T90-0111-15	LOOP ANTENNA (RECTANGULAR)	TE	
36	1D		T90-0132-05	T TYPE ANTENNA		
37	1D		T90-0138-05	LOOP ANTENNA (CIRCULAR)	TE	
TUNER UNIT (X05-2850-10, X05-2860-10)						
C1			CC45FSL1H010C	CERAMIC 1.0PF C	KPUM	
C1			CC45FSL1H010C	CERAMIC 1.0PF C	UEXTS	
C1			CC45FSL1H150J	CERAMIC 15PF J	S	
C2			CC45FSL1H220J	CERAMIC 22PF J		
C3			CK45FF1H103Z	CERAMIC 0.010UF Z		
C4 ,5			CK45FB1H102K	CERAMIC 1000PF K	E	
C5			CK45FB1H102K	CERAMIC 1000PF K	KPUM	
C5			CK45FB1H102K	CERAMIC 1000PF K	UEXTS	
C6			CC45FSL1H030C	CERAMIC 3.0PF C	KPUM	
C6			CC45FSL1H030C	CERAMIC 3.0PF C	UEXT	
C6			CC45FSL1H080D	CERAMIC 8.0PF D	E	
C6			CC45FSL1H120J	CERAMIC 12PF J	S	
C7			CC45FSL1H060D	CERAMIC 6.0PF D	E	
C8			CC45FSL1H040C	CERAMIC 4.0PF C		
C9			CC45FSL1H221J	CERAMIC 220PF J		
C10			CC45FSL1H060D	CERAMIC 6.0PF D		
C11 -14			CK45FF1H103Z	CERAMIC 0.010UF Z		
C15 ,16			CC45FSL1H020C	CERAMIC 2.0PF C	E	
C16			CC45FSL1H010C	CERAMIC 1.0PF C	KPUM	
C16			CC45FSL1H010C	CERAMIC 1.0PF C	UEXTS	
C18 ,19			CC45FSL1H080D	CERAMIC 8.0PF D		
C20			CC45FSL1H330J	CERAMIC 33PF J		
C21			CC45FSL1H020C	CERAMIC 2.0PF C		
C22			CC45FSL1H470J	CERAMIC 47PF J		
C23			C91-0769-05	CERAMIC 0.01UF M		
C24			CE04FW1C330M	ELECTRO 33UF 16WV		
C25 ,26			CK45FF1H103Z	CERAMIC 0.010UF Z		
C30			C91-0085-05	CERAMIC 0.022UF N	TE	
C31			CK45FTH1H101J	CERAMIC 100PF J	TE	
C32 ,33			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C33			CK45FF1H223Z	CERAMIC 0.022UF Z	KPUM	
C33			CK45FF1H223Z	CERAMIC 0.022UF Z	UEXS	
C34 -36			C91-0085-05	CERAMIC 0.022UF N	TE	
C36			C91-0085-05	CERAMIC 0.022UF N	KPUM	
C36			C91-0085-05	CERAMIC 0.022UF N	UEXS	
C37			C009FS1H221JY0	POLYSTY 220PF J	TE	
C38			CC45FCH1H151J	CERAMIC 150PF J	TE	
C39			C009FS1H391JY0	POLYSTY 390PF J		
C40			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C41			CK45FF1H223Z	CERAMIC 0.022UF Z		
C42			CE04FW1HR47M	ELECTRO 0.47UF 50WV		

