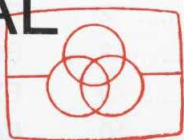


PRE AMPLIFIER

C-B7/L

SERVICE MANUAL

KENWOOD



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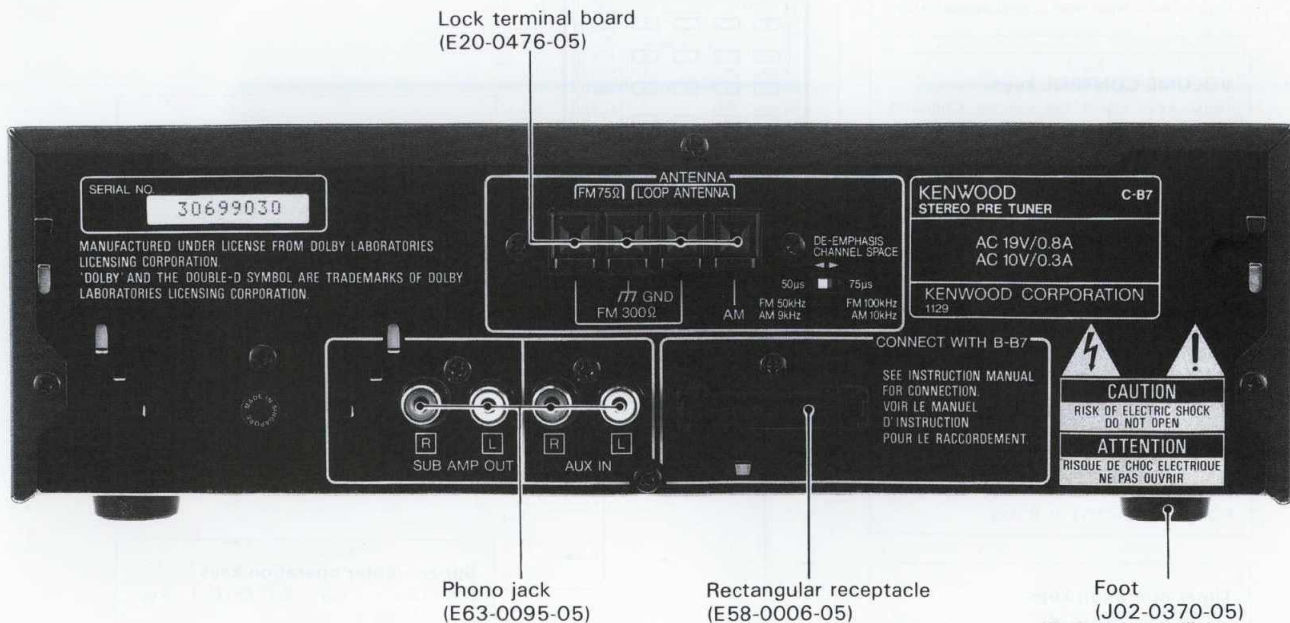
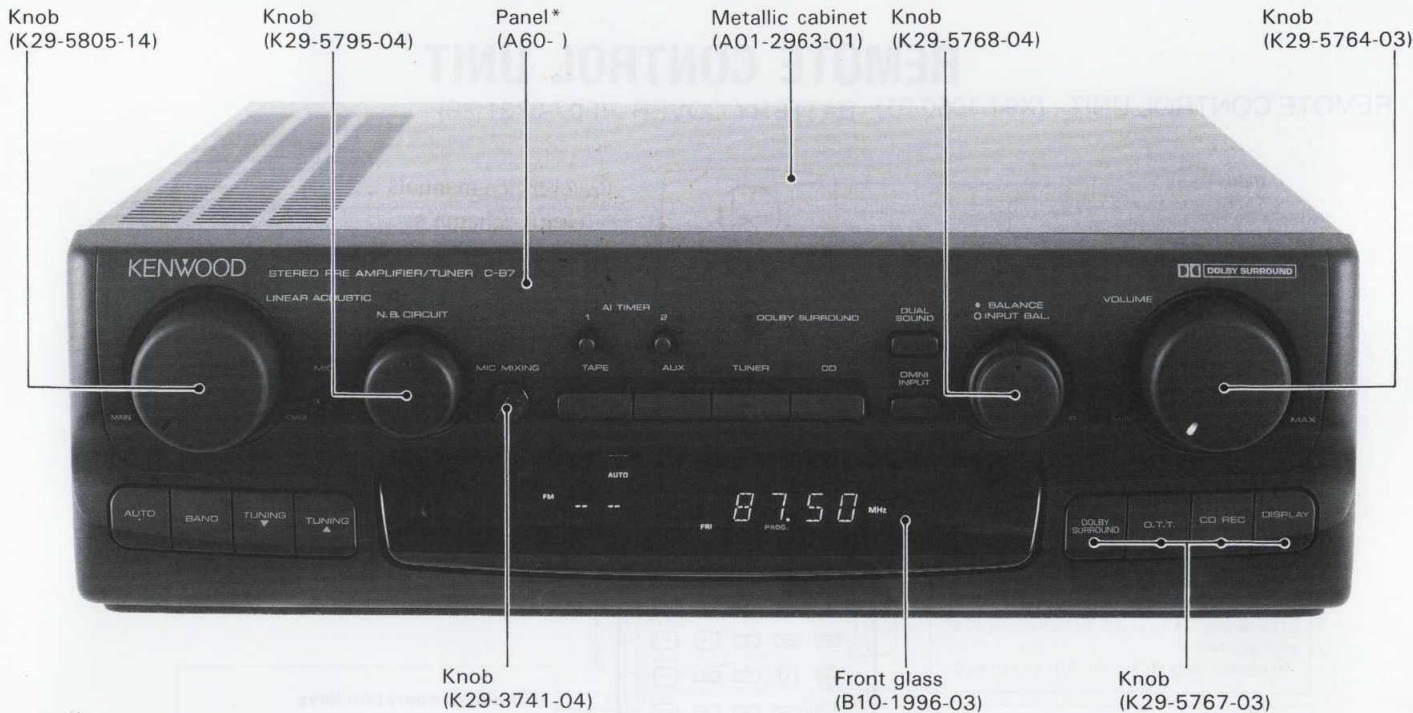
Gratis schema's

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*Refer to parts list on page 28.

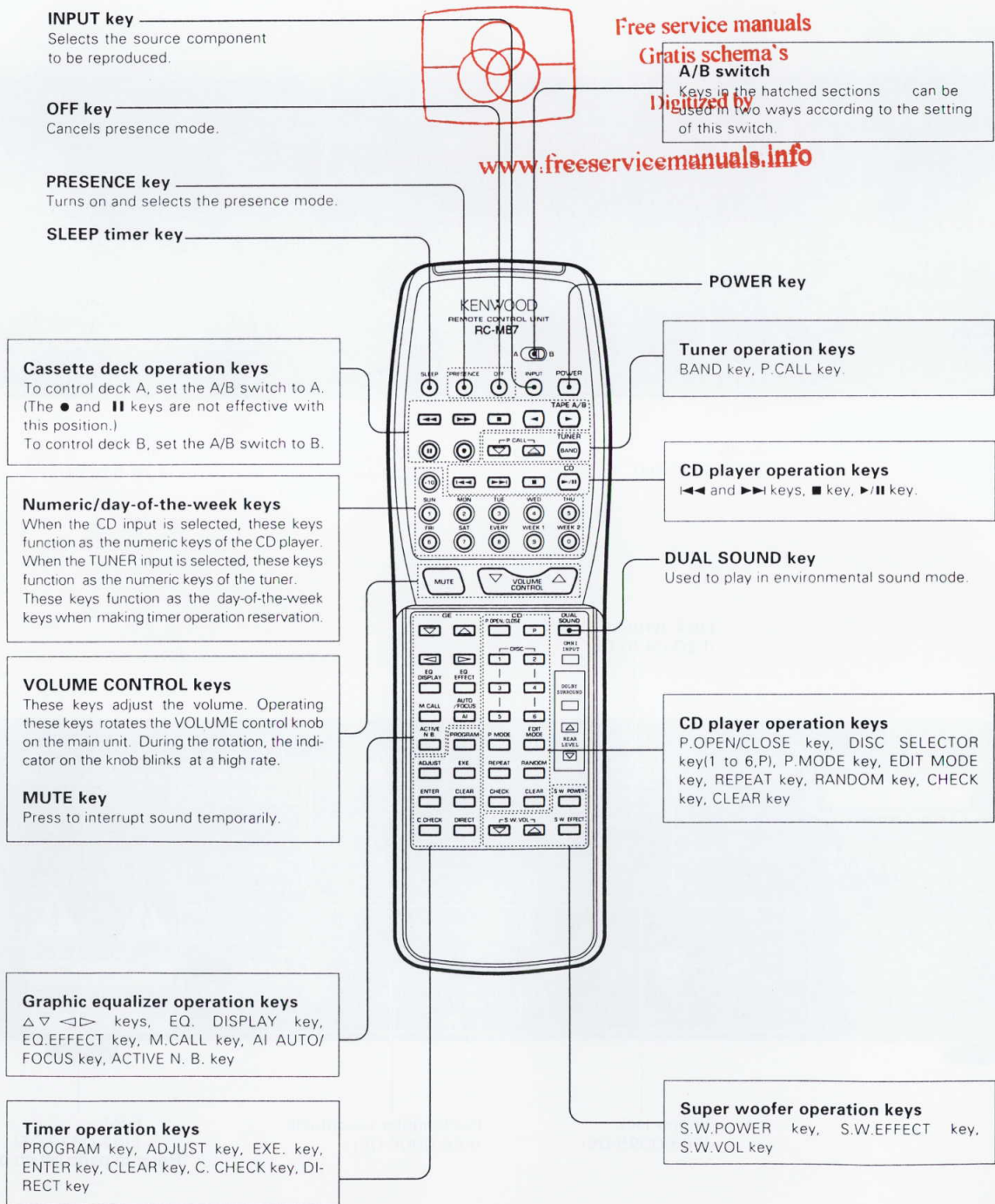
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REMOTE CONTROL UNIT

REMOTE CONTROL UNIT : (X94-1050-31) BATTERY COVER : (F07-0721-23)



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Gratis schema's

A/B switch

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

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CIRCUIT DESCRIPTION

CIRCUIT DESCRIPTION

1. TEST MODE

1.1 KEY TEST BY MEANS OF THE MAIN UNIT

- (1) Measuring method
 - Plug the power cord in 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

ALL 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 by means of the TUNING UP/DOWN KEY

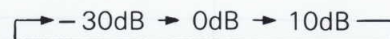
The PRESET CH. UP/DOWN operation can be carried out by operating the TUNING UP/DOWN key when the INPUT SELECTOR is the TUNER.

d. Switching the PRESENCE MODE

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

e. REAR VOLUME

The REAR VOLUME is switched according to the following cycle by pressing the AI 1 KEY.



1.2 INITIAL SETTING

(1) Setting method

Plug the power cord in the AC electrical outlet while pressing the TUNER KEY.

(2) Contents

The internal conditions of the equipment are set in the initial state.

