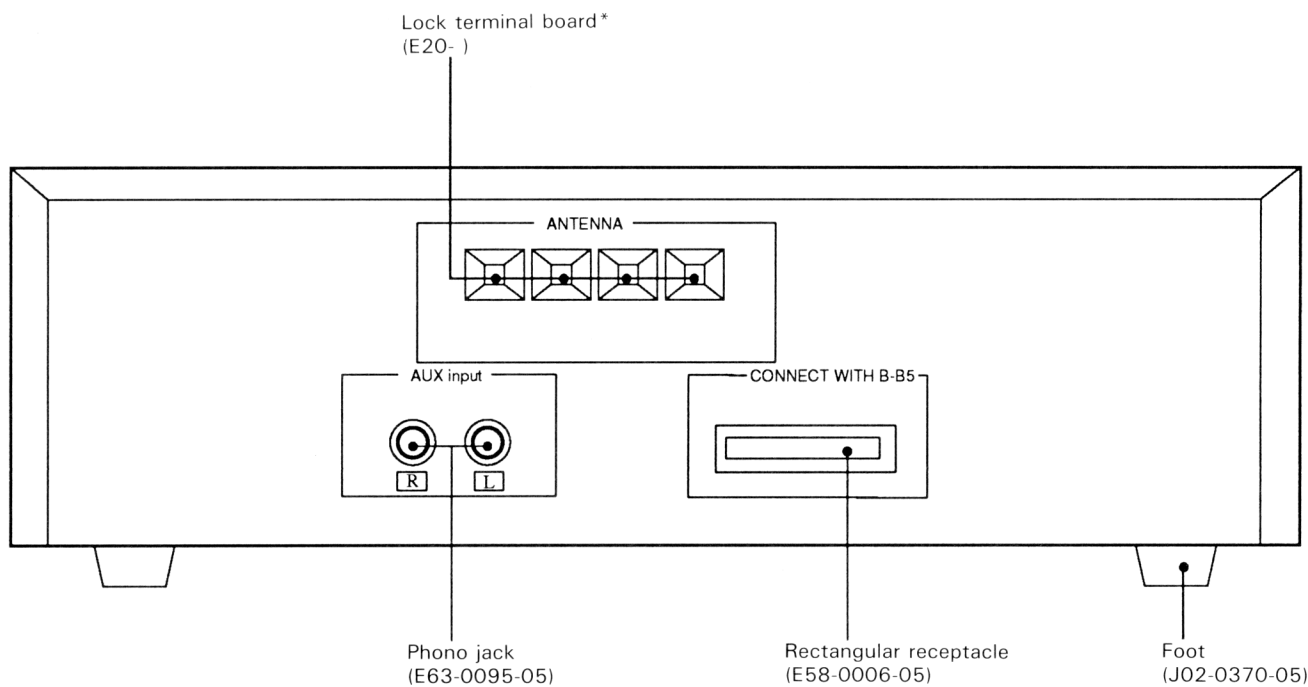
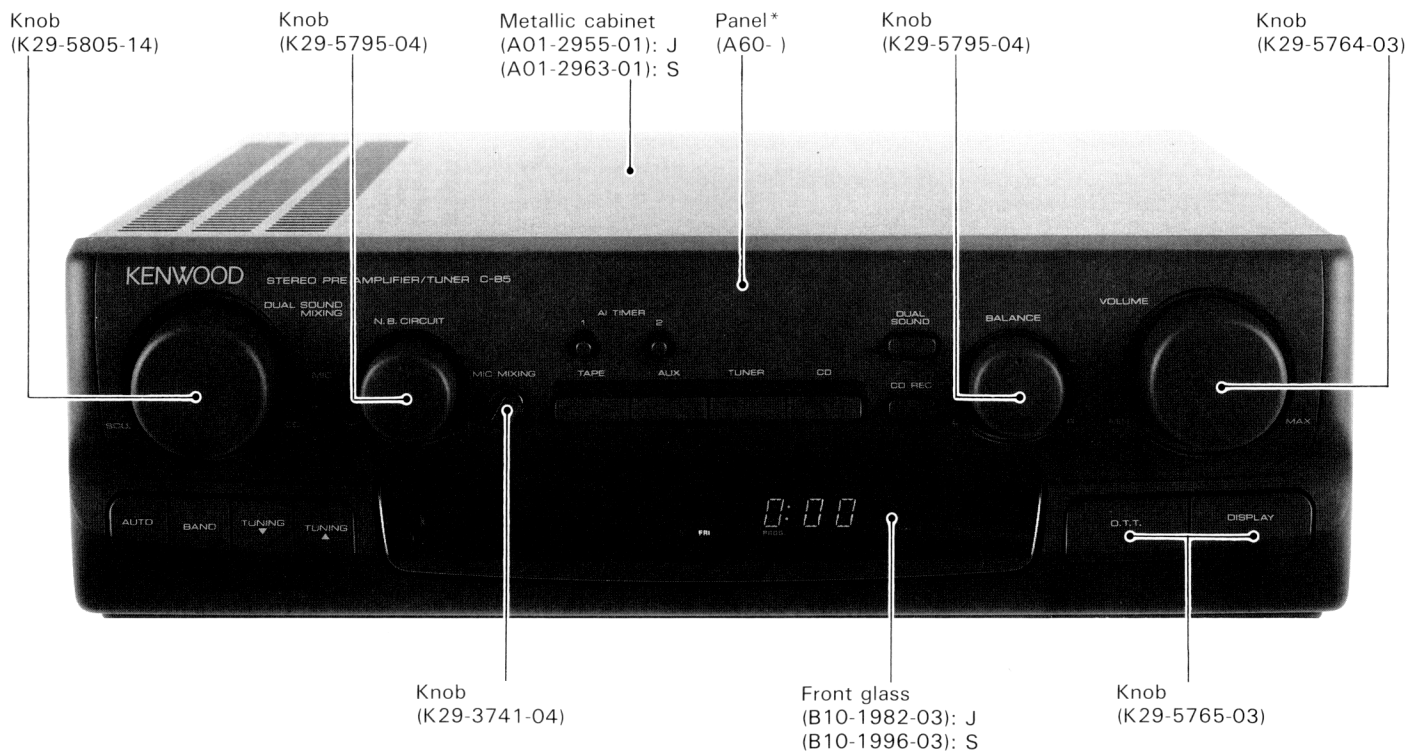


C-B5/L

SERVICE MANUAL



* Refer to parts list on page 24.

CONTENTS

REMOTE CONTROL UNIT	3	PC BOARD(Component side view)	12
CIRCUIT DESCRIPTION	4	SCHEMATIC DIAGRAM	15
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REGLAGE	9	PARTS LIST	24
ABGLEICH	10	ACCESSORIES	BACK COVER
WIRING DIAGRAM	11	SPECIFICATIONS	BACK COVER

INSTRUCTION MANUAL

B60-1251-00	ENGLISH	
B60-1252-00	FRENCH	P
B60-1253-00	SPANISH	ME
B60-1254-00	ARABIC	M
B60-1255-00	CHINESE	M
B60-1256-00	GERMAN	E
B60-1257-00	DUTCH	E
B60-1258-00	ITALIAN	E

REMOTE CONTROL UNIT

REMOTE CONTROL UNIT (X94-1050-51)

BATTERY COVER (F07-0721-23)

INPUT key

Selects the source component to be reproduced.

OFF key

Cancels presence mode.

PRESENCE key

Turns on and selects the presence mode.

SLEEP timer key

A/B switch

Keys in the hatched sections can be used in two ways according to the setting of this switch.

POWER key

Tuner operation keys

BAND key, P.CALL key.

CD player operation keys

◀◀ and ▶▶ keys, ■ key, ▶/|| key.

DUAL SOUND key

Used to play in environmental sound mode.

CD player operation keys

P.OPEN/CLOSE key, DISC SELECTOR key(1 to 6,P), P.MODE key, EDIT MODE key, REPEAT key, RANDOM key, CHECK key, CLEAR key

Super woofer operation keys

S.W.POWER key, S.W.EFFECT key, S.W.VOL key

Cassette deck operation keys

To control deck A, set the A/B switch to A. (The ● and || keys are not effective with this position.)

To control deck B, set the A/B switch to B.

Numeric/day-of-the-week keys

When the CD input is selected, these keys function as the numeric keys of the CD player.

When the TUNER input is selected, these keys function as the numeric keys of the tuner.

These keys function as the day-of-the-week keys when making timer operation reservation.

VOLUME CONTROL keys

These keys adjust the volume. Operating these keys rotates the VOLUME control knob on the main unit. During the rotation, the indicator on the knob blinks at a high rate.

MUTE key

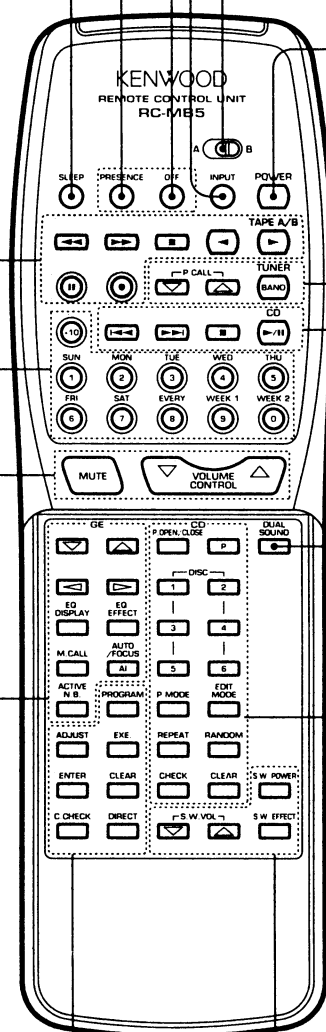
Press to interrupt sound temporarily.

Graphic equalizer operation keys

△▽◀▶ keys, EQ. DISPLAY key, EQ.EFFECT key, M.CALL key, AI AUTO/ FOCUS key, ACTIVE N. B. key

Timer operation keys

PROGRAM key, ADJUST key, EXE. key, ENTER key, CLEAR key, C. CHECK key, DIRECT key



* With the UD-501, the 1 to 6, P and P.OPEN/CLOSE keys are not effective.

CIRCUIT DESCRIPTION

1. TEST MODE

1.1 KEY TEST BY MEANS OF THE MAIN UNIT

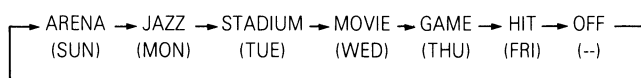
- (1) Setting method
 - Plug the power cord into the AC electrical outlet while pressing the CD KEY.
- (2) Cancellation method
 - The test mode set at the beginning is cancelled when the power cord is unplugged from the AC electrical outlet.
- (3) Contents
 - ① Automatic POWER ON
The POWER turns necessarily ON, and all functions are initialized when the power cord is plugged in the AC electrical outlet while pressing the CD KEY.
 - ② ALL LIT mode
ALI FL and all LED light up without fail when the power cord is plugged into the AC electrical outlet while pressing the CD KEY. After that, the equipment switches to the ordinary indication mode when any key of the main unit is operated.
 - ③ Checking the circuit by means of the main unit keys
 - a. Motorized volume operation
The motorized volume is tuned

UP/DOWN for 16 seconds when the OTT KEY is operated.

- b. PRESET CH. UP/DOWN operation can be carried out by operating the TUNING UP/DOWN key when the INPUT SELECTOR is the TUNER.

d. Switching the PRESENCE MODE

The PRESENCE MODE is switched according to the following cycle by pressing the AI 2 KEY.



1.2 INITIAL SETTING

- (1) Setting method
Plug the power cord into the AC electrical outlet while pressing the TUNER KEY.
- (2) Contents
The internal conditions of the equipment are set in the initial state.

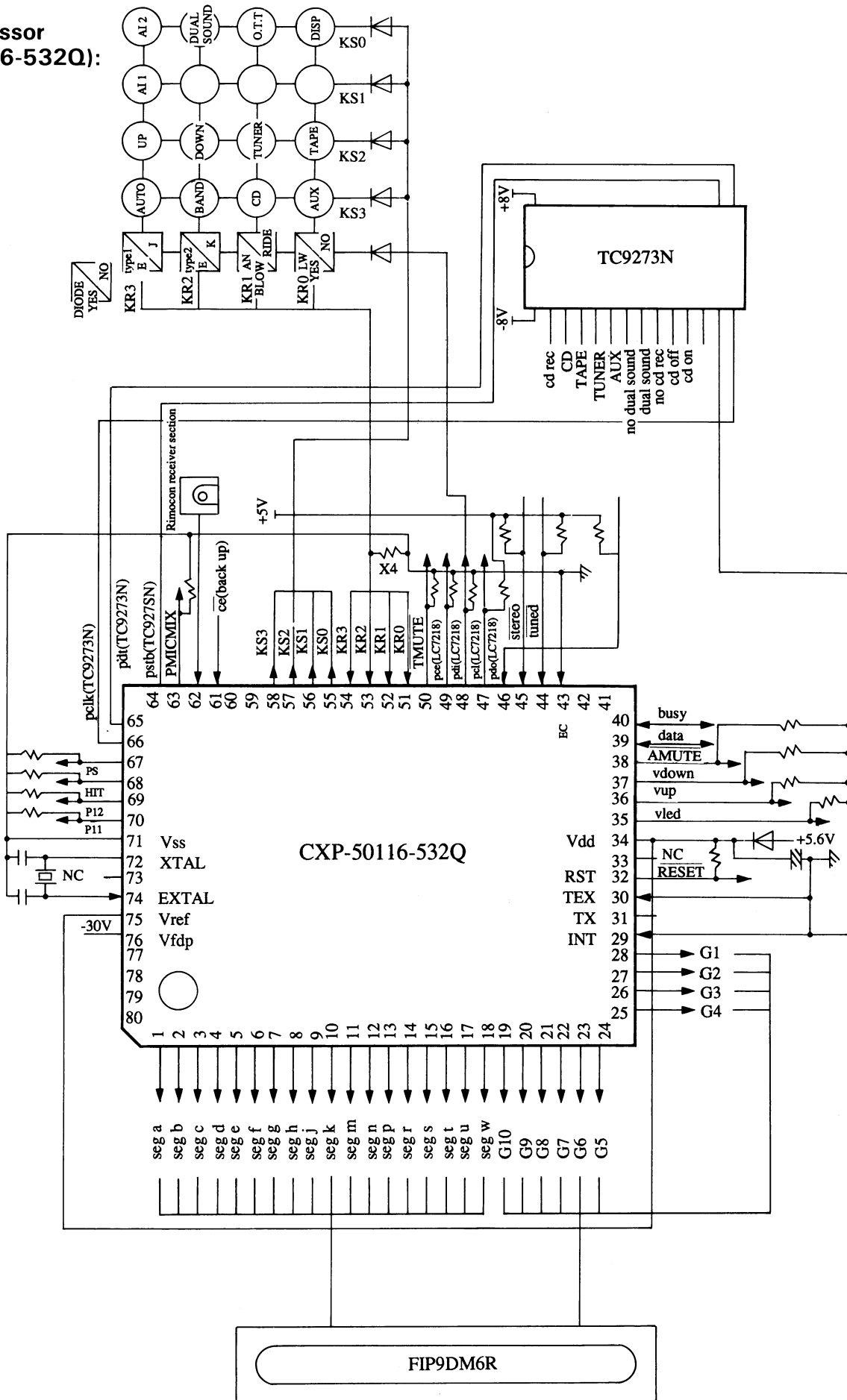
2. Conditions according on the destination area and the model