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C43			CE04FW1C470M	ELECTR0 47UF 16WV		
C44			CK45FF1H103Z	CERAMIC 0.010UF Z		
C45			C91-0769-05	CERAMIC 0.01UF M		
C46			CK45FB1H102K	CERAMIC 1000PF K		
C47			CC45FSL1H220J	CERAMIC 22PF J		
C54 ,55			CE04FW1HR47M	ELECTR0 0.47UF 50WV	TE	
C56			C91-0769-05	CERAMIC 0.01UF M		
C57			CE04FW1H2R2M	ELECTR0 2.2UF 50WV		
C58 ,59			C91-0085-05	CERAMIC 0.022UF N		
C60			CE04FW1V4R7M	ELECTR0 4.7UF 35WV		
C61			CF92FV1H153J	MF 0.015UF J	TE	
C61			CF92FV1H183J	MF 0.018UF J	KPUM	
C61			CF92FV1H183J	MF 0.018UF J	UEXS	
C62			CK45FF1H103Z	CERAMIC 0.010UF Z		
C63 ,64			C91-0085-05	CERAMIC 0.022UF N		
C65			CE04FW1A220M	ELECTR0 22UF 10WV		
C66			CC45FSL1H101J	CERAMIC 100PF J		
C67 -69			CK45FF1H103Z	CERAMIC 0.010UF Z		
C70			CE04FW1V4R7M	ELECTR0 4.7UF 35WV		
C71			CE04FW1C330M	ELECTR0 33UF 16WV		
C72 ,73			CE04FW1A220M	ELECTR0 22UF 10WV	TE	
C74			CC45FSL1H221J	CERAMIC 220PF J	TE	
C75 ,76			CC45FSL1H221J	CERAMIC 220PF J	KPUM	
C75 ,76			CC45FSL1H221J	CERAMIC 220PF J	UEXS	
C75 ,76			CF92FV1H112J	MF 1100PF J	TE	
C77 ,78			CE04FW1HR33M	ELECTR0 0.33UF 50WV	KPUM	
C77 ,78			CE04FW1HR33M	ELECTR0 0.33UF 50WV	UEXS	
C77 ,78			CE04FW1H2R2M	ELECTR0 2.2UF 50WV	TE	
C79			C009FS1H471JY0	POLYSTY 470PF J		
C80			CE04FW1H2R2M	ELECTR0 2.2UF 50WV		
C81			CE04FW1H3R3M	ELECTR0 3.3UF 50WV		
C82			CE04FW1HR47M	ELECTR0 0.47UF 50WV		
C83			CK45FB1H561K	CERAMIC 560PF K		
C84			CF92FV1H473J	MF 0.047UF J		
C85 ,86			CF92FV1H153J	MF 0.015UF J	UMUEX	
C85 ,86			CF92FV1H153J	MF 0.015UF J	S	
C85 ,86			CF92FV1H223J	MF 0.022UF J	KP	
C85 ,86			CF92FV1H472J	MF 4700PF J	TE	
C87 ,88			CF92FV1H752J	MF 7500PF J	UMUE	
C89			CK45F1H103Z	CERAMIC 0.010UF Z	E	
C95			CE04FW1V4R7M	ELECTR0 4.7UF 35WV		
C96			CE04FW1E100M	ELECTR0 10UF 25WV		
C97			CE04FW1H3R3M	ELECTR0 3.3UF 50WV		
C98 ,99			CE04FW1H010M	ELECTR0 1.0UF 50WV		
C100			CE04FW0J222M	ELECTR0 2200UF 6.3WV		
C101			CK45FF1H103Z	CERAMIC 0.010UF Z		
C102,103			CC45FCH1H330J	CERAMIC 33PF J		
C104,105			CK45FF1H103Z	CERAMIC 0.010UF Z		
C110			CE04FW1C101M	ELECTR0 100UF 16WV		
C111			CE04FW1E101M	ELECTR0 100UF 25WV		
C112			CE04FW1E102M	ELECTR0 1000UF 25WV		
C113			CE04FW1A101M	ELECTR0 100UF 10WV		
C114			CE04FW1A221M	ELECTR0 220UF 10WV		
C115,116			CK45FF1H103Z	CERAMIC 0.010UF Z		
C117			CE04FW1E471M	ELECTR0 470UF 25WV		