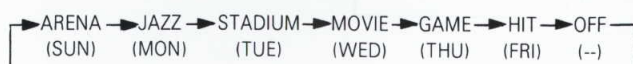
1.3 Method of POWER ON

(1) Setting method

Plug the power cord to the AC outlet while pressing the TAPE key.

(2) Cancellation method

The power cord is unplugged from the AC outlet.



1. 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***	76.0MHz ~ 90.0MHz	100kHz	25kHz	- 10.7MHz	FMIN Internal prescaler 1/2	m i H L H H H
	E	11**	87.5MHz ~ 108.0MHz	50kHz	25kHz	+ 10.7MHz		
	K	10**		100kHz				
AM	J	0***	531kHz ~ 1602kHz	9kHz	9kHz	+ 450kHz	AMIN	m i H H L H H
	E	11**						
	K1	101*	530kHz ~ 1610kHz	10kHz	10kHz			
	K2	100*	530kHz ~ 1700kHz					
LW	E	11*1	153kHz ~ 279kHz	9kHz	9kHz	+ 450kHz	AMIN	m i H H H L H

NOTE

*: Don't care

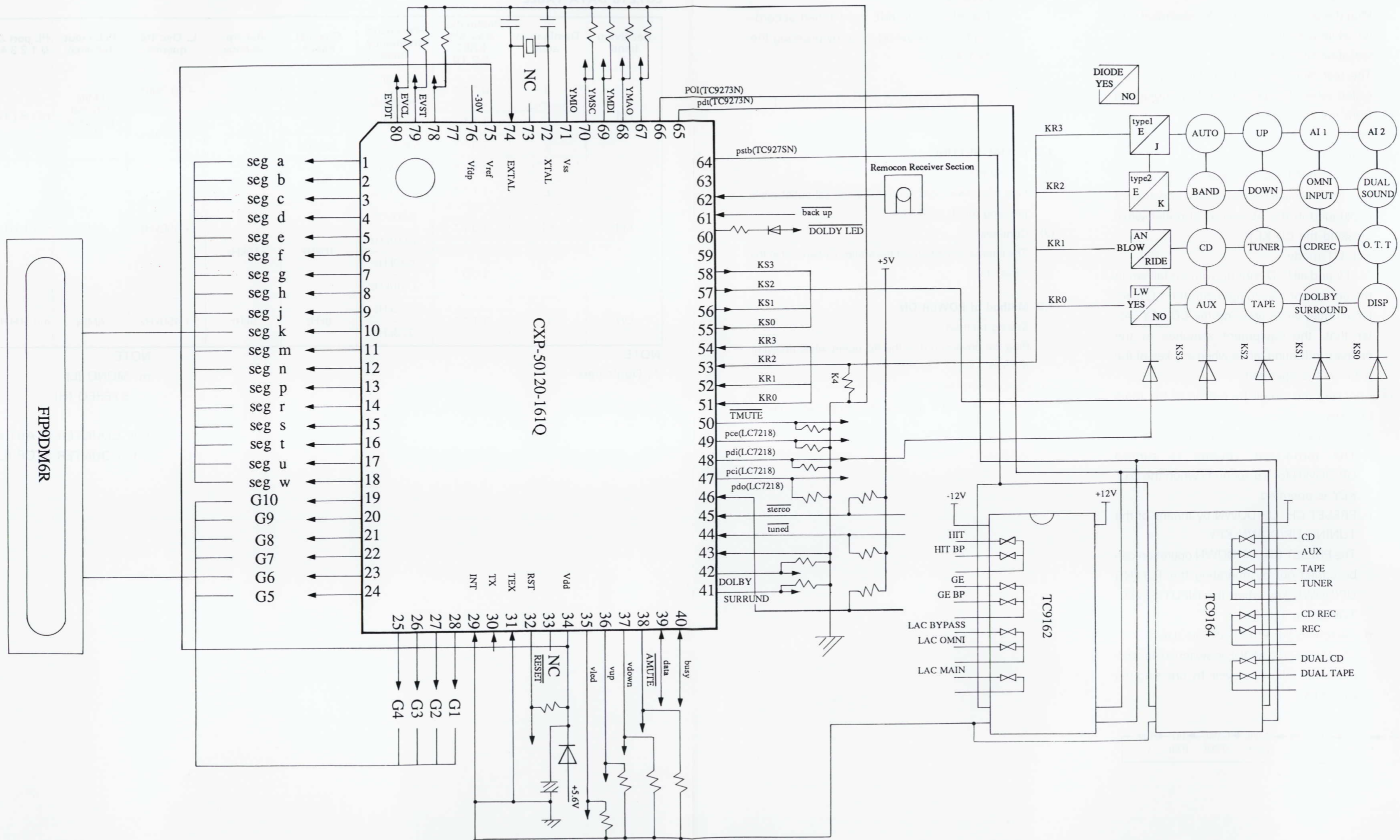
NOTE

m: MONO (L)
STEREO (H)

i: IF COUNTER START (H)
IF COUNTER STOP (L)

C-B7/L C-B7/L BLOCK DIAGRAM

Microprocessor(CXP-50120-161Q) : (X14- : IC19)



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	I	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

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CIRCUIT DESCRIPTION

Pin Description

PIN	PIN NAME	I/O	NAME	DESCRIPTION
41	pb2/ad6	O	psurr	Presence ON/OFF SW (1: Presence ON)
42	pb3/ad7	O	pblby	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	PYMAO	
68	pc1	O	PYMDI	Presence logic port
69	pc2	O	PYMSC	
70	pc3	O	PYMIC	
71	vss	—	vss	GND terminal
72	xtal	—	xtal	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 terminal Vdd
76	vfdp	—	vfdp	Fluorescent character display crasing voltage application terminal (-30V)
77	so/ph0	O	no use	Unused Handling: Open
78	s1/ph1	O	pevdt	Electrical volume TC9213P data terminal
79	s2/ph2	O	pevcl	Electrical volume TC9213P clock terminal
80	s3/ph3	O	pevst	Electrical TC9213P strobe terminal

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-) L4 (X05-)	0V 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.

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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, ± 75 kHz 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.	
2	DISTORSION (STEREO)	(C) 98.0 MHz 1 kHz, ± 68.25 kHz dév Signal pilot: ± 7.5 kHz 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: ± 6 kHz 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-)	Ajuster VR1 que FL1(TUNED) est non allumé. Alors. ajuster VR1 et arrêter le mouvement de VR2 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-)	Ajuster VR3 que FL1(TUNED) est non allumé. Alors. ajuster VR1 et arrêter le mouvement de VR3 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.

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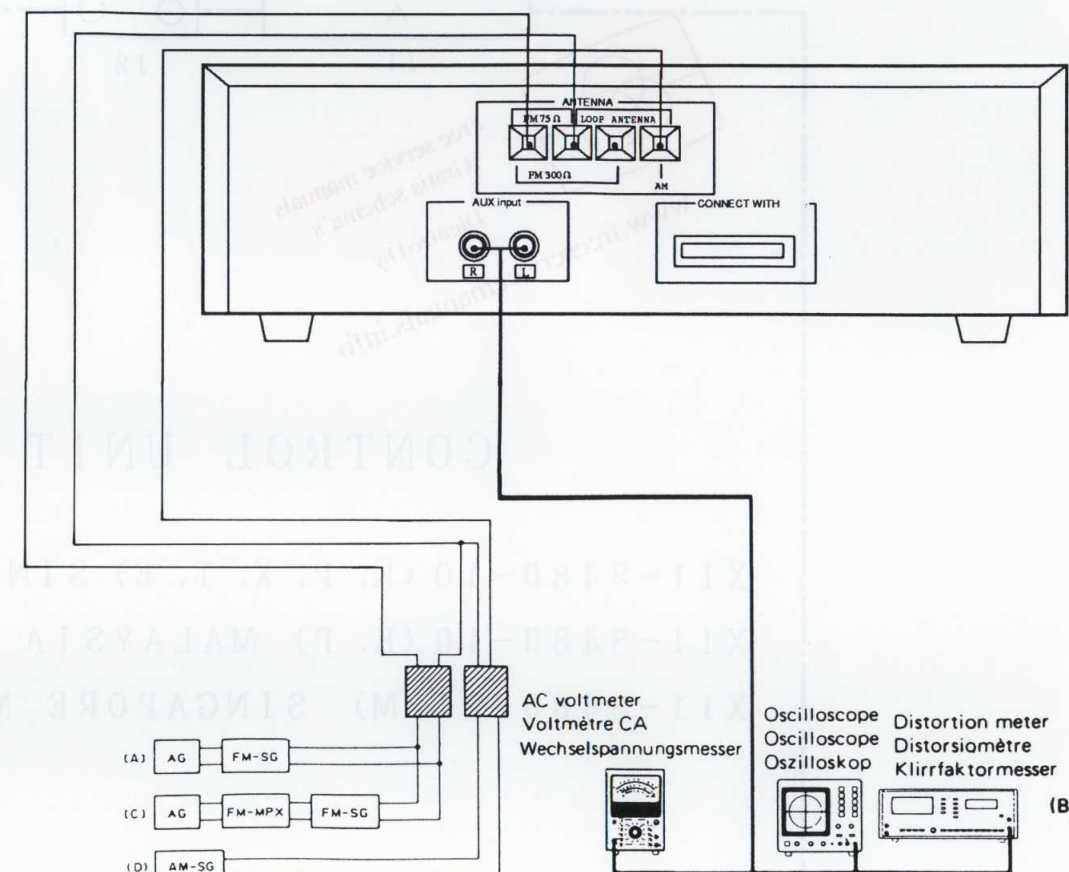
C-B7/L

