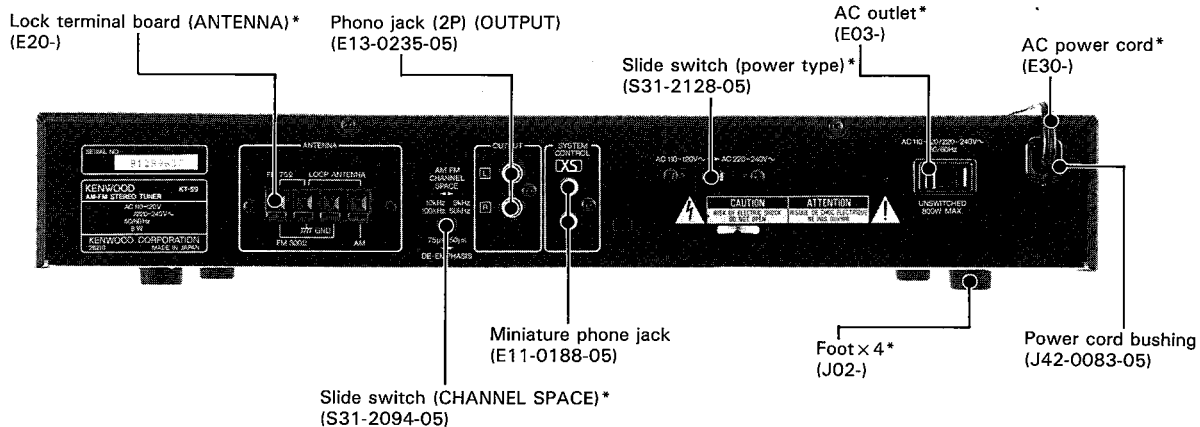
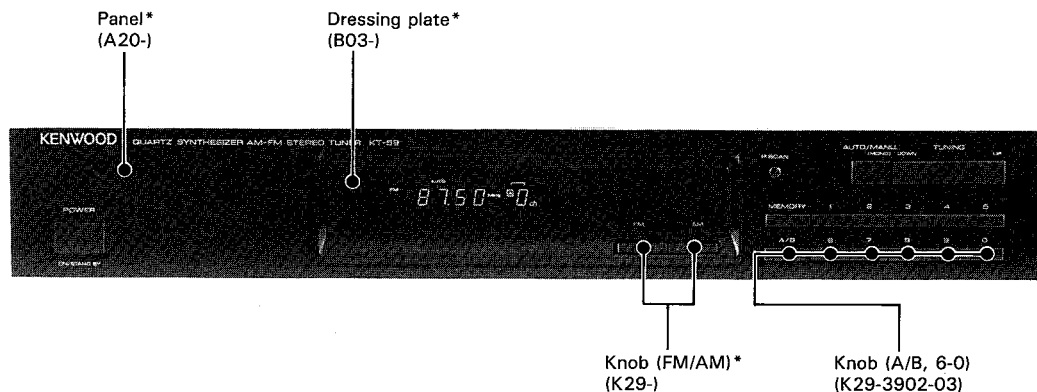


KT-59/1020L

SERVICE MANUAL

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B51-4141-00(T) 3431



[KT-59: K,P,Y,M,X type
KT-1020L: T,E type]

* Refer to parts list on page 26.
Photo is KT-59.

KT-59/1020L

SPECIFICATIONS

KT-59

FM tuner section

Tuning frequency range	87.5 MHz - 108 MHz
Usable sensitivity (MONO)	0.95 μ V/10.8 dBf
Total harmonic distortion (at 1 kHz 65 dBf input)	
MONO	0.4 %
STEREO	0.5 %
Signal to noise ratio (at 1 kHz, 65 dBf input)	
MONO	78 dB
STEREO	73 dB
Stereo separation	
1 kHz	40 dB
Alternate channel selectivity (\pm 400 kHz)	50 dB
Frequency response	
(30 Hz - 15 kHz)	+0.5 dB, -2 dB
Output level/Impedance	
(at 1 kHz, 75 kHz dev.)	0.6 V/3.3 k Ω

AM tuner section

Tuning frequency range	
9 kHz step	531 kHz - 1,602 kHz
10 kHz step	530 kHz - 1,610 kHz
Usable sensitivity	11 μ V/(280 μ V/m)
Signal to noise ratio	
(at 30% mod. 1mV input)	50 dB
Total harmonic distortion	0.5 %
Output level/Impedance	
(at 30% mod. 1mV input)	0.18 V/3.3 k Ω

General

Power consumption	8 W
Dimensions	W: 440 mm (17-5/16") H: 74 mm (2-15/16") D: 267 mm (10-1/2")
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.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) 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.

KT-1020L

FM tuner section

Tuning frequency range	87.5 MHz - 108 MHz
Usable sensitivity (DIN)	
MONO	0.6 μ V
STEREO	22 μ V
Total harmonic distortion (DIN at 1 kHz 65.2 dBf input)	
MONO	0.15 %
STEREO	0.4 %
Signal to noise ratio (DIN weighted at 1 kHz, 65.2 dBf input)	
MONO	68 dB
STEREO	63 dB
Stereo separation (DIN)	
1 kHz	40 dB
Alternate channel selectivity	
(DIN \pm 300 kHz)	64 dB
Frequency response	
(30 Hz - 15 kHz)	+0.5 dB, -2 dB
Output level/Impedance	
(at 1 kHz, 75 kHz dev.)	0.6 V/3.3 k Ω

MW tuner section

Tuning frequency range	531 kHz - 1,602 kHz
Usable sensitivity	13 μ V/(400 μ V/m)
Signal to noise ratio	
(at 30% mod. 1mV input)	50 dB
Total harmonic distortion	0.5 %

LW tuner section

Tuning frequency range	153 kHz - 281 kHz
Usable sensitivity	22 μ V
Signal to noise ratio	
(at 30% mod. 1mV input)	47 dB
Total harmonic distortion	0.6 %
Output level/Impedance	
(at 30% mod. 1mV input)	0.18V/3.3k Ω

General

Power consumption	8 W
Dimensions	W: 440 mm H: 78 mm D: 267 mm
Weight (Net)	2.5 kg

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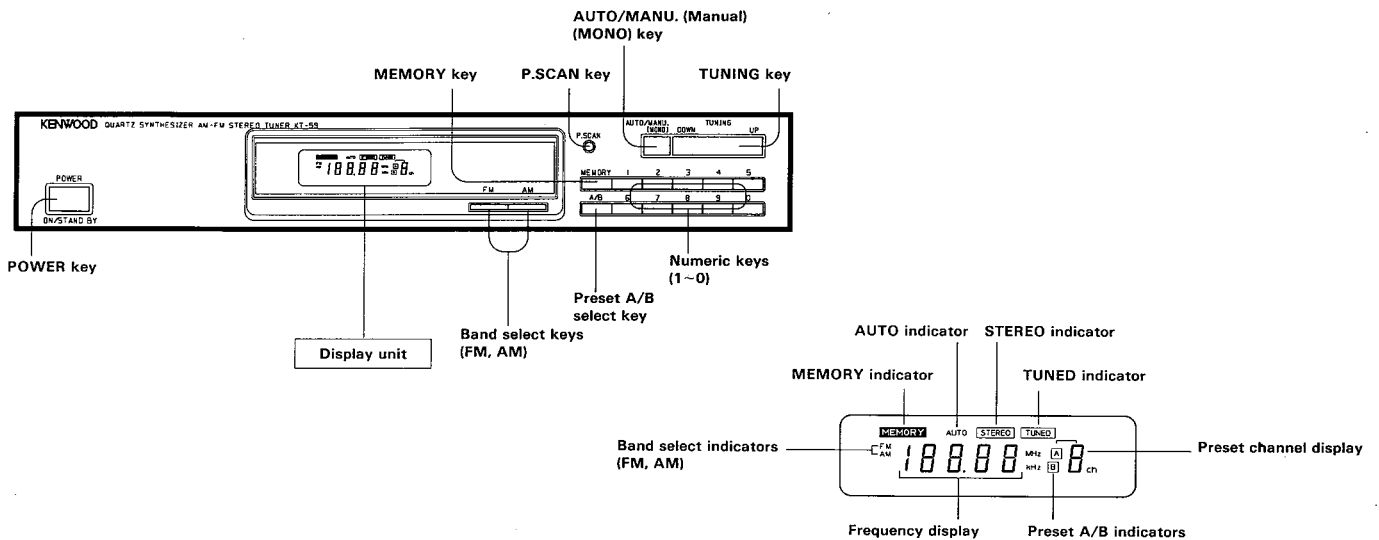
Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong

CONTENTS

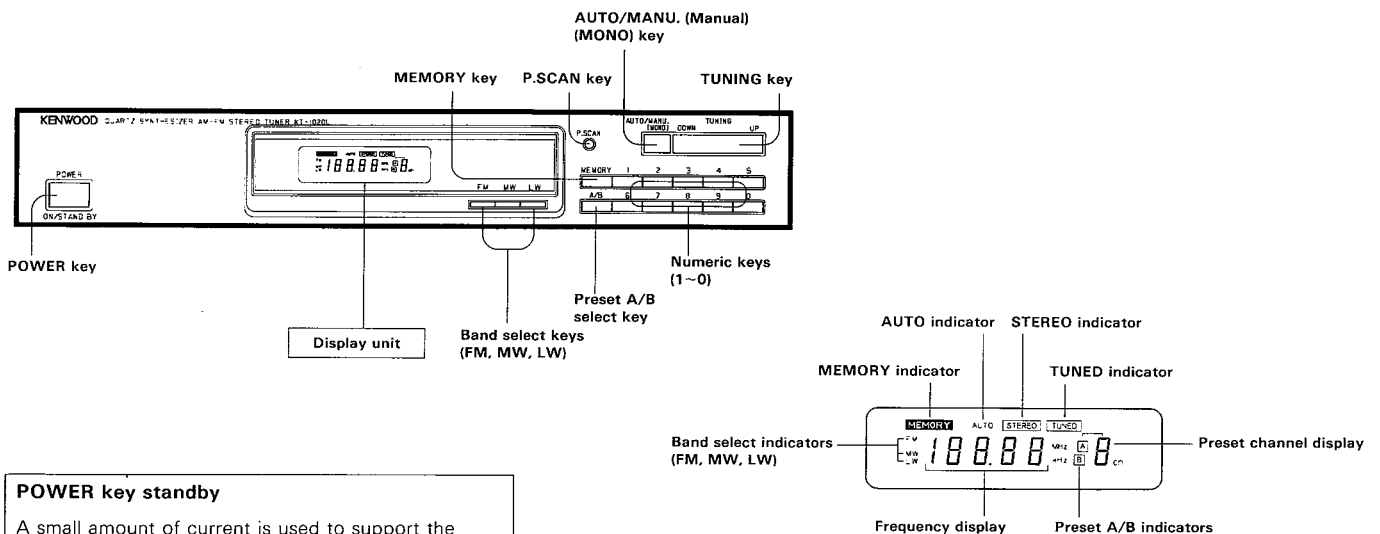
CONTROLS AND INDICATORS.....	2	VOLTAGE TABLES	8
BLOCK DIAGRAM	3	PC BOARD (Component side view)	9
CIRCUIT DESCRIPTION	4	SCHEMATIC DIAGRAM.....	11
ADJUSTMENT/REGLAGES.....	6	EXPLODED VIEW	25
ABGLEICH.....	7	PARTS LIST.....	26
ADJUSTMENT/REGLAGES/ABGLEICH.....	8	SPECIFICATIONS.....	Back cover

CONTROLS AND INDICATORS

KT-59



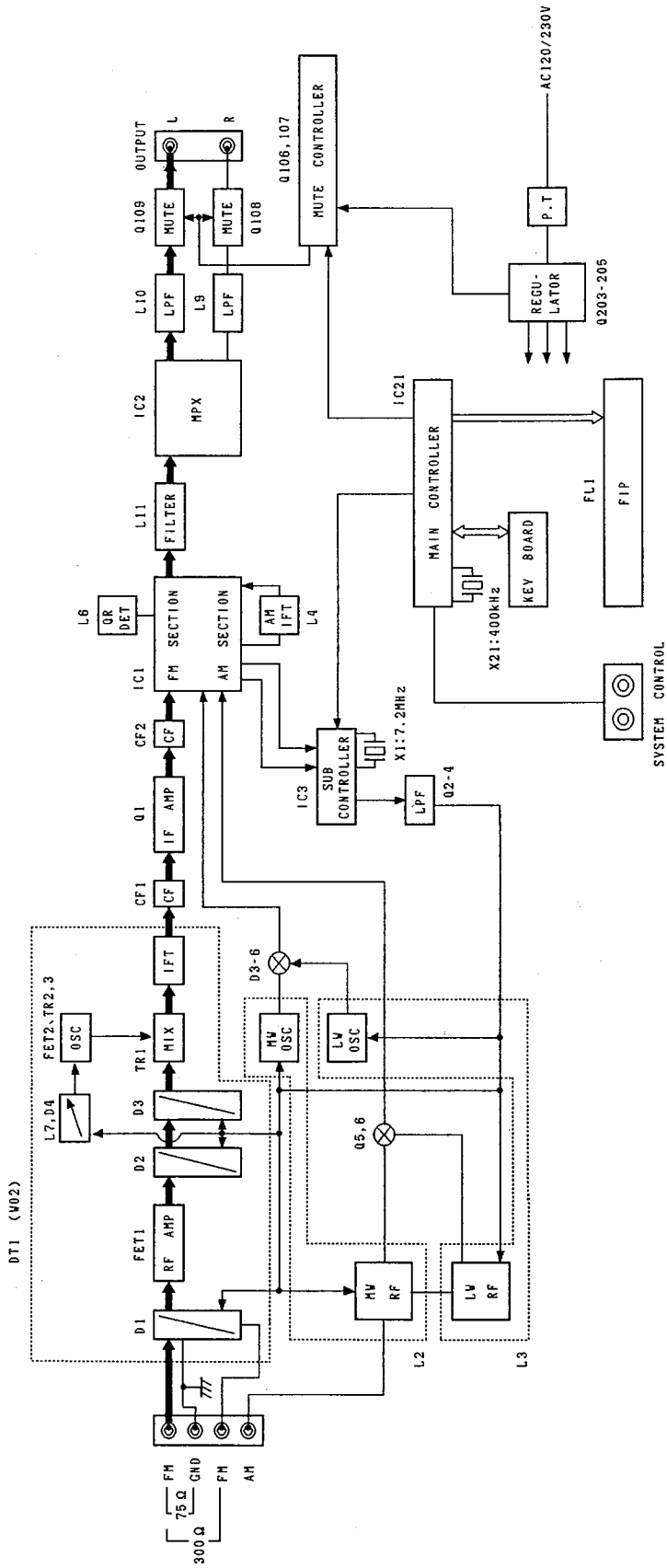
KT-1020L



POWER key standby

A small amount of current is used to support the memory when POWER is switched OFF. This is known as standby mode.