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C118,119			CK45FF1H103Z	CERAMIC 0.010UF Z		
TC1		*	C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF)		
TC2 ,3		*	C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF)		
TC4 ,5		*	C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF)	TE	
40	2B		E13-0217-05	PHONE JACK (2P)OUTPUT		
44	2B		E20-0452-05	SCREW TERMINAL BOARD(4P)ANT		
45	2B		E23-0125-05	TERMINAL (GND)		
CF1			L72-0190-05	CERAMIC FILTER	TE	
CF1 ,2		*	L72-0140-05	CERAMIC FILTER	KPUM	
CF1 ,2		*	L72-0140-05	CERAMIC FILTER	UEXS	
CF2			L72-0195-05	CERAMIC FILTER	TE	
CF3			L72-0099-05	CERAMIC FILTER		
L1			L31-0518-05	FM-RF COIL		
L2			L31-0520-05	FM-RF COIL	KPUM	
L2			L31-0520-05	FM-RF COIL	UEXTE	
L2			L31-0530-05	FM-RF COIL	S	
L3			L31-0527-05	FM-RF COIL		
L4			L31-0514-05	FM-RF COIL	KPUM	
L4			L31-0514-05	FM-RF COIL	UEXTE	
L4			L31-0521-05	FM-RF COIL	S	
L5		*	L31-0529-05	FM-RF COIL	E	
L6			L40-1092-14	SMALL FIXED INDUCTOR(1.0UH,M)		
L7			L32-0270-05	FM OSCILLATING COIL	KPUM	
L7			L32-0270-05	FM OSCILLATING COIL	UEXTE	
L7		*	L32-0317-05	FM OSCILLATING COIL	S	
L8			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L9		*	L32-0277-15	MW OSCILLATING COIL		
L10		*	L32-0288-05	LW OSCILLATING COIL	TE	
L11			L31-0509-05	MW-RF COIL		
L12			L31-0499-05	LW-RF COIL	TE	
L13			L40-1092-14	SMALL FIXED INDUCTOR(1.0UH,M)	TE	
L14			L79-0125-05	LC FILTER	TE	
L15			L79-0154-05	LC FILTER	TE	
T1		*	L30-0427-05	FM IFT		
T2		*	L30-0428-05	FM IFT		
T3		*	L30-0362-05	AM IFT		
X1			L77-0578-05	CRYSTAL RESONATOR(7.2MHZ)		
CP1		*	R90-0546-05	MULTI-COMP 0.1UFX4		
R5			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	S	
R5			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	KPXTE	
R12			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	S	
R12			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	KPXTE	
R20			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	S	
R20			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	KPXTE	
R52			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	S	
R52			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	KPXTE	
R75			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	S	
R75			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	KPXTE	
R150			RS14DB3A331J	FL-PROOF RS 330 J 1W		
R152		*	RS14DB3D361J	FL-PROOF RS 360 J 2W		
R153			RS14DB3D330J	FL-PROOF RS 33 J 2W		
R155			R92-0173-05	RC 2.2M M 1/2W	KP	
R156			RS14KB3D330J	FL-PROOF RS 33 J 2W		
VR1		*	R12-1069-05	TRIMMING POT. (4.7K)VC0		J

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VR1			R12-2305-05	TRIMMING P0T. (5K) VCO	KPTE	S
VR2		*	R12-5046-05	TRIMMING P0T. (100K) SEPARATION)	TE	J
VR2			R12-5309-05	TRIMMING P0T. (100K) SEPARATION)	TE	S
VR2			R12-7017-05	TRIMMING P0T. (500K) SEPARATION)	KP	S
S1 ,2	1B		S31-2094-05	SLIDE SWITCH (DE-EMPH, CH-SPACE)	UMUE	
D1 -4			KV1310-4	VARIABLE CAPACITANCE DIODE	E	
D1 ,2			KV1310-3	VARIABLE CAPACITANCE DIODE	KPUM	
D1 ,2			KV1310-3	VARIABLE CAPACITANCE DIODE	UEXTS	
D4			KV1310-3	VARIABLE CAPACITANCE DIODE	KPUM	
D4			KV1310-3	VARIABLE CAPACITANCE DIODE	UEXTS	
D5			KV1236 (Z2)	VARIABLE CAPACITANCE DIODE	KPUM	
D5			KV1236 (Z2)	VARIABLE CAPACITANCE DIODE	UEXS	
D5 ,6			KV1236 (Z2)	VARIABLE CAPACITANCE DIODE	TE	
D7			1SS176	DIODE	KPUM	
D7			1SS176	DIODE	UEXS	
D7 -11			1SS176	DIODE	TE	
D9 -11			1SS176	DIODE	KPUM	
D9 -11			1SS176	DIODE	UEXS	
D12		*	RD4. 7E (B)	ZENER DIODE		
D13			1SS176	DIODE		
D14			RD6. 2JS (B2)	ZENER DIODE		
D15 -20			DSM1A1	DIODE		
D21 ,22			1S2076A	DIODE		
D27 ,28			1SS176	DIODE		
IC1		*	LA1260	IC (FM/AM TUNER)		
IC2			AN7470	IC (FM MPX)		
IC3			TC9157AP	IC (DIGITAL TUNING SYSTEM)		
IC4			TD6104P	IC (PRE SCALER)		
Q1			2SK161 (GR)	FET	KPUM	
Q1			2SK161 (GR)	FET	UEXS	
Q1		*	2SK241 (Y)	FET	T	
Q1			3SK73 (GR)	FET	E	
Q2			2SC1923 (0)	TRANSISTOR		
Q3			2SC1923 (R, 0)	TRANSISTOR		
Q4			2SK161 (Y, GR)	FET	E	
Q5 ,6			2SC1923 (R, 0)	TRANSISTOR		
Q8			2SC1685	TRANSISTOR		
Q8			2SC2320 (E, F)	TRANSISTOR		
Q8			2SC945 (A) (Q, P)	TRANSISTOR		
Q9			2SK163 (L, M)	FET	TE	
Q9			2SK364 (GR, BL)	FET	TE	
Q10 ,11			2SC1685	TRANSISTOR	TE	
Q10 ,11			2SC945 (A) (Q, P)	TRANSISTOR	TE	
Q12			2SK163 (L, M)	FET	TE	
Q12			2SK364 (GR, BL)	FET	TE	
Q13			2SC1685	TRANSISTOR	KPUM	
Q13			2SC1685	TRANSISTOR	UEXS	
Q13			2SC2320 (E, F)	TRANSISTOR	KPUM	
Q13			2SC2320 (E, F)	TRANSISTOR	UEXS	
Q13			2SC945 (A) (Q, P)	TRANSISTOR	KPUM	
Q13			2SC945 (A) (Q, P)	TRANSISTOR	UEXS	
Q13 ,14			2SC1685	TRANSISTOR	TE	
Q13 ,14			2SC2320 (E, F)	TRANSISTOR	TE	
Q13 ,14			2SC945 (A) (Q, P)	TRANSISTOR	TE	