ABGLEICH

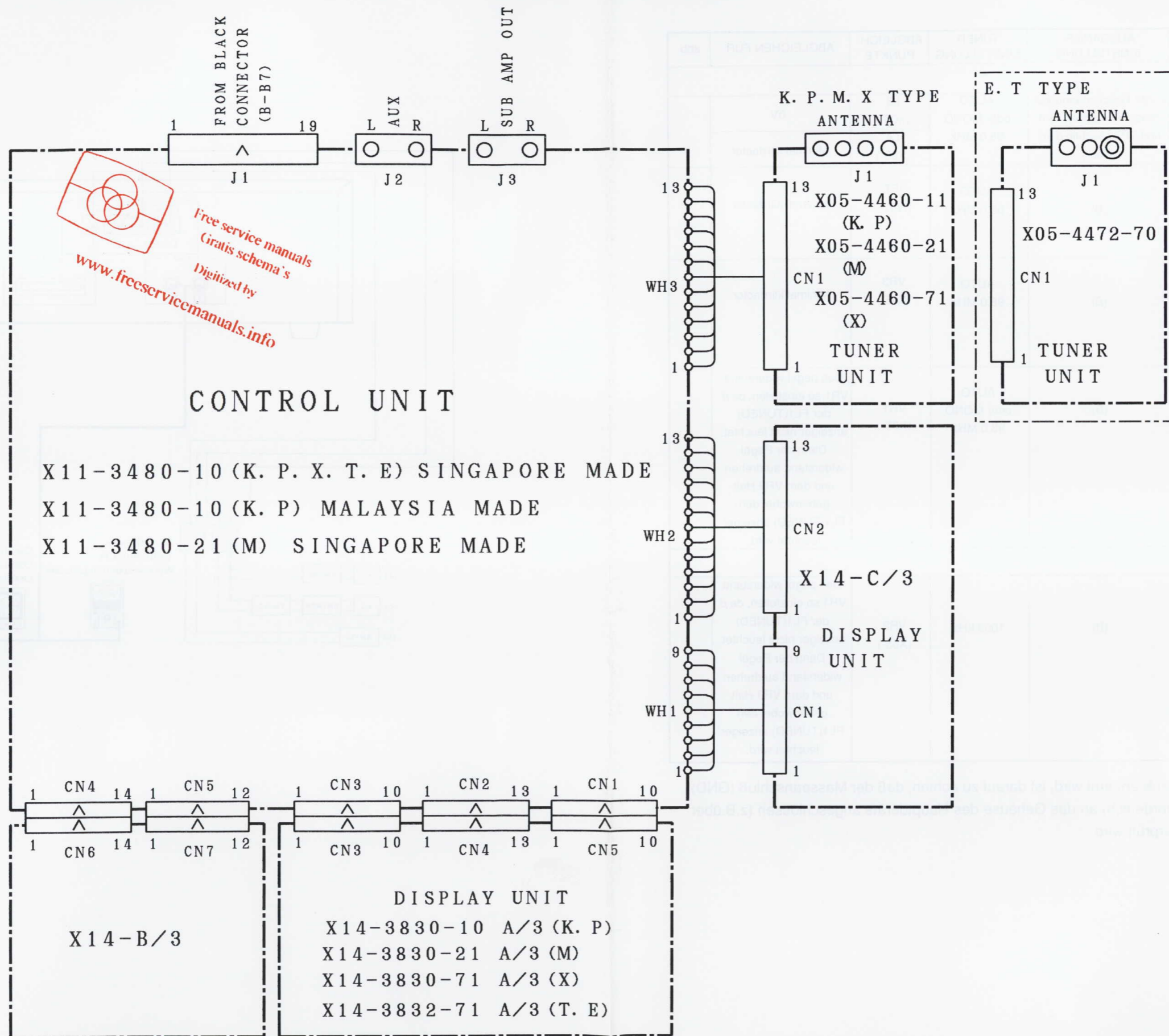
ADJUSTMENT / REGLAGE / ABGLEICH

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.	
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, daß 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, daß 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-Platine (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.



C-B7/L C-B7/L WIRING DIAGRAM



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CONTROL UNIT

- X11-3480-10 (K. P. X. T. E) SINGAPORE MADE
- X11-3480-10 (K. P) MALAYSIA MADE
- X11-3480-21 (M) SINGAPORE MADE

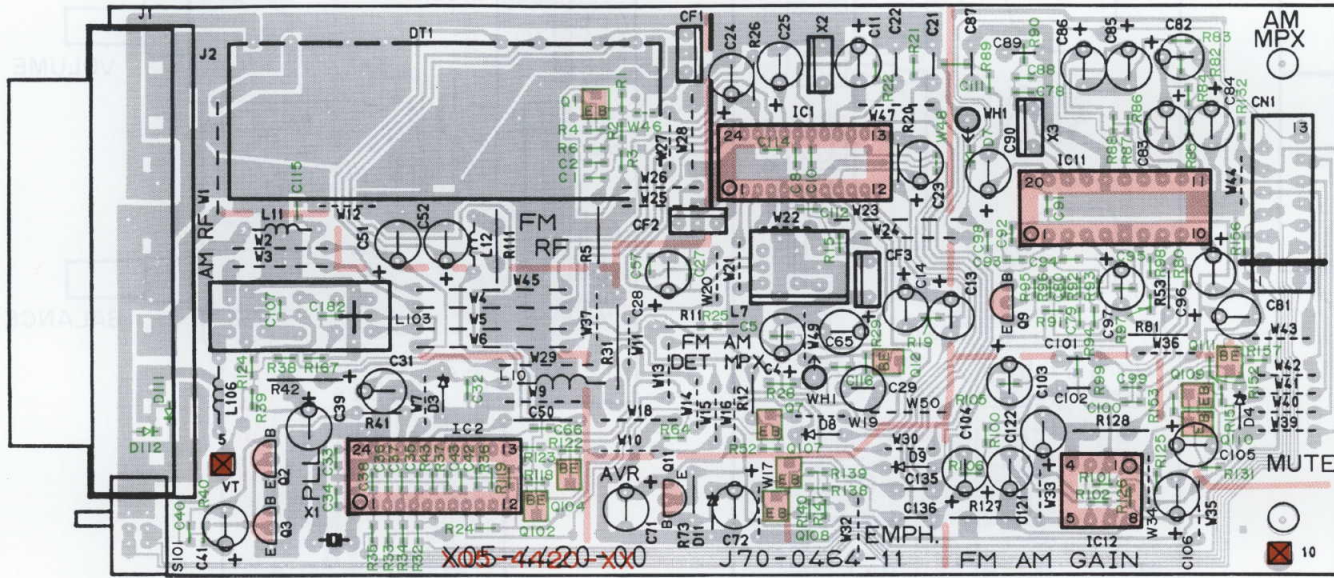
DISPLAY UNIT

- X14-3830-10 A/3 (K. P)
- X14-3830-21 A/3 (M)
- X14-3830-71 A/3 (X)
- X14-3832-71 A/3 (T. E)

PC BOARD (Component side view)

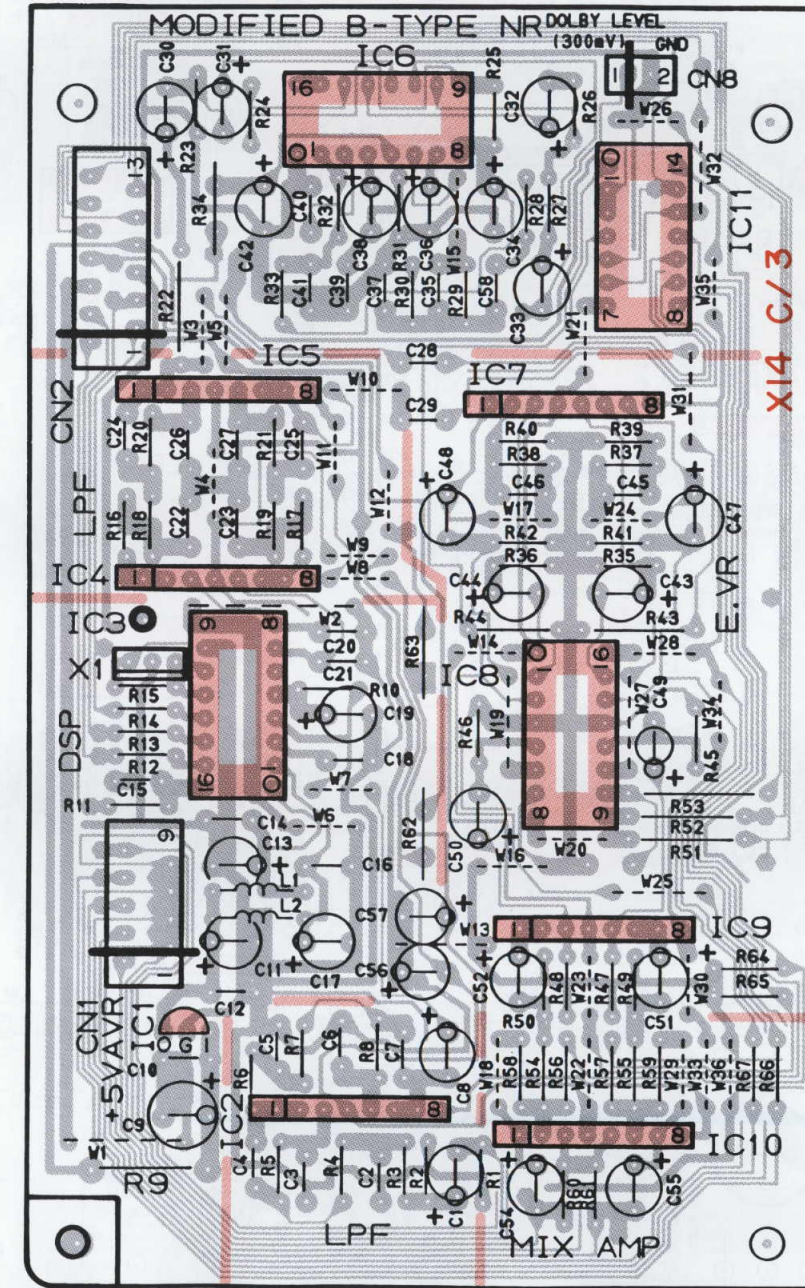
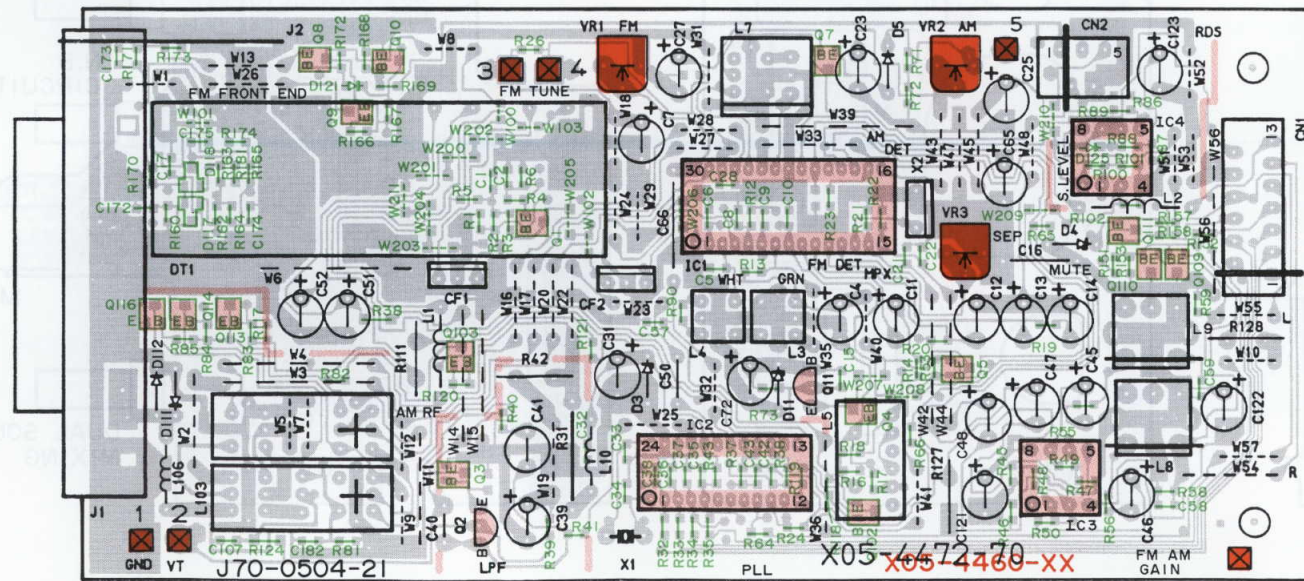
DISPLAY UNIT(X14-383X-XX)