LC7218 DATA TABLE

Receiving band	Destination area	Destination area SW KRET 3 2 1 0	Receiving frequency band	Channel space	Ref frequency	L. Osc frequency	PLL input terminal	PL port OUT 0 1 2 3 4 5 6
FM	J	0 0 0 0	76.0MHz ~ 90.0MHz	100kHz	25kHz	- 10.7MHz	FMIN Internal prescaler 1/2	m i H L H H H
	E	1 1 0 0	87.5MHz ~ 108.0MHz	50kHz	25kHz	+ 10.7MHz		
	K	1 0 0 0		100kHz				
AM	J	0 0 0 0	531kHz ~ 1602kHz	9kHz	9kHz	+ 450kHz	AMIN	m i H H L H H
	E	1 1 0 0						
	K1	1 0 1 0	530kHz ~ 1610kHz	10kHz	10kHz			
	K2	1 0 0 0	530kHz ~ 1700kHz					
LW	E	1 1 0 1	153kHz ~ 279kHz	9kHz	9kHz	+ 450kHz	AMIN	m i H H H L H

CIRCUIT DESCRIPTION

**Microprocessor
(CXP-50116-532Q):
(X11 : IC50)**



CIRCUIT DESCRIPTION

Pin Description

PIN	PIN NAME	I/O	NAME	DESCRIPTION
1	s4/pg0	O	segment A	Fluorescent character display tube segment
2	s5/pg1	O	segment B	
3	s6g/pg2	O	segment C	
4	s7/pg3	O	segment D	
5	s8/pk0	O	segment E	
6	s9/pk1	O	segment F	
7	s10/pk2	O	segment G	
8	s11/pk3	O	segment H	
9	s12/pj0	O	segment J	
10	s13/pj1	O	segment K	
11	s14/pj2	O	segment M	
12	s15/pj3	O	segment N	
13	s16/t15	O	segment P	
14	s17/t14	O	segment R	
15	s18/t13	O	segment S	
16	s19/t12	O	segment T	
17	s20/t11	O	segment U	
18	s21/t10	O	segment W	
19	s22/t9	O	grid 10	Fluorescent character display tube grid
20	s23/t8	O	grid 9	
21	t7	O	grid 8	
22	t6	O	grid 7	
23	t5	O	grid 6	
24	t4	O	grid 5	
25	t3	O	grid 4	
26	t2	O	grid 3	
27	t1	O	grid 2	
28	t0	O	grid 1	
29	int	O	no use	Unused Handling: Connect with Vss
30	tx	—	no use	Unused Handling: Open
31	tex	I	no use	Unused Handling: Connect with Vss
32	rst	I/O	reset	Reset terminal
33	nc	—	non conect	Unused Handling: Open
34	vdd	—	vdd	+ 5V application termianl
35	pi0/ad0	O	vled	Volume LED
36	pi1/ad1	O	vup	Volume UP terminal
37	pi2/ad2	O	vdown	Volume DOWN terminal
38	pi3/ad3	O	amute	Amp. mute (Active LOW)
39	pb0/ad4	I/O	data	Serial communication data terminal
40	pb1/ad5	I/O	busy	Serial communication busy terminal

CIRCUIT DESCRIPTION

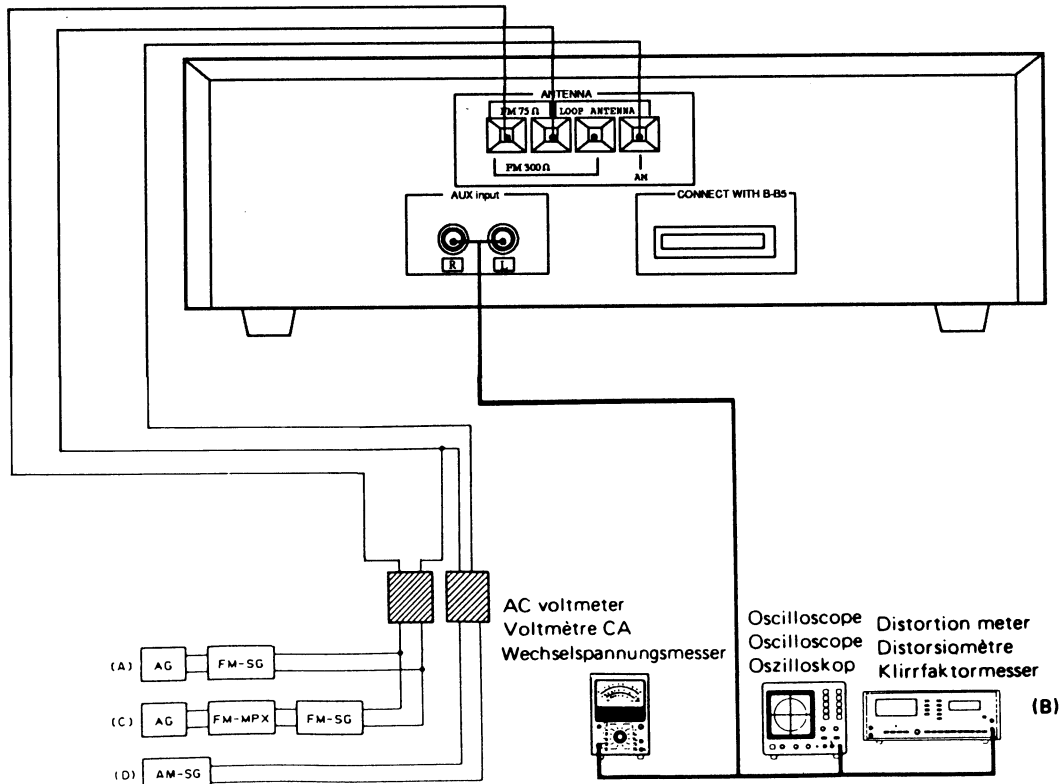
Pin Description

PIN	PIN NAME	I/O	NAME	DESCRIPTION
41	pb2/ad6	O	no use	Presence ON/OFF SW (1: Presence ON)
42	pb3/ad7	O	no use	Dolby ON/OFF SW (1: Dolby ON)
43	ec	—	ec	Unused Handline: Connect with Vss
44	px0/sc	I	tuned	SD detector terminal (Active LOW)
45	px1/so	I	stereo	ST detector terminal (Active LOW)
46	px2/si	I	pdo	PLL LC7218 DO terminal
47	pa0	O	pcl	PLL LC7218 CL terminal
48	pa1	O	pdi	PLL LC7218 DI terminal
49	pa2	O	pce	PLL LC7218 CE terminal
50	pa3	O	tmute	Tuner mute (Active LOW)
51	pf0	I	kr0	Key return line 0
52	pf1	I	kr1	Key return line 1
53	pf2	I	kr2	Key return line 2
54	pf3	I	kr3	Key return line 3
55	pe0	O	ks0	Key scan line 0
56	pe1	O	ks1	Key scan line 1
57	pe2	O	ks2	Key scan line 2
58	pe3	O	ks3	Key scan line 3
59	py0	O	no use	Unused Handling: Open
60	py1/pwm	O	no use	Unused Handling: Open
61	py2/wp	I	ce (back up)	Backup detector terminal (Active LOW)
62	py3/rmc	I	remain	Remote control detector terminal (Active LOW)
63	pd0	O	pmicmix	Microphone mixing SW (HIGH during recording)
64	pd1	O	pstb	Selector TC9273N strobe terminal
65	pd2	O	pdt	Selector TC9273N data terminal
66	pd3	O	pclk	Selector TC9273N clock terminal
67	pc0	O	ps	} Presence logic port
68	pc1	O	phit	
69	pc2	O	p12	
70	pc3	O	p11	
71	vss	—	vss	GND terminal
72	xtal	—	extal	Crystal oscillator 4.19MHz
73	nc	—	non conect	Unused Handling: Open
74	extal	—	extal	Crystal oscillator 4.19MHz
75	vref	—	vref	Connected the with power supply voltage detector reset reference voltage application termianl Vdd
76	vfdp	—	vfdp	Fluorescent character displauy crasing voltage application terminal (–30V)
77	so/ph0	O	no use	Unused Handling: Open
78	s1/ph1	O	no use	Unused Handling: Open
79	s2/ph2	O	no use	Unused Handling: Open
80	s3/ph3	O	no use	Unused Handling: Open

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION BAND : FM							
1	DISCRIMINATOR	(A) 98.0 MHz 1 kHz, ± 75 kHz dev 60 dB μ (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X05-)	AUTO or MONO 98.0 MHz	L3 (X05-)	0V	(a)
					L4 (X05-)	Minimum distortion.	
2	DISTORTION (STEREO)	(C) 98.0 MHz 1 kHz, ± 68.25 kHz dev Pilot: ± 7.5 kHz dev 60 dB μ (ANT input)	(B)	AUTO 98.0 MHz	IFT (W02-)	Minimum distortion.	
3	SEPARATION	(C) 98.0 MHz 1 kHz, ± 40 kHz dev Pilot: ± 6 kHz dev Selector: L or R 60 dB μ (ANT input)	(B)	AUTO 98.0 MHz	VR3 (X05-)	Minimum distortion.	
4	TUNING LEVEL	(A) 98.0 MHz 1 kHz, ± 75 kHz dev 14 dB μ (ANT input) 75 Ω 60 dB μ (ANT input) 300 Ω	(B)	AUTO or MONO 98.0 MHz	VR1 (X05-)	Adjust VR1 and stop at the point-where FL201(TUNED) goes ON.	
AM (MW) SELECTION BAND: AM(MW)							
(1)	TUNING LEVEL	(D) 1008 kHz 400 Hz, 30% mod 26 dB μ (ANT input)	(B)	1008 kHz	VR2 (X05-)	Adjust VR3 and stop at the point-where FL201(TUNED) goes ON.	

When the tuner PCB (X05-) is removed from the main unit, please be sure to connect the PCB's GND (ANT shield is not necessary) to the main unit chassis (an alligator clip is useful for this) and check the conductivity.



REGLAGE

N°	ITEM	REGLAGEE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF BAND : FM							
1	DISCRIMINATEUR	(A) 98.0 MHz 1 kHz, ±75kHz dév 60 dB μ (Entée ANT)	Relier un voltmètre CC entre les TP3 et TP4. (X05-)	AUTO ou MONO 98.0 MHz	L3 (X05-) L4 (X05-)	0V Distorsion minimale.	(a)
2	DISTORSION (STEREO)	(C) 98.0 MHz 1 kHz, ±68.25 kHz dév Signal pilot: ±7.5kHz dév 60 dB μ (Entrée ANT)	(B)	AUTO 98.0 MHz	IFT (W02-)	Distorsion minimale.	
3	SEPARATION	(C) 98.0 MHz 1 kHz, ±40 kHz dév Signal pilote: ±6kHz dév Selection: L ou R 60 dB μ (Entée ANT)	(B)	AUTO 98.0 MHz	VR3 (X05-)	Diaphonie minimale.	
4	NIVEAU D'ACCORDER	(A) 98.0 MHz 1 kHz, ±75 kHz dév 14 dB μ (Entée ANT) 75 Ω 60 dB μ (Entée ANT) 300 Ω	(B)	AUTO ou MONO 98.0 MHz	VR1 (X05-)	Aduster VR1 que FL1(TUNED) est non al lumé. Alors. ajuster VR2 et arrêter le mouvement de VR1 au moment où le FL1(TUNED)s' allume.	
SELECTION MA BAND: AM(MW)							
(1)	NIVEAU D'ACCORDER	(D) 1008 kHz 400 Hz, 30% mod 26 dB μ (Entée ANT)	(B)	1008 kHz	VR2 (X05-)	Aduster VR3 que FL1(TUNED) est non al lumé. Alors. ajuster VR2 et arrêter le mouvement de VR1 au moment où le FL1(TUNED)s' allume.	