BLOCK DIAGRAM



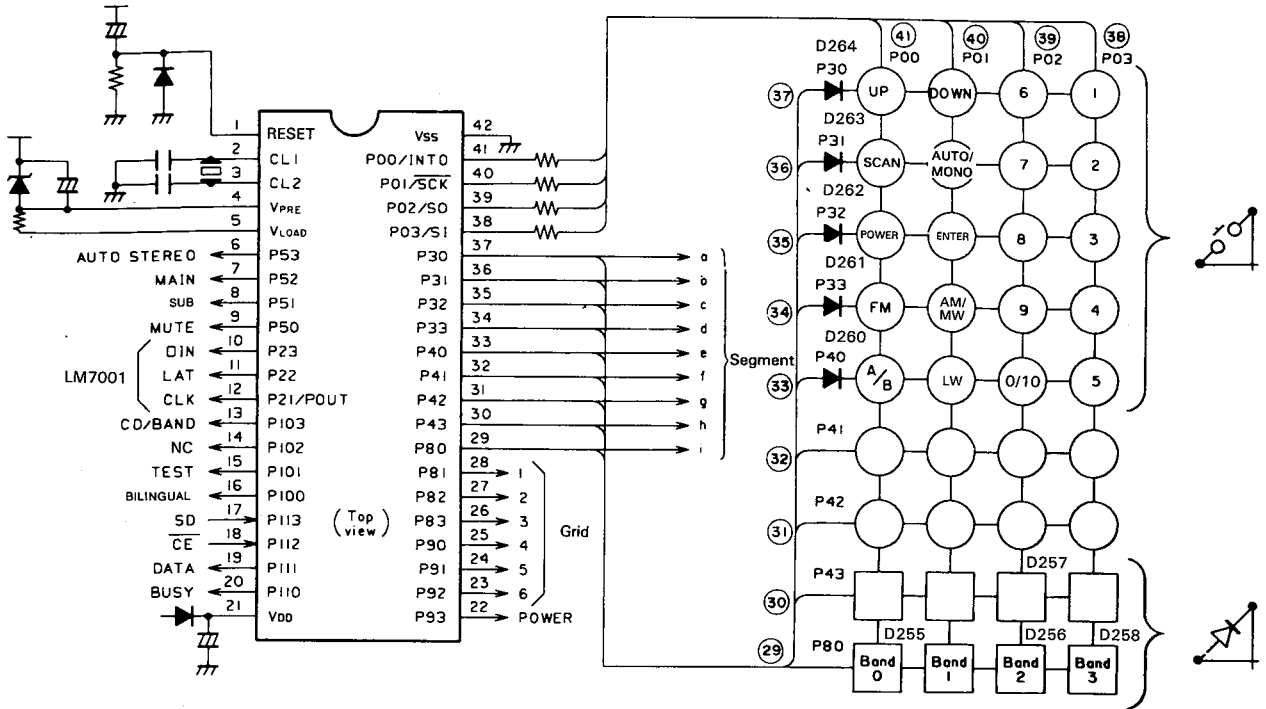
KT-59/1020L

CIRCUIT DESCRIPTION

IC21: μ PD7538AC-045 (X05-393X-XX, X05-394X-XX)

Microprocessor IC

Pin connections and key matrix connections



Functions of diodes and switches

(0: Without diode, 1: With diode)

Description Type	Set Switches				Band	Receiving Frequency Range	Inter-Channel Space	Intermediate Frequency	PLL Reference Frequency	PLL Input Terminal	Auto Tuning
	B3	B2	B1	B0							
K,P,M,Y,X	1	*1	0	0	FM	87.5 MHz ~ 108.0 MHz	100 kHz	+ 10.7 MHz	50 kHz	FMI	○
					AM	530 kHz ~ 1610 kHz	10 kHz	+ 450 kHz	10 kHz	AMI	○
E,T	1	1	0	1	FM	87.5 MHz ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz	FMI	○
					MW	531 kHz ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz	AMI	○
					LW	153 kHz ~ 279 kHz	9 k/1 kHz	+ 450 kHz	1 kHz	AMI	○

NOTE *1 M,Y type 1 or 0
 X type 1
 K,P type 0

CIRCUIT DESCRIPTION

Pin functions

Pin No.	Symbol	I/O mode	Operation mode	Name	Function
1	RESET	I	H		Reset signal.
2	CL1	—	—		Clock pulse.
3	CL2	—	—		Clock pulse.
4	VPRE	—	—		FL tube predrive power supply.
5	VLOAD	—	—		FL tube drive power supply (-30 V)
6	P53	O	H	AUTO-STEREO	Control by MONO/ST key. Stereo (L), Mono (H)
7	P52	O	H	MAIN	TV MAIN pin.
8	P51	O	H	SUB	TV SUB pin.
9	P50	O	H	MUTE	Muting signal.
10	P23	O	H	DIN	CLK output to PLL IC (LM7001)
11	P22	O	H	LAT	LAT output to PLL IC (LM7001)
12	P21/POUT	O	H	CLK	DATA output to PLL IC (LM7001)
13	P103	O	H		Band information output (UHF-H).
14	P102	O	H		
15	P101	O	H	TEST	Input port: TEST pin (H).
16	P100	O	H		Input port: TV mode "Bilingual" pin (H).
17	P113	I	H	SD	Broadcasting station detection signal when auto-tuning.
18	P112	I	L	\overline{CE}	Backup detection pin.
19	P111	I/O	H	DATA	Serial signal DATA pin.
20	P110	I/O	H	BUSY	Serial signal BUSY pin.
21	V _{DD}	—	—	V _{DD}	+5 V power input pin.
22	P93	O	H		Power supply pin.
23	P92	O	H	G6	FL tube digit control pin, GRID6.
24	P91	O	H	G5	FL tube digit control pin, GRID5.
25	P90	O	H	G4	FL tube digit control pin, GRID4.
26	P83	O	H	G3	FL tube digit control pin, GRID3.
27	P82	O	H	G2	FL tube digit control pin, GRID2.
28	P81	O	H	G1	FL tube digit control pin, GRID1.
29	P80	O	H	i	Key strobe signal output, FL tube segment output i.
30	P43	O	H	h	Key strobe signal output, FL tube segment output h.
31	P42	O	H	g	Key strobe signal output, FL tube segment output g.
32	P41	O	H	f	Key strobe signal output, FL tube segment output f.
33	P40	O	H	e	Key strobe signal output, FL tube segment output e.
34	P33	O	H	d	Key strobe signal output, FL tube segment output d.
35	P32	O	H	c	Key strobe signal output, FL tube segment output c.
36	P31	O	H	b	Key strobe signal output, FL tube segment output b.
37	P30	O	H	a	Key strobe signal output, FL tube segment output a.
38	P03/Si	I	H		Key return signal input.
39	P02/So	I	H		Key return signal input.
40	P01/SCK	I	H		Key return signal input.
41	P00/INTO	I	H		Key return signal input.
42	V _{SS}	—	—	V _{SS}	GND

KT-59/1020L

ADJUSTMENT/REGLAGES

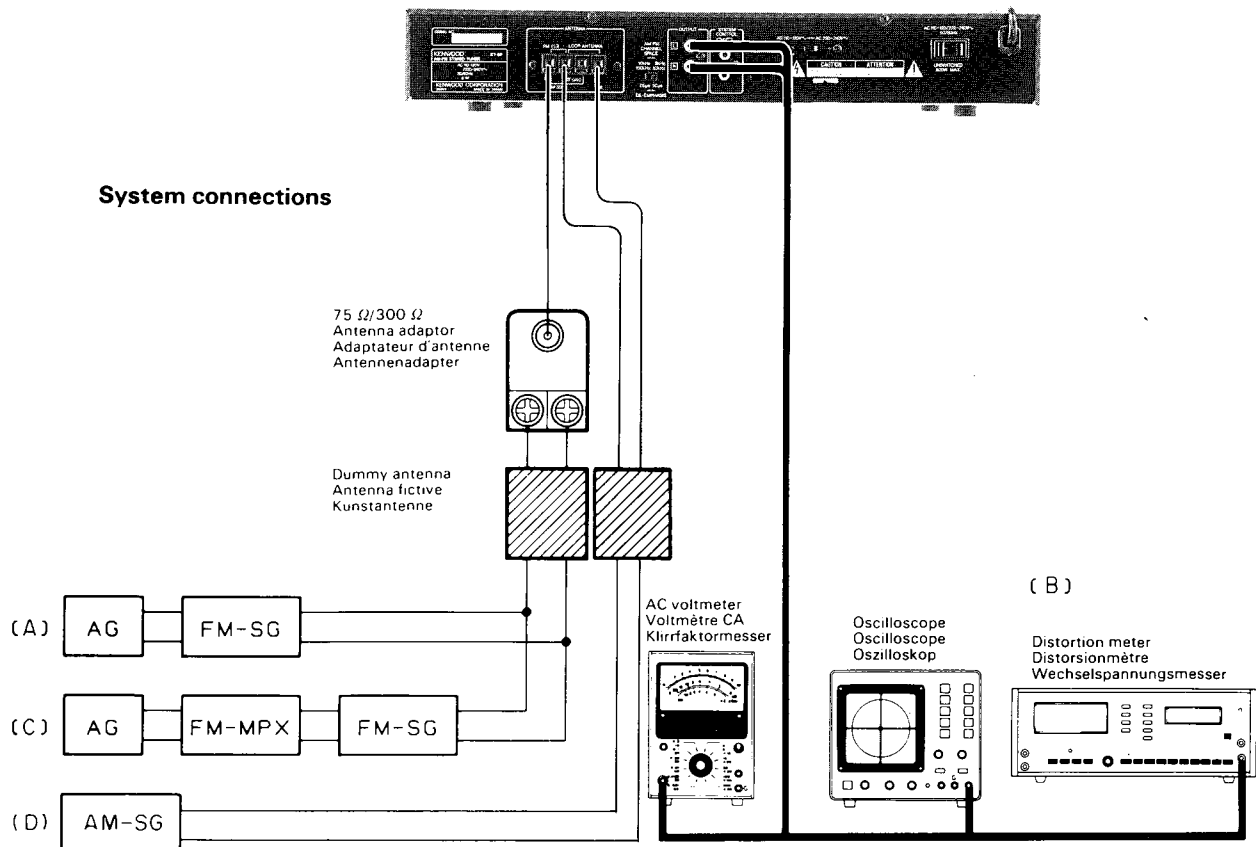
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: FM MODE/AUTO							
1	BAND EDGE (1)	-	Connect a DC voltmeter between TP1 (VT) and TP5 (GND).	87.5MHz	FRONT END L7	2.5V	(a)
2	BAND EDGE (2)	-	Connect a DC voltmeter between TP1 (VT) and TP5 (GND).	108.0MHz	FRONT END TCI	8.0V	(a)
3	RF ALIGNMENT	(A) 98.0MHz 1kHz, ±75kHz dev	(B)	MONO 98.0MHz	FRONT END L2, 3, 4	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments 1 and 2 several times.							
4	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev 60dBμ(ANT input)	Connect a DC voltmeter between TP3 and TP4.	MONO 98.0MHz	L6 (X05)	0V	(b)
5	VCO	(A) 98.0MHz 0 dev 60dBμ(ANT input)	Connect a 330 kΩ resistor to TP2. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR2 (X05)	19.00kHz	(c)
6	SEPARATION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selector: L or R 60dBμ(ANT input)	(B)	98.0MHz	VR3 (X05)	Minimum crosstalk.	
7	TUNING LEVEL	(A) 98.0MHz 0 dev 18dBμ(ANT input) 300Ω 14dBμ(ANT input) 75Ω	(B)	AUTO or MONO 98.0MHz	VR1 (X05)	Adjust VR1 and stop at the point where FL1 (TUNED) goes on.	
AM-MW SECTION Keep the AM loop antenna installed. SELECTOR: AM (KT-59) or MW (KT-1020L)							
(1)	TUNING LEVEL	(D) 1000kHz 36dBμ (ANT input)	(B)	-	VR4	Adjust VR4 and stop at the point where FL1 (TUNED) goes on.	
SECTION MF Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR: FM MODE: FM MODE/AUTO							
1	BORD DE BANDE (1)	-	Relier un voltmètre CC entre les TP1 (VT) et TP5 (GND).	87.5MHz	Contrôle L7	2.5V	(a)
2	BORD DE BANDE (2)	-	Relier un voltmètre CC entre les TP1 (VT) et TP5 (GND).	108.0MHz	Contrôle TCI	8.0V	(a)
3	ALIGNEMENT HT	(A) 98.0MHz 1kHz, ±75kHz dev	(B)	MONO - 98.0MHz	Contrôle L2, 3, 4	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points 1 et 2 plusieurs fois.							
4	DISCRIMINATEUR	(A) 98.0MHz 1kHz, ±75kHz dev 60dBμ(Entrée ANT)	Relier un voltmètre CC entre les TP3 et TP4.	MONO 98.0MHz	L6 (X05)	0V	(b)
5	VCO	(A) 98.0MHz 0 dev 60dBμ(Entrée ANT)	Relier une résistance de 330 kΩ à TP2. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98.0MHz	VR2 (X05)	19.00kHz	(c)
6	SEPARATION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Selection: L ou R 60dBμ(Entrée ANT)	(B)	98.0MHz	VR3 (X05)	Diaphonie minimale.	
7	NIVEAU D'ACCORDER	(A) 98.0MHz 0 dev 18dBμ(Entrée ANT) 300Ω 14dBμ(Entrée ANT) 75Ω	(B)	AUTO ou MONO 98.0MHz	VR1 (X05)	Ajuster VR1 et arrêter le mouvement de VR1 au moment où le FL1 (TUNED) s'allume.	
SECTION MA Laisser l'antenne bouche MA installée. SELECTEUR: AM (KT-59) ou MW (KT-1020L)							
(1)	NIVEAU D'ACCORDER	(D) 1000kHz 36dBμ (Entrée ANT)	-	-	VR4	Ajuster VR4 et arrêter le mouvement de VR4 au moment où le FL1 (TUNED) s'allume.	

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPfangSABTEILUNG Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SELECTOR: FM MODE: FM MODE/AUTO							
1	BANDKANTE (1)	-	Einen Gleichspannungsmesser zwischen TP1 (VT) und TP5 (GND) anschließen.	87,5MHz	Eingangsstufe L7	2,5V	(a)
2	BANDKANTE (2)	-	Einen Gleichspannungsmesser zwischen TP1 (VT) und TP5 (GND) anschließen.	108,0MHz	Eingangsstufe TC1	8,0V	(a)
3	EMPFANGS-BEREICH-ABSTIMMUNGEN	(A) 98,0MHz 1kHz. ±75kHz Hub	(B)	MONO 98,0MHz	Eingangsstufe L2,3,4	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
Abstimmungen 1 und 2 mehrere Male wiederholen.							
4	DISKRIMINATOR	(A) 98,0MHz 1kHz. ±75kHz Hub 60dBμ(Ant-Eingang)	Einen Gleichspannungsmesser zwischen TP3 und TP4 anschließen.	MONO 98,0MHz	L6 (X05)	0V	(b)
5	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dBμ(Ant-Eingang)	Einen 330 kΩ Widerstand zu TP2 anschließen. Einen Frequenzzähler über einen Wechselspannungsmesser an den Widerstand anschließen.	98,0MHz	VR2 (X05)	19,00kHz	(c)
6	STEREO KANAL TRENNUNG	(C) 98,0MHz 1kHz. ±68,25kHz Hub Wähler: L oder R 60dBμ(Ant-Eingang)	(B)	98,0MHz	VR3 (X05)	Minimal Übersprechen.	
7	ABSTIMM	(A) 98,0MHz 0 Hub 18dBμ(Ant-Eingang) 300V 14dBμ(Ant-Eingang) 75Ω	(B)	AUTO oder MONO 98,0MHz	VR1 (X05)	Den Pegelwiderstand aufdrehen, und dem VR1 Halt geben wobei den FL1 (TUNED) anzeiger leuchtet wird.	
MW-EMPfangSABTEILUNG Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM (KT-59) oder MW (KT-1020L)							
(1)	ABSTIMM PEGEL	(D) 1000kHz 36dBμ (Ant-Eingang)	-	-	VR4	Den Pegelwiderstand aufdrehen, und dem VR4 Halt geben wobei den FL1 (TUNED) anzeiger leuchtet wird.	