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Q15			2SK163(L,M)	FET	TE	
Q15			2SK364(GR,BL)	FET	TE	
Q16 -18			2SC1685	TRANSISTOR	TE	
Q16 -18			2SC2320(E,F)	TRANSISTOR	TE	
Q16 -18			2SC945(A) (Q,P)	TRANSISTOR	TE	
Q16 ,17			2SC1685	TRANSISTOR	KPUM	
Q16 ,17			2SC1685	TRANSISTOR	UEXS	
Q16 ,17			2SC2320(E,F)	TRANSISTOR	KPUM	
Q16 ,17			2SC2320(E,F)	TRANSISTOR	UEXS	
Q16 ,17			2SC945(A) (Q,P)	TRANSISTOR	KPUM	
Q16 ,17			2SC945(A) (Q,P)	TRANSISTOR	UEXS	
Q19 ,20			2SC2878	TRANSISTOR		
Q19 ,20		*	2SD1302(S)	TRANSISTOR		
Q21			2SA1127NC	TRANSISTOR		
Q21			2SA733(A) (Q,P)	TRANSISTOR		
Q21			2SA564A	TRANSISTOR		
Q21			2SA999(E,F)	TRANSISTOR		
Q22			2SC1685	TRANSISTOR		
Q22			2SC2320(E,F)	TRANSISTOR		
Q22			2SC945(A) (Q,P)	TRANSISTOR		
Q23 ,24			2SA1127NC	TRANSISTOR		
Q23 ,24			2SA564A	TRANSISTOR		
Q23 ,24			2SA733(A) (Q,P)	TRANSISTOR		
Q23 ,24			2SA999(E,F)	TRANSISTOR		
Q25			2SC1685	TRANSISTOR		
Q25			2SC2320(E,F)	TRANSISTOR		
Q25			2SC945(A) (Q,P)	TRANSISTOR		
Q26			2SA1127NC	TRANSISTOR		
Q26			2SA564A	TRANSISTOR		
Q26			2SA733(A) (Q,P)	TRANSISTOR		
Q26			2SA999(E,F)	TRANSISTOR		
Q27 -30			2SC1685	TRANSISTOR	TE	
Q27 -30			2SC2320(E,F)	TRANSISTOR	TE	
Q27 -30			2SC945(A) (Q,P)	TRANSISTOR	TE	
Q29 ,30			2SC1685	TRANSISTOR	UMUEX	
Q29 ,30			2SC1685	TRANSISTOR	S	
Q29 ,30			2SC2320(E,F)	TRANSISTOR	UMUEX	
Q29 ,30			2SC2320(E,F)	TRANSISTOR	S	
Q29 ,30			2SC945(A) (Q,P)	TRANSISTOR	UMUEX	
Q29 ,30			2SC945(A) (Q,P)	TRANSISTOR	S	
Q31			2SA1127NC	TRANSISTOR		
Q31			2SA564A	TRANSISTOR		
Q31			2SA733(A) (Q,P)	TRANSISTOR		
Q31			2SA999(E,F)	TRANSISTOR		
Q32			2SC1685	TRANSISTOR		
Q32			2SC2320(E,F)	TRANSISTOR		
Q32			2SC945(A) (Q,P)	TRANSISTOR		
Q33			2SA1127NC	TRANSISTOR		
Q33			2SA564A	TRANSISTOR		
Q33			2SA733(A) (Q,P)	TRANSISTOR		
Q33			2SA999(E,F)	TRANSISTOR		
Q34			2SC2167(Y,G)	TRANSISTOR		
Q34			2SD330(E,F)	TRANSISTOR		
Q35 ,36			2SC1685	TRANSISTOR		
Q35 ,36			2SC2320(E,F)	TRANSISTOR		