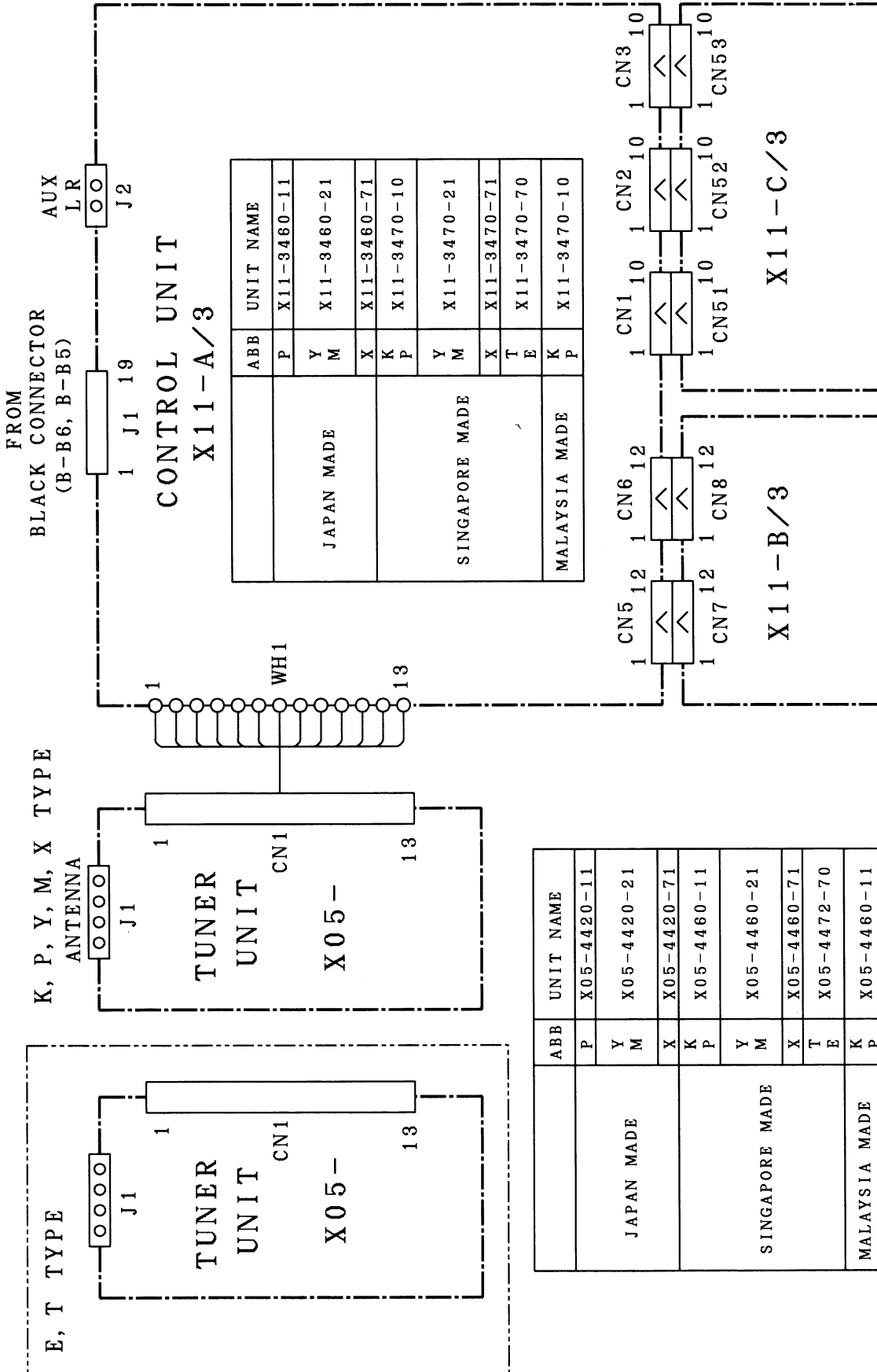
Lorsque la carte PCB du tuner (X05-) est retirée de l'unité principale, n'oubliez pas de connecter la masse GND de la carte PCB (un blindage ANT n'est pas nécessaire) au châssis de l'unité principale (une agrafe crocodile est utile pour cela) et vérifiez la conductivité.

ABGLEICH

NR.	gegestand	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	abb.
UKW-EMPFANGSABTEILUNG BAND : FM							
1	DISKRIMINATOR	(A) 98.0 MHz 1 kHz, ± 75 kHz Hub 60 dB μ (ANT-Eingang)	Einen Gleichspannungsmesser zwischen TP4 und TP3 anschließen. (X05-)	AUTO oder MONO 98.0 MHz	L3 (X05-) L4 (X05-)	0V Minimal klirrfactor.	(a)
2	KLIRRFACOR (STEREO)	(C) 98.0 MHz 1 kHz, ± 68.25 kHz Hub Piloten: ± 7.5 kHz Hub 60 dB μ (ANT-Eingang)	(B)	AUTO 98.0 MHz	IFT (W02-)	Minimal klirrfactor.	
3	SEPARATION	(C) 98.0 MHz 1 kHz, ± 40 kHz Hub Piloten: ± 6 kHz Hub Wähler: L oder R 60 dB μ (ANT-Eingang)	(B)	AUTO 98.0 MHz	VR3 (X05-)	Minimal klirrfactor.	
4	ABSTIMM PEGEL	(A) 98.0 MHz 1 kHz, ± 75 kHz Hub 14 dB μ (ANT-Eingang) 75 Ω 60 dB μ (ANT-Eingang) 300 Ω	(B)	AUTO oder MONO 98.0 MHz	VR1 (X05-)	Den pegel widerstand VR1 so einstellen. de β der FL1(TUNED) anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen und dem VR2 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	
SELECTION MA BAND: AM(MW)							
(1)	NIVEAU D'ACCORDER	(D) 1008 kHz 400 Hz, 30% mod 26 dB μ (Entée ANT)	(B)	1008 kHz	VR2 (X05-)	Den pegel widerstand VR1 so einstellen. de β der FL1(TUNED) anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen und dem VR3 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	

Wenn die Tuner-Platie (X05-) vom Hauptgerät entfernt wird, ist darauf zu achten, daß der Masseanschluß (GND) der Platine (ANT-Abschirmung ist nicht erforderlich) an das Gehäuse des Hauptgeräts angeschlossen (z.B. über Krokodilklemme) und die Konduktivität überprüft wird.

WIRING DIAGRAM



PC BOARD (Component side view)

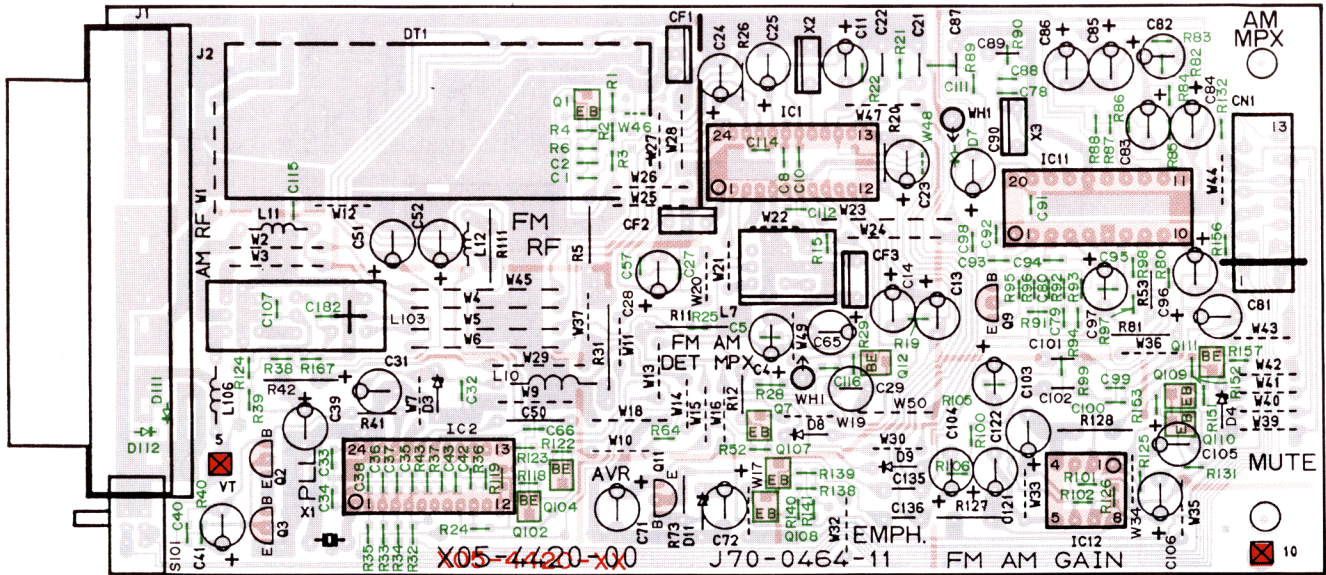
TUNER UNIT

C-B5 : X05-4420-00 (JAPAN MADE)

0-XX (JAPAN, MALAYSIA MADE)

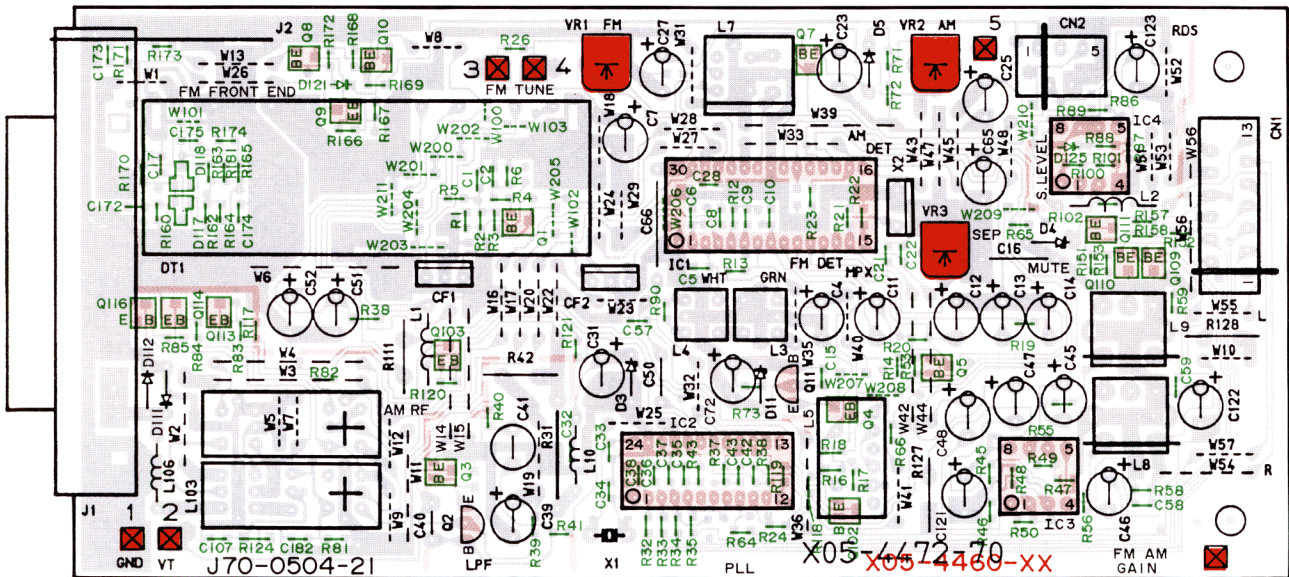
C-B5/L : X05-4460-XX (SINGAPORE MADE)