KT-59/1020L

ADJUSTMENT/REGLAGES/ABGLEICH



VOLTAGE TABLES

KT-59 TUNER UNIT

Q107	E	12.57V
	C	-5.82V
	B	12.55V

Q206	E	0V
	C	6.2V
	B	3V

IC1	1-3	2.33V
	4	0V
	5	10.38V
	6	10.29V
	7	10.32V
	8	0.04V
	9	3.95V
	10	3.05V
	11	1.42V
	12	1.48V
	13,14	1.33V
	15	2.33V
	16	1.45V
	17	0V
	18,19	0.06V
	20	3.89V
	21,22	2.76V

IC3	1	1.58V
	2	1.57V
	3-5	0V
	6,7	0.01V
	8	0V
	9	0.24V
	10	0.06V
	11	2.78V
	12,13	5.32V
	14	1.10V
	15	0.86V
	16	0.38V

Q5,6	E	0V
	C	13.9V
	B	0V

Q108	E	0V
	C	0V
	B	-3.7V

Q206	E	0V
	C	6.2V
	B	3V

IC2	1	12.06V
	2	2.57V
	3	6.10V
	4	9.87V
	5	9.84V
	6	5.06V
	7	5.07V
	8	0.01V
	9	0.65V
	10	2.63V
	11	2.58V
	12	2.60V
	13,14	2.61V
	15	3.28V
	16	0.04V

Q1	E	1.26V
	C	10.67V
	B	2.01V

Q108,109	E	0V
	C	0V
	B	-5.85V

Q207	E	3.1V
	C	2.9V
	B	2.7V

IC21	1-64	--
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KT-1020L TUNER UNIT

Q7	E	2.3V
	C	13.9V
	B	3.0V

Q109	E	0V
	C	0V
	B	-3.7V

Q251	E	4.2V
	C	5.7V
	B	4.7V

IC3	1,2	1.60V
	3-5	0V
	6,7	0.01V
	8	0V
	9	0.22V
	10	0.06V
	11	2.84V
	12,13	5.33V
	14	1.09V
	15	0.88V
	16	0.38V

Q3	E	0.6V
	C	3.8V
	B	0.6V

Q110	E	0V
	C	0.11V
	B	0.7V

Q251	E	4.2V
	C	5.7V
	B	4.7V

IC2	1	10.75V
	2	2.57V
	3	6.14V
	4	8.58V
	5	8.57V
	6	3.80V
	7	3.86V
	8	0.01V
	9	0.66V
	10	2.62V
	11	2.53V
	12-14	2.58V
	15	3.18V
	16	0.03V

Q1	E	1.4V
	C	11.8V
	B	2.2V

Q101	E	0V
	C	13.8V
	B	0V

Q110	E	0V
	C	0.6V
	B	0.7V

Q252	E	4.2V
	C	4.1V
	B	3.55V

IC3	1,2	1.60V
	3-5	0V
	6,7	0.01V
	8	0V
	9	0.22V
	10	0.06V
	11	2.84V
	12,13	5.33V
	14	1.09V
	15	0.88V
	16	0.38V

Q4	E	0.6V
	C	3.8V
	B	1.1V

Q201	E	0.6V
	C	0V
	B	0.6V

Q252	E	4.2V
	C	4.1V
	B	3.55V

Q1	E	4.4V
	D	3.8V
	S	3.8V

Q2	G	4.4V
	D	3.8V
	S	3.8V

Q102	E	13.9V
	C	0V
	B	13.9V

Q201,254	E	0V
	C	0V
	B	0.6V

Q253	E	4.1V
	C	4.1V
	B	3.5V

IC21	1-64	--
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Q11,12	E	--
	C	--
	B	--

Q202	E	18V
	C	18V
	B	17.4V

Q253	E	4.1V
	C	4.1V
	B	3.5V

Q3	E	0.6V
	C	3.8V
	B	0.6V

Q4	E	0.6V
	C	3.8V
	B	1.1V

Q103	E	13.9V
	C	13.8V
	B	13.2V

Q202	E	18V
	C	18V
	B	17.4V

Q255	E	5.75V
	C	5.75V
	B	5.1V

IC1	1-3	2.27V
	4	0V
	5	11.21V
	6	11.60V
	7	11.34V
	8	0.04V
	9	3.94V
	10	2.95V
	11	1.48V
	12	1.47V
	13,14	1.32V
	15	2.37V
	16	1.44V
	17	0V
	18,19	0.06V
	20	3.82V
	21	2.27V
	22	1.49V

Q102	E	12.56V
	C	0.61V
	B	12.54V

Q203	E	12.7V
	C	18.4V
	B	13.3V

Q254	E	0V
	C	0V
	B	0.6V

Q106	E	0V
	C	13.9V
	B	0.6V

Q107	E	13.9V
	C	-3.7V
	B	13.9V

Q104,105	E	0V
	C	0V
	B	0V

Q203	E	13.9V
	C	18.4V
	B	14.5V

Q204	E	5.75V
	C	11.7V
	B	6.4V

Q106	E	0V
	C	13.9V
	B	0.6V

Q106	E	0V
	C	12.52V
	B	0.11V

Q204	E	5.75V
	C	11.7V
	B	6.4V

Q205	E	6.4V
	C	6.3V
	B	5.6V

Q106	E	0V
	C	13.9V
	B	0.6V

Q107	E	13.9V
	C	-3.7V
	B	13.9V

Q204	E	5.75V
	C	11.7V
	B	6.4V

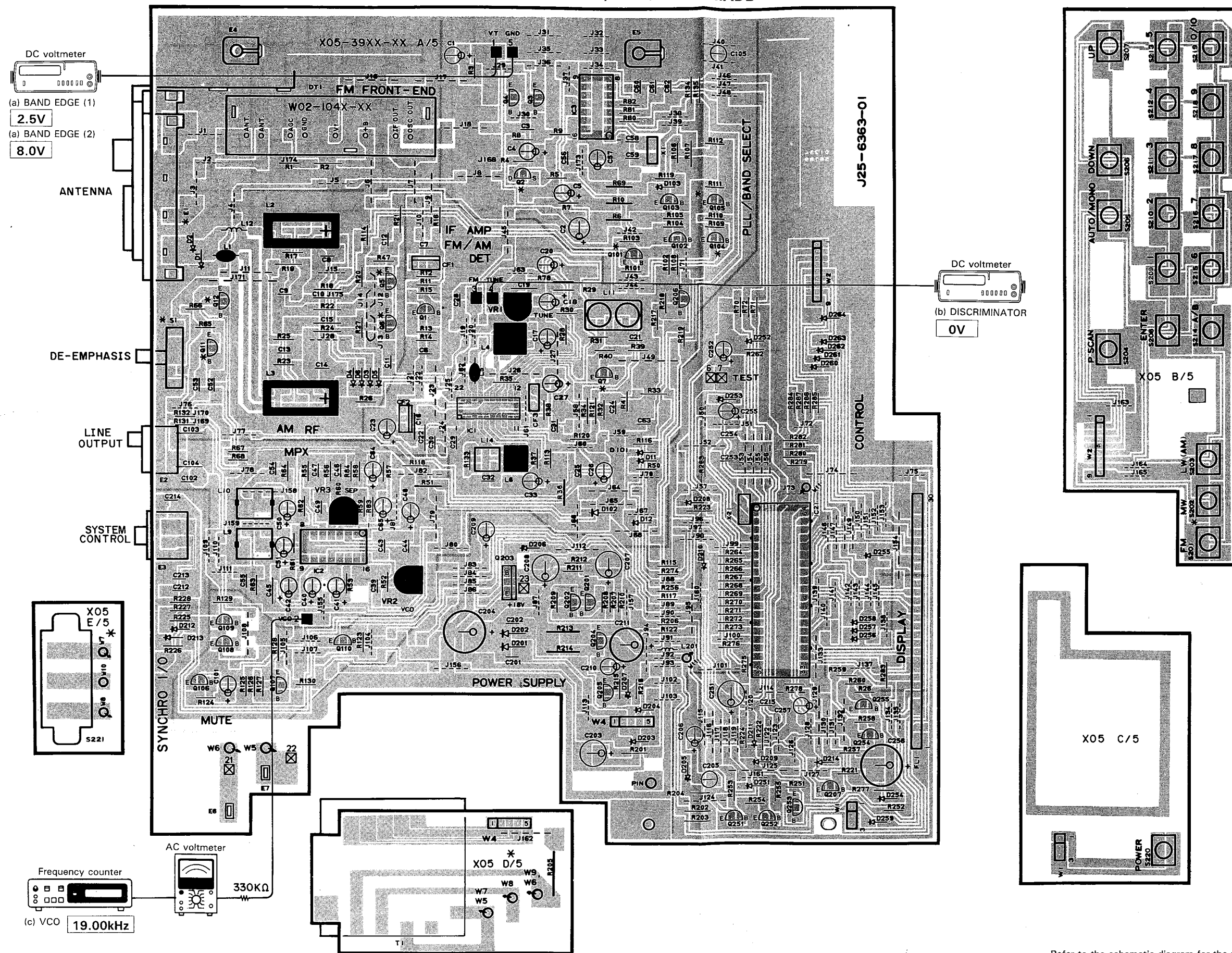
Q205	E	6.4V
	C	6.3V
	B	5.6V

Q205	E	6.4V
	C	6.3V
	B	5.6V

Q106	E	0V
	C	13.9V
	B	0.6V

PC BOARD (Component side view)

TUNER UNIT (X05-393X-XX): JAPAN, FRANCE MADE
 (X05-394X-XX): SINGAPORE MADE

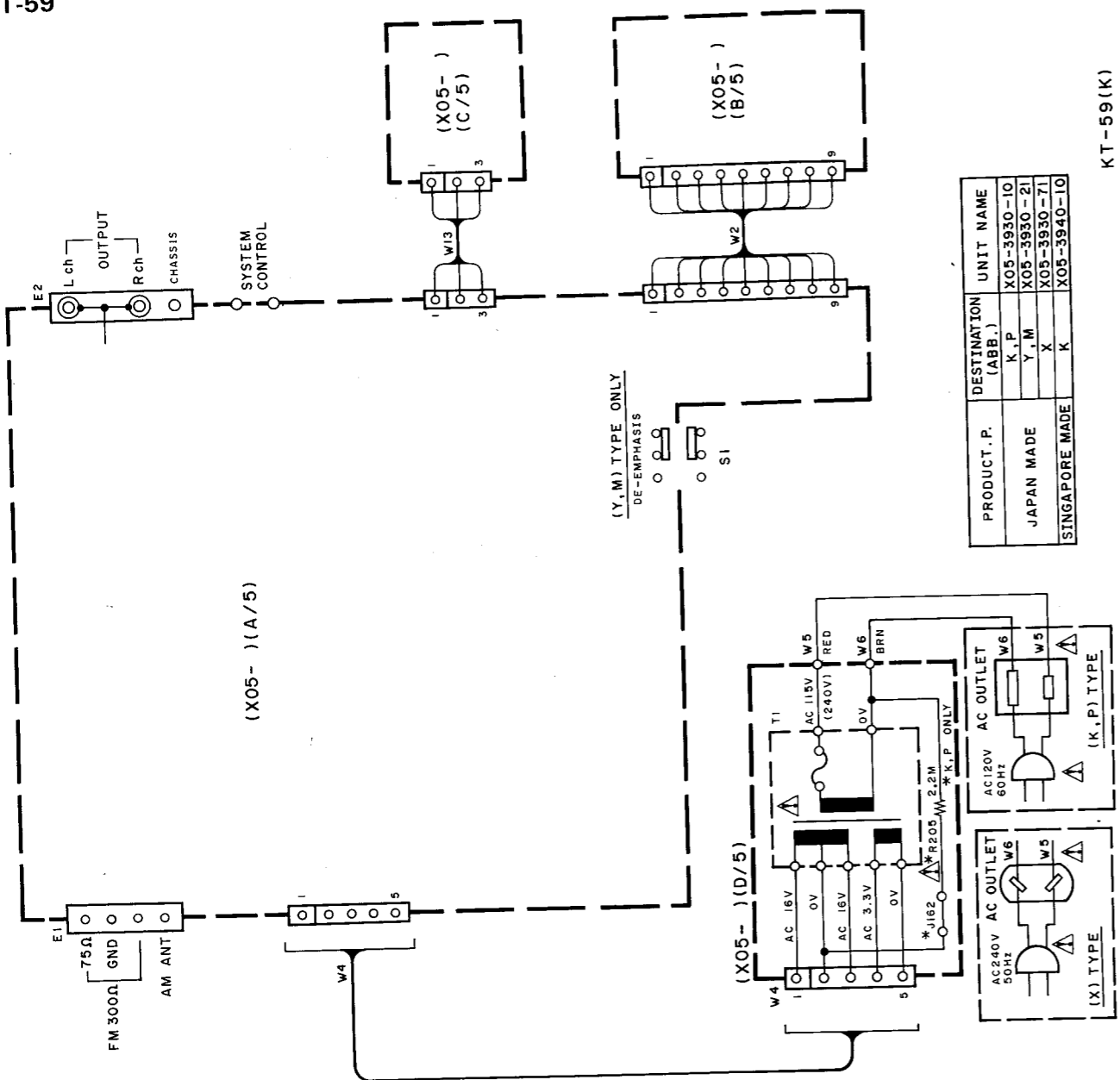


TUNER UNIT (X05-39XX-XX)

Ref. No.	IC	Address
1	4D	
2	4C	
3	2D	
21	5F	
	1	3C
	2	2D
	3	2D
	4	2D
	5	3C
	6	3C
	7	3D
	11	3B
	12	3B
	101	3E
	102	2E
	103	2E
	104	2E
	105	2E
	106	5B
	107	5B
	108	5B
	109	5B
	110	5C
	201	5D
	202	5D
	203	5D
	204	5D
	205	5D
	206	3E
	207	6F
	251	6E
	252	6E
	253	6F
	254	6F
	255	6F

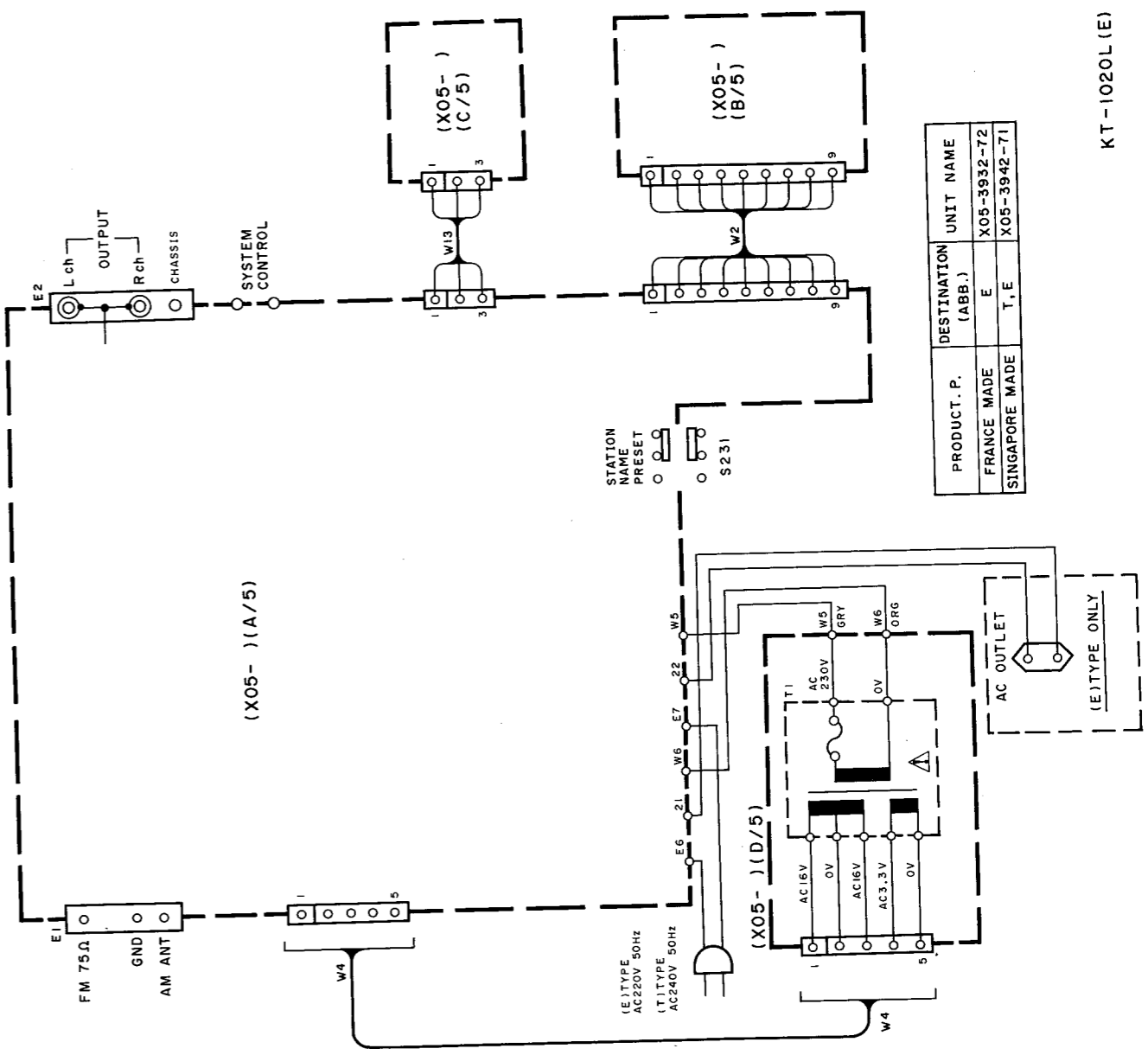
Refer to the schematic diagram for the values of resistors and capacitors.