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Q35 ,36 Q37			2SC945(A)(Q,P) 2SC2003(L,K)	TRANSISTOR TRANSISTOR		
SWITCH UNIT (X13-4860-10, X13-4870-10)						
D1 -13 PL1	2A,3B 2A		B30-0431-05 B30-0284-05	LED (LN21CPH)PRESET,SIGNAL ETC LAMP(12V 0.11A)		
C1 -6 C7 C8			C91-0769-05 CK45FF1H103Z CK45FF1H223Z	CERAMIC 0.01UF M CERAMIC 0.010UF Z CERAMIC 0.022UF Z		
CP1 CP2		* *	R90-0443-05 R90-0442-05	MULTI-COMP 22KX13 J 1/6W MULTI-COMP 22KX9 J 1/6W		
S1 S2 -13 S3 -13 S3 -13 S14	3B 2A,3B 2A,3B 2A,3B 2A		S40-1064-05 S40-1064-05 S40-1064-05 S40-1064-05 S40-2191-05	PUSH SWITCH(AM(MW)) PUSH SWITCH(FM,LW,TUN ETC) PUSH SWITCH(FM,TUN,PRST,MEM) PUSH SWITCH(FM,TUN,PRST,MEM) PUSH SWITCH(PRESET)	TE KPUM UEXS	
S15	2A		S40-2182-15	PUSH SWITCH(POWER)		
FL1 FL1 FL1 IC1	3B 3B 3B		7-BT-20ZK 7-BT-20ZK 7-BT-22ZK TD6301AP	FLUORESCENT INDICATOR TUBE FLUORESCENT INDICATOR TUBE FLUORESCENT INDICATOR TUBE IC(FL/LED/LCD FREQ DISPLAY DR)	KPUM UEXS TE	

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SPECIFICATIONS

KT-54

[FM tuner section]

Usable sensitivity	10.8 dBf (0.95 μ V)
50dB quieting sensitivity	
Mono	14.5 dBf (3 μ V)
Stereo	37.2 dBf (40 μ V)
Signal to noise ratio	
Mono	76 dB at 65 dBf, 76 dB at 85 dBf
Stereo	70 dB at 65 dBf, 70 dB at 85 dBf
Total harmonic distortion	
Mono: 100 Hz	0.2%
1 kHz	0.2%
50 Hz ~ 10 kHz	0.5%
Stereo: 100 Hz	0.3%
1 kHz	0.3%
50 Hz ~ 10 kHz	0.9%
Capture ratio	2.0 dB (2.5 dB for European model)
Alternate channel selectivity	50 dB
Stereo separation	
1 kHz	45 dB
50 Hz ~ 10 kHz	35 dB
Frequency response	30 Hz to 15 kHz +0.5 dB, -2.5 dB
Spurious rejection ratio	75 dB
Image rejection ratio	40 dB
IF rejection ratio	90 dB
AM suppression ratio	55 dB
Sub-carrier suppression ratio	35 dB
Antenna impedance	75 Ω unbalanced & 300 Ω balanced
FM frequency range	87.5 MHz to 108 MHz
Output level/impedance at 1 kHz, 100% dev.	0.6V/3.3 k Ω

[AM tuner section]

Usable sensitivity	20 μ V (400 μ V/m)
Signal to noise ratio	50 dB
Total harmonic distortion	0.6%
Image rejection ratio	35 dB
IF rejection ratio	50 dB
Selectivity	25 dB
Output level/impedance (400 Hz, 30% Mod.)	0.18V, 3.3 k Ω