C-B5/L

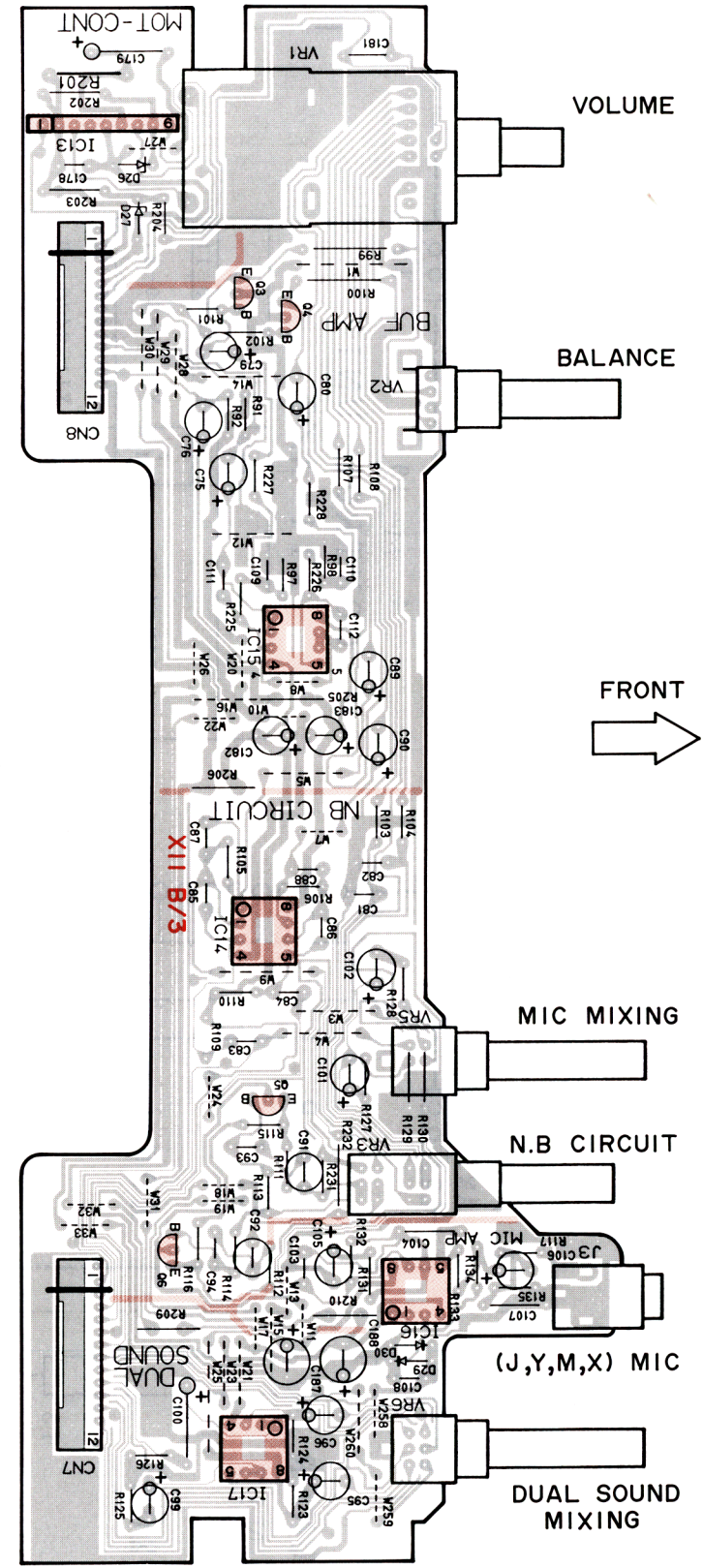
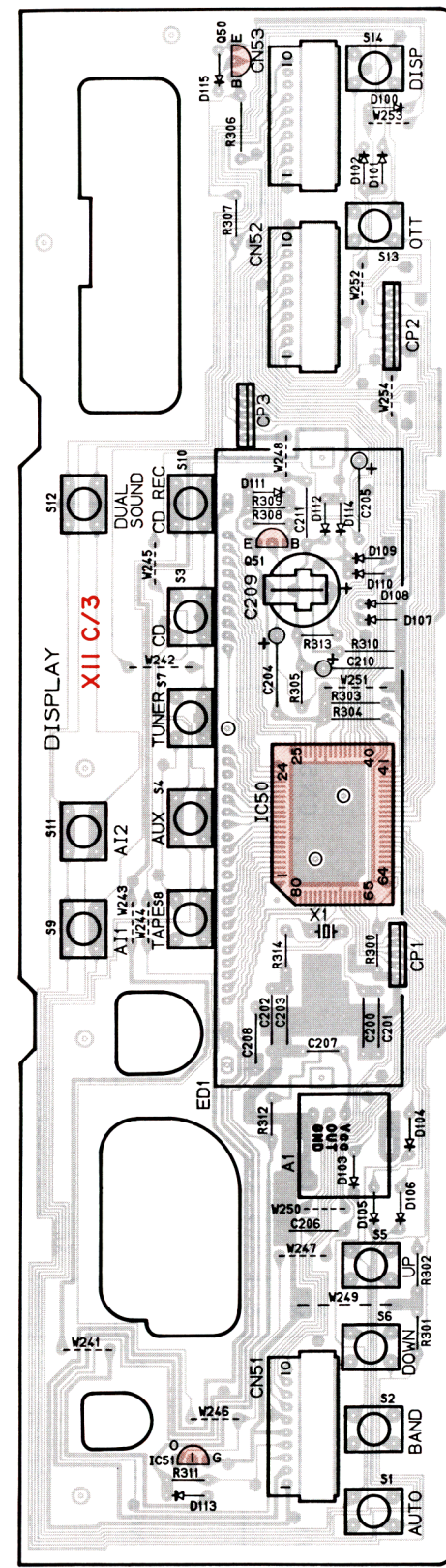
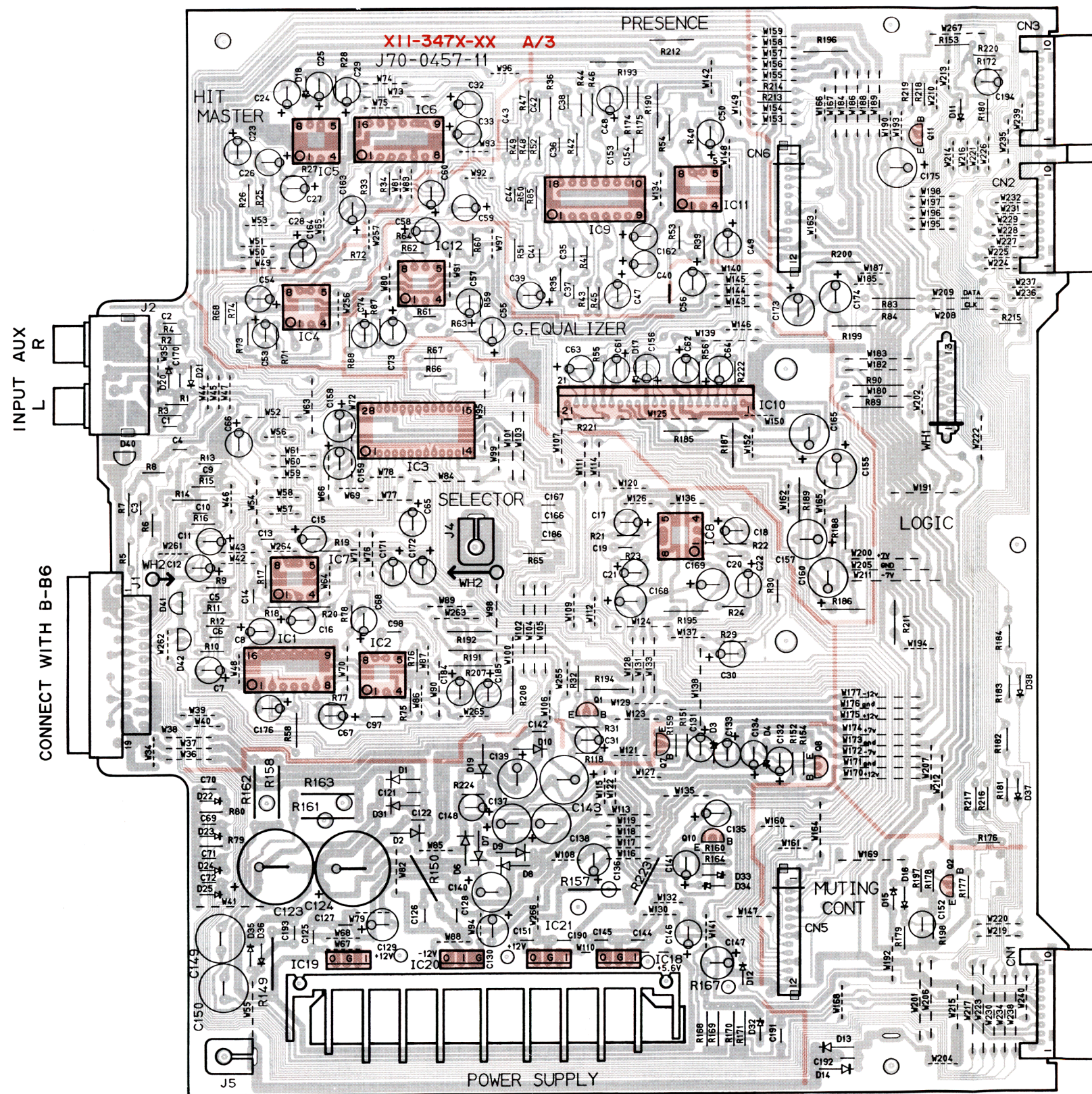


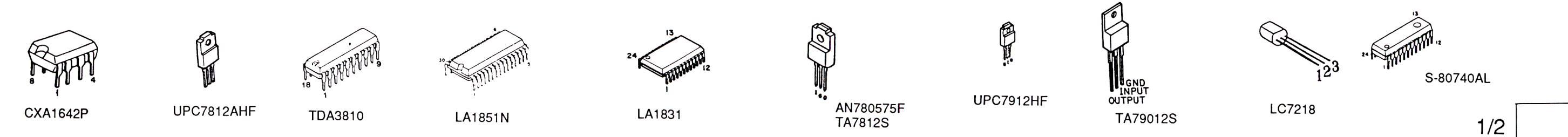
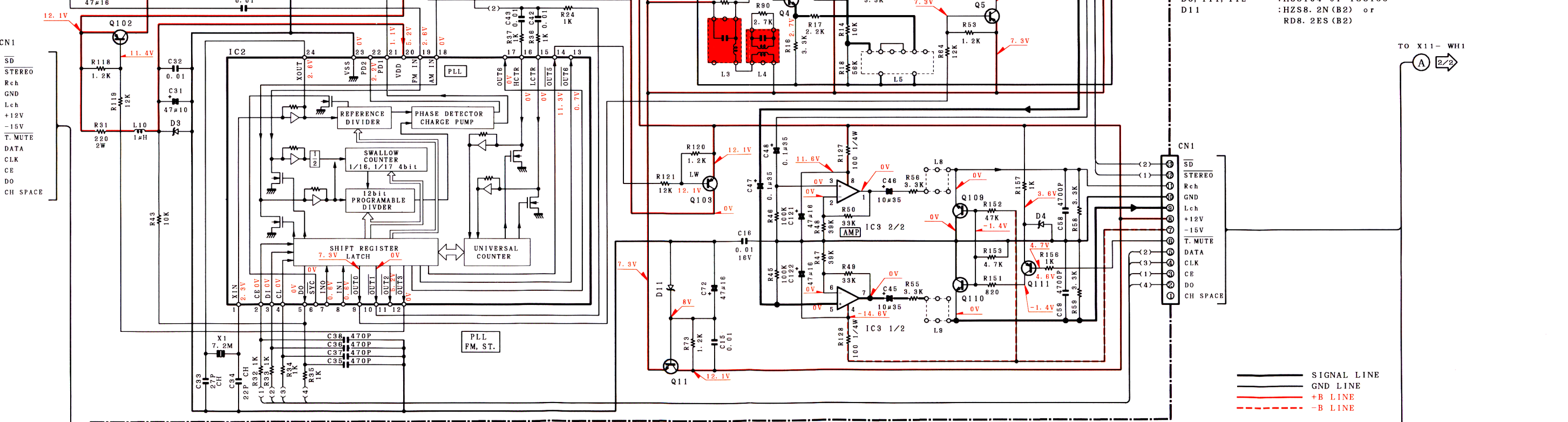
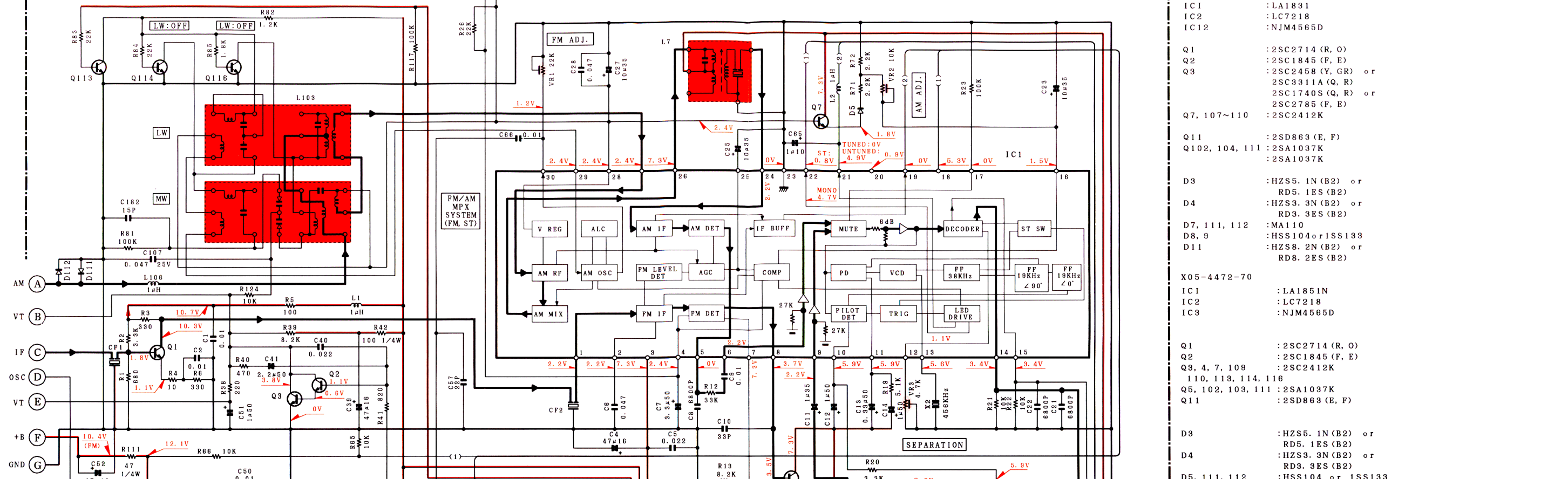
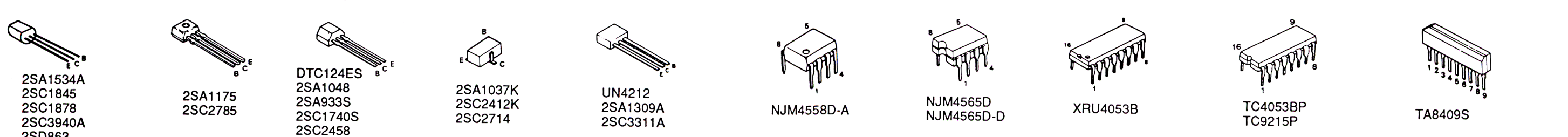
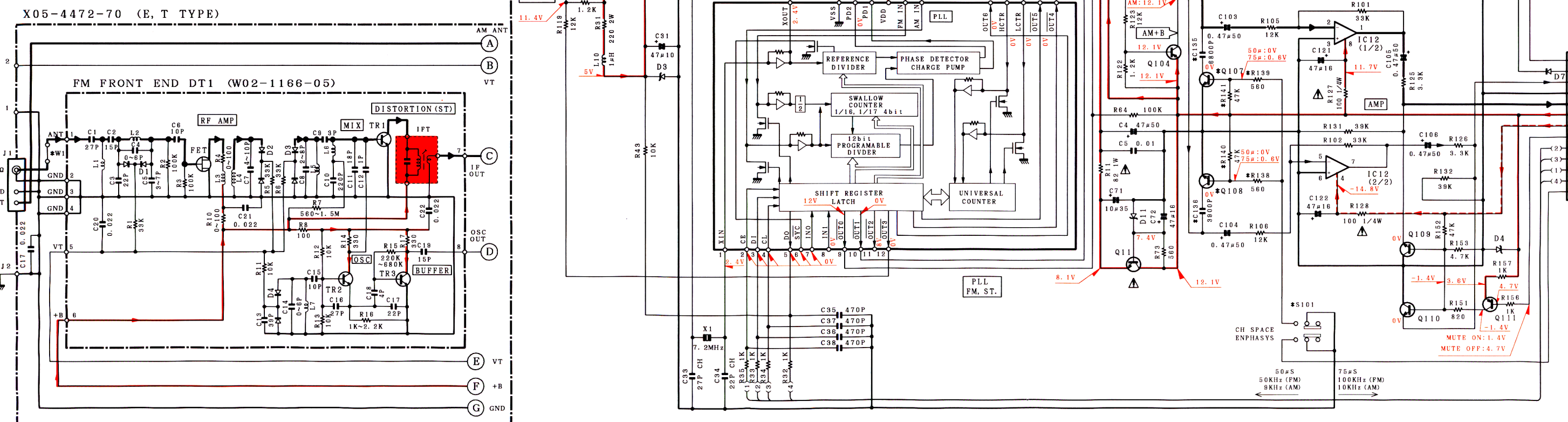
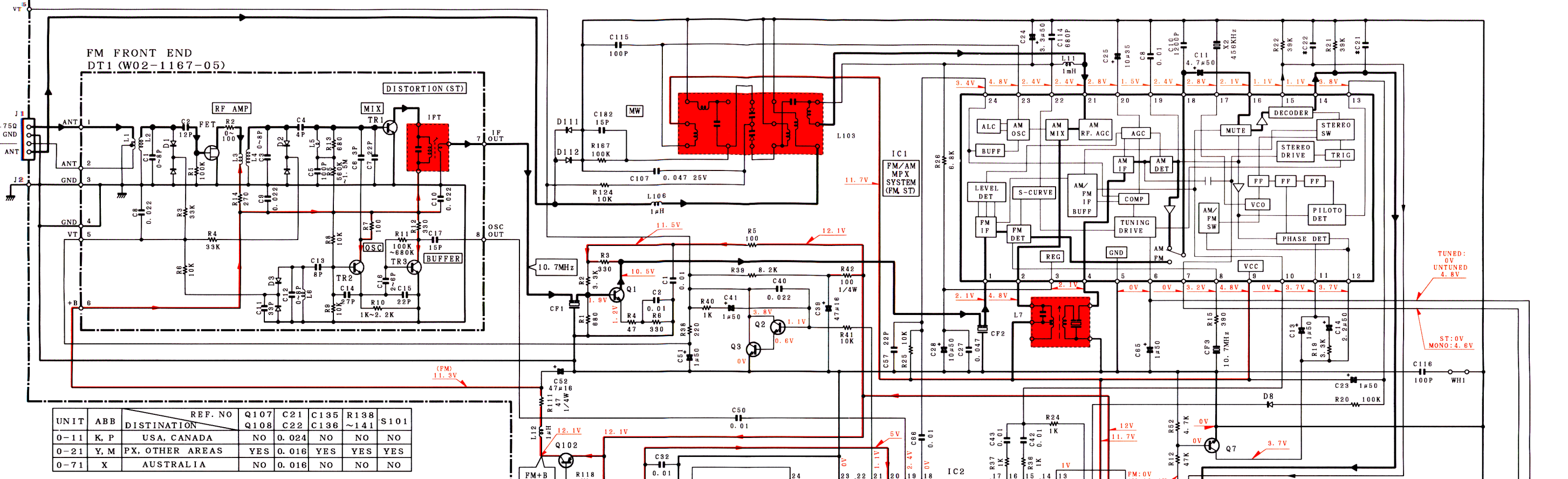
FRONT →