KT-59

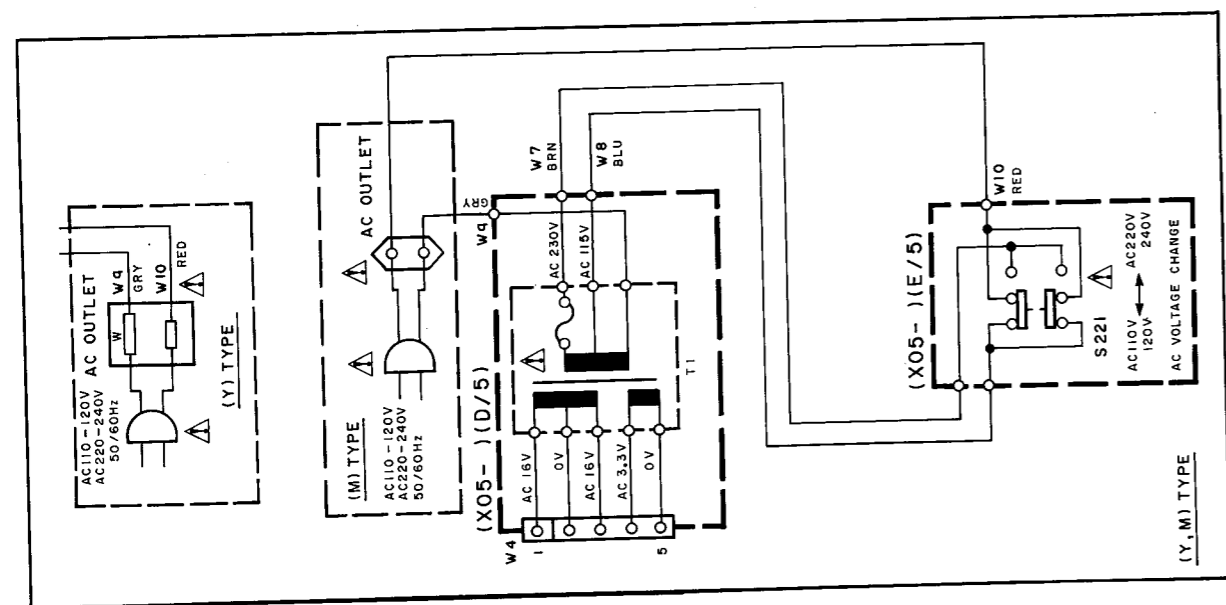


KT-59(K)

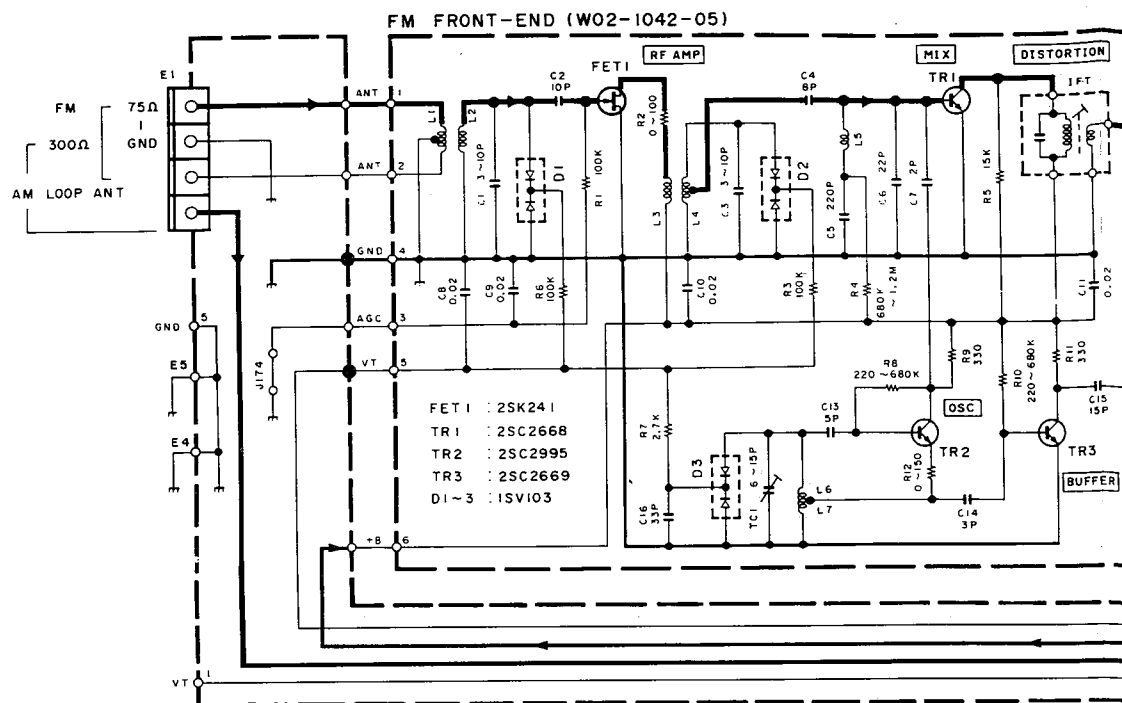
KT-1020L



KT-1020L(E)



(Y, M) TYPE



(X05-393X-XX) (A/5) JAPAN MADE
(X05-394X-XX) (A/5) SINGAPORE MADE

PRODUCT. P.	DESTINATION		UNIT NAME	C52, 53	C54, 55	Q11, 12	R35	R65-68	S1	J64, 76, 77, 171	R28, 78	VR4	
	COUNTRY	ABB.											
JAPAN MADE	U.S.A	K	X05-3930-10	NO	0.022	NO	15K	NO	NO	NO	NO	YES	NO
	CANADA	P	X05-3930-21	YES	1500P	YES	39K	YES	YES	YES	YES	NO	NO
	GENERAL MARKET	Y	X05-3930-71	NO	1500P	NO	39K	NO	NO	NO	NO	YES	NO
SINGAPORE MADE	U.S.A	K	X05-3940-10	NO	0.022	NO	15K	NO	NO	NO	NO	NO	YES

— SIGNAL LINE
— GND LINE
— +B LINE
— -B LINE

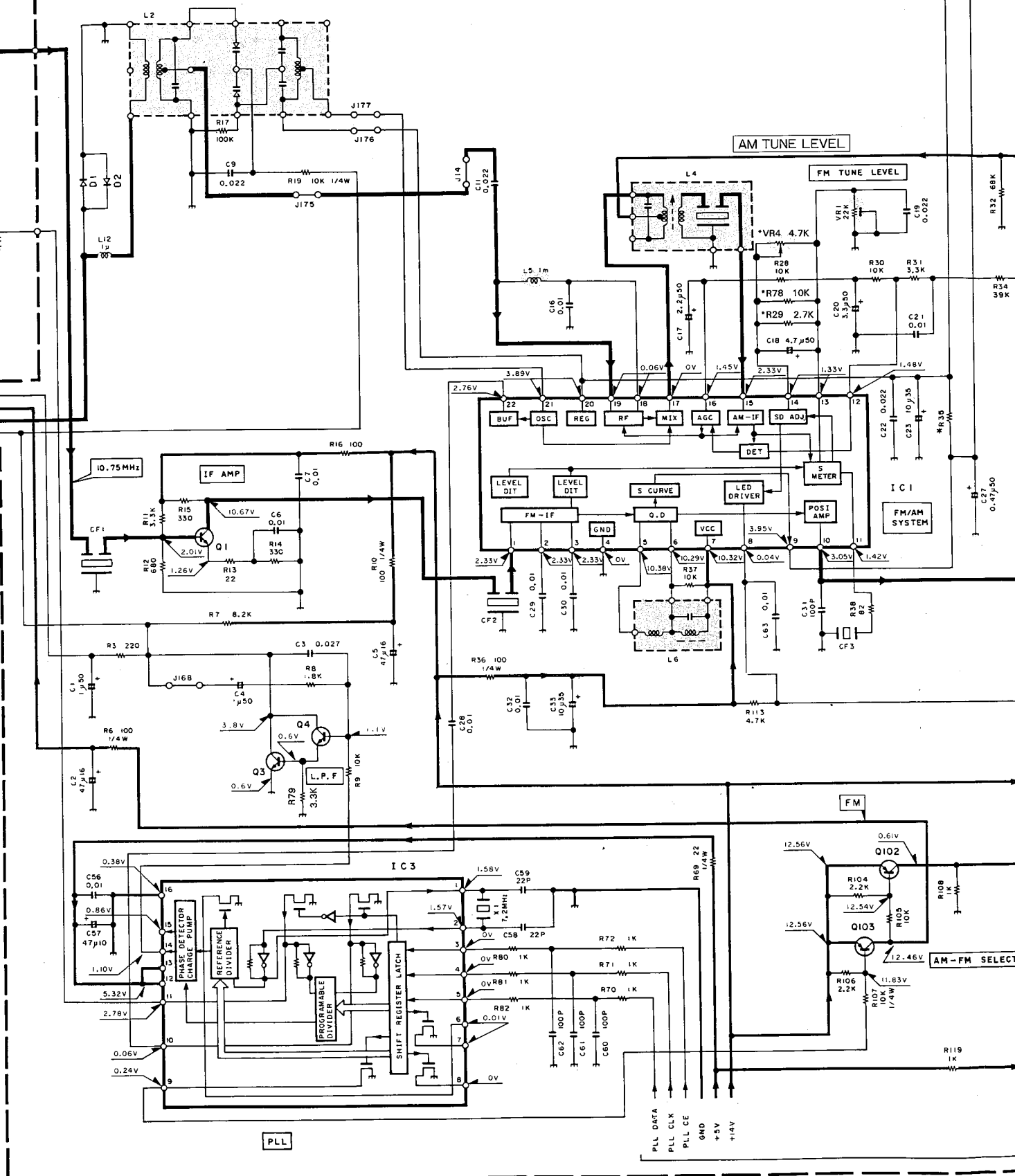
IC 1 : LA1265
IC 2 : AN7470
IC 3 : LM7001

Q 1 : 2SC1923 (R, O)
Q 3, 11, 12, 106, 110 : 2SC945 (A) (Q, P)
or 2SC1740S (Q, R)
Q 4 : 2SC1845 (F, E)
Q102, 103, 107 : 2SA733 (A) (Q, P)
or 2SA933S (Q, R)
Q108, 109 : 2SD1302 (S, T)

D1, 2, 11, 12, 101-103 : ISS133 or HSS104

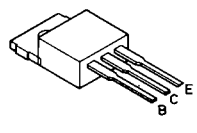
DC voltages are as measured with a high-impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units. Values in parentheses are as measured during reception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

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.

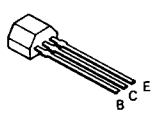


- JA101
- JC501
- 2SA733
- 2SC1845
- 2SC1923
- 2SC2003
- 2SC945
- 2SD1302

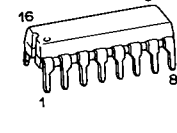
2SD1266



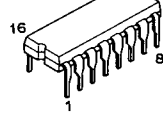
2SA933
2SC1740



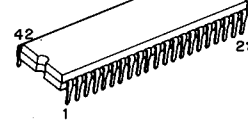
LM7001



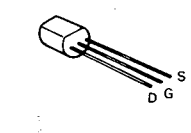
AN7470



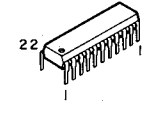
μPD7538AC-045



2SK163
2SK364



LA1265

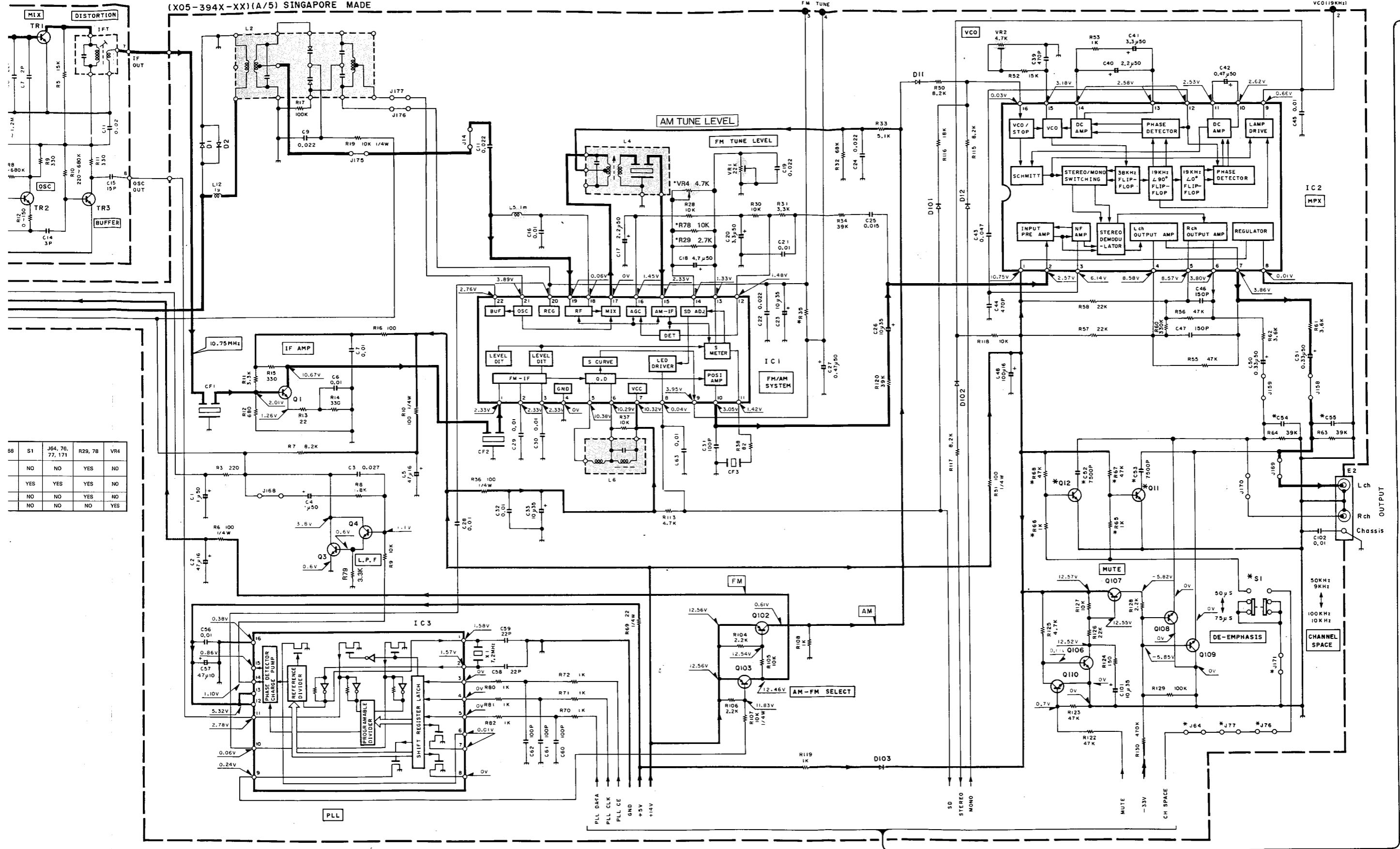


AM TUNE LEVEL

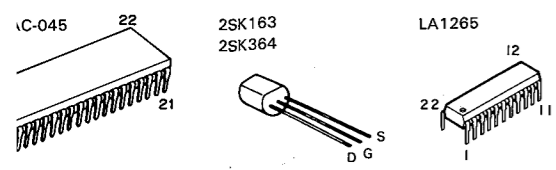
FM TUNE LEVEL

AM-FM SELECT

(X05-393X-XX)(A/5) JAPAN MADE
 (X05-394X-XX)(A/5) SINGAPORE MADE



BB	S1	J64, 76, 77, 171	R29, 78	VR4
NO	NO	NO	YES	NO
YES	YES	YES	NO	NO
NO	NO	NO	YES	NO
NO	NO	NO	NO	YES



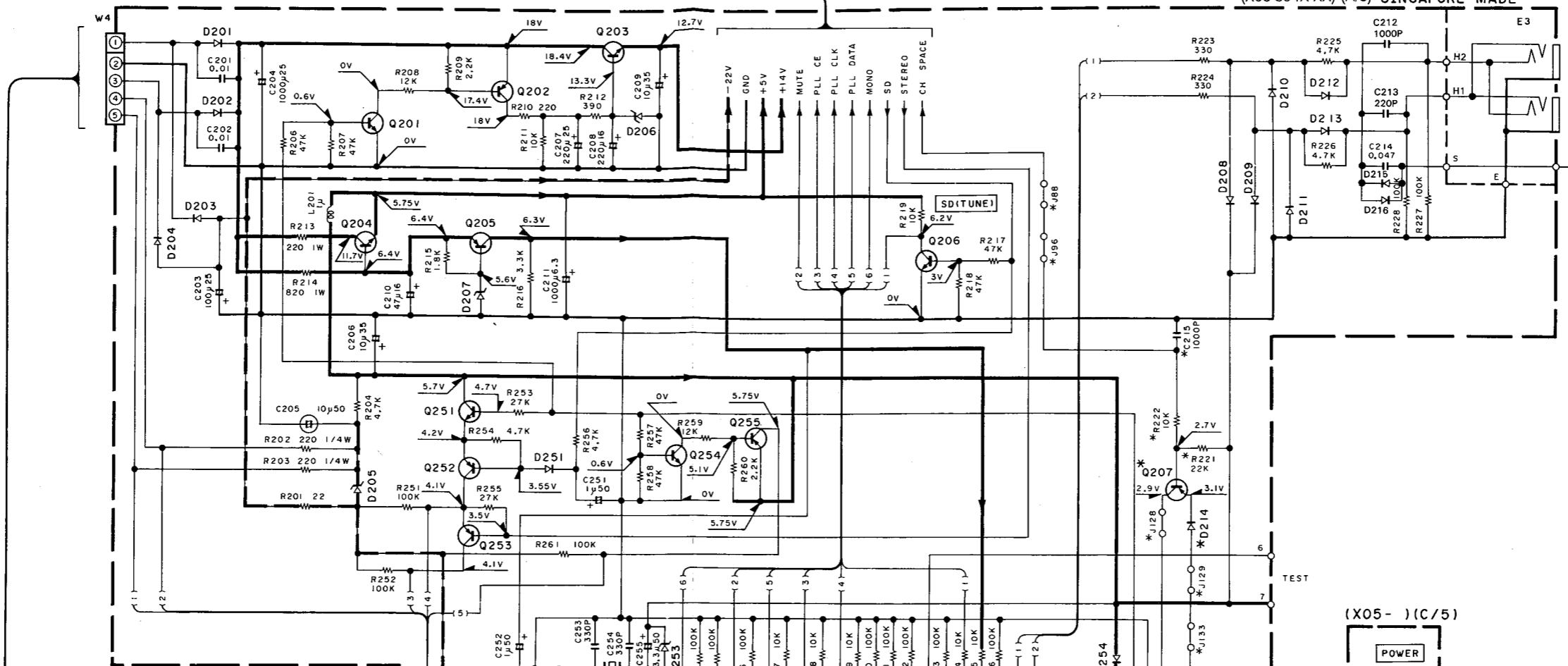
KT-59(K)(1/2)