[General]

Power consumption	8 W
Dimensions	W: 420 mm (16-17/32") H: 72 mm (2-27/32") D: 276 mm (10-7/8")
Weight (Net)	2.9 kg (6.4 lb)

KT-54L

[FM tuner section]

Sensitivity at 75 ohms	
Mono: S/N 26 dB, 40 kHz dev	0.7 μ V
Stereo: S/N 46 dB, 46 kHz dev	25 μ V
Limiting level at 75 ohms	
-3 dB point, 40 kHz dev	0.5 μ V
Frequency response	30 Hz ~ 15 kHz, +0.5 dB, -2.5 dB

Total harmonic distortion

Mono: 1 kHz, 40 kHz dev	0.3%
Stereo: 1 kHz, 46 kHz dev	0.8%

S/N weighted

Mono: 40 kHz dev., 1 mV input	65 dB
Stereo: 46 kHz dev., 1 mV input	59 dB

S/N unweighted

Mono: 40 kHz dev., 1 mV input	63 dB
Stereo: 46 kHz dev., 1 mV input	58 dB

FM stereo separation: 1 mV input

250 Hz	38 dB
1 kHz	40 dB
6.3 kHz	35 dB
12.5 kHz	24 dB

Image rejection ratio

	76 dB
--	-------

IF rejection ratio

	90 dB
--	-------

AM suppression ratio

	55 dB
--	-------

Spurious rejection ratio

	80 dB
--	-------

Capture ratio

	2.5 dB
--	--------

Alternate channel selectivity

$\pm$ 300 kHz	70 dB
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Output level/impedance at 1 kHz,

100% dev.	0.6V/3.3 kohms
-----------	----------------

[MW tuner section]

Usable sensitivity	20 μ V (400 μ V/m)
S/N ratio: 30% Mod; 1 mV input	50 dB
Image rejection ratio	35 dB
IF rejection ratio	50 dB
Total harmonic distortion	0.6%
Selectivity	25 dB
Output level/impedance (400 Hz, 30% Mod)	0.18V, 3.3 kohms

[LW tuner section]

Usable sensitivity	20 μ V (800 μ V/m)
S/N ratio: 30% Mod; 1 mV input	50 dB
Image rejection ratio	48 dB
IF rejection ratio	65 dB
Total harmonic distortion	0.6%
Selectivity	35 dB
Output level/impedance (400 Hz, 30% Mod)	0.18V, 3.3 kohms

[General]

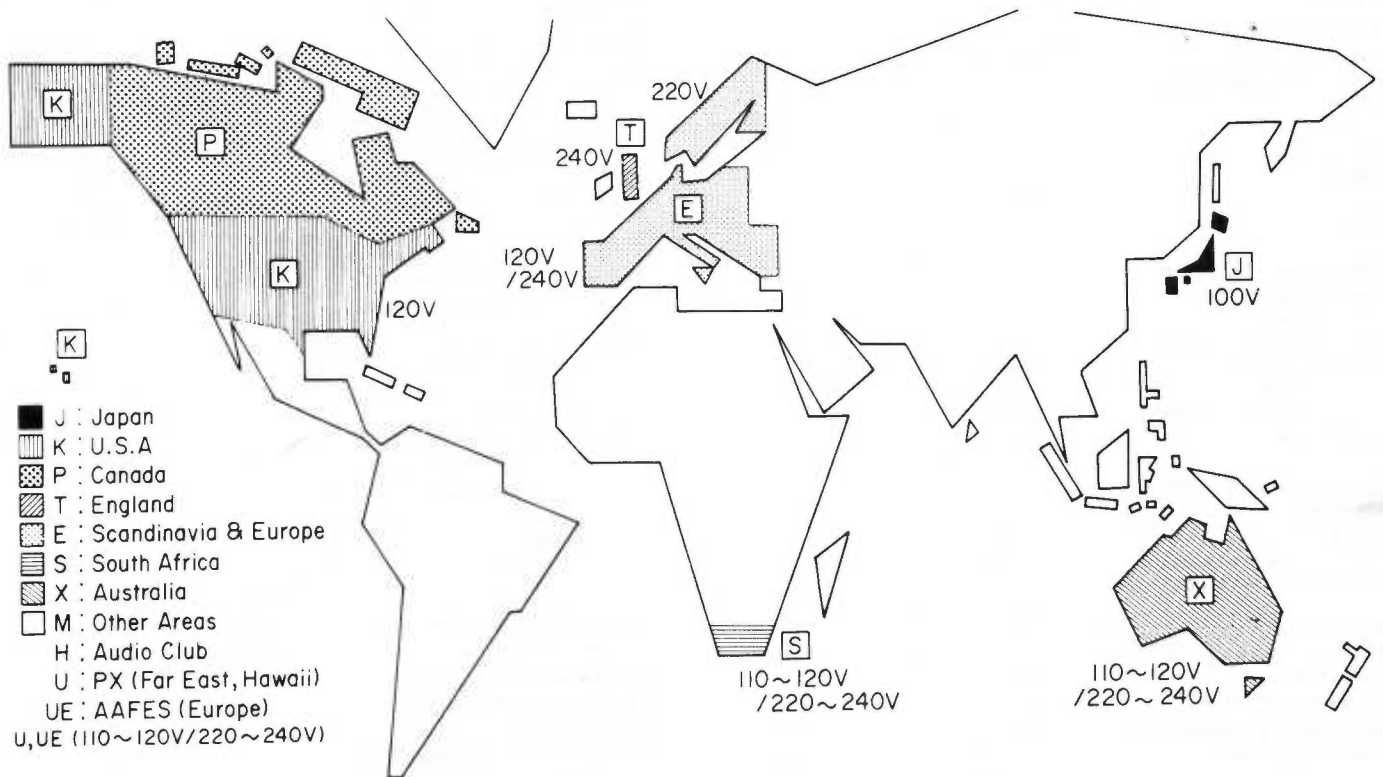
Power consumption IEC	8W
Dimensions (W x H x D)	420 x 72 x 278 mm
Weight (Net)	2.9 kg