C-B5/L : X05-4472-70 (SINGAPORE MADE)



2
3
4
5
6
7

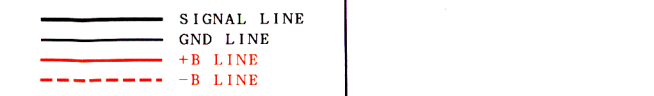


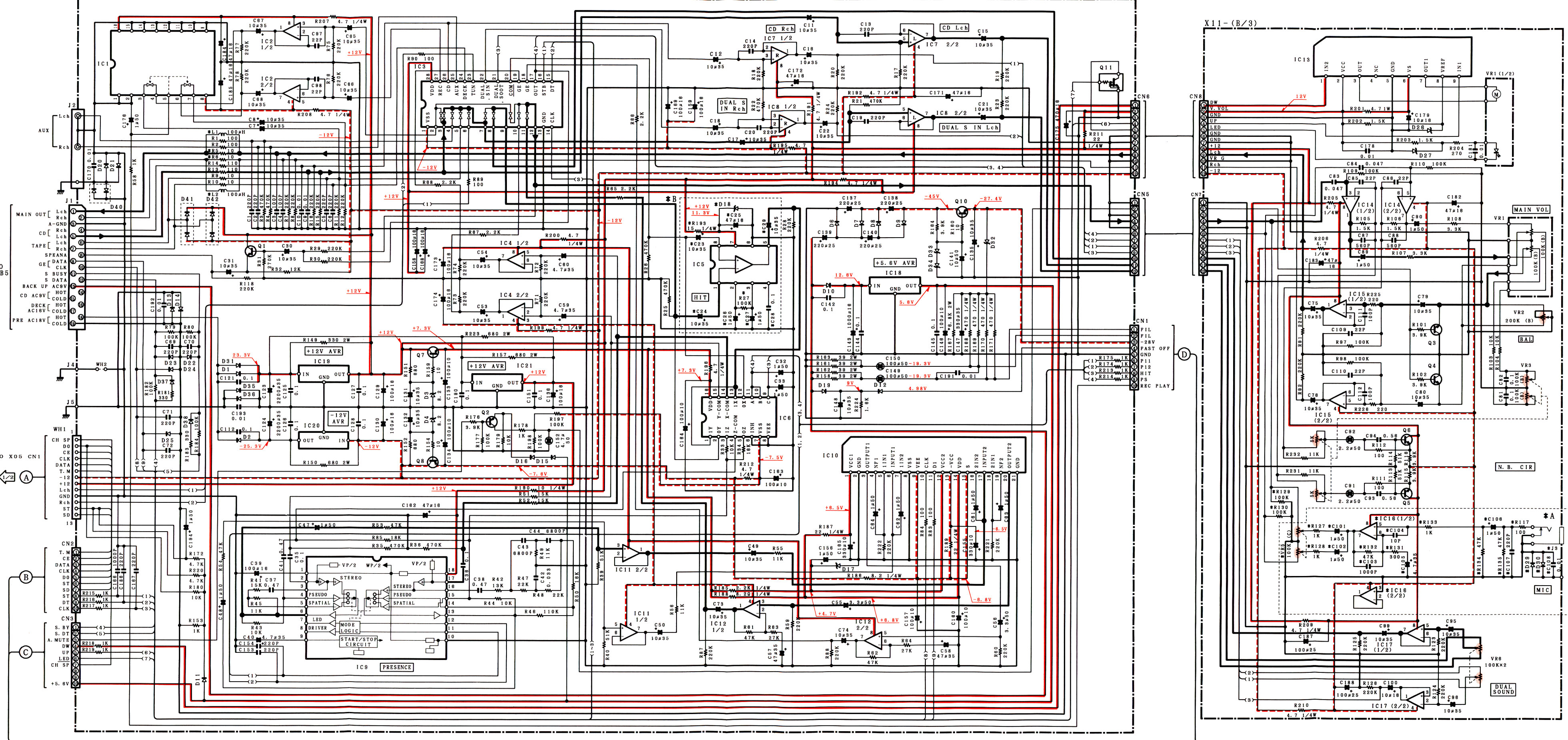


UNIT	ABB	DISTINATION	REF. NO	Q107	C21	C135	R138	S101
0-11	K, P	USA, CANADA	NO	0.024	NO	NO	NO	NO
0-21	Y, M	PX, OTHER AREAS	YES	0.016	YES	YES	YES	YES
0-71	X	AUSTRALIA	NO	0.016	NO	NO	NO	NO

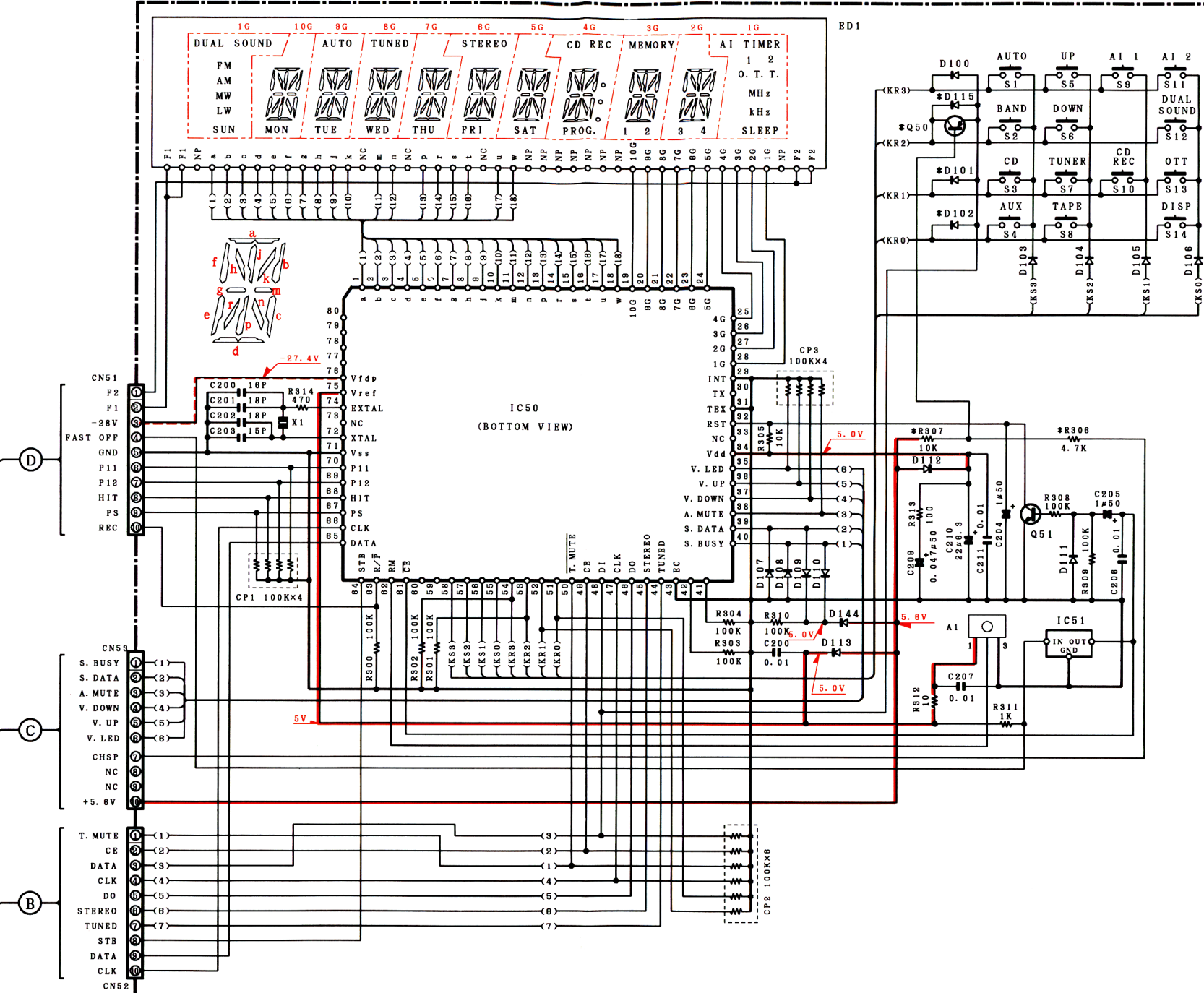
- IC1 : LA1891
- IC2 : LC7218
- IC12 : NJM4565D
- Q1 : 2SC2714 (R, O)
- Q2 : 2SC1845 (F, E)
- Q3 : 2SC2458 (V, GR) or 2SC3911A (Q, R) or 2SC1740S (Q, R) or 2SC2785 (F, E) or 2SC2412K
- Q7, 107-110 : 2SC2412K
- Q11 : 2SD863 (E, F)
- Q102, 104, 111 : 2SA1037K
- 2SA1037K
- D3 : HZ55, 1N (B2) or RD5, 1ES (B2)
- D4 : HZ53, 3N (B2) or RD3, 3ES (B2)
- D7, 111, 112 : MA110
- D8, 9 : HSS104 or ISS133
- D11 : HZ58, 2N (B2) or RD8, 2ES (B2)

- X05-4472-70
- IC1 : LA1851N
- IC2 : LC7218
- IC3 : NJM4565D
- Q1 : 2SC2714 (R, O)
- Q2 : 2SC1845 (F, E)
- Q3, 4, 7, 109 : 2SC2412K
- 110, 113, 114, 116 : 2SC2412K
- Q5, 102, 103, 111 : 2SA1037K
- Q11 : 2SD863 (E, F)
- D3 : HZ55, 1N (B2) or RD5, 1ES (B2)
- D4 : HZ53, 3N (B2) or RD3, 3ES (B2)
- D5, 111, 112 : HSS104 or ISS133
- D11 : HZ58, 2N (B2) or RD8, 2ES (B2)





X11-B/3



IC50 : CXP50118-532Q Q50 : 2SA1048 (Y, GR) or 2SA1309A (Q, R) (J MADE) Q51 : 2SC4038 (Q, R)
 IC51 : S-80740AL or MN181R (TA) 2SA933S (Q, R) or 2SA1175 (F, E) (S MADE) D100-115 : HSS104A or 1SS131
 ED1 : FIP9DM5R

COUNTRY	ABB	Ref. NO.	UNIT NAME	A	R129	R130	D101	D102	D115	Q50	R208, 207	R5, R6	L1, L2	JAPAN MADE		SINGAPORE MADE		MALAYSIA MADE		
														Y	M	X	Y	M	X	Y
CANADA	P	X11-3460-11		NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
AFES (EUROPE)	Y	X11-3460-21		YES	NO	YES	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO
PX (FAR EAST, HAWAII)	M	X11-3460-71		YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
OTHER AREAS	X	X11-3460-71		YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
USA	K	X11-3470-10		NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CANADA	P	X11-3470-10		NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
AFES (EUROPE)	Y	X11-3470-21		YES	NO	YES	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO
PX (FAR EAST, HAWAII)	M	X11-3470-21		YES	NO	YES	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO
OTHER AREAS	X	X11-3470-71		YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
USA	K	X11-3470-10		NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CANADA	P	X11-3470-10		NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

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.

PARTS LIST

UNIT LIST

Destination	TUNER UNIT	CONTROL UNIT	
JAPAN MADE	J	X05-4420-00	X11-3460-00
	P	X05-4420-11	X11-3460-11
	Y	X05-4420-21	X11-3460-21
	M	X05-4420-21	X11-3460-21
	X	X05-4420-71	X11-3460-71
SINGAPORE MADE	K	X05-4460-11	X11-3470-10
	P	X05-4460-11	X11-3470-10
	Y	X05-4460-21	X11-3470-21
	M	X05-4460-21	X11-3470-21
	X	X05-4460-71	X11-3470-71
	T	X05-4462-70	X11-3472-71
MALAYSIA MADE	K	X05-4460-11	X11-3470-10
	P	X05-4460-11	X11-3470-10

The parts without described for "W" in Malasian made same as Singapore made.