Y07-3310-10

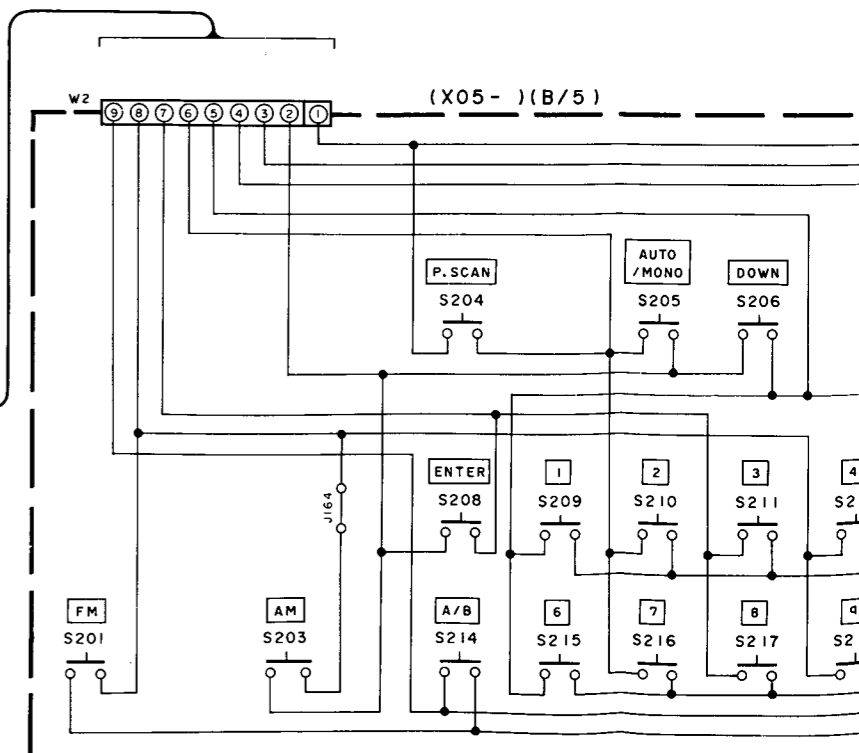
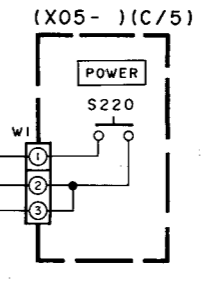
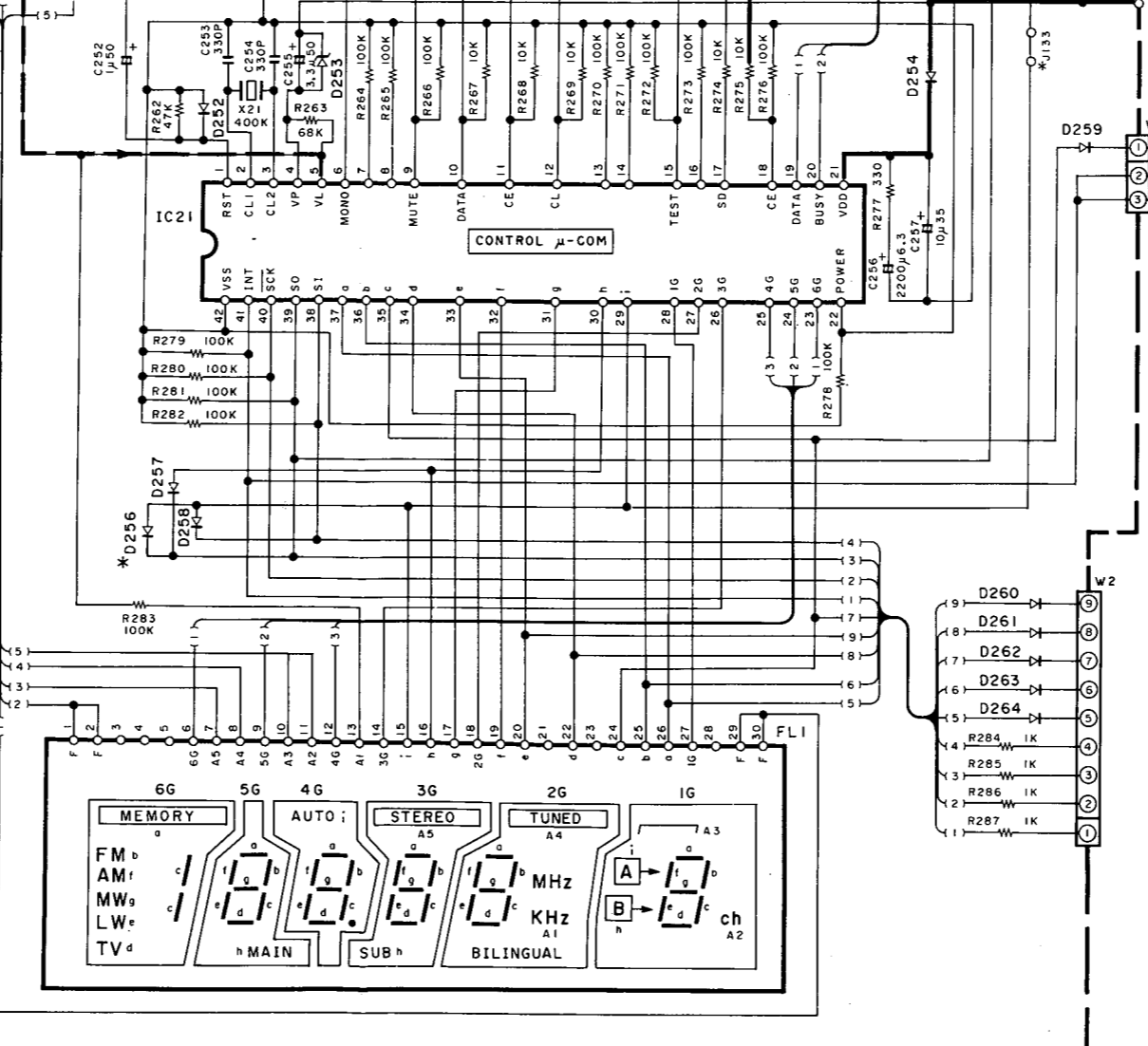
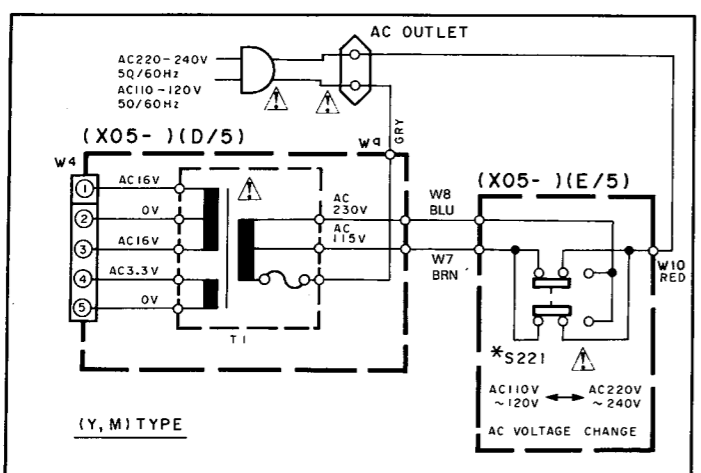
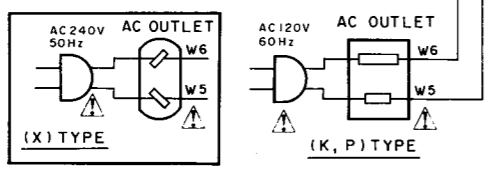
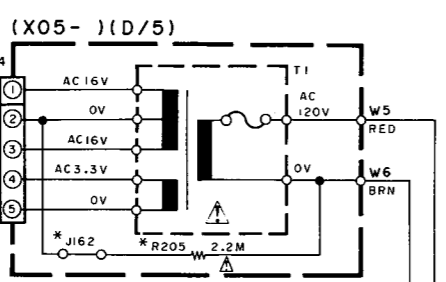
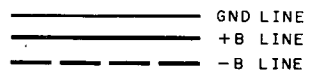
KT-59
KENWOOD

(A)

(X05-393X-XX) (A/5) JAPAN MADE
(X05-394X-XX) (A/5) SINGAPORE MADE



- IC21 : μPD7538Z
- Q201, 206, 251, 254 : 2SC945(L)
or 2SC1740S
- Q202, 205, 207, 252, 253, 255 : 2SA733(A)
or 2SA933S(I)
- Q203, 204 : 2SD1266(I)
- D201, 202 : S5566B
- D203, 204 : ISS131
- D205 : RD5.1ES(I)
or HZS5.1N(I)
- D206 : RD13ES(E)
or HZS13N(B)
- D207 : RD5.6ES(I)
or HZS5.6N(I)
- D208-216, 251, 252, 254, 256 ~ 264 : ISS133
or HSS104
- D253 : RD10ES(B)
- FL1 : FIP8BRM(I)

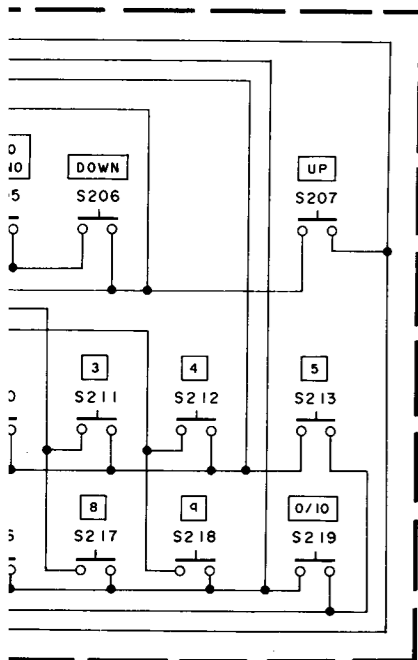


PRODUCT. P.	DESTINATION		UNIT NAME	R205	R221, 222	C215	Q207	D201
	COUNTRY	ABB.						
JAPAN MADE	U.S.A	K P	X05-3930-10	YES	NO	NO	NO	Y
	CANADA	K P	X05-3930-21	NO	YES	YES	YES	Y
SINGAPORE MADE	PX GENERAL MARKET	M	X05-3930-71	NO	NO	NO	NO	Y
	AUSTRALIA	X	X05-3930-10	YES	NO	NO	NO	Y

- μPD7538AC-045
- 254 : 2SC945(A)(Q,P)
or 2SC1740S(Q,R)
- 7, 15 : 2SA733(A)(Q,P)
or 2SA933S(Q,R)
- : 2SD1266(Q,P)
- : S5566B or IN4004
- : ISS131 or HSS104A
- : RD5.1ES(B)
- or HZS5.1N(B)
- : RD13ES(B2)
- or HZS13N(B2)
- : RD5.6ES(B2)
- or HZS5.6N(B2)
- 252, 64 : ISS133
- or HSS104
- : RD10ES(B) or HZS10N(B)
- : FIP8BRM7 or CPF2232GR

— GND LINE
 = +B LINE
 - -B LINE

E	R205	R221, 222	C215	Q207	D214	D256	S221	J88, 96, 128, 129, 133	J162
10	YES	NO	NO	NO	NO	NO	NO	NO	YES
21	NO	YES	YES	YES	YES	NO	YES	YES	NO
71	NO	NO	NO	NO	NO	YES	NO	NO	NO
10	YES	NO	NO	NO	NO	NO	NO	NO	YES



KT-59 (K)(2/2)

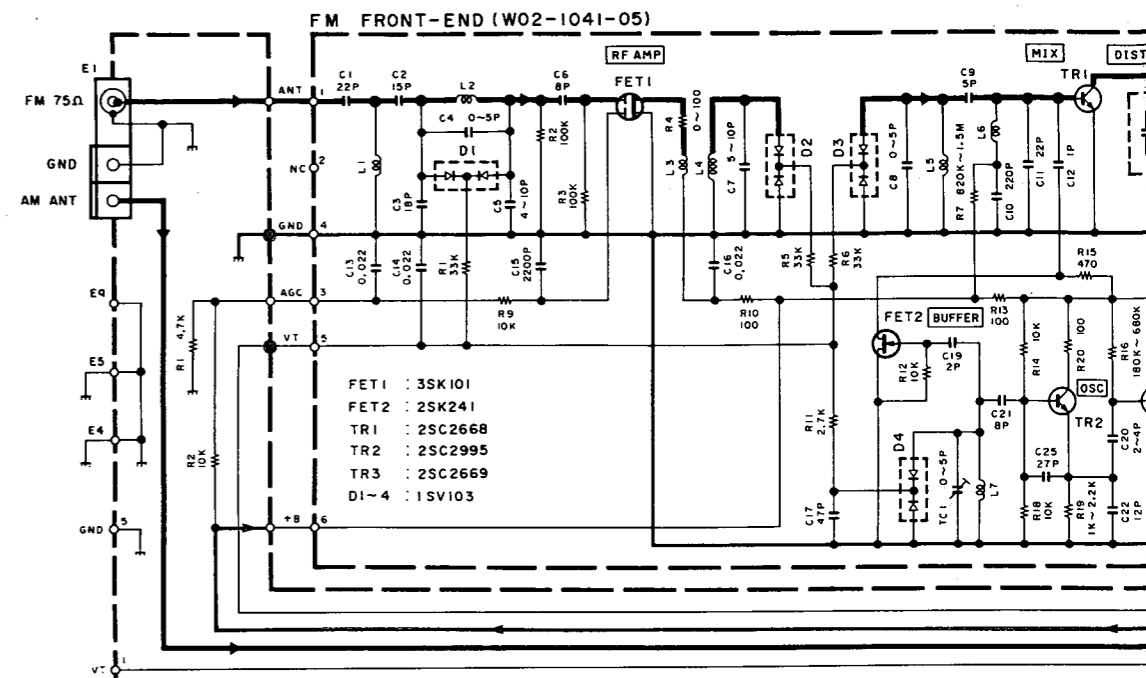
Y07-3310-10

KT-59
KENWOOD

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).

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.