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.

WORLD MAP & AREA CODE



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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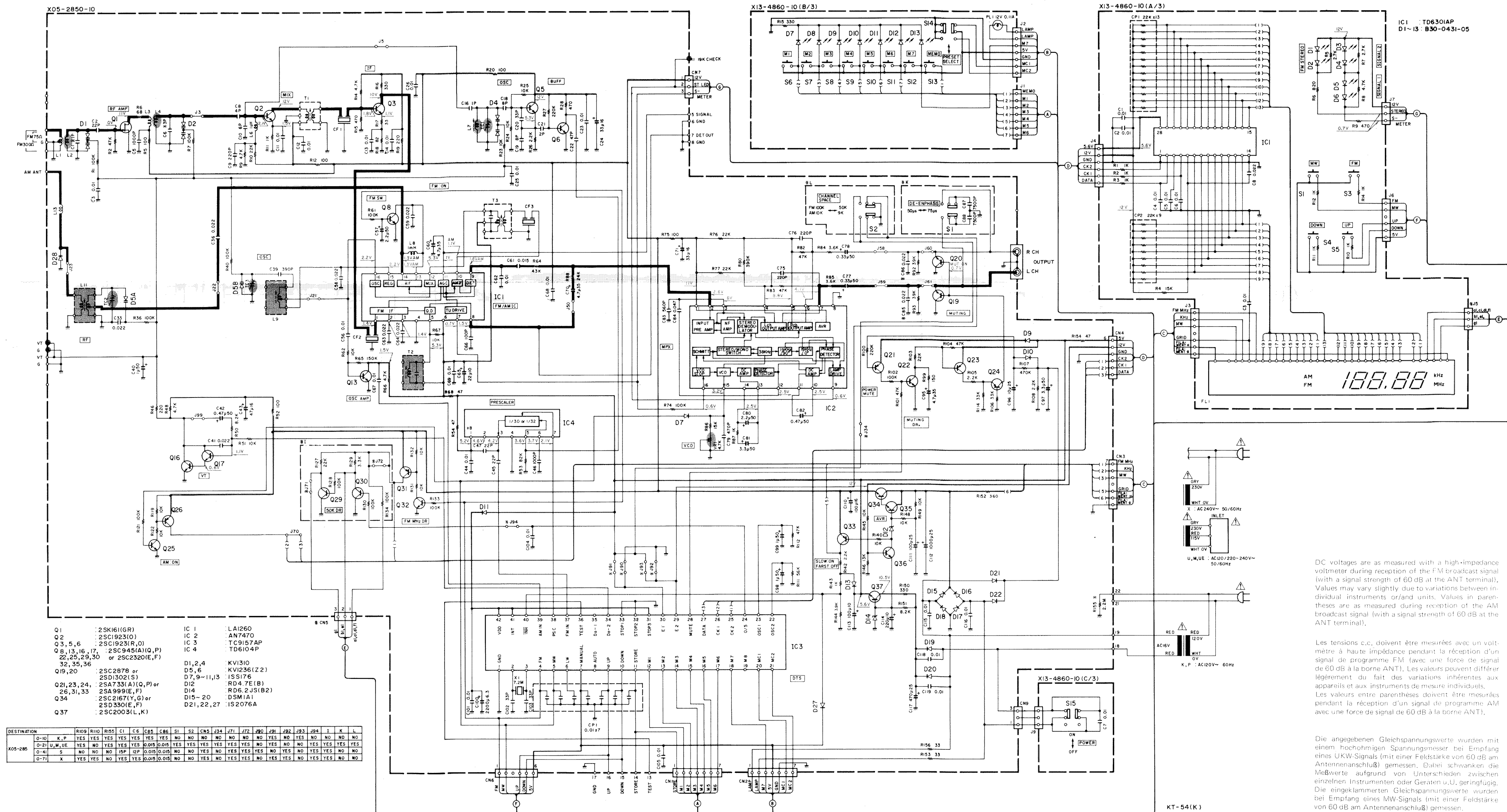
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2SA1127NC
 2SA664A
 2SA733
 2SA999
 2SC1685
 2SC1923
 2SC2003
 2SC2320
 2SC2878
 2SC945
 2SD1302