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考	NO.1
C-B5/L						
601	1A	*	A01-2955-01	METALLIC CABINET	J	
601	1A	*	A01-2963-01	METALLIC CABINET	J	
602	2A	*	A60-0438-21	PANEL	MXYP	
602	2A	*	A60-0439-21	PANEL	KP	
602	2A	*	A60-0468-21	PANEL	S	
602	2A	*	A60-0469-21	PANEL	MXYP	
602	2A	*	A60-0504-21	PANEL	TE	
605	1B	*	X94-1050-51	REMOTE CONTROL ASSY UNIT	S	
619	1B	*	F07-0721-23	BATTERY COVER	S	
609	2A	*	B01-0511-02	PANEL ESCUTCHEON	J	
609	2A	*	B01-0512-02	PANEL ESCUTCHEON	J	
610	2A	*	B10-1982-05	FRONT GLASS	J	
610	2A	*	B10-1996-05	FRONT GLASS	S	
-	-	-	B46-0094-03	WARRANTY CARD	Y	
-	-	-	B46-0095-03	WARRANTY CARD	Y	
-	-	-	B46-0096-33	WARRANTY CARD	X	
-	-	-	B46-0121-33	WARRANTY CARD	X	
-	-	*	B46-0307-13	WARRANTY CARD	K	
-	-	*	B46-0310-03	WARRANTY CARD	P	
-	-	*	B60-1251-00	INSTRUCTION MANUAL (ENGLISH)	TE	
-	-	*	B60-1252-00	INSTRUCTION MANUAL (FRENCH)	ME	
-	-	*	B60-1253-00	INSTRUCTION MANUAL (SPANISH)	M	
-	-	*	B60-1254-00	INSTRUCTION MANUAL (ARABIC)	M	
-	-	*	B60-1255-00	INSTRUCTION MANUAL (CHINESE)	M	
-	-	*	B60-1256-00	INSTRUCTION MANUAL (GERMAN)	E	
-	-	*	B60-1257-00	INSTRUCTION MANUAL (DUTCH)	E	
-	-	*	B60-1258-00	INSTRUCTION MANUAL (ITALIAN)	E	
615	1B	*	E03-0115-05	AC PLUG ADAPTER	M	
616	1A	*	E30-2738-05	CORD WITH CONNECTOR	M	
-	-	*	H50-0710-04	ITEM CARTON CASE	J	
-	-	*	H50-0711-04	ITEM CARTON CASE	S	
-	-	*	H50-0737-04	ITEM CARTON CASE	KPXY	
-	-	*	H50-0738-04	ITEM CARTON CASE	TE	
-	-	*	H50-0740-04	ITEM CARTON CASE	W	
-	-	*	H10-5541-02	POLYSTYRENE FOAMED FIXTURE L	J	
-	-	*	H10-5542-02	POLYSTYRENE FOAMED FIXTURE R	J	
-	-	*	H10-5566-02	POLYSTYRENE FOAMED FIXTURE L	S	
-	-	*	H10-5567-02	POLYSTYRENE FOAMED FIXTURE R	S	
-	-	*	H10-5579-02	POLYSTYRENE FOAMED FIXTURE L	W	
-	-	*	H10-5580-02	POLYSTYRENE FOAMED FIXTURE R	W	
-	-	*	H13-0039-04	CARTON BOARD	J	
-	-	*	H13-0086-04	CARTON BOARD	S	
-	-	*	H25-0632-24	PROTECTION BAG	S	
-	-	*	H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-	-	*	H25-0661-04	PROTECTION BAG	S	
620	2C	*	J02-0370-05	FOOT	M	
628	1B	*	J19-2815-04	ANTENNA HOLDER	KPXY	
629	1C	*	J19-3330-15	UNIT HOLDER	TE	
630	2A	*	K29-3741-04	KNOB MIC MIXING	W	
631	2A	*	K29-3764-05	KNOB VOLUME	W	
632	2A	*	K29-3765-05	KNOB 0.T.T.DISPLAY	S	

L:Canada
 Y:Far East, Hawaii
 Y:AFES(Europe)
 K:USA
 T:England
 X:Australia
 P:Canada
 E:Europe
 M:Other Areas
J: JAPAN MADE
S: SINGAPORE MADE
W: MALAYSIA MADE indicates safety critical components.

PARTS LIST

NO.3

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teil 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	Re- marks 備考
C66			CK73FB1H102K	CHIP C	KPMXY	J
C71			CE04KW1V100M	ELECTR0	KPMXY	S
C72			CE04LW1C470M	ELECTR0	KPMXY	S
C72			CE04LW1C470M	ELECTR0	KPMXY	S
C103-106			CE04KW1HR47M	ELECTR0	KPMXY	J
C103-106			CE04LW1HR47M	ELECTR0	KPMXY	S
C107			CK73FB1E473K	CHIP C	KPMXY	J
C112			CK73FSL1H101J	CHIP C	KPMXY	J
C114			CK73FB1H681K	CHIP C	KPMXY	J
C115-116			CC73FSL1H101J	CHIP C	KPMXY	J
C121,122			CE04KW1C470M	ELECTR0	KPMXY	S
C121,122			CE04LW1C470M	ELECTR0	KPMXY	S
C135,136			CF92FV1H682J	MF	KPMXY	J
C182			CC73FSL1H150J	CHIP C	KPMXY	J
J1			E20-0476-05	LOCK TERMINAL BOARD ANTENNA	KPMXY	
CF1,2			L72-0531-05	CERAMIC FILTER	KPMXY	
CF3			L72-0574-05	CERAMIC FILTER	KPMXY	
L7			L38-0467-05	AM IFT	KPMXY	
L10			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPMXY	
L11			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)	KPMXY	
L12			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPMXY	
L103			L39-1309-05	COMBINATION COIL	KPMXY	
L106			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPMXY	
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)	KPMXY	
X2			L78-0295-05	RESONATOR (19KHZ)	KPMXY	
R11			RS14KB3A820J	FL-PR00F RS 82	KPMXY	1W
R31			RS14KB3D221J	FL-PR00F RS 220	KPMXY	J 2W
R42			RD14NB2E101J	RD 100	KPMXY	J 1/4W
R111			RD14NB2E470J	RD 47	KPMXY	J 1/4W
R127,128			RD14NB2E101J	RD 100	KPMXY	J 1/4W
W46			R92-0670-05	CHIP R	KPMXY	
W48			R92-0670-05	CHIP R	KPMXY	
S101			S62-0034-05	SLIDE SWITCH DE EMPHASIS	MY	
D3			HZ55-1N(B2)	ZENER DIODE	KPMXY	
D3			RD5-1ES(B2)	ZENER DIODE	KPMXY	
D4			HZ53-3N(B2)	ZENER DIODE	KPMXY	
D7			RD3-3ES(B2)	ZENER DIODE	KPMXY	
D8,9			MA110	DIODE	KPMXY	
D8,9			HSS104	DIODE	KPMXY	
D11			TS137	DIODE	KPMXY	
D11			HZ56-2N(B2)	ZENER DIODE	KPMXY	
D11,112			RD8-2ES(B2)	ZENER DIODE	KPMXY	
MA110			MA110	DIODE	KPMXY	
IC1			LA1831	IC(AM/FM TUNER)	KPMXY	
IC2			IC7218	IC(PLL SYNTHESIZER)	KPMXY	
IC12			IC00 AMP X2	IC(OP AMP X2)	KPMXY	
Q1			NJ45650	TRANSISTOR	KPMXY	
Q2			2SC2714(R,0)	TRANSISTOR	KPMXY	
Q2			2SC1845(F,E)	TRANSISTOR	KPMXY	J
Q3			2SC1740S(Q,R)	TRANSISTOR	KPMXY	S
Q3			2SC2458(Y,GR)	TRANSISTOR	KPMXY	S
Q3			2SC2785(F,E)	TRANSISTOR	KPMXY	J
Q3			2SC3311A(Q,R)	TRANSISTOR	KPMXY	J

△ indicates safety critical components.

NO.2

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teil 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	Re- marks 備考
633	2A	*	K29-5795-04	KNOB N.B CIRCUIT,BALANCE	KPMXY	
634	2A	*	K29-5805-14	KNOB DUAL SOUND	KPMXY	
B	2B		N82-2608-46	BINDING HEAD TAPITTE SCREW	KPMXY	J
C	1A,2A		N89-3008-45	BINDING HEAD TAPITTE SCREW	KPMXY	S
D	1C,2C		N89-3008-46	BINDING HEAD TAPITTE SCREW	KPMXY	S
645	1B		T90-0173-05	L00P ANTENNA	KPMXY	J
645	1B		T90-0174-05	L00P ANTENNA	KPMXY	S
646	1B		T90-0175-05	T TYPE ANTENNA	KPMXY	J
646	1B		T90-0176-05	T TYPE ANTENNA	KPMXY	S
647	1A		T90-0185-05	ANTENNA ADAPT0R	TE	S
TUNER UNIT (X05-442X-XX)JAPAN MADE						
C1,2			CK73FB1H103K	CHIP C	KPMXY	
C4			CE04KW1A470M	ELECTR0	KPMXY	J
C4			CE04LW1A470M	ELECTR0	KPMXY	S
C5			CK73FB1H103K	CHIP C	KPMXY	J
C8			CK73FB1H103K	CHIP C	KPMXY	J
C10			CK73FB1H122K	CHIP C	KPMXY	J
C11			CE04KW1H487M	ELECTR0	KPMXY	S
C11			CE04LW1H487M	ELECTR0	KPMXY	S
C13			CE04KW1H010M	ELECTR0	KPMXY	J
C13			CE04LW1H010M	ELECTR0	KPMXY	S
C14			CE04KW1H2R2M	ELECTR0	KPMXY	J
C14			CE04LW1H2R2M	ELECTR0	KPMXY	S
C21,22			CF92FV1H163J	MF	KPMXY	J
C21,22			CF92FV1H243J	MF	KPMXY	J
C23			CE04KW1H010M	ELECTR0	KPMXY	J
C23			CE04LW1H010M	ELECTR0	KPMXY	S
C24			CE04KW1H3R3M	ELECTR0	KPMXY	J
C24			CE04LW1H3R3M	ELECTR0	KPMXY	S
C25			CE04KW1V100M	ELECTR0	KPMXY	J
C25			CE04LW1V100M	ELECTR0	KPMXY	S
C27			CK73FB1E473K	CHIP C	KPMXY	J
C28			CE04KW1V100M	ELECTR0	KPMXY	J
C28			CE04LW1V100M	ELECTR0	KPMXY	S
C31			CE04KW1A470M	ELECTR0	KPMXY	J
C31			CE04LW1A470M	ELECTR0	KPMXY	S
C32			CK73FB1H103K	CHIP C	KPMXY	J
C33			CK73FB1H270J	CHIP C	KPMXY	J
C34			CK73FB1H220J	CHIP C	KPMXY	J
C35-38			CK73FB1H471K	CHIP C	KPMXY	J
C39			CE04KW1C470R	ELECTR0	KPMXY	J
C39			CE04LW1C470M	ELECTR0	KPMXY	S
C40			CK73FB1H225K	CHIP C	KPMXY	J
C41			CE04KW1H010M	ELECTR0	KPMXY	J
C41			CE04LW1H010M	ELECTR0	KPMXY	S
C42,43			CK73FB1H103K	CHIP C	KPMXY	J
C50			C91-0769-05	CERAMIC	KPMXY	
C51			CE04KW1H010M	ELECTR0	KPMXY	J
C51			CE04LW1H010M	ELECTR0	KPMXY	S
C52			CE04KW1C470M	ELECTR0	KPMXY	J
C52			CE04LW1C470M	ELECTR0	KPMXY	S
C57			CC73FSL1H220J	CHIP C	KPMXY	J
C65			CE04KW1H010M	ELECTR0	KPMXY	J
C65			CE04LW1H010M	ELECTR0	KPMXY	S

△ indicates safety critical components.

J:JAPAN MADE
K:USA
P:Canada
S: SINGAPORE MADE
T:England
W: MALAYSIA MADE
X:Australia
M:Other Areas

The parts without described for "W" in Malaysia made same as Singapore made.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teil ohne Parts No. werden nicht geliefert.

NO. 4

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 向	Re- marks 備考
Q7			2SC2412K	TRANSISTOR	KPMXY	
Q11			2S0647E(F)	TRANSISTOR	KPMXY	
Q102			ZSA1037K	TRANSISTOR	KPMXY	
Q104			ZSA1037K	TRANSISTOR	MY	
Q107-110			ZSC2412K	TRANSISTOR	KPX	
Q109, 110			2SC2412K	TRANSISTOR	KPMXY	
Q111			ZSA1037K	TRANSISTOR	KPMXY	
DT1			W02-1167-05	FM FRONT-END ASSY	KPMXY	
TUNER UNIT (X05-447X-XX)						
C1 , 2			CK73FB1H103K	CHIP C	TE	S
C4			CE04LW10470M	ELECTRO	TE	S
C5			CK73FB1H223K	CHIP C	TE	S
C6			CK73FB1E473K	CHIP C	TE	S
C7			CE04LW1H3R3M	ELECTRO	TE	S
C8			CK73FB1H682K	CHIP C	TE	S
C9			CK73FB1H103K	CHIP C	TE	S
C10			CC73FSL1H330J	CHIP C	TE	S
C11			CE04LW1V100M	ELECTRO	TE	S
C12			CE04LW1H010M	ELECTRO	TE	S
C13			CE04LW1HR33M	ELECTRO	TE	S
C14			CE04LW1H010M	ELECTRO	TE	S
C15			CK73FB1H103K	CHIP C	TE	S
C16			C91-0769-05	CERAMIC	TE	S
C17			CK73FB1H223K	CHIP C	TE	S
C18			CK73FB1H682K	CHIP C	TE	S
C23			CE04LW1V100M	ELECTRO	TE	S
C24			CE04LW1V100M	ELECTRO	TE	S
C25			CE04LW1V100M	ELECTRO	TE	S
C27			CE04LW1V100M	ELECTRO	TE	S
C28			CK73FB1E473K	CHIP C	TE	S
C31			CE04LW1A470M	ELECTRO	TE	S
C32			CK73FB1H103K	CHIP C	TE	S
C33			CC73FCH1H270J	CHIP C	TE	S
C34			CC73FCH1H220J	CHIP C	TE	S
C35 - 38			CK73FB1H471K	CHIP C	TE	S
C39			CE04LW10470M	ELECTRO	TE	S
C40			C92FM1H223J	MYLAR	TE	S
C41			CE04HM1H2R2M	NP-ELEC	TE	S
C42 , 43			CK73FB1H103K	CHIP C	TE	S
C45 , 46			CE04LW1V100M	ELECTRO	TE	S
C47 , 48			CE04LW1HOR1M	ELECTRO	TE	S
C50			C91-0769-05	CERAMIC	TE	S
C51			CE04LW1H010M	ELECTRO	TE	S
C52			CE04LW10470M	ELECTRO	TE	S
C57			CC73FCH1H220J	CHIP C	TE	S
C58 , 59			CK73FB1H472K	CHIP C	TE	S
C65			CE04LW1H101M	ELECTRO	TE	S
C66			C91-0769-05	CERAMIC	TE	S
C72			CE04LW10470M	ELECTRO	TE	S
C107			CK73FB1E473K	CHIP C	TE	S
C121, 122			CE04LW10470M	ELECTRO	TE	S
C123			CE04LW1HOR1M	ELECTRO	TE	S
C182			CC73FSL1H150J	CHIP C	TE	S
J1			E20-0321-05	LOCK TERMINAL BOARD ANTENNA	TE	S

L:Scandinavia K:USA P:Canada
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X:Australia M:Other Areas

J: JAPAN MADE
S: SINGAPORE MADE
W: MALAYSIA MADE Δ indicates safety critical components.