1
2
3
4
5
6
7



KT-1020L

PRODUCT. P.	DESTINATION		UNIT NAME
	COUNTRY	ABB.	
FRANCE MADE	EUROPE	E	X05-3932-72
SINGAPORE MADE	EUROPE ENGLAND	E T	X05-3942-71

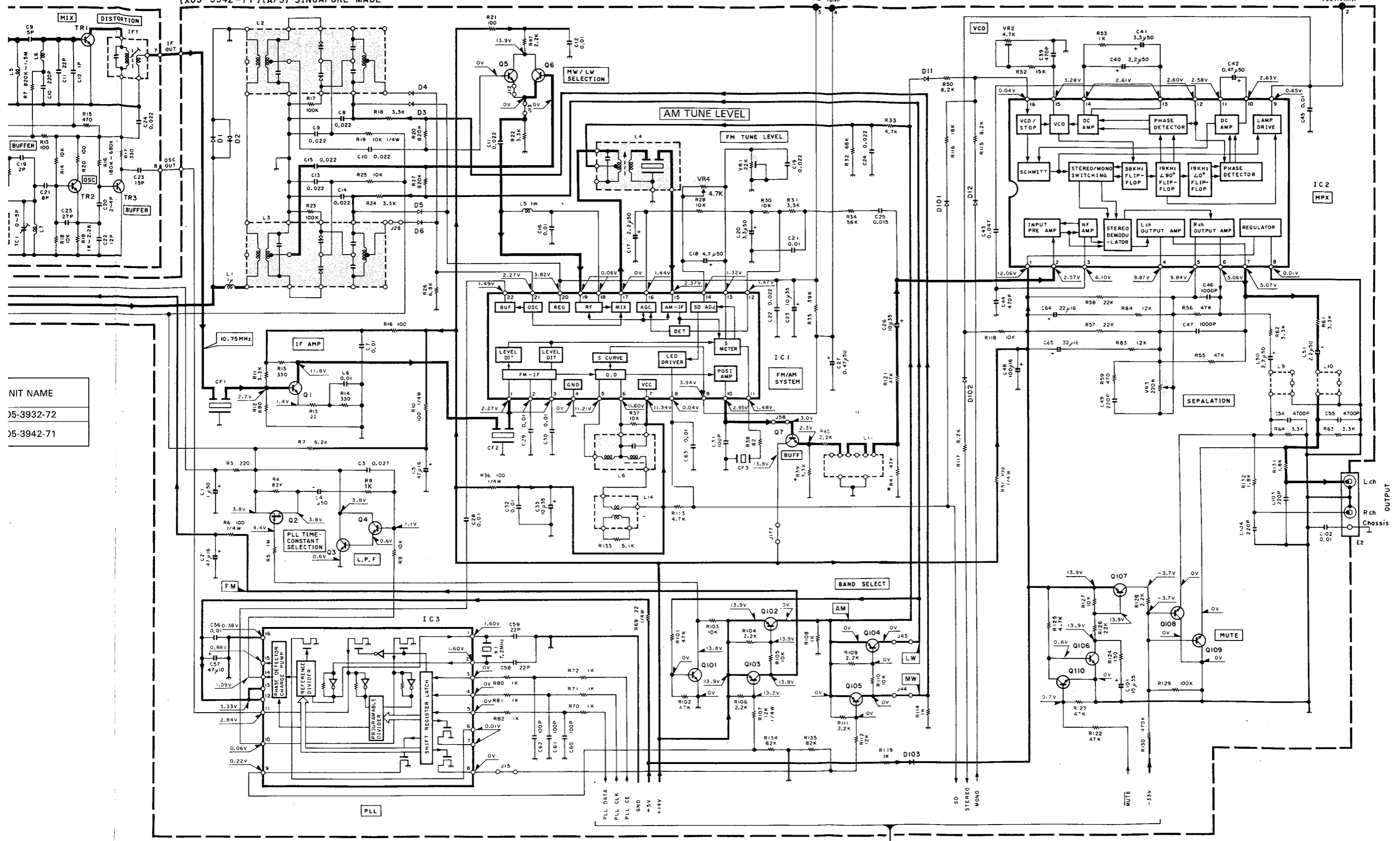
— SIGNAL LINE
 = GND LINE
 - +B LINE
 - -B LINE

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).

- IC1 : LA1265
- IC2 : AN7470
- IC3 : LM7001
- Q1 : 2SC1923 (R, O)
- Q2 : 2SK163 (L, M) or 2SK364 (GR, BL)
- Q3, 5-7, 101, 106, 110 : 2SC945(A)(Q, P), 2SC1740S(Q, R) or JC501 (P, Q)
- Q4 : 2SC1845 (F, E)
- Q102-105, 107 : 2SA733(A)(Q, P), 2SA933S(Q, R) or JA101(P, Q)
- Q108, 109 : 2SD1302(S, T)
- D1-6, 11, 12, 101-103 : ISS133, HSS104 or IN4148

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.

(X05-3932-72) (A/5) FRANCE MADE
(X05-3942-71) (A/5) SINGAPORE MADE



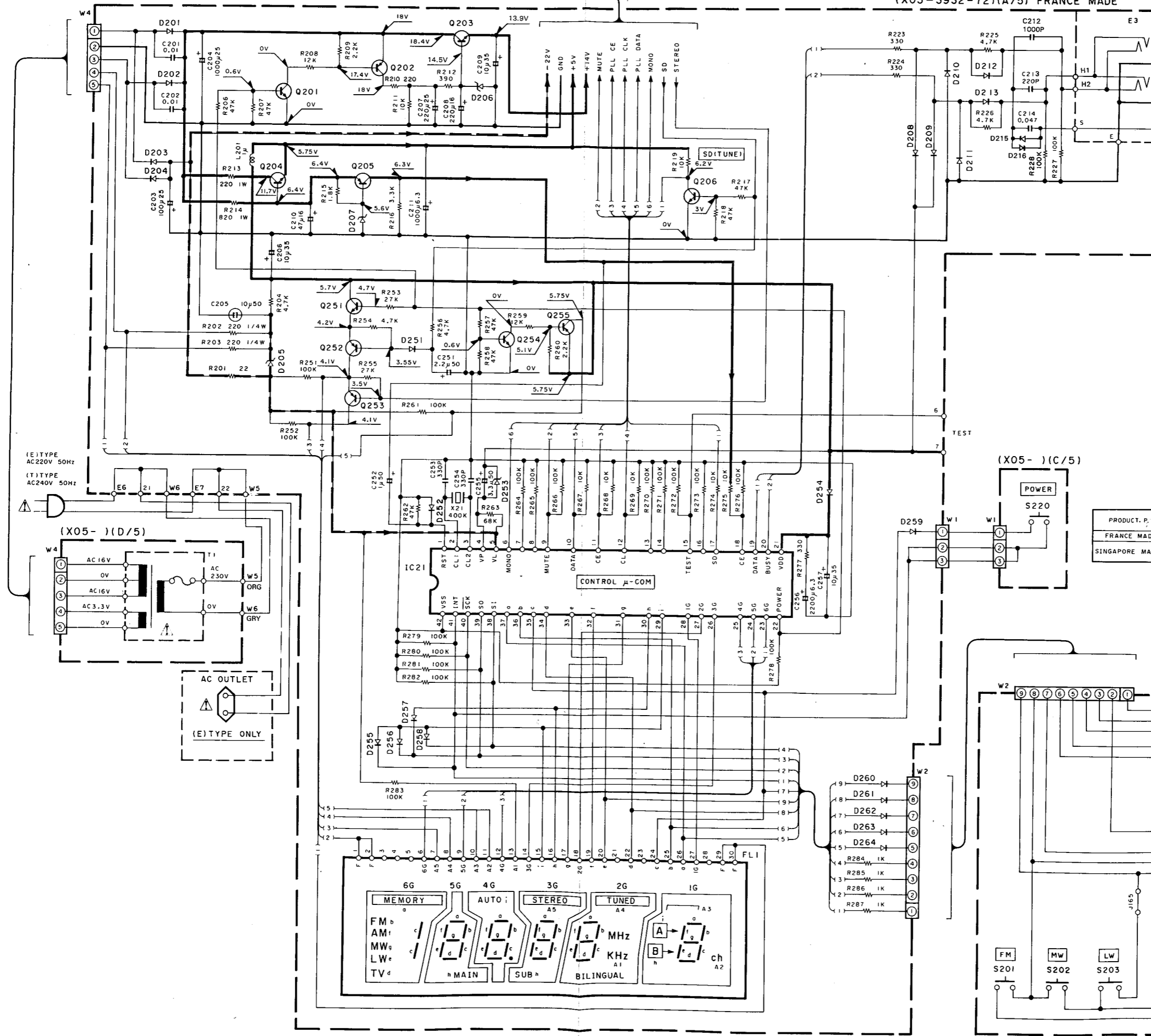
NIT NAME
35-3932-72
35-3942-71

KT-1020L(E)(1/2)

Y07-3312-71

KT-1020L
KENWOOD

(X05-3942-71)(A/5) SINGAPORE MADE
 (X05-3932-72)(A/5) FRANCE MADE



- IC21 : μPD7538AC-045
- Q201, 206, 251, 254 : 2SC945(A)(Q,P)
or 2SC1740S(Q,R)
or JC501(P,Q)
- Q202, 205 : 2SA733(A)(Q,P)
or 2SA933S(Q,R)
or JA101(P,Q)
- Q203, 204 : 2SD1266(Q,P)
- D201, 202 : S5566B or IN4004
- D203, 204 : ISS131 or HSS104A
- D205 : RD5.1ES(B) or HZS55.
or BZX55-C5V1
- D206 : RD15ES(B2) or HZS15.
or BZX55-C15
- D207 : RD5.6ES(B2) or HZS5.
or BZX55-C5V6
- D208~213, 251, 252, 254~264, 215, 216 : ISS133 or HSS104
or IN4148
- D253 : RD10ES(B) or HZS10A
or BZX55-C10
- FL1 : FIPBPRM7 or CPF2232

— GND LINE
 - - - +B LINE
 - - - -B LINE

PRODUCT P.	DESTINATION		UNIT NAME
	COUNTRY	ABB.	
FRANCE MADE	EUROPE	E	X05-3932-72
SINGAPORE MADE	ENGLAND	T	X05-3942-71
	EUROPE	E	

(E)TYPE
AC220V 50Hz

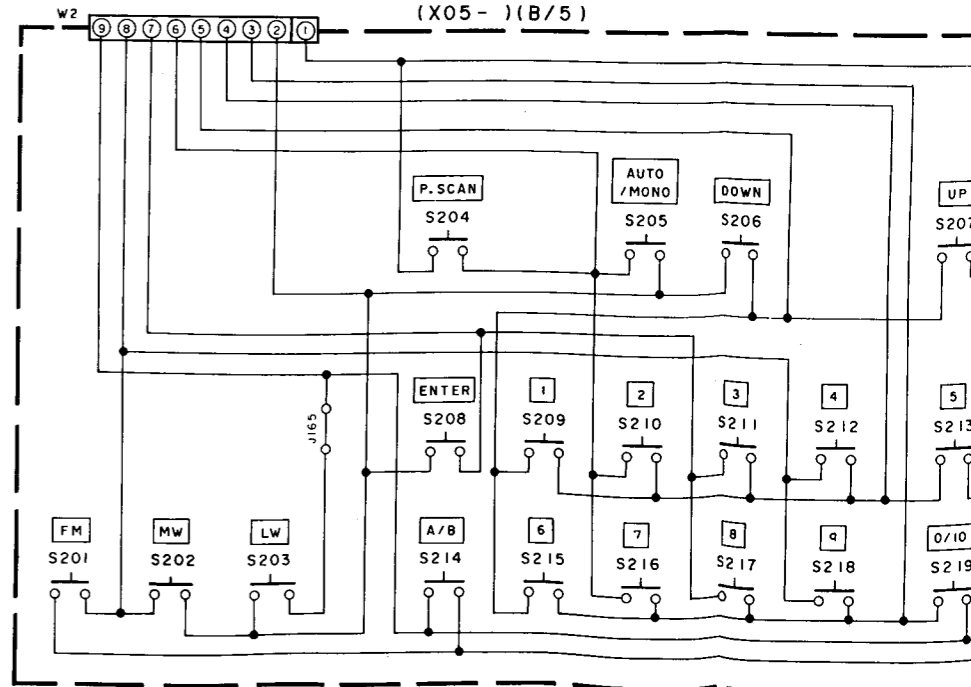
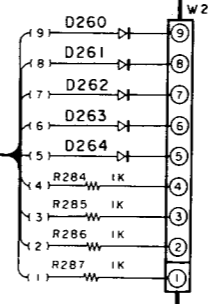
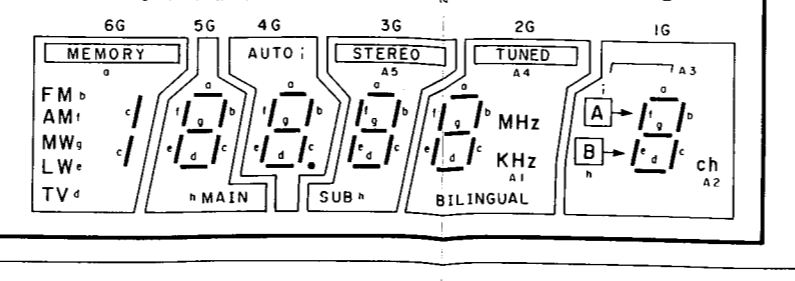
(T)TYPE
AC240V 50Hz

(X05-)(D/5)

AC OUTLET
 (E)TYPE ONLY

(X05-)(C/5)

(X05-)(B/5)



PD7538AC-045

SC945(A)(Q,P)
SC1740S(Q,R)
C501(P,Q)

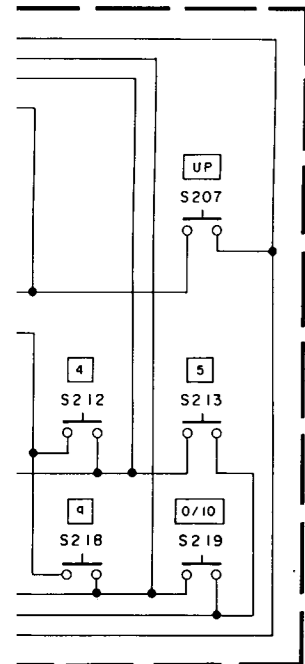
SA733(A)(Q,P)
SA933S(Q,R)
A101(P,Q)
SD1266(Q,P)

5566B or IN4004
3S131 or HSS104A
DS.1ES(B) or HZS5.1N(B)
ZX55-C5V1
DS.1ES(B2) or HZS15N(B2)
ZX55-C15
DS.6ES(B2) or HZS5.6N(B2)
ZX55-C5V6

S133 or HSS104
J414B
DS.10ES(B) or HZS10N(B)
ZX55-C10

CPBPRM7 or CPF2232GR

LINE
LINE
LINE



KT-1020L(E) (2/2)

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).

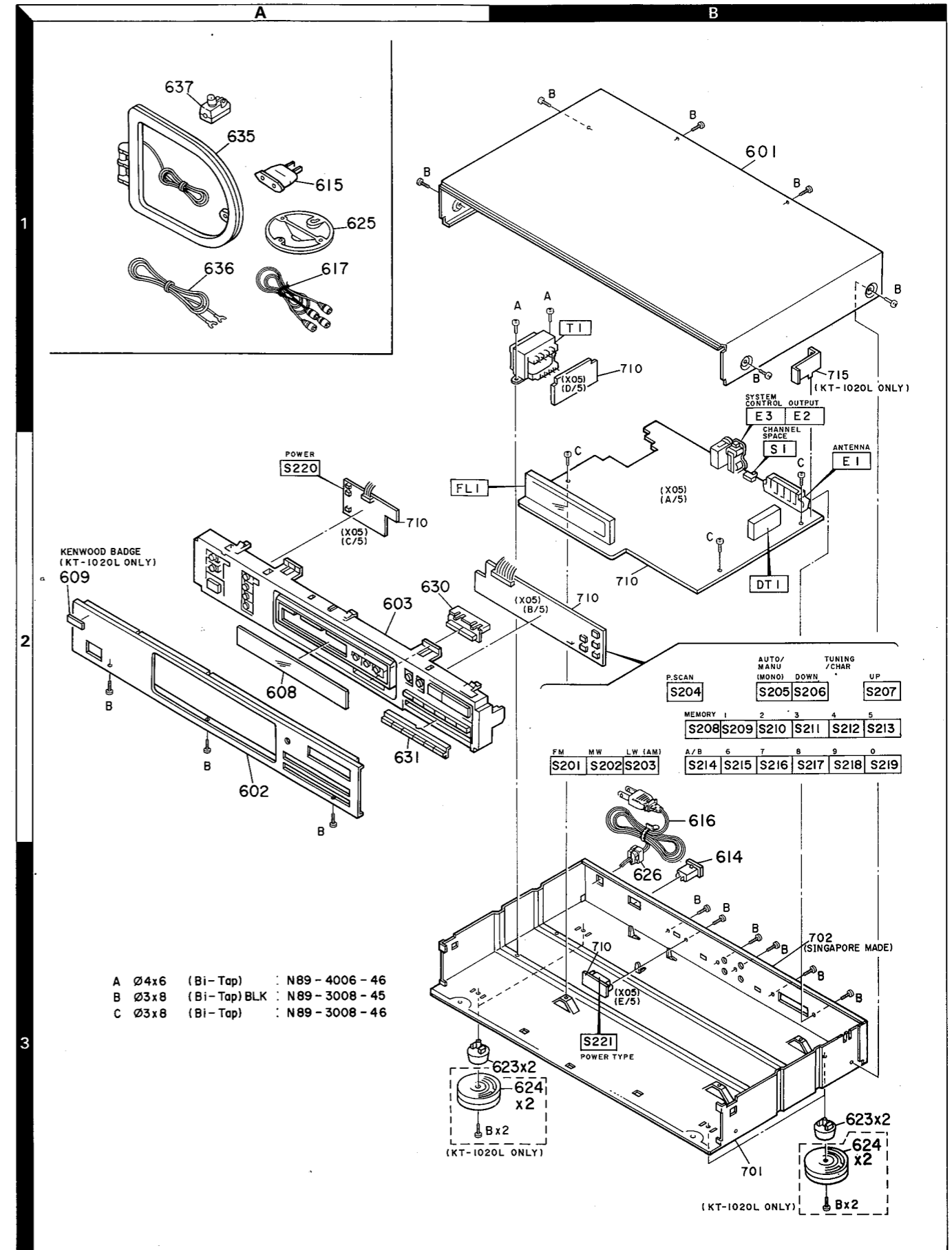
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