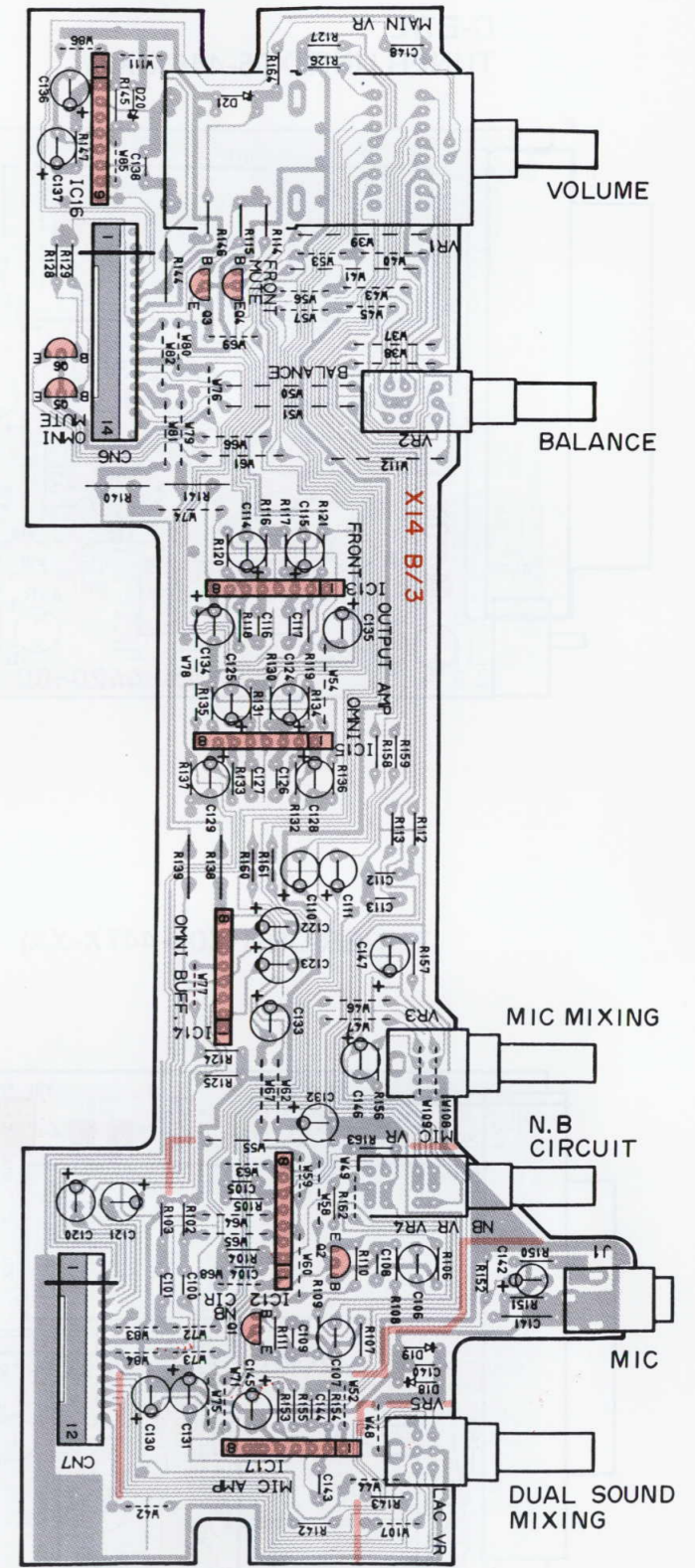
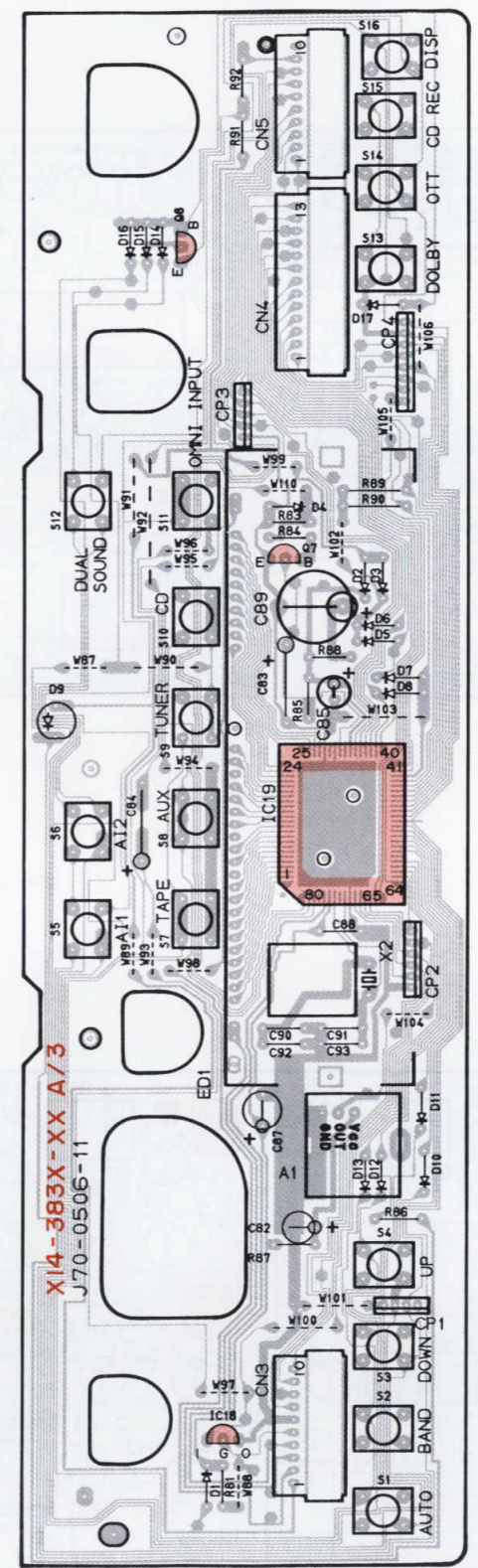
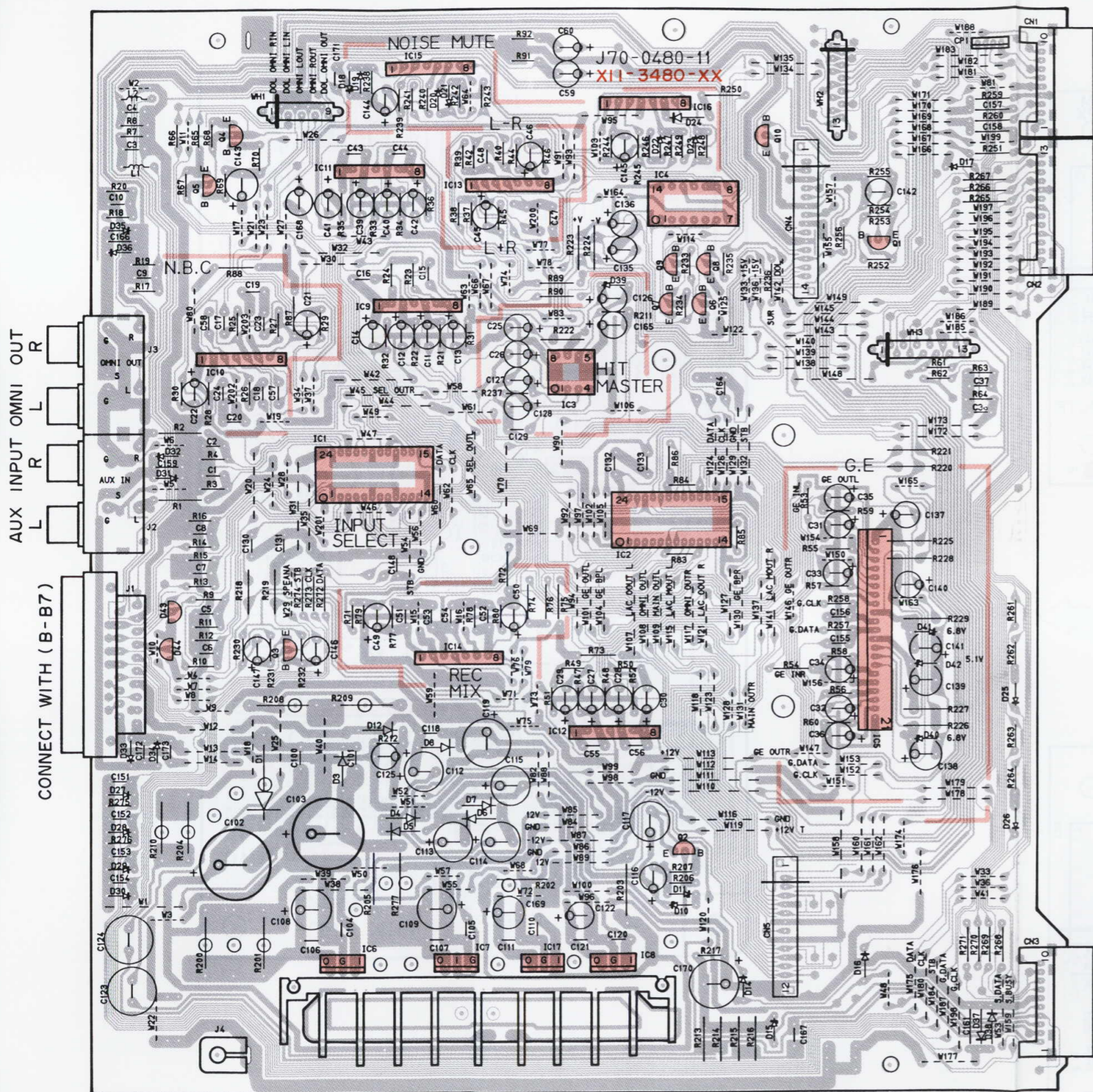
C-B7/L TUNER UNIT(X05-446X-XX)