NO. 5

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teil ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
OP1 , 2			L72-0536-05	CERAMIC FILTER	TE	S
L1			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE	S
L3			L30-0486-05	FM IFT	TE	S
L4			L30-0497-05	FM IFT	TE	S
L5			L79-0125-05	LC FILTER	TE	S
L7			L30-0467-05	AM IFT	TE	S
L8 , 9			L79-0790-05	LC FILTER	TE	S
L10			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE	S
L103			L39-1310-05	COMBINATION COIL	TE	S
L106			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE	S
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)	TE	S
X2			L78-0295-05	RESONATOR	TE	S
R31			RS14KB3D201J	FL-PROOF RS	TE	S
R42			RD14NB2E101J	RD	TE	S
R44			RD14NB2E470J	RD	TE	S
R111			RD14NB2E101J	RD	TE	S
R121, 128			R12-3686-05	TRIMMING POT.(22K)	TE	S
VR2			R12-3685-05	TRIMMING POT.(10K)	TE	S
VR3			R12-1619-05	TRIMMING POT.(4.7K)	TE	S
W101-103			R92-0670-05	CHIP R	TE	S
W200-207			R92-0679-05	CHIP R	TE	S
W211			R92-0679-05	CHIP R	TE	S
D3			HZ55.1K(B2)	ZENER DIODE	TE	S
D3			RD5.1ES(B2)	ZENER DIODE	TE	S
D4			HZ53.3K(B2)	ZENER DIODE	TE	S
D4			RD3.3ES(B2)	ZENER DIODE	TE	S
D5			HSS104	DIODE	TE	S
D5			1SS133	DIODE	TE	S
D11			HZ58.2K(B2)	ZENER DIODE	TE	S
D11, 112			RD8.2ES(B2)	ZENER DIODE	TE	S
D111, 112			HSS104	DIODE	TE	S
D111, 112			1SS133	DIODE	TE	S
TC1			LA1851N	IC(AM, FM TUNER)	TE	S
TC2			LC7218	IC(PLL SYNTHESIZER)	TE	S
TC3			NJM4565D	IC(OP AMP X2)	TE	S
Q1			2SC2714(R, 0)	TRANSISTOR	TE	S
Q2			2SC1645(F, E)	TRANSISTOR	TE	S
Q3 , 4			2SC2412K	TRANSISTOR	TE	S
Q5			ZSA1037K	TRANSISTOR	TE	S
Q7			ZSA1037K	TRANSISTOR	TE	S
Q11			ZSC2412K	TRANSISTOR	TE	S
Q102, 103			ZS06651E, F)	TRANSISTOR	TE	S
Q109, 110			2SC2412K	TRANSISTOR	TE	S
Q111			2SA1037K	TRANSISTOR	TE	S
Q113, 114			2SC2412K	TRANSISTOR	TE	S
Q116			2SC2412K	TRANSISTOR	TE	S
DT1			W02-1166-05	FM FRONT-END ASSY	TE	S
CONTROL UNIT(X11-346X-XX)						
C1 , 2			CC48FSL1H221J	CERAMIC	J	
C3			CC48FSL1H101J	CERAMIC	J	
C4			CC48FSL1H221J	CERAMIC	J	
C5 , 6			CE04KW1V100M	ELECTRO	J	
C7 , 8			CE04LW1V100M	ELECTRO	J	

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
X:Australia M:Other Areas

J: JAPAN MADE
S: SINGAPORE MADE
W: MALAYSIA MADE Δ indicates safety critical components.

PARTS LIST

NO. 7

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C91, 92			CE04HW1H2R2M	NP-ELEC 50WV		J
C91, 92			CE04HW1H2R2M	NP-ELEC 50WV		S
C93, 94			CF92FV1H564J	MF 0.56UF		J
C95, 96			CE04KW1V100M	ELECTR0 10UF 35WV		J
C95, 96			CE04LW1V100M	ELECTR0 10UF 35WV		S
C97, 98			CC45FSL1H220J	CERAMIC 22PF J		J
C99			CE04KW1V100M	ELECTR0 10UF 35WV		S
C99			CE04LW1V100M	ELECTR0 10UF 35WV		S
C100			C90-3504-05	ALUMINIUM ELECTROLYTIC C.		
C103			CC45FB1H102K	CERAMIC 1000PF K		MX
C104			C91-0721-05	CERAMIC 10PF J		MX
C105			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		MX
C105			CE04LW1V4R7M	ELECTR0 4.7UF 35WV		MX
C106			C90-3253-05	ELECTR0 1UF 35WV		MX
C107			C91-0749-05	CERAMIC 220PF K		MX
C108			CC45FF1H103Z	CERAMIC 0.010UF Z		
C109, 110			CC45FSL1H220J	MF 22PF J		J
C121, 122			CF92FV1H104J	MF 0.10UF J		J
C123, 124		*	C90-3309-05	ALUMINIUM ELECTROLYTIC C.		J
C125-128			CF92FV1H104J	MF 0.10UF J		S
C129, 130			C90-3281-05	ELECTR0 100UF 16WV		J
C131, 132			CE04KW1V100M	ELECTR0 10UF 35WV		S
C131, 132			CE04LW1V100M	ELECTR0 10UF 35WV		S
C133, 134			CE04KW1A101M	ELECTR0 100UF 10WV		J
C133, 134			CE04LW1A101M	ELECTR0 100UF 10WV		S
C135			CE04KW1V100M	ELECTR0 10UF 35WV		J
C135			CE04LW1V100M	ELECTR0 10UF 35WV		J
C136			CE04KW1C101M	ELECTR0 100UF 16WV		J
C136			CE04LW1C101M	ELECTR0 100UF 16WV		J
C137-140			CE04KW1E221M	ELECTR0 220UF 25WV		J
C137-140			CE04LW1E221M	ELECTR0 220UF 25WV		S
C141			CE04KW1H100M	ELECTR0 10UF 50WV		J
C141			CE04LW1H100M	ELECTR0 10UF 50WV		S
C142			CF92FV1H104J	MF 0.10UF J		J
C143			CE04KW1C102M	ELECTR0 1000UF 16WV		S
C143			CE04LW1C102M	ELECTR0 1000UF 16WV		S
C144, 145			CF92FV1H104J	MF 0.10UF J		J
C146			CE04KW1A101M	ELECTR0 100UF 10WV		J
C146			CE04LW1A101M	ELECTR0 100UF 10WV		S
C147			CE04KW1E221M	ELECTR0 220UF 25WV		J
C147			CE04LW1E221M	ELECTR0 220UF 25WV		S
C148			CE04KW1V100M	ELECTR0 10UF 35WV		J
C148			CE04LW1V100M	ELECTR0 10UF 35WV		S
C149, 150			CE04HW1H101M	NP-ELEC 50WV		J
C149, 150			CE04LW1H101M	NP-ELEC 50WV		S
C151			CF92FV1H104J	MF 0.10UF J		J
C151			CE04HW1H2R2M	NP-ELEC 50WV		J
C152, 154			CC45FSL1H220J	CERAMIC 220PF J		J
C155			CE04KW1A331M	ELECTR0 330UF 10WV		J
C155			CE04LW1A331M	ELECTR0 330UF 10WV		S
C156			CE04KW1H010M	ELECTR0 1.0UF 50WV		J
C156			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C157			CE04KW1A101M	ELECTR0 100UF 10WV		J
C157			CE04LW1A101M	ELECTR0 100UF 10WV		S
C158, 159			CE04KW1C101M	ELECTR0 1000UF 16WV		J

x New Parts
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J-JAPAN MADE
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W-MALAYSIA MADE

KUSA P-Canada
T:England E:Europe
X:Australia M:Other Areas

L:Scandinavia
Y:PX(Far East, Hawaii)
Y:AAFES(Europe)

indicates safety critical components.

NO. 6

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C9, 10			CF92FV1H102J	MF 1000PF		J
C11, 12			CE04KW1V100M	ELECTR0 10UF 35WV		S
C11, 12			CE04LW1V100M	ELECTR0 10UF 35WV		S
C13, 14			CC45FSL1H221J	CERAMIC 220PF J		J
C15-18			CE04KW1V100M	ELECTR0 10UF 35WV		J
C15-18			CE04LW1V100M	ELECTR0 10UF 35WV		S
C19, 20			CC45FSL1H221J	CERAMIC 220PF J		J
C21-24			CE04KW1V100M	ELECTR0 10UF 35WV		J
C21-24			CE04LW1V100M	ELECTR0 10UF 35WV		S
C21, 22			CE04KW1V100M	ELECTR0 10UF 35WV		J
C21, 22			CE04LW1V100M	ELECTR0 10UF 35WV		S
C25			CE04KW1C470M	ELECTR0 47UF 16WV		J
C25			CE04LW1C470M	ELECTR0 47UF 16WV		S
C28			CF92FV1H104J	MF 0.10UF J		J
C28			CE04KW1V100M	ELECTR0 10UF 35WV		J
C29-31			CE04KW1V100M	ELECTR0 10UF 35WV		J
C29-31			CE04LW1V100M	ELECTR0 10UF 35WV		S
C30, 31			CE04KW1V100M	ELECTR0 10UF 35WV		J
C30, 31			CE04LW1V100M	ELECTR0 10UF 35WV		S
C32, 33			CE04KW1H010M	ELECTR0 1.0UF 50WV		J
C32, 33			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C35, 36			CF92FV1H104J	MF 0.10UF J		J
C37, 38			CF92FV1H474J	MF 0.47UF J		J
C39			CE04KW1C101M	ELECTR0 100UF 16WV		J
C39			CE04LW1C101M	ELECTR0 100UF 16WV		S
C40			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		J
C40			CE04LW1V4R7M	ELECTR0 4.7UF 35WV		S
C41			CF92FV1H474J	MF 0.47UF J		J
C42			CF92FV1H333J	MF 0.33UF J		J
C43, 44			CF92FV1H682J	MF 6800PF J		J
C47, 48			CE04KW1H010M	ELECTR0 1.0UF 50WV		J
C47, 48			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C49, 50			CE04KW1V100M	ELECTR0 10UF 35WV		J
C49, 50			CE04LW1V100M	ELECTR0 10UF 35WV		S
C53, 54			CE04KW1V100M	ELECTR0 10UF 35WV		J
C53, 54			CE04LW1V100M	ELECTR0 10UF 35WV		S
C55, 56			CE04KW1H3R3M	ELECTR0 3.3UF 50WV		J
C55, 56			CE04LW1H3R3M	ELECTR0 3.3UF 50WV		S
C57, 58			CE04KW1C470M	ELECTR0 47UF 16WV		J
C57, 58			CE04LW1C470M	ELECTR0 47UF 16WV		S
C59, 60			CE04KW1V4R7M	ELECTR0 4.7UF 35WV		J
C59, 60			CE04LW1V4R7M	ELECTR0 4.7UF 35WV		S
C61-64			CE04KW1H010M	ELECTR0 1.0UF 50WV		J
C61-64			CE04LW1H010M	ELECTR0 1.0UF 50WV		S
C65-68			CE04KW1V100M	ELECTR0 10UF 35WV		J
C65-68			CE04LW1V100M	ELECTR0 10UF 35WV		S
C69-72			CC45FSL1H221J	CERAMIC 220PF J		J
C73-76			CE04KW1V100M	ELECTR0 10UF 35WV		J
C73-76			CE04LW1V100M	ELECTR0 10UF 35WV		S
C79, 80			CE04KW1V100M	ELECTR0 10UF 35WV		J
C79, 80			CE04LW1V100M	ELECTR0 10UF 35WV		S
C81, 82			CF92FV1H104J	MF 0.10UF J		J
C83, 84			CF92FV1H473J	MF 0.47UF J		J
C85, 86			CC45FSL1H220J	CERAMIC 22PF J		J
C87, 88			CF92FV1H561J	MYLAR 560PF J		J
C89, 90			CE04KW1H010M	ELECTR0 1.0UF 50WV		J
C89, 90			CE04LW1H010M	ELECTR0 1.0UF 50WV		S

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Y:AAFES(Europe)

indicates safety critical components.