Y07-3312-71

KT-1020L

KENWOOD

EXPLODED VIEW



- A $\varnothing 4 \times 6$ (Bi-Tap) : N89-4006-46
- B $\varnothing 3 \times 8$ (Bi-Tap) BLK : N89-3008-45
- C $\varnothing 3 \times 8$ (Bi-Tap) : N89-3008-46

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-59/1020L (Japan made · France made)						
601	1B		A01-1770-01	METALLIC CABINET	KPYMX	
601	1B		A01-1771-01	METALLIC CABINET	E	F
602	2A	*	A20-5994-02	PANEL	E	
602	2A	*	A20-5995-02	PANEL	KPYMX	
603	2A	*	A22-1168-01	SUB PANEL		
608	2A	*	B03-2628-03	DRESSING PLATE	KPYMX	
608	2A	*	B03-2629-03	DRESSING PLATE	E	F
609	2A		B43-0287-04	KENWOOD BADGE	E	F
-			B46-0092-03	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-13	WARRANTY CARD	X	
-			B46-0121-03	WARRANTY CARD	P	
-			B46-0139-03	WARRANTY CARD	E	F
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	F
-			B58-0803-13	CAUTION CARD	E	F
-		*	B60-0047-0010	INSTRUCTION MANUAL(ENGLISH)	KPYMX	F
-		*	B60-0048-0010	INSTRUCTION MANUAL(ENGLISH)	E	F
-		*	B60-0049-0010	INSTRUCTION MANUAL(FRENCH)	PM	
-		*	B60-0052-0010	INSTRUCTION MANUAL(SP/ARA/CHI)	M	
-		*	B60-0053-0010	INSTRUCTION MANUAL(GE/ITA/DUT)	E	F
△ 614	3B		E03-0041-05	AC OUTLET	KPY	
△ 614	3B		E03-0055-05	AC OUTLET	ME	
△ 614	3B	*	E03-0114-05	AC OUTLET	X	
△ 615	1A		E03-0115-05	AC PLUG ADAPTER	M	
△ 616	2B		E30-0459-05	AC POWER CORD	ME	
△ 616	2B		E30-0812-05	AC POWER CORD	Y	
△ 616	2B		E30-0996-05	AC POWER CORD	KP	
△ 616	2B		E30-1341-05	AC POWER CORD	X	
617	1A		E30-0505-05	AUDIO CORD	E	F
617	1A		E30-0615-05	AUDIO CORD	KPYMX	
-		*	H01-8736-04	ITEM CARTON CASE	KPYMX	F
-		*	H01-8738-04	ITEM CARTON CASE	E	F
-			H10-3780-02	POLYSTYRENE FOAMED FIXTURE	KPYMX	
-			H10-3781-02	POLYSTYRENE FOAMED FIXTURE	E	F
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
623	3B		J02-0366-15	FOOT	KPYMX	
624	3B		J02-1024-05	FOOT	E	F
625	1A		J19-2815-04	ANTENNA HOLDER		
626	3B		J42-0083-05	POWER CORD BUSHING		
630	2A	*	K29-3900-04	KNØB(FM/MW/LW)	E	F
630	2A	*	K29-3901-04	KNØB(FM/AM)	KPYMX	
631	2A	*	K29-3902-03	KNØB(A/B,6-0)		
A			N89-4006-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3008-46	BINDING HEAD TAPTITE SCREW		
635	1A		T90-0153-05	LOOP ANTENNA	E	F
635	1A		T90-0173-05	LOOP ANTENNA	KPYMX	
636	1A		T90-0176-05	T TYPE ANTENNA		
637	1A		T90-0177-05	ANTENNA ADAPTOR	E	F

E: Scandinavia & Europe K: USA P: Canada KT-59 : K,P,Y,M,X type F: France made
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KT-59/1020L (Singapore made)						
601	1B		A01-1622-01	METALLIC CABINET		
602	2A	*	A20-5994-02	PANEL		TE
602	2A	*	A20-5995-02	PANEL		K
603	2A	*	A22-1168-01	SUB PANEL		
608	2A	*	B03-2653-03	DRESSING PLATE		K
608	2A	*	B03-2654-03	DRESSING PLATE		TE
609	2A		B43-0287-04	KENWOOD BADGE		TE
-			B46-0092-03	WARRANTY CARD		K
-			B46-0122-13	WARRANTY CARD		E
-			B46-0143-13	WARRANTY CARD		T
-			B58-0803-13	CAUTION CARD		E
-		*	B60-0047-00	INSTRUCTION MANUAL(ENGLISH)		K
-		*	B60-0048-00	INSTRUCTION MANUAL(ENGLISH)		TE
-		*	B60-0053-00	INSTRUCTION MANUAL(GE/ITA/DUT)		E
△ 614	3B		E03-0041-05	AC OUTLET		K
△ 614	3B		E03-0055-05	AC OUTLET		E
△ 616	2B		E30-0459-05	AC POWER CORD		E
△ 616	2B		E30-0996-05	AC POWER CORD		K
△ 616	2B		E30-1416-05	AC POWER CORD		T
617	1A		E30-0505-05	AUDIO CORD		TE
617	1A		E30-0615-05	AUDIO CORD		K
-		*	H01-8783-04	ITEM CARTON CASE		K
-		*	H01-8784-04	ITEM CARTON CASE		E
-		*	H01-8785-04	ITEM CARTON CASE		T
-			H10-3819-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
623	3B		J02-0366-15	FOOT		K
624	3B		J02-1024-05	FOOT		TE
625	1A		J19-2815-04	ANTENNA HOLDER		
626	3B		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	2A	*	K29-3900-04	KNØB(FM/MW/LW)		TE
630	2A	*	K29-3901-04	KNØB(FM/AM)		K
631	2A	*	K29-3902-03	KNØB(A/B,6-0)		
A			N89-4006-46	BINDING HEAD TAPTITE SCREW		
B			N89-3008-45	BINDING HEAD TAPTITE SCREW		
C			N89-3008-46	BINDING HEAD TAPTITE SCREW		
635	1A		T90-0174-05	LOOP ANTENNA		
636	1A		T90-0175-05	T TYPE ANTENNA		
637	1A		T90-0177-05	ANTENNA ADAPTOR		TE
TUNER UNIT (X05-393X-XX: Japan made · France made)						
C1			CE04KW1H010M	ELECTRØ	1.0UF	50WV
C2			CE04KW1C470M	ELECTRØ	47UF	16WV
C3			CF92FV1H273J	MF	0.027UF	J
C4			CE04KW1H010M	ELECTRØ	1.0UF	50WV
C5			CE04KW1C470M	ELECTRØ	47UF	16WV
C6 ,7			CK45FF1H103Z	CERAMIC	0.010UF	Z
C8 ,9			CK45FF1H223Z	CERAMIC	0.022UF	Z
C9			CK45FF1H223Z	CERAMIC	0.022UF	Z
C10			C91-0085-05	CERAMIC	0.022UF	N

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C11			CK45FF1H223Z	CERAMIC 0.022UF Z	E	F
C12			CK45FF1H103Z	CERAMIC 0.010UF Z	E	F
C13, 14			CK45FF1H223Z	CERAMIC 0.022UF Z	E	F
C15			C91-0085-05	CERAMIC 0.022UF N	E	F
C16			C91-0769-05	CERAMIC 0.01UF M		
C17			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C18			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C19			C91-0085-05	CERAMIC 0.022UF N		
C20			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			C91-0085-05	CERAMIC 0.022UF N		
C23			CE04KW1V100M	ELECTRO 10UF 35WV		
C24			CK45FF1H223Z	CERAMIC 0.022UF Z		
C25			CF92FV1H153J	MF 0.015UF J		
C26			CE04KW1V100M	ELECTRO 10UF 35WV		
C27			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C28 -30			CK45FF1H103Z	CERAMIC 0.010UF Z		
C31			CC45FSL1H101J	CERAMIC 100PF J		
C32			CK45FF1H103Z	CERAMIC 0.010UF Z		
C33			CE04KW1V100M	ELECTRO 10UF 35WV		
C39			CC93FCH1H471J	CERAMIC 470PF J		
C40			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C41			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C42			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C43			CF92FV1H473J	MF 0.047UF J		
C44			CK45FB1H471K	CERAMIC 470PF K		
C45			C91-0769-05	CERAMIC 0.01UF M		
C46, 47			CC45FSL1H151J	CERAMIC 150PF J	KPYMX	F
C47, 48			CK45FB1H102K	CERAMIC 1000PF K	E	F
C48			CE04KW1C101M	ELECTRO 100UF 16WV		
C49			CC45FSL1H221J	CERAMIC 220PF J	E	F
C50, 51			CE04KW1HR33M	ELECTRO 0.33UF 50WV	KPYMX	F
C50, 51			CE04KW1H2R2M	ELECTRO 2.2UF 50WV	E,	F
C52, 53			CF92FV1H752J	MF 7500PF J	YM	
C54, 55			CF92FV1H152J	MF 1500PF J	YMX	
C54, 55			CF92FV1H223J	MF 0.022UF J	KP	F
C54, 55			CF92FV1H472J	MF 4700PF J	E	F
C56			CK45FF1H103Z	CERAMIC 0.010UF Z		
C57			CE04KW1A470M	ELECTRO 47UF 10WV		
C58, 59			CC45FCH1H220J	CERAMIC 22PF J		
C60 -62			CC45FSL1H101J	CERAMIC 100PF J		
C63			CK45FF1H103Z	CERAMIC 0.010UF Z		
C64, 65			CE04KW1C220M	ELECTRO 22UF 16WV	E	F
C101			CE04KW1V100M	ELECTRO 10UF 35WV		
C102			CK45FF1H103Z	CERAMIC 0.010UF Z		
C103, 104			C91-0749-05	CERAMIC 220PF K	E	F
C201, 202			CK45FF1H103Z	CERAMIC 0.010UF Z		
C203			CE04KW1E101M	ELECTRO 100UF 25WV		
C204			CE04KW1E102M	ELECTRO 1000UF 25WV		
C205			C90-1400-05	NP-ELEC 10UF 50WV		
C206			CE04KW1V100M	ELECTRO 10UF 35WV		
C207			CE04KW1E221M	ELECTRO 220UF 25WV		
C208			CE04KW1C221M	ELECTRO 220UF 16WV		
C209			CE04KW1V100M	ELECTRO 10UF 35WV		
C210			CE04KW1C470M	ELECTRO 47UF 16WV		

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C211			CE04DWOJ102M	ELECTRO 1000UF 6.3WV		
C212			CK45FB1H102K	CERAMIC 1000PF K		
C213			CC45FSL1H221J	CERAMIC 220PF J		
C214			CK45FF1H473Z	CERAMIC 0.047UF Z		
C215			CK45FB1H102K	CERAMIC 1000PF K	YM	
C251			CE04KW1H2R2M	ELECTRO 2.2UF 50WV	E	F
C251, 252			CE04KW1H010M	ELECTRO 1.0UF 50WV	KPYMX	
C252			CE04KW1H010M	ELECTRO 1.0UF 50WV	E	F
C253, 254			CC45FSL1H331J	CERAMIC 330PF J		
C255			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C256			CE04KWOJ222M	ELECTRO 2200UF 6.3WV		
C257			CE04KW1V100M	ELECTRO 10UF 35WV		
E1	2B		E20-0321-05	LOCK TERMINAL BOARD (ANTENNA)	E	F
E1	2B		E20-0476-05	LOCK TERMINAL BOARD (ANTENNA)	KPYMX	
E2	1B		E13-0235-05	PHONE JACK (2P) (OUTPUT)		
E3	1B		E11-0188-05	MINIATURE PHONE JACK		
CF1, 2			L72-0531-05	CERAMIC FILTER	KPYMX	
CF1, 2			L72-0536-05	CERAMIC FILTER	E	F
CF3			L72-0096-05	CERAMIC FILTER		
L1			L40-1091-17	SMALL FIXED INDUCTOR	E	F
L2			L39-0192-05	COMBINATION COIL		
L3			L39-0195-05	COMBINATION COIL	E	F
L4			L30-0454-15	AM IFT		
L5			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L6			L30-0439-25	FM IFT	KPYMX	
L6			L30-0483-05	FM IFT	E	F
L9, 10			L79-0790-05	LC FILTER	E	F
L11			L79-0125-05	LC FILTER	E	F
L12			L40-1091-17	SMALL FIXED INDUCTOR	KPYMX	
L14			L30-0448-05	FM IFT	E	F
L201			L40-1091-17	SMALL FIXED INDUCTOR		
▲ T1	1B		L01-8641-05	POWER TRANSFORMER	KP	
▲ T1	1B		L01-8642-05	POWER TRANSFORMER	XE	
▲ T1	1B		L01-8644-15	POWER TRANSFORMER	YM	
X1			L77-1122-05	CRYSTAL RESONATOR (7.2MHz)		
X21			L78-0202-05	RESONATOR (400KHZ)		
R6			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R10			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R36			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R51			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R69			RD14GB2E220J	FL-PROOF RD 22 J 1/4W		
▲ R205			R92-0173-05	RC 2.2M M 1/2W	KP	
R213			RS14KB3A221J	FL-PROOF RS 220 J 1W		
R214			RS14KB3A821J	FL-PROOF RS 820 J 1W		
VR1			R12-3128-05	TRIM POT. 22K (FM TUNE LEVEL)		
VR2			R12-1089-05	TRIM POT. 4.7K		
VR3			R12-5060-05	TRIM POT. 220K (SEPARATION)	E	F
VR4			R12-1089-05	TRIM POT. 4.7K	E	F
S1	2B		S31-2094-05	SLIDE SWITCH (CHANNEL SPACE)	YM	
S201	2B		S40-1064-05	PUSH SWITCH	KPYMX	
S201-220	2A, 2B		S40-1064-05	PUSH SWITCH	E	F
S203-220	2A, 2B		S40-1064-05	PUSH SWITCH	KPYMX	
▲ S221	3B		S31-2128-05	SLIDE SWITCH (POWER TYPE)	YM	

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D1 -6			1N4148	DIODE	E	F
D1 ,2			HSS104	DIODE	KPYMX	
D1 ,2			1SS133	DIODE	KPYMX	
D11 ,12			HSS104	DIODE	KPYMX	
D11 ,12			1N4148	DIODE	E	F
D11 ,12			1SS133	DIODE	KPYMX	
D101-103			HSS104	DIODE	KPYMX	
D101-103			1N4148	DIODE	E	F
D101-103			1SS133	DIODE	KPYMX	
D201,202			S5566B	DIODE	KPYMX	
D201,202			1N4004	DIODE	E	F
D203,204			HSS104A	DIODE	KPYMX	
D203,204			1SS131	DIODE	E	F
D205			BZX55-C5V1	ZENER DIODE	E	F
D205			HZS5.1N(B)	ZENER DIODE	KPYMX	
D205		*	RD5.1ES(B)	ZENER DIODE	KPYMX	
D206			BZX55-C15	DIODE	E	F
D206			HZS13N(B2)	ZENER DIODE	KPYMX	
D206			RD13ES(B2)	ZENER DIODE	KPYMX	
D207			BZX55-C5V6	DIODE	E	F
D207			HZS5.6N(B2)	ZENER DIODE	KPYMX	
D207			RD5.6ES(B2)	ZENER DIODE	KPYMX	
D208-213			HSS104	DIODE	KPX	
D208-213			1N4148	DIODE	E	F
D208-213			1SS133	DIODE	KPX	
D208-216			HSS104	DIODE	YM	
D208-216			1SS133	DIODE	YM	
D215,216			HSS104	DIODE	KPX	
D215,216			1N4148	DIODE	E	F
D215,216			1SS133	DIODE	KPX	
D251,252			HSS104	DIODE	KPYMX	
D251,252			1N4148	DIODE	E	F
D251,252			1SS133	DIODE	KPYMX	
D253			BZX55-C10	DIODE	E	F
D253			HZS10N(B)	ZENER DIODE	KPYMX	
D253			RD10ES(B)	ZENER DIODE	KPYMX	
D254			HSS104	DIODE	KPYMX	
D254-264			1SS133	DIODE	KPYMX	
D254-264			1N4148	DIODE	E	F
D256-264			HSS104	DIODE	X	
D256-264			1SS133	DIODE	X	
D257-264			HSS104	DIODE	KPYM	
D257-264			1SS133	DIODE	KPYM	
FL1	2A		CPF2232GR	FLUORESCENT INDICATOR TUBE		
FL1	2A		FIP8BRM7	FLUORESCENT INDICATOR TUBE		
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC21			UPD7538AC-045	IC(MICROPROCESSOR)		
Q1			2SC1923(R,0)	TRANSISTOR		
Q2		*	2SK364(GR, BL)	FET	E	F
Q3			JC501(P, Q)	TRANSISTOR	E	
Q3			2SC1740S(Q, R)	TRANSISTOR	KPYMX	
Q3			2SC945(A)(Q, P)	TRANSISTOR	KPYMX	
Q4			2SC1845(F, E)	TRANSISTOR	KPYMX	