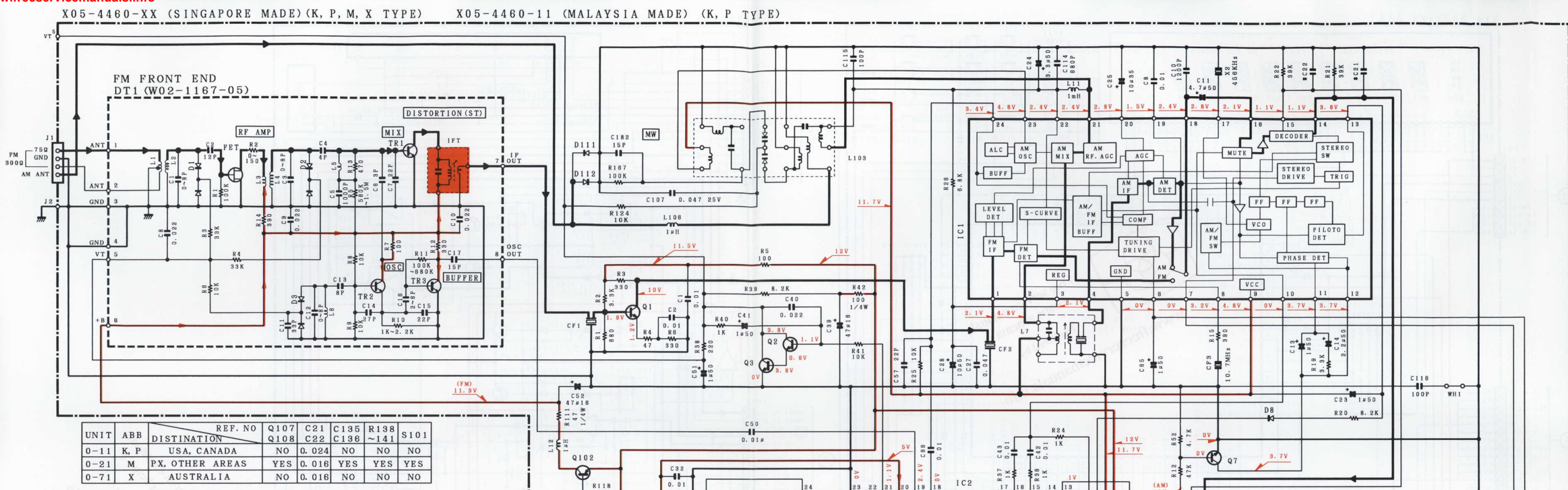


FRONT →

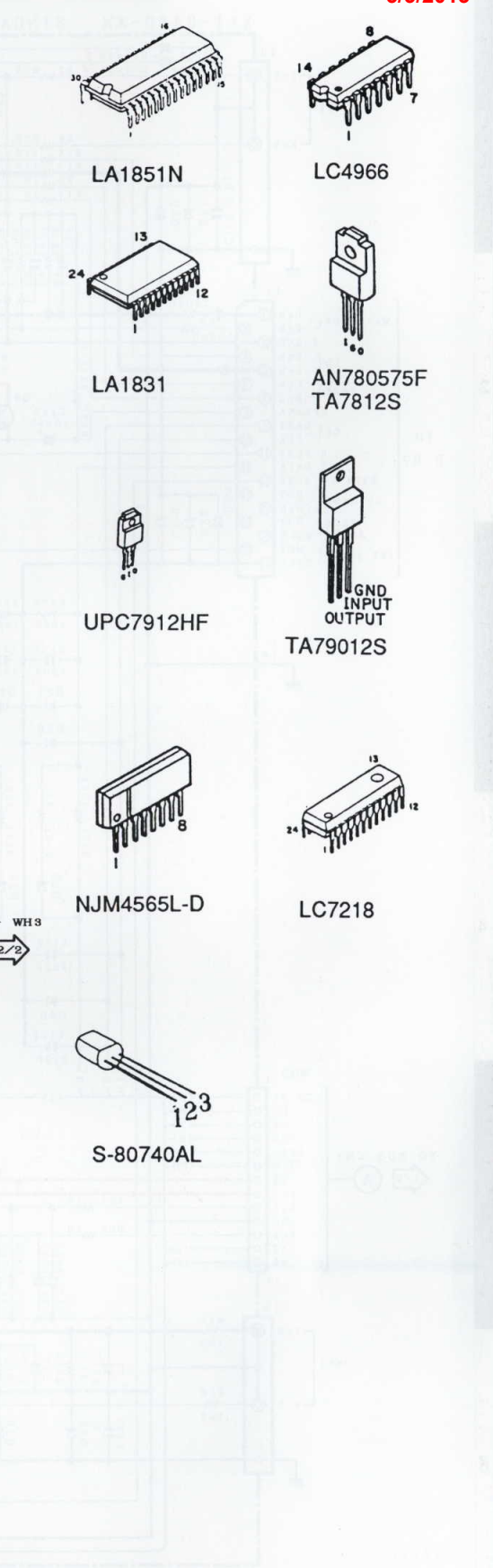
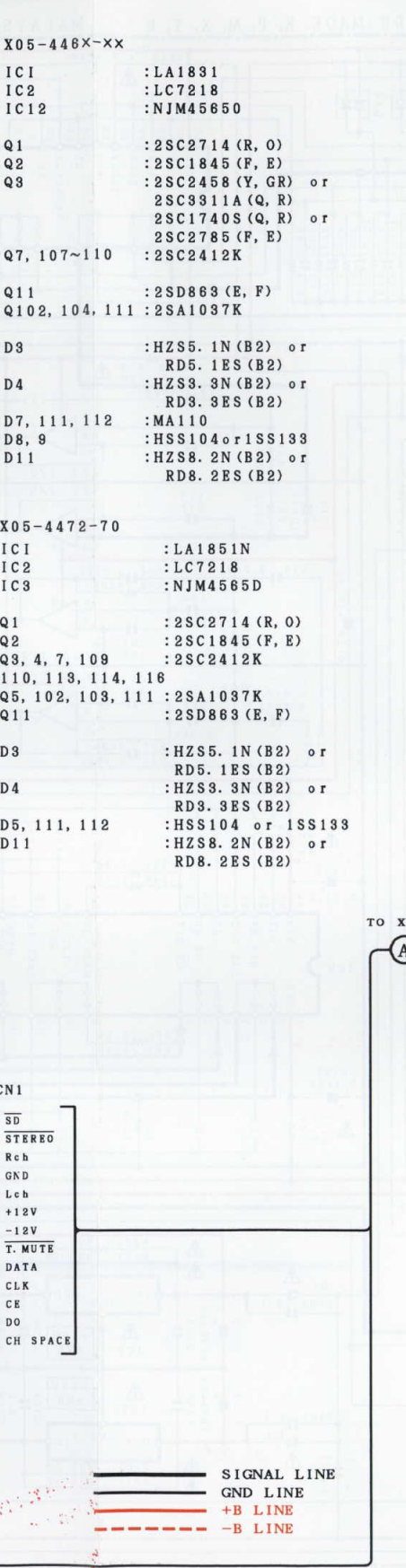
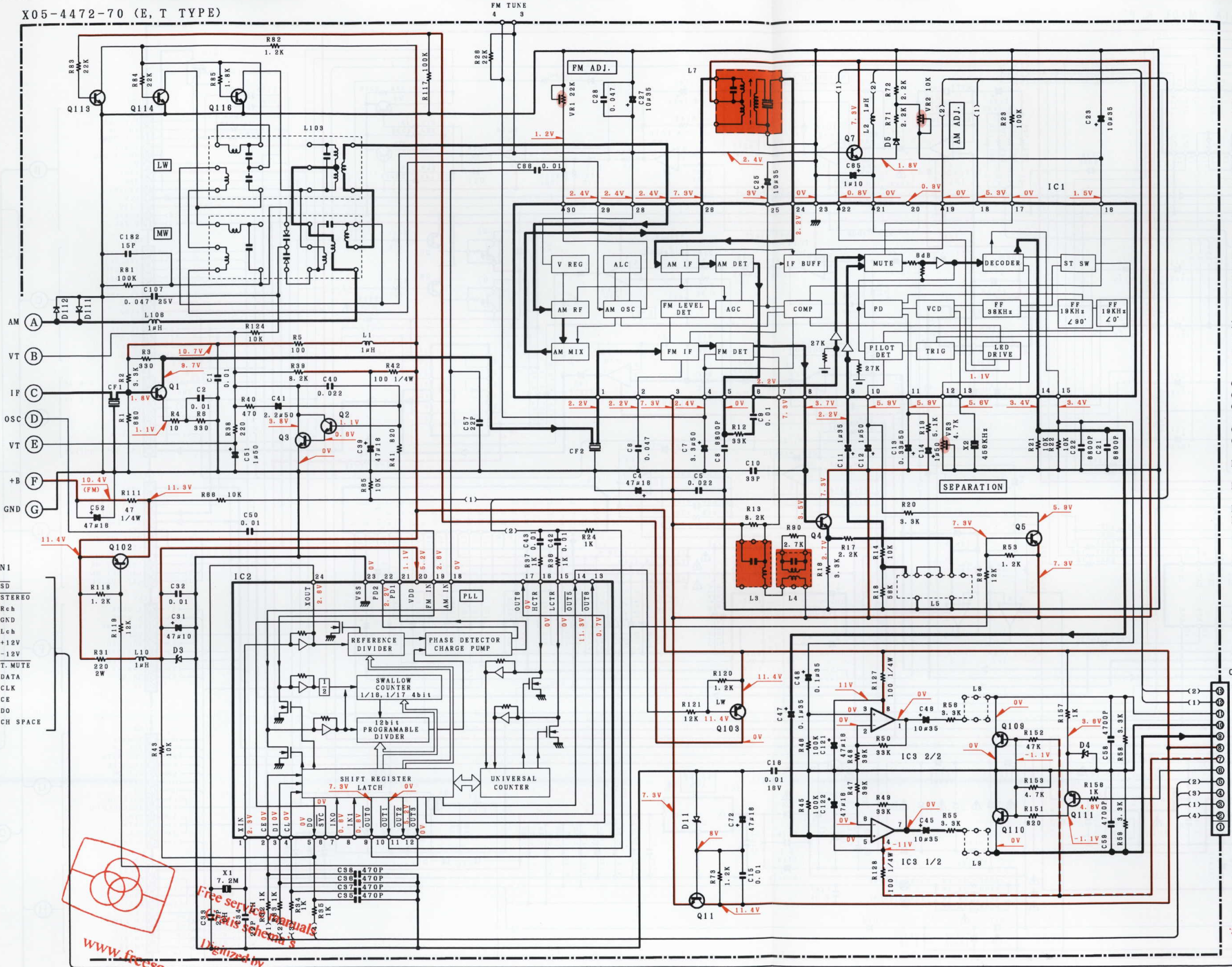
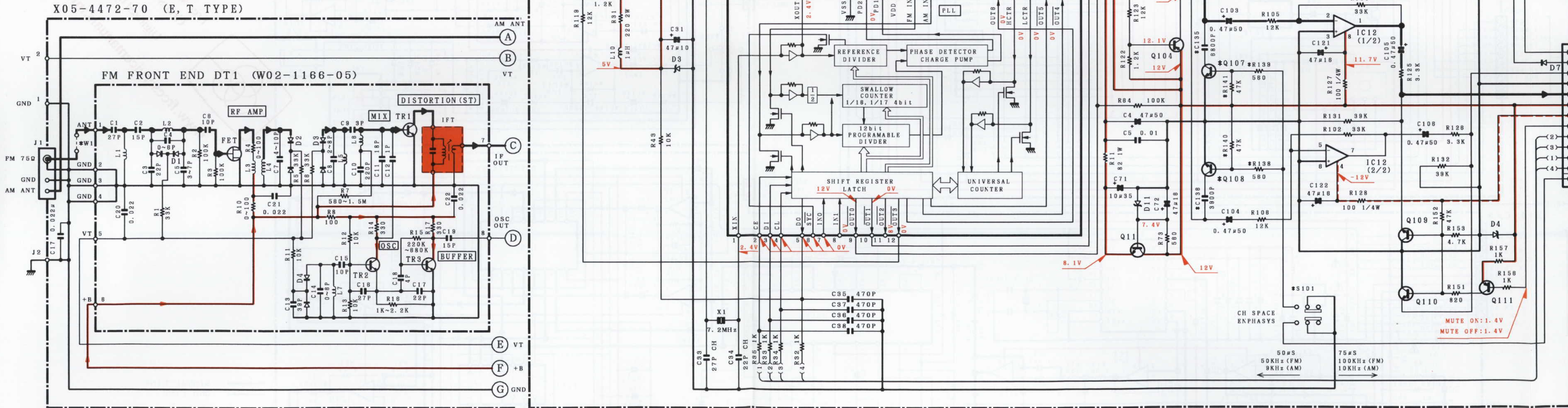
TUNER UNIT(X05-447X-XX)







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	M	PX, OTHER AREAS	YES	0.016	YES	YES	YES	YES
0-71	X	AUSTRALIA	NO	0.016	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.