PARTS LIST

NO.9

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R186			RD14NB2E892J	RD		
R187			RD14NB2E220J	RD	J 1/4W	
R188			RD14NB2E682J	RD	J 1/4W	
R189			RD14NB2E220J	RD	J 1/4W	
R190			RD14NB2E100J	RD	J 1/4W	
R191, 192			RD14NB2E4R7J	RD	4.7 J 1/4W	
R193			RD14NB2E150J	RD	15 J 1/4W	
R194-196			RD14NB2E4R7J	RD	4.7 J 1/4W	
R199, 200			RD14NB2E4R7J	RD	4.7 J 1/4W	
R201			RS14KB3A4R7J	FL-PR00F RS	4.7 J 1W	
R205-210			RD14NB2E4R7J	RD	4.7 J 1/4W	
R211			RD14NB2E220J	RD	22 J 1/4W	
R212			RD14NB2E4R7J	RD	4.7 J 1/4W	
R223			RS14KB3D681J	FL-PR00F RS	680 J 2W	
VR1			R29-5050-05	VARIABLE RESISTOR	VOLUME	
VR2			R05-5058-05	POTENTIOMETER	BALANCE	
VR3			R11-9024-05	POTENTIOMETER	N.B CIRCUIT	
VR5			R10-5068-05	POTENTIOMETER	MIC MIXING	
VR6			R10-5069-05	POTENTIOMETER	DUAL SOUND	
S1			S40-1064-05	PUSH SWITCH	KEY BOARD	
D1			S5688B	DIODE		
D1			1SR139-100	DIODE		
D3			HZS8.2N(B2)	ZENER DIODE		
D3			R08.2ES(B2)	ZENER DIODE		
D6			S5688B	DIODE		
D6			1SR139-100	DIODE		
D11			HSS104A	DIODE		
D11			1SS131	DIODE		
D17			HZS5.1N(B2)	ZENER DIODE		
D17			HZS5.1ES(B2)	ZENER DIODE		
D18			HZS11N(B2)	ZENER DIODE		
D18			RD11ES(B2)	ZENER DIODE		
D19			S5688B	DIODE		
D19			1SR139-100	DIODE		
D20			HSS104A	DIODE		
D20			1SS131	DIODE		
D26			HZS3.9N(B2)	ZENER DIODE		
D26			RD3.9ES(B2)	ZENER DIODE		
D27			HZS3.3N(B2)	ZENER DIODE		
D27			RD3.3ES(B2)	ZENER DIODE		
D29			HSS104A	DIODE		
D29			1SS131	DIODE		
D31			S5688B	DIODE		
D31			1SR139-100	DIODE		
D32			HZS8.2N(B2)	ZENER DIODE		
D32			RD8.2ES(B2)	ZENER DIODE		
D33			HZS13N(B2)	ZENER DIODE		
D33			RD13ES(B2)	ZENER DIODE		
D34			HZS15N(B)	ZENER DIODE		
D34			RD15ES(B)	ZENER DIODE		
D35			HSS104A	DIODE		
D35			1SS131	DIODE		
D40			MA177	DIODE		
D100			HSS104A	DIODE		

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NO.8

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C158, 159			CE04LW1C101M	ELECTR0	16WV	S
C160			CE04KW1A101M	ELECTR0	100UF	J
C160			CE04LW1A101M	ELECTR0	100UF	S
C162			CE04KW1C470M	ELECTR0	47UF	J
C162			CE04LW1C470M	ELECTR0	47UF	S
C163, 164			CE04KW1A101M	ELECTR0	100UF	J
C163, 164			CE04LW1A101M	ELECTR0	100UF	S
C165			CE04KW1A331M	ELECTR0	330UF	J
C165			CE04LW1A331M	ELECTR0	330UF	S
C166			CK45FB1H102K	CERAMIC	1000PF	
C167			CC45FSL1H221J	CERAMIC	220PF	
C168, 169			CE04KW1C101M	ELECTR0	100UF	J
C168, 169			CE04LW1C101M	ELECTR0	100UF	S
C170			CK45FF1H103Z	CERAMIC	0.010UF	
C171, 172			CE04KW1C470M	ELECTR0	47UF	J
C171, 172			CE04LW1C470M	ELECTR0	47UF	S
C173, 174			CE04KW1C101M	ELECTR0	100UF	J
C173, 174			CE04LW1C101M	ELECTR0	100UF	S
C175, 176			CE04DW1C471M	ELECTR0	470UF	J
C175, 176			CE04EW1C471M	ELECTR0	470UF	S
C176			CE04KW1H010M	ELECTR0	1.0UF	J
C176			CE04LW1H010M	ELECTR0	1.0UF	S
C177			CK45FF1H103Z	CERAMIC	0.010UF	
C178			C90-3504-05	ALUMINIUM ELECTROLYTIC C.		
C181			C91-0769-05	CERAMIC	0.010UF	
C182-185			CE04KW1C470M	ELECTR0	47UF	J
C182-185			CE04LW1C470M	ELECTR0	47UF	S
C186			CC45FSL1H221J	CERAMIC	220PF	
C187, 188			CE04KW1C101M	ELECTR0	100UF	J
C187, 188			CE04LW1C101M	ELECTR0	100UF	S
C190			CF92FV1H104J	MF	0.10UF	
C191-193			CK45FF1H103Z	CERAMIC	0.010UF	
C200		*	C91-1240-05	CERAMIC	16PF	
C201, 202		*	C91-1241-05	CERAMIC	20PF	
C203		*	C91-1240-05	CERAMIC	16PF	
C204, 205			C90-3505-05	ALUMINIUM ELECTROLYTIC C.		
C206-208			C91-0769-05	CERAMIC	0.01UF	
C209			C90-1827-05	BACKUP	0.047F	
C210			C90-3503-05	ALUMINIUM ELECTROLYTIC C.	5.5WV	
C211			C91-0769-05	CERAMIC	0.01UF	
T1			F58-0006-05	RECTANGULAR RECEPTACLE	OUTSIDE	
T2			E63-0095-05	PHONE JACK	AUX INPUT	
T3			E11-0220-05	MINIATURE PHONE JACK	MIC	
X1			L77-1176-05	CRYSTAL RESONATOR	4.1943MHZ	
CP1			R90-0482-05	MULTI-COMP	100KX4	J 1/6W
CP2			R90-0500-05	MULTI-COMP	100KX6	J 1/4W
CP3			R90-0482-05	MULTI-COMP	100KX4	J 1/6W
R149			RS14KB30331J	FL-PR00F RS	330	J 2W
R150			RS14KB30681J	FL-PR00F RS	680	J 2W
R157			RS14KB30681J	FL-PR00F RS	680	J 2W
R158			RS14KB30390J	FL-PR00F RS	39	J 2W
R161-163			RS14KB30390J	FL-PR00F RS	39	J 2W
R167			RS14KB30682JTE	FL-PR00F RS	6.8K	J 2W
R185			RD14NB2E222J	RD	2.2K	J 1/4W

J-JAPAN MADE
S-SINGAPORE MADE
W-MALAYSIA MADE
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NO.10

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 向	Re- marks 備考
D100		1S5131	D100E	KPXTE	
D100,101		H5S104A	D100E	MY	
D100,101		1S5131	D100E	MY	
D102-115		H5S104A	D100E	TE	S
D102-115		1S5131	D100E	TE	S
D103-114		H5S104A	D100E	KPMY	
D103-114		1S5131	D100E	KPMY	
D103-115		H5S104A	D100E	X	
D103-115		1S5131	D100E	X	
ED1		FP19DM6R	INDICATOR TUBE		
IC1		TC9215P	IC(ANALOG SWITCH X 6)		
IC2		NJM4565D-D	IC(OP AMP X2)		
IC3		XRA15218-DX	IC(OP AMP X2)		
IC3		TC9273N-003	CUSTOM IC		
IC4		NJM4565D-D	IC(OP AMP X2)		
IC4		XRA15218-DX	IC(OP AMP X2)		
IC5		CXA1642P	IC(KARAOKE VOCAL CANCEL)		
IC6		TC4053BP	IC(3-INPUT ZCH MPX/DE-MPX)		
IC6		XRU4053B	IC(ANALOG MULTIPLEXER)		
IC7 ,8		NJM4565D-D	IC(OP AMP X2)		
IC7 ,8		XRA15218-DX	IC(OP AMP X2)	MYX	
IC9		TDA3810	IC(PSEUDO STEREO CIRCUIT)		
IC10		STK301-090	CUSTOM IC		
IC11,12		NJM4565D-D	IC(OP AMP X2)		
IC11,12		XRA15218-DX	IC(OP AMP X2)		
IC13		T48409S	IC(MOTOR CONTROL)		
IC14		NJM4565D-D	IC(OP AMP X2)		
IC14		XRA15218-DX	IC(OP AMP X2)		
IC15		NJM4565D-A	IC(OP AMP X2)		
IC16,17		NJM4565D-D	IC(OP AMP X2)	MYX	
IC16,17		XRA15218-DX	IC(OP AMP X2)	MYX	
IC17		NJM4565D-D	IC(OP AMP X2)	KPTE	
IC17		XRA15218-DX	IC(OP AMP X2)	KPTE	
IC18		AN780575F	IC(VOLTAGE REGULATOR/+5.75V)		
IC19		TA7812S	IC(VOLTAGE REGULATOR/+12V)		
IC19		UPC7812AHF	IC(VOLTAGE REGULATOR/+12V)		
IC20		TA79012S	IC(VOLTAGE REGULATOR/-12V)		
IC20		UPC7912HF	IC(VOLTAGE REGULATOR/-12V)		
IC21		TA7812S	IC(VOLTAGE REGULATOR/+12V)		
IC21		UPC7812AHF	IC(VOLTAGE REGULATOR/+12V)		
IC50		CXP50116-532Q	IC(4BIT MICROPROCESSOR)		
IC51		MN1381-R(TA)	IC(VOLTAGE DETECT)		
IC51		S-80740AL	IC(VOLTAGE DETECTOR)		
Q1		2SC1740S(Q,R)	TRANSISTOR		S
Q1		2SC2458(Y,GR)	TRANSISTOR		J
Q1		2SC2785(F,E)	TRANSISTOR		S
Q1		2SC3311(A,Q,R)	TRANSISTOR		J
Q2		2SA1048(Y,GR)	TRANSISTOR		J
Q2		2SA1175(F,E)	TRANSISTOR		S
Q2		2SA1309A(Q,R)	TRANSISTOR		J
Q2		2SA933S(Q,R)	TRANSISTOR		S
Q3 ,4		2SC2878(B)	TRANSISTOR		
Q5 ,6		2SC1845(F,E)	TRANSISTOR		
Q7		2SC3940A(R,S)	TRANSISTOR		
Q8		2SA1534A(R,S)	TRANSISTOR		

L:Scandinavia
Y:PX(Far East, Hawaii)
Y:AAFES(Europe)

K:USA
T:England
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NO.11

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 向	Re- marks 備考
Q10		2SA1534A(R,S)	TRANSISTOR		
Q11		DTC124ES	DIGITAL TRANSISTOR		
Q50		UN4212	DIGITAL TRANSISTOR	MY	J
Q50		2SA1048(Y,GR)	TRANSISTOR	MY	S
Q50		2SA1175(F,E)	TRANSISTOR		
Q50		2SA1309A(Q,R)	TRANSISTOR	MY	J
Q50		2SA933S(Q,R)	TRANSISTOR	MY	S
Q51		2SC4038(Q,R)	TRANSISTOR		
A1		W02-1153-05	ELECTRIC CIRCUIT MODULE		

L:Scandinavia
Y:PX(Far East, Hawaii)
Y:AAFES(Europe)

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C-B5/L

SPECIFICATIONS

(C-B5)

FM Tuner section

Tuning frequency range..... 87.5 MHz ~ 108 MHz
Sensitivity (IHF) 13.2 dBf (1.2 μ V at 75 Ω)
Signal to noise ratio at 1 kHz
MONO 75 dB (65 dBf input)
STEREO 68 dB (65 dBf input)
Selectivity (IHF \pm 400 kHz) 50 dB
Stereo separation (IHF at 1 kHz) 40 dB
Frequency response... 30 Hz ~ 15 kHz + 0.5 dB, - 3 dB

AM Tuner section

Tuning frequency range 530 kHz ~ 1,700 kHz
Usable sensitivity 12 μ V / (500 μ V / m)
Signal to noise ratio 48 dB

Pre Amplifier section

Input sensitivity / Impedance
AUX 200 mV / 47 k Ω
N.B. circuit + 12dB (max.)
(60 Hz)

[General]

Dimensions W: 270 mm (10-5 / 8")
H: 85 mm (3-3 / 8")
D: 279 mm (11")
Weight (net) 2.0 kg (4.4 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.

(C-B5L)

FM Tuner section

Tuning frequency range..... 87.5 MHz ~ 108 MHz
Sensitivity (DIN at 75 Ω)
MONO 1.0 μ V / 11.2 dBf
Signal to noise ratio
(DIN weighted at 1 kHz, 65.2 dBf input)
MONO 65 dB
STEREO 58 dB
Selectivity (DIN \pm 300 kHz) 64 dB
Stereo separation (DIN at 1 kHz) 40 dB
Frequency response... 30 Hz ~ 15 kHz + 0.5 dB, - 3 dB

MW Tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz
Usable sensitivity 12 μ V / (500 μ V / m)
Signal to noise ratio 46 dB

LW Tuner section

Tuning frequency range 153 kHz ~ 279 kHz
Usable sensitivity 22 μ V
Signal to noise ratio 45 dB

Pre Amplifier section

Input sensitivity / Impedance
AUX 200 mV / 47 k Ω
N.B. circuit + 12 dB (max.)
(60 Hz)

[General]

Dimensions W: 270 mm (10-5 / 8")
H: 85 mm (3-3 / 8")
D: 279 mm (11")
Weight (net) 2.0 kg (4.4 lb)

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (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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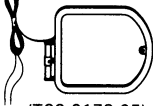

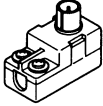




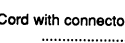
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No. 1 Genting Lane #07-00, Singapore, 1334

Accessories

- AM loop antenna 1

(T90-0173-05)
(T90-0174-05)
- FM indoor antenna 1

(T90-0175-05):S
(T90-0176-05):J
- Antenna adaptor
(75 Ω / 300 Ω) 1
(For U.K. and Europe)
(T90-0185-05)

- Loop antenna stand 1

(J19-2815-04)
- Batteries(R03 / AAA) 2

- Remote control unit 1

(X94-1050-51)
(F07-0721-23):Battery cover
- AC plug adaptor 1
(Except for some areas)
(E03-0115-05)

- Cord with connector 1


For the unit with a European AC plug in areas other than Europe.

Speaker cords are packed with the speakers. All other accessories are packed with the poweramplifier unit.