2SD330

2SC2167

2SK163
 2SK364

3SK73

2SK161
 2SK241

TD6104P

TD6301AP

LA1260

AN7470

TC9157AP

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.

KT-54

KENWOOD

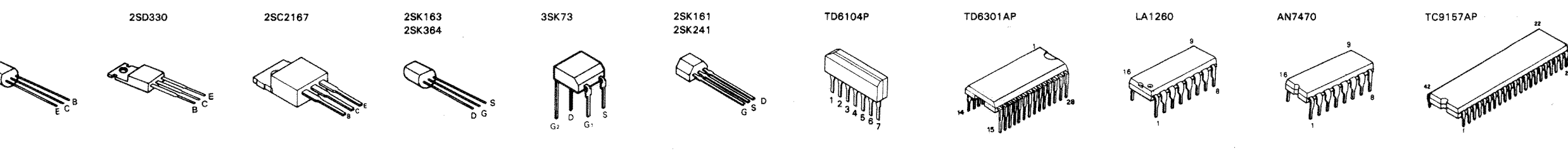
X05-2852-71

X13-4862-71 (B/3)

X13-4862-71 (A/3)

- Q2 : 2SC1923(O)
Q3, 5, 6 : 2SC1923(R,O)
Q4 : 2SK161(Y,G)
Q8, 10, 11 : 2SC945(A) or 2SC1685
Q9, 12, 15 : 2SK364(O,R,BL) or 2SK163(L,M)
Q19, 20 : 2SC2878 or 2SD1302(S)
Q21, 23, 24 : 2SA733(A) or 2SA1127NC or 2SA564(A)
Q34 : 2SC2167(Y,G) or 2SD330(F,F)
Q37 : 2SC2003(L,K)
- IC 1 : LA1260
IC 2 : AN7470
IC 3 : TC9157AP
IC 4 : TD6104P
- D1 ~ 4 : KVI310
D5, 6 : KVI236(Z2)
D7 ~ 11, 13 : SS176
D12 : RD4.7E(B2)
D14 : RD6.2J(SB)
D15 ~ 20 : DSM1A1
D21, 22, 27 : IS2076A

DESTINATION	Q1	R10	C6	C15	C16	C89	J3	J4	J5	A	R	G	B
X05-286	2-71E	35K73(G,R)	33K	BP	YES	2P	YES	NO	YES	NO	YES	NO	YES
0-517	2SK241(Y)	22K	3P	NO	1P	NO	YES	NO	YES	NO	YES	NO	NO



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).

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les valeurs entre parenthèses doivent être mesurées pendant la réception d'un signal de programme AM avec une force de signal de 60 dB à la borne ANT).

Die angegebenen Gleichspannungswerte wurden mit einem hochimpedanten Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. Die eingeklammerten Gleichspannungswerte wurden bei Empfang eines MW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen.

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.