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Q5 -7			JC501(P, Q)	TRANSISTOR	E	F
Q11 ,12			2SC1740S(Q, R)	TRANSISTOR	YM	
Q11 ,12			2SC945(A)(Q, P)	TRANSISTOR	YM	
Q101			JC501(P, Q)	TRANSISTOR	E	F
Q102-105			JA101(P, Q)	TRANSISTOR	E	F
Q102,103			2SA733(A)(Q, P)	TRANSISTOR	KPYMX	
Q102,103			2SA933S(Q, R)	TRANSISTOR	KPYMX	
Q106			JC501(P, Q)	TRANSISTOR	E	F
Q106			2SC1740S(Q, R)	TRANSISTOR	KPYMX	
Q106			2SC945(A)(Q, P)	TRANSISTOR	KPYMX	
Q107			JA101(P, Q)	TRANSISTOR	E	F
Q107			2SA733(A)(Q, P)	TRANSISTOR	KPYMX	
Q107			2SA933S(Q, R)	TRANSISTOR	KPYMX	
Q108,109			2SD1302(S, T)	TRANSISTOR	E	F
Q110			JC501(P, Q)	TRANSISTOR	E	F
Q110			2SC1740S(Q, R)	TRANSISTOR	KPYMX	
Q110			2SC945(A)(Q, P)	TRANSISTOR	KPYMX	
Q201			JC501(P, Q)	TRANSISTOR	E	F
Q201			2SC1740S(Q, R)	TRANSISTOR	KPYMX	
Q201			2SC945(A)(Q, P)	TRANSISTOR	KPYMX	
Q202			JA101(P, Q)	TRANSISTOR	E	F
Q202			2SA733(A)(Q, P)	TRANSISTOR	KPYMX	
Q202			2SA933S(Q, R)	TRANSISTOR	KPYMX	
Q203,204			2SD1266(Q, P)	TRANSISTOR	E	F
Q205			JA101(P, Q)	TRANSISTOR	E	F
Q205			2SA733(A)(Q, P)	TRANSISTOR	KPYMX	
Q205			2SA933S(Q, R)	TRANSISTOR	KPYMX	
Q206			JC501(P, Q)	TRANSISTOR	E	F
Q206			2SC1740S(Q, R)	TRANSISTOR	KPYMX	
Q206			2SC945(A)(Q, P)	TRANSISTOR	KPYMX	
Q207			2SA733(A)(Q, P)	TRANSISTOR	YM	
Q207			2SA933S(Q, R)	TRANSISTOR	YM	
Q251			JC501(P, Q)	TRANSISTOR	E	F
Q251			2SC1740S(Q, R)	TRANSISTOR	KPYMX	
Q251			2SC945(A)(Q, P)	TRANSISTOR	KPYMX	
Q252,253			JA101(P, Q)	TRANSISTOR	E	F
Q252,253			2SA733(A)(Q, P)	TRANSISTOR	KPYMX	
Q252,253			2SA933S(Q, R)	TRANSISTOR	KPYMX	
Q254			JC501(P, Q)	TRANSISTOR	E	F
Q254			2SC1740S(Q, R)	TRANSISTOR	KPYMX	
Q254			2SC945(A)(Q, P)	TRANSISTOR	KPYMX	
Q255			JA101(P, Q)	TRANSISTOR	E	F
Q255			2SA733(A)(Q, P)	TRANSISTOR	KPYMX	
Q255			2SA933S(Q, R)	TRANSISTOR	KPYMX	
DT1	2B		W02-1041-05	FM FRONT-END ASSY	E	F
DT1	2B		W02-1042-05	FM FRONT-END ASSY	KPYMX	
TUNER UNIT (X05-394X-XX: Singapore made)						
C1			CE04LW1H010M	ELECTRO	1.0UF	50WV
C2			CE04LW1C470M	ELECTRO	47UF	16WV
C3			CF92FV1H273J	MF	0.027UF	J
C4			CE04LW1H010M	ELECTRO	1.0UF	50WV
C5			CE04LW1C470M	ELECTRO	47UF	16WV
C6 ,7			CK45FF1H103Z	CERAMIC	0.010UF	Z
C8 ,9			CK45FF1H223Z	CERAMIC	0.022UF	Z

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C10			C91-0085-05	CERAMIC 0.022UF N	TE	
C11			CK45FF1H223Z	CERAMIC 0.022UF Z		
C12			CK45FF1H103Z	CERAMIC 0.010UF Z	TE	
C13 ,14			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C15			C91-0085-05	CERAMIC 0.022UF N	TE	
C16			C91-0769-05	CERAMIC 0.01UF M		
C17			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C18			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C19			C91-0085-05	CERAMIC 0.022UF N		
C20			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			C91-0085-05	CERAMIC 0.022UF N		
C23			CE04LW1V100M	ELECTRO 10UF 35WV		
C24			CK45FF1H223Z	CERAMIC 0.022UF Z		
C25			CF92FV1H153J	MF 0.015UF J		
C26			CE04LW1V100M	ELECTRO 10UF 35WV		
C27			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C28 -30			CK45FF1H103Z	CERAMIC 0.010UF Z		
C31			CC45FSL1H101J	CERAMIC 100PF J		
C32			CK45FF1H103Z	CERAMIC 0.010UF Z		
C33			CE04LW1V100M	ELECTRO 10UF 35WV		
C39			CC93FCH1H471J	CERAMIC 470PF J		
C40			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C41			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C42			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C43			CF92FV1H473J	MF 0.047UF J		
C44			CK45FB1H471K	CERAMIC 470PF K		
C45			C91-0769-05	CERAMIC 0.01UF M		
C46 ,47			CC45FSL1H151J	CERAMIC 150PF J	K	
C46 ,47			CK45FB1H102K	CERAMIC 1000PF K	TE	
C48			CE04LW1C101M	ELECTRO 100UF 16WV		
C49			CC45FSL1H221J	CERAMIC 220PF J	TE	
C50 ,51			CE04LW1HR33M	ELECTRO 0.33UF 50WV	K	
C50 ,51			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	TE	
C54 ,55			CF92FV1H223J	MF 0.022UF J	K	
C54 ,55			CF92FV1H472J	MF 4700PF J	TE	
C56			CK45FF1H103Z	CERAMIC 0.010UF Z		
C57			CE04LW1A470M	ELECTRO 47UF 10WV		
C58 ,59			CC45FCH1H220J	CERAMIC 22PF J		
C60 -62			CC45FSL1H101J	CERAMIC 100PF J		
C63			CK45FF1H103Z	CERAMIC 0.010UF Z		
C64 ,65			CE04LW1C220M	ELECTRO 22UF 16WV	TE	
C101			CE04LW1V100M	ELECTRO 10UF 35WV		
C102			CK45FF1H103Z	CERAMIC 0.010UF Z		
C201,202			CK45FF1H103Z	CERAMIC 0.010UF Z		
C203			CE04LW1E101M	ELECTRO 100UF 25WV		
C204			CE04LW1E102M	ELECTRO 1000UF 25WV		
C205			C90-1400-05	NP-ELEC 10UF 50WV		
C206			CE04LW1V100M	ELECTRO 10UF 35WV		
C207			CE04LW1E221M	ELECTRO 220UF 25WV		
C208			CE04LW1C221M	ELECTRO 220UF 16WV		
C209			CE04LW1V100M	ELECTRO 10UF 35WV		
C210			CE04LW1C470M	ELECTRO 47UF 16WV		
C211			CE04DWOJ102M	ELECTRO 1000UF 6.3WV		

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 Y: AAFES(Europe) X: Australia
 KT-59 : K,P,Y,M,X type
 KT-1020L : T,E type
 △ indicates safety critical components.

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
C212			CK45FB1H102K	CERAMIC 1000PF K		
C213			CC45FSL1H221J	CERAMIC 220PF J		
C214			CK45FF1H473Z	CERAMIC 0.047UF Z		
C251			CE04LW1H2R2M	ELECTRO 2.2UF 50WV	TE	
C251,252			CE04LW1H010M	ELECTRO 1.0UF 50WV	K	
C252			CE04LW1H010M	ELECTRO 1.0UF 50WV	TE	
C253,254			CC45FSL1H331J	CERAMIC 330PF J		
C255			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C256			CE04LW0J222M	ELECTRO 2200UF 6.3WV		
C257			CE04LW1V100M	ELECTRO 10UF 35WV		
E1	2B		E20-0321-05	LOCK TERMINAL BOARD (ANTENNA)	TE	
E1	2B		E20-0476-05	LOCK TERMINAL BOARD (ANTENNA)	K	
E2	1B		E13-0235-05	PHONE JACK (2P) (OUT PUT)		
E3	1B		E11-0188-05	MINIATURE PHONE JACK		
CF1 ,2			L72-0531-05	CERAMIC FILTER	K	
CF1 ,2			L72-0536-05	CERAMIC FILTER	TE	
CF3			L72-0096-05	CERAMIC FILTER		
L1			L40-1091-17	SMALL FIXED INDUCTOR	TE	
L2			L39-0192-05	COMBINATION COIL		
L3			L39-0195-05	COMBINATION COIL	TE	
L4			L30-0454-15	AM IFT		
L5			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L6			L30-0439-25	FM IFT	K	
L6			L30-0484-05	FM IFT	TE	
L9 ,10			L79-0790-05	LC FILTER	TE	
L11			L79-0125-05	LC FILTER	TE	
L12			L40-1091-17	SMALL FIXED INDUCTOR	K	
L14			L30-0485-05	FM IFT	TE	
L201			L40-1091-17	SMALL FIXED INDUCTOR		
△ T1	1B		L01-5832-15	POWER TRANSFORMER	TE	
△ T1	1B		L01-8641-05	POWER TRANSFORMER	K	
X1			L77-1122-05	CRYSTAL RESONATOR (7.2MHZ)		
X21			L78-0202-05	RESONATOR (400KHZ)		
R6			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R10			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R36			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R51			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R69			RD14GB2E220J	FL-PROOF RD 22 J 1/4W		
R205			R92-0173-05	RC 2.2M M 1/2W	K	
R213			RS14KB3A221J	FL-PROOF RS 220 J 1W		
R214			RS14KB3A821J	FL-PROOF RS 820 J 1W		
VR1			R12-3128-05	TRIM POT.22K (FM TUNE LEVEL)		
VR2			R12-1089-05	TRIM POT. 4.7K		
VR3			R12-5060-05	TRIM POT.220K (SEPARATION)	TE	
VR4			R12-1089-05	TRIM POT. 4.7K		
S201	2B		S40-1064-05	PUSH SWITCH	K	
S201-220	2A, 2B		S40-1064-05	PUSH SWITCH	TE	
S203-220	2A, 2B		S40-1064-05	PUSH SWITCH	K	
D1 -6			HSS104	DIODE	TE	
D1 -6			1SS133	DIODE	TE	
D1 ,2			HSS104	DIODE	K	
D1 ,2			1SS133	DIODE	K	
D11 ,12			HSS104	DIODE		

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PARTS LIST

SPECIFICATIONS

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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
Q201			2SC1740S(Q, R)	TRANSISTOR		
Q201			2SC945(A)(Q, P)	TRANSISTOR		
Q202			2SA733(A)(Q, P)	TRANSISTOR		
Q202			2SA933S(Q, R)	TRANSISTOR		
Q203, 204			2SD1266(Q, P)	TRANSISTOR		
Q205			2SA733(A)(Q, P)	TRANSISTOR		
Q205			2SA933S(Q, R)	TRANSISTOR		
Q206			2SC1740S(Q, R)	TRANSISTOR		
Q206			2SC945(A)(Q, P)	TRANSISTOR		
Q251			2SC1740S(Q, R)	TRANSISTOR		
Q251			2SC945(A)(Q, P)	TRANSISTOR		
Q252, 253			2SA733(A)(Q, P)	TRANSISTOR		
Q252, 253			2SA933S(Q, R)	TRANSISTOR		
Q254			2SC1740S(Q, R)	TRANSISTOR		
Q254			2SC945(A)(Q, P)	TRANSISTOR		
Q255			2SA733(A)(Q, P)	TRANSISTOR		
Q255			2SA933S(Q, R)	TRANSISTOR		
DT1	2B		W02-1041-05	FM FRONT-END ASSY	TE	
DT1	2B		W02-1042-05	FM FRONT-END ASSY	K	

KT-59

FM tuner section

Tuning frequency range 87.5 MHz - 108 MHz
 Usable sensitivity (MONO) 0.95 μ V/10.8 dBf
 Total harmonic distortion (at 1 kHz 65 dBf input)
 MONO 0.4 %
 STEREO 0.5 %
 Signal to noise ratio (at 1 kHz, 65 dBf input)
 MONO 78 dB
 STEREO 73 dB
 Stereo separation
 1 kHz 40 dB
 Alternate channel selectivity (\pm 400 kHz) 50 dB
 Frequency response
 (30 Hz - 15 kHz) +0.5 dB, -2 dB
 Output level/Impedance
 (at 1 kHz, 75 kHz dev.) 0.6 V/3.3 k Ω

AM tuner section

Tuning frequency range
 9 kHz step 531 kHz - 1,602 kHz
 10 kHz step 530 kHz - 1,610 kHz
 Usable sensitivity 11 μ V/(280 μ V/m)
 Signal to noise ratio
 (at 30% mod. 1mV input) 50 dB
 Total harmonic distortion 0.5 %
 Output level/Impedance
 (at 30% mod. 1mV input) 0.18 V/3.3 k Ω

General

Power consumption 8 W
 Dimensions W: 440 mm (17-5/16")
 H: 74 mm (2-15/16")
 D: 267 mm (10-1/2")
 Weight (Net) 2.5 kg (5.5 lb)

KT-1020L

FM tuner section

Tuning frequency range 87.5 MHz - 108 MHz
 Usable sensitivity (DIN)
 MONO 0.6 μ V
 STEREO 22 μ V
 Total harmonic distortion (DIN at 1 kHz 65.2 dBf input)
 MONO 0.15 %
 STEREO 0.4 %
 Signal to noise ratio (DIN weighted at 1 kHz, 65.2 dBf input)
 MONO 68 dB
 STEREO 63 dB
 Stereo separation (DIN)
 1 kHz 40 dB

Alternate channel selectivity

(DIN \pm 300 kHz) 64 dB

Frequency response

(30 Hz - 15 kHz) +0.5 dB, -2 dB

Output level/Impedance

(at 1 kHz, 75 kHz dev.) 0.6 V/3.3 k Ω

MW tuner section

Tuning frequency range 531 kHz - 1,602 kHz
 Usable sensitivity 13 μ V/(400 μ V/m)
 Signal to noise ratio
 (at 30% mod. 1mV input) 50 dB
 Total harmonic distortion 0.5 %

LW tuner section

Tuning frequency range 153 kHz - 281 kHz
 Usable sensitivity 22 μ V
 Signal to noise ratio
 (at 30% mod. 1mV input) 47 dB
 Total harmonic distortion 0.6 %
 Output level/Impedance
 (at 30% mod. 1mV input) 0.18V/3.3k Ω

General

Power consumption 8 W
 Dimensions W: 440 mm
 H: 78 mm
 D: 267 mm
 Weight (Net) 2.5 kg

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

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) 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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