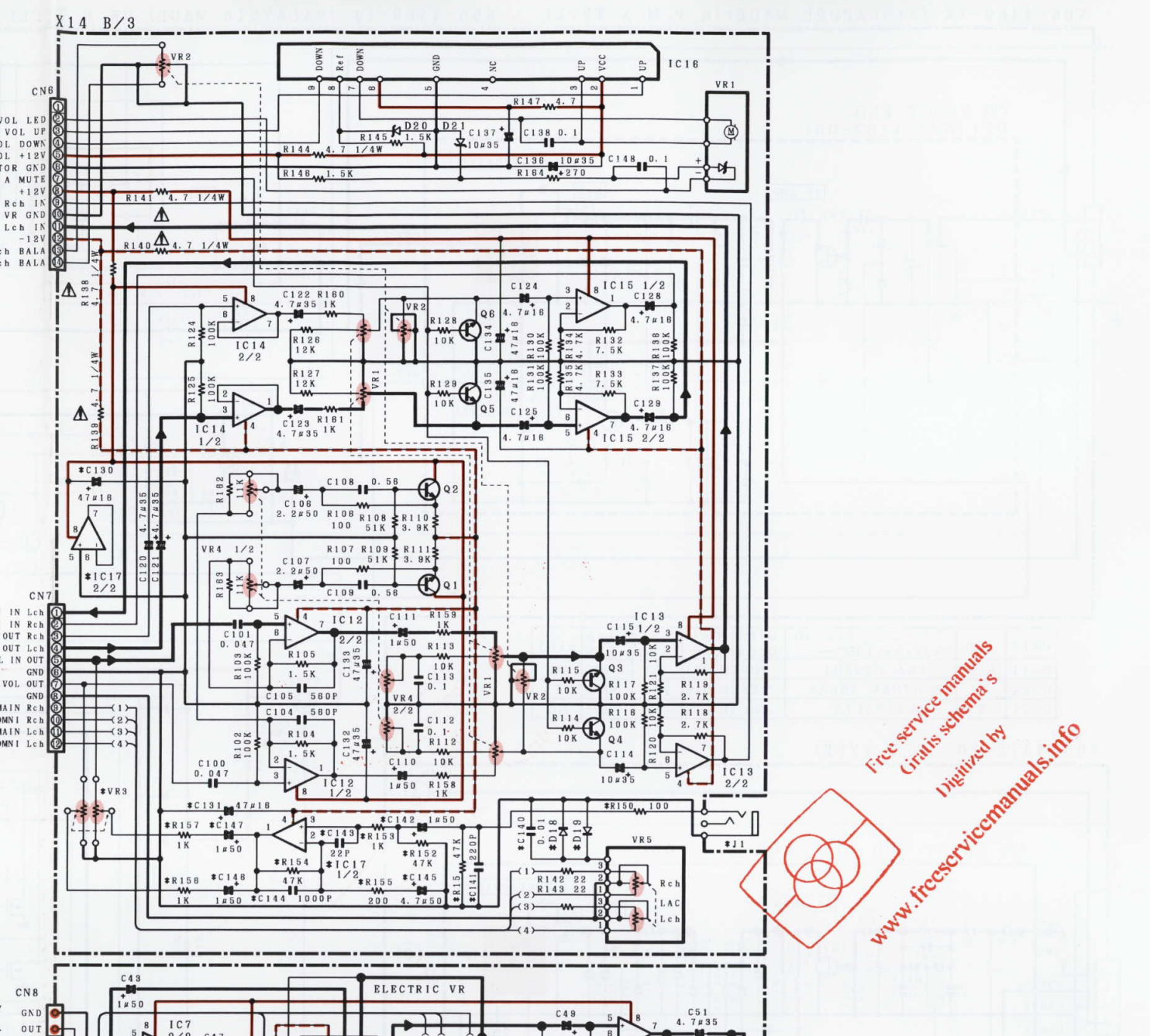
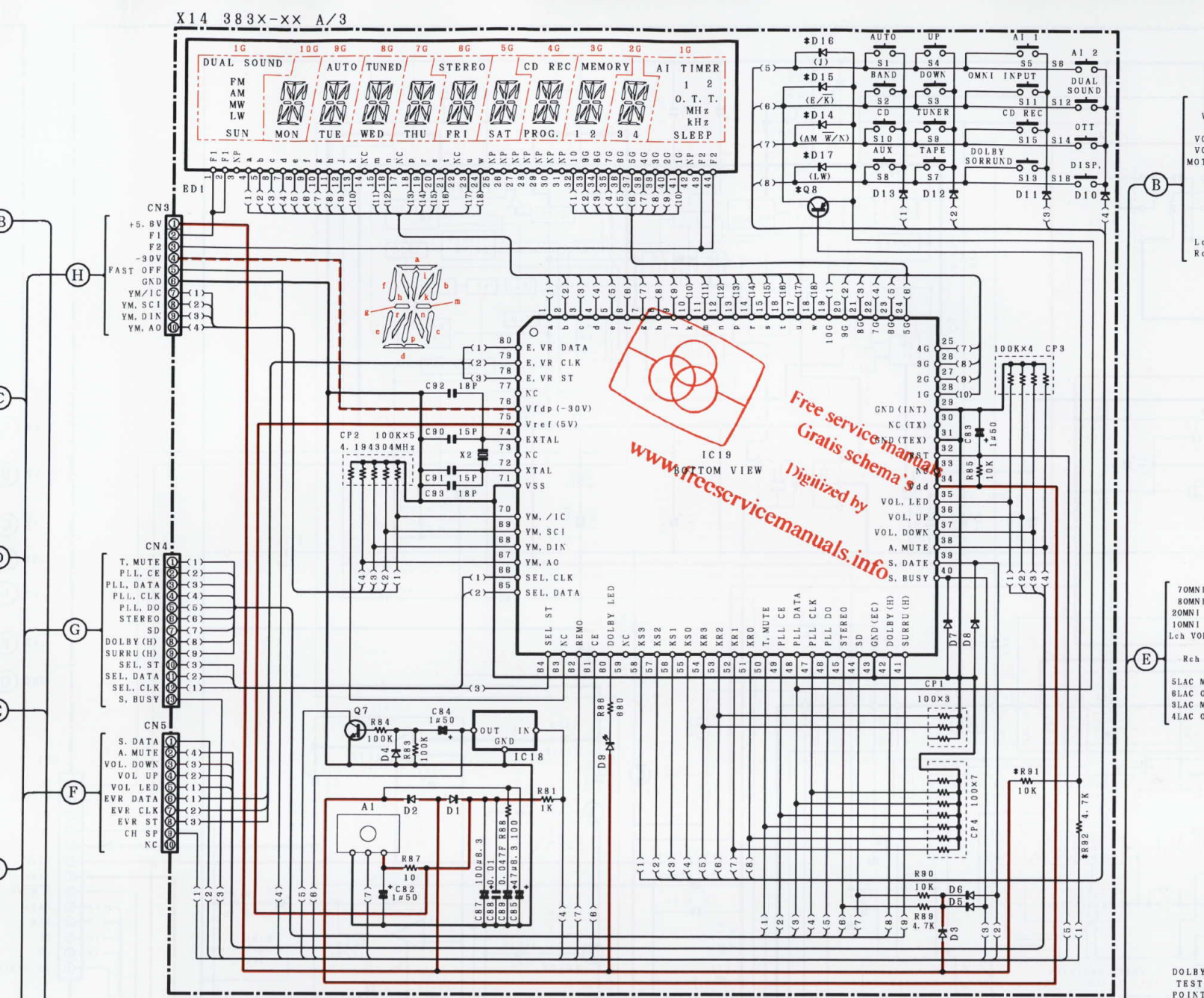
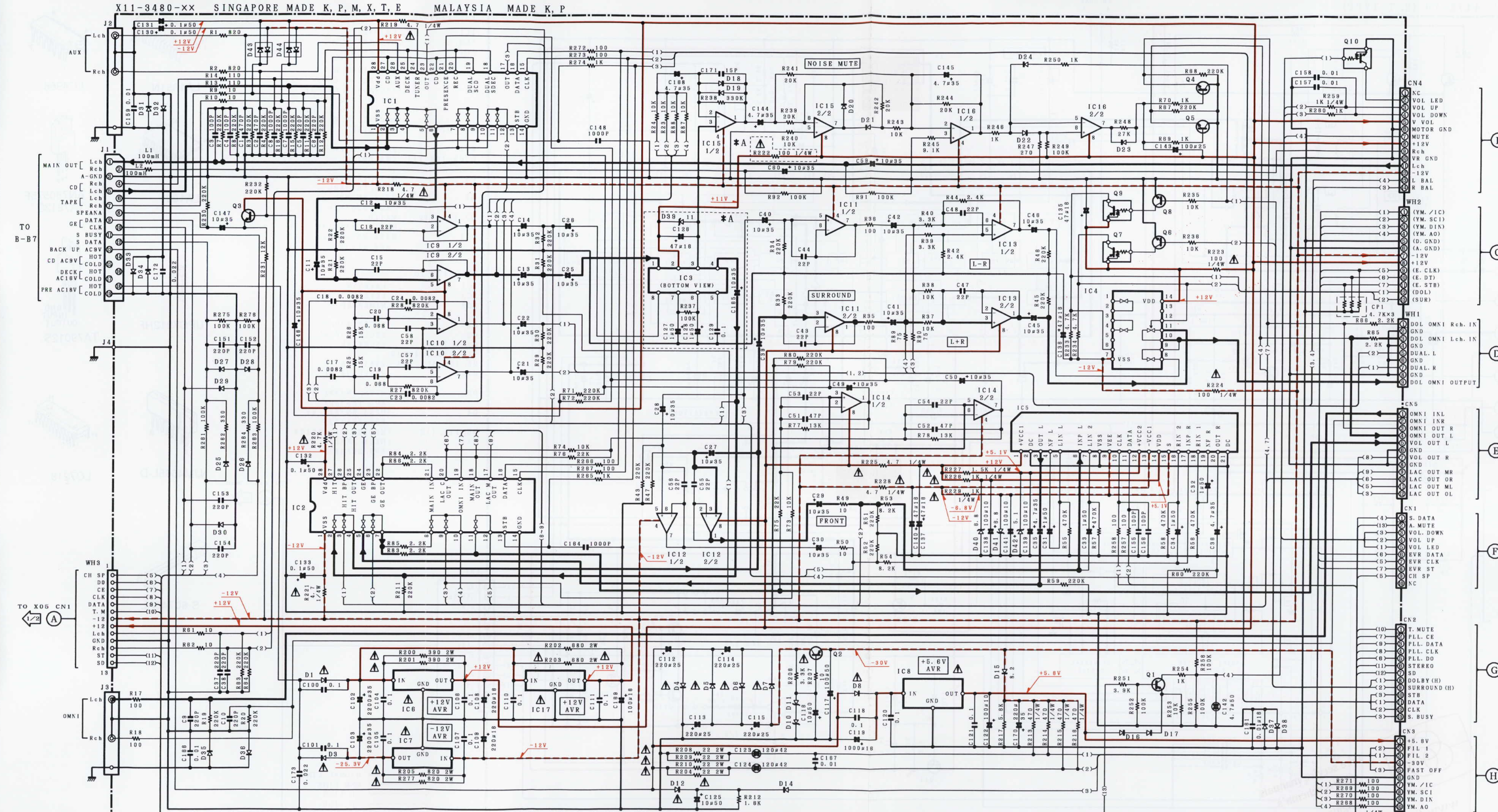
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

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.

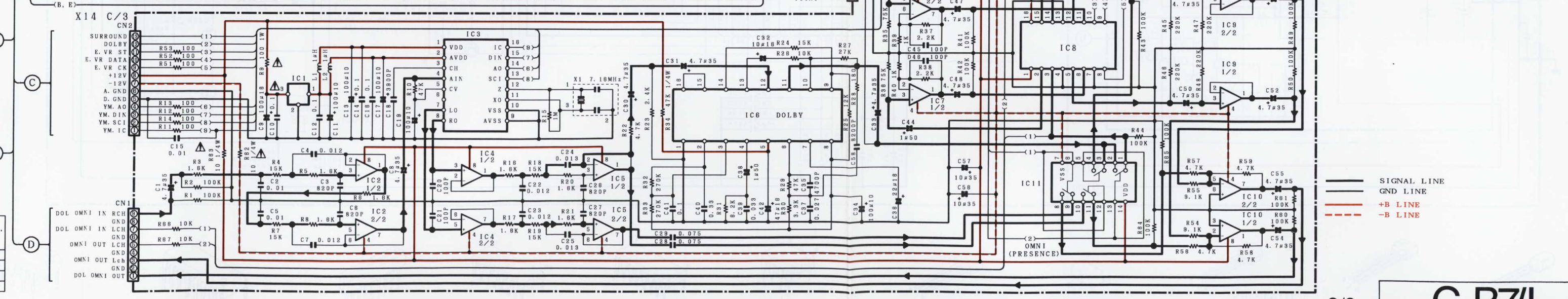
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

2SA1534A, 2SC1845, 2SC2878, 2SD863, 2SA1175, 2SC2785, DTA124ES, DTC124ES, UN4112, 2SA933S, 2SC1740S, 2SA1037K, 2SC2412K, 2SC2714, UN4212, NJM4565D, LA2730, TC9213P, TA8409S, YM7128B, CXA1642P, M5238AL, NJU7311L, NJU7313L, UPC78L05J, UPC7812AHF

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IC1 : NJU7313L or TC9184N	IC8 : AN780575F	Q4, 5 : 2SC2878 (B)	D40, 41 : RD8. 8ES (B2) or HZS8. 8N (B2)
IC2 : NJU7311L or TC9182N	IC9-16 : NJM4565L-D	Q7, 9 : DTA124ES or UN4112	D15 : RD8. 2ES (B2) or HZS8. 8N (B2)
IC3 : CXA1842P	Q10 : DTC124ES or UN4212	D39 : RD11ES (B2) or HZS11N (B2)	D10 : RD11ES (B2) or HZS11N (B2)
IC4 : LC4986	Q1 : 2SA933S (Q, R)	D10 : RD11ES (B2) or HZS11N (B2)	D11 : RD15ES (B2) or HZS15N (B)
IC5 : STK301-220	Q2 : 2SA1175 (F, E)	D1 : DS43A2	D3-8, 12 : 1SR139-1000 or S5688B
IC6, 17 : #PC7812AH or TA7812F	Q1 : 2SA1594A (R, S)	D3-8, 12 : 1SR139-1000 or S5688B	D43, 44 : MA177
IC7 : #PC7912HF or TA7912S	Q3, 6, 8 : 2SC1740S (Q, R)	D14, 16-38 : HSS104 or ISS133	D1-9 : HSS104 or ISS133
	D42 : 2SC2785 (F, E)	D2 : 2SC1740S (Q, R)	D10-18 : HSS104 or ISS133
		D9 : 880-1291-05 (9)	Q8 : 2SA933 (Q, R) or 2SA1175 (F, E)
		D20 : RD3. 9ES (B2) or HZS3. 9N (B2)	



REF. NO.	D18, 19	D14	D15	D17	W10R	R190, 193	C130, 131	R91
DESTINATION	J1, W8, S8	Q8	Q8	Q8	W10R	R195-197	C140-147	R92
0-10	K, P	NO	NO	NO	YES	NO	NO	NO
0-21	M	YES	NO	NO	NO	YES	YES	YES
0-71	X	YES	NO	YES	NO	NO	YES	YES
2-71	T, E	NO	NO	YES	YES	YES	NO	NO

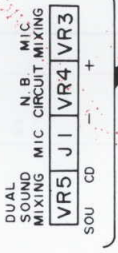
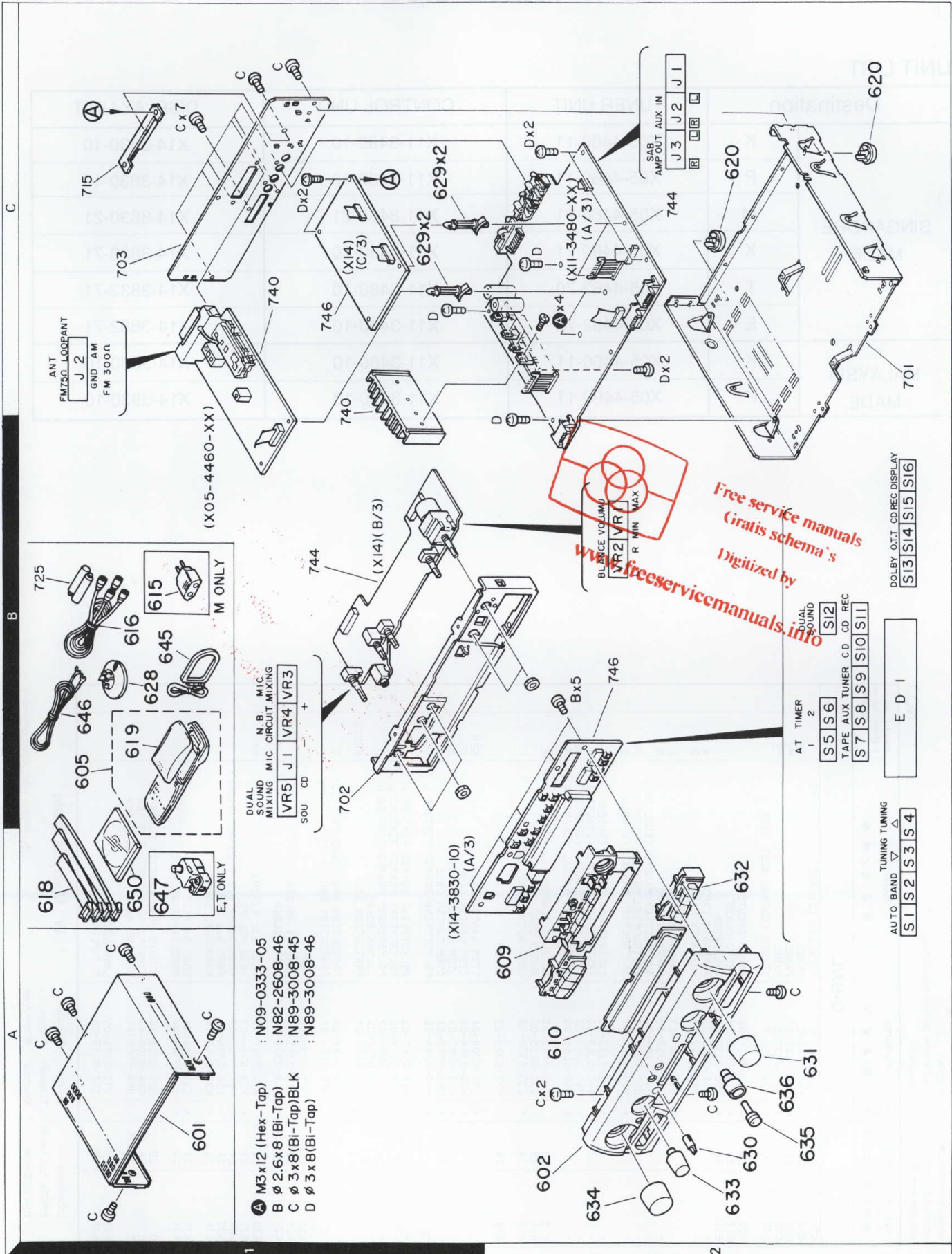
DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

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.

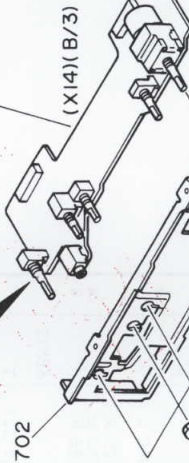
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

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.

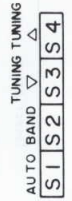
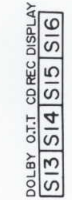
EXPLODED VIEW (UNIT)



- A M3x12 (Hex-Tap) : N09-0333-05
- B ∅ 2.6x8 (BI-Tap) : N82-2608-46
- C ∅ 3x8 (BI-Tap) / BLK : N89-3008-45
- D ∅ 3x8 (BI-Tap) : N89-3008-46



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E D I

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

C-B7/L

PARTS LIST

UNIT LIST

Destination		TUNER UNIT	CONTROL UNIT	DISPLAY UNIT
SINGAPORE MADE	K	X05-4460-11	X11-3480-10	X14-3830-10
	P	X05-4460-11	X11-3480-10	X14-3830-10
	M	X05-4460-21	X11-3480-21	X14-3830-21
	X	X05-4460-71	X11-3480-10	X14-3830-71
	T	X05-4462-70	X11-3480-10	X14-3832-71
	E	X05-4462-70	X11-3480-10	X14-3832-71
MALAYSIA MADE	K	X05-4460-11	X11-3480-10	X14-3830-10
	P	X05-4460-11	X11-3480-10	X14-3830-10

NO.1

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
C-B7/L						
601	1A	*	A01-2963-01	METALLIC CABINET	KP	
602	2A	*	A60-0445-21	PANEL	MX	
602	2A	*	A60-0446-21	PANEL	TE	
602	2A	*	A60-0507-21	PANEL		
605	1B	*	X94-1050-31	REMOTE CONTROL ASSY UNIT		
609	2A	*	B01-0511-02	PANEL ESCUTCHEON		
610	2A	*	B10-1996-03	FRONT GLASS		
611	2A	*	B12-0235-04	INDICATOR	X	
-			B46-0098-33	WARRANTY CARD	P	
-			B46-0121-33	WARRANTY CARD		
-			B46-0307-13	WARRANTY CARD	K	
-			B46-0310-05	WARRANTY CARD	E	
-		*	B60-1259-00	INSTRUCTION MANUAL (ENGLISH)	PE	
-		*	B60-1260-00	INSTRUCTION MANUAL (FRENCH)	PE	
-		*	B60-1261-00	INSTRUCTION MANUAL (GERMAN)	E	
-		*	B60-1262-00	INSTRUCTION MANUAL (DUTCH)	E	
-		*	B60-1263-00	INSTRUCTION MANUAL (ITALIAN)	E	
-		*	B60-1264-00	INSTRUCTION MANUAL (SPANISH)	ME	
-		*	B60-1266-00	INSTRUCTION MANUAL (CHINESE)	M	
615	1B		E03-0115-05	AC PLUG ADAPTER	M	
616	1B		E30-0615-05	AUDIO CORD		
618	1A	*	E30-2738-05	CORD WITH CONNECTOR		
619	1B		F07-0721-23	COVER		
-		*	H50-0708-04	ITEM CARTON CASE	KPX	
-		*	H50-0709-04	ITEM CARTON CASE	TE	
-		*	H50-0757-04	ITEM CARTON CASE	M	
-		*	H50-0760-04	ITEM CARTON CASE		
-		*	H10-5566-02	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5567-02	POLYSTYRENE FOAMED FIXTURE R		
-		*	H10-5579-02	POLYSTYRENE FOAMED FIXTURE L		
-		*	H10-5580-02	POLYSTYRENE FOAMED FIXTURE R		
-			H13-0086-04	CARTON BOARD		
-			H23-0632-24	PROTECTION BAG	KPX	
-			H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-			H25-0681-04	PROTECTION BAG		
620	2C		J02-0370-05	FOOT		
628	1B		J19-2815-04	ANTENNA HOLDER		
629	1C		J19-3330-15	UNIT HOLDER		
630	2A		K29-3741-04	KNOB MIC MIXING		
631	2A	*	K29-5764-03	KNOB VOLUME	MX	
632	2A	*	K29-5767-03	KNOB DOLBY, Ø.T, CD REC.DISPLAY		
633	2A	*	K29-5795-04	KNOB N.B CIRCUIT		
634	2A	*	K29-5805-14	KNOB DUAL SOUND		
635	2A	*	K29-5766-04	KNOB BALANCE		
636	2A	*	K29-5768-04	KNOB INPUT BALANCE		
B	2B		N82-2608-46	BINDIG HEAD TAPTITE SCREW		
C	1A, 2A		N89-3008-45	BINDING HEAD TAPTITE SCREW		
D	1C, 2C		N89-3008-46	BINDING HEAD TAPTITE SCREW		
645	1B		T90-0174-05	LOOP ANTENNA		
646	1B		T90-0175-05	T TYPE ANTENNA		

W : Malaysia made

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

K:USA
T:England
X:Australia

R:Canada
E:Europe
M:Other Areas

⚠ indicates safety critical components

PARTS LIST

NO. 3

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
R11			RS14KB3A820J	FL-PR00F RS 82	KPMX
R31			RS14KB3D221J	FL-PR00F RS 220	KPMX
R42			RD14NB2E101J	RD	KPMX
R111			RD14NB2E470J	RD	KPMX
R127,128			RD14NB2E101J	RD	KPMX
W46			R92-0670-05	CHIP R	KPMX
W48			R92-0670-05	CHIP R	KPMX
S101		*	S62-0034-05	SLIDE SWITCH DE EMPHASIS	M
D3			H255-1N(B2)	ZENER DIODE	KPMX
D4			R05-1ES(B2)	ZENER DIODE	KPMX
D3			H253-3N(B2)	ZENER DIODE	KPMX
D4			R03-3ES(B2)	ZENER DIODE	KPMX
D7			MA110	DIODE	KPMX
D8 , 9			HSS104	DIODE	KPMX
D8 , 9			15S133	DIODE	KPMX
D11			H258-2N(B2)	ZENER DIODE	KPMX
D11			R08-2ES(B2)	ZENER DIODE	KPMX
D11,112			MA110	DIODE	KPMX
IC1			LA1031	IC(AM/FM TUNER)	KPMX
IC2			LC7218	IC(PLL SYNTHESIZER)	KPMX
IC12			NM4565D	IC(OP AMP X2)	KPMX
Q1			2SC2714(R,0)	TRANSISTOR	KPMX
Q2			2SC1845(F,E)	TRANSISTOR	KPMX
Q3			2SC1740S(G,R)	TRANSISTOR	KPMX
Q3			2SC2785(F,E)	TRANSISTOR	KPMX
Q7			2SC2412K	TRANSISTOR	KPMX
Q11			2SD863(E,F)	TRANSISTOR	KPMX
Q102			2SA1037K	TRANSISTOR	KPMX
Q104			2SA1037K	TRANSISTOR	KPMX
Q107-110			25C2412K	TRANSISTOR	M
Q109,110			25C2412K	TRANSISTOR	KPMX
Q111			25A1037K	TRANSISTOR	KPMX
DT1			W02-1167-05	FM FRONT-END ASSY	KPMX

TUNER UNIT(X05-447X-XX)

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
C1 , 2			CK73FB1H103K	CHIP C	TE
C4			CE04LW1C470M	ELECTRO	TE
C5			CK73FB1H223K	CHIP C	TE
C6			CK73FB1E473K	CHIP C	TE
C7			CE04LW1H3R3M	ELECTRO	TE
C8			CK73FB1H682K	CHIP C	TE
C9			CK73FB1H103K	CHIP C	TE
C10			CC73FSL1H350J	CHIP C	TE
C11			CE04LW1V100M	ELECTRO	TE
C12			CE04LW1H010M	ELECTRO	TE
C13			CE04LW1HR33M	ELECTRO	TE
C14			CE04LW1H010M	ELECTRO	TE
C15			CK73FB1H103K	CHIP C	TE
C16			C91-0769-05	CERAMIC	TE
C17			CK73FB1H223K	CHIP C	TE
C21 , 22			CK73FB1H682K	CHIP C	TE
C23			CE04LW1V100M	ELECTRO	TE
C25			CE04LW1V100M	ELECTRO	TE
C27			CE04LW1V100M	ELECTRO	TE

NO. 2

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
647	1A		T90-0185-05	ANTENNA ADAPTØR	TE
650	1A	*	W01-0830-05	CD DISK	TE
TUNER UNIT(X05-446X-XX)					
C1 , 2			CK73FB1H103K	CHIP C	KPMX
C4			CE04LW1A470M	ELECTRO	KPMX
C5			CK73FB1H103K	CHIP C	KPMX
C8			CK73FB1H103K	CHIP C	KPMX
C10			CK73FB1H122K	CHIP C	KPMX
C11			CE04LW1H4R7M	ELECTRO	KPMX
C13			CE04LW1H010M	ELECTRO	KPMX
C14			CE04LW1H2R2M	ELECTRO	KPMX
C21 , 22			CF92EV1H143J	MF	MX
C21 , 22			CF92EV1H243J	MF	KP
C23			CE04LW1H010M	ELECTRO	KPMX
C24			CE04LW1H3R3M	ELECTRO	KPMX
C25			CE04LW1V100M	ELECTRO	KPMX
C27			CK73FB1E473K	CHIP C	KPMX
C28			CE04LW1V100M	ELECTRO	KPMX
C31			CE04LW1A470M	ELECTRO	KPMX
C32			CK73FB1H103K	CHIP C	KPMX
C33			CK73FB1H270J	CHIP C	KPMX
C34			C73FCHI220J	CHIP C	KPMX
C35 - 38			CK73FB1H471K	CHIP C	KPMX
C39			CE04LW1C470M	ELECTRO	KPMX
C40			CK73FB1H223K	CHIP C	KPMX
C41			CE04LW1H010M	ELECTRO	KPMX
C42 , 43			CK73FB1H103K	CHIP C	KPMX
C50			C91-0769-05	CERAMIC	KPMX
C51			CE04LW1H010M	ELECTRO	KPMX
C52			CE04LW1C470M	ELECTRO	KPMX
C57			C73FSL1H220J	CHIP C	KPMX
C65			CE04LW1H010M	ELECTRO	KPMX
C66			CK73FB1H102K	CHIP C	KPMX
C71			CE04LW1V100M	ELECTRO	KPMX
C72			CE04LW1C470M	ELECTRO	KPMX
C107			CK73FB1E473K	CHIP C	KPMX
C112			CC73FSL1H101J	CHIP C	KPMX
C114			CK73FB1H681K	CHIP C	KPMX
C115,116			CC73FSL1H101J	CHIP C	KPMX
C121,122			CE04LW1C470M	ELECTRO	M
C135,136			CF92EV1H682J	MF	KPMX
C182			CC73FSL1H150J	CHIP C	KPMX
J1			E20-0476-05	LOCK TERMINAL BOARD ANTENNA	KPMX
CF1 , 2			L72-0531-05	CERAMIC FILTER	KPMX
CF3			L72-0574-05	CERAMIC FILTER	KPMX
L7			L30-0467-05	SM IFT	KPMX
L10			L40-1091-17	SMALL FIXED INDUCTØR(1UH)	KPMX
L11			L40-1021-14	SMALL FIXED INDUCTØR(1.0MH, K)	KPMX
L12			L40-1091-17	SMALL FIXED INDUCTØR(1UH)	KPMX
L103			L39-1309-05	COMBINATION COIL	KPMX
L106			L40-1091-17	SMALL FIXED INDUCTØR(1UH)	KPMX
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)	KPMX
X2			L78-0295-05	RESONATOR (19KHZ)	KPMX

* 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.

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

L:Scandinavia K:USA P:Canada
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Y:AAFE(S/Europe) X:Australia M:Other Areas

△ indicates safety critical components.

△ indicates safety critical components.

C-B7/L

PARTS LIST

× New Parts

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Telle ohne Parts No. werden nicht geliefert.

NO.5

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名/規格	Desti- nation 向備考
D11		RD8.2ES(B2)	ZENER DIODE	TE
D111, 112		HSS104	DIODE	TE
D111, 112		1SS133	DIODE	TE
IC1		LA1851N	IC(AM, FM TUNER)	TE
IC2		LC7218	IC(PLL SYNTHESIZER)	TE
IC3		NJM4565D	IC(OP AMP X2)	TE
Q1		2SC2714(R, Ø)	TRANSISTOR	TE
Q2		2SC1845(F, E)	TRANSISTOR	TE
Q3, 4		2SC2412K	TRANSISTOR	TE
Q5		2SA1037K	TRANSISTOR	TE
Q7		2SC2412K	TRANSISTOR	TE
Q11		2SD863(CE, F)	TRANSISTOR	TE
Q102, 103		2SA1037K	TRANSISTOR	TE
Q109, 110		2SC2412K	TRANSISTOR	TE
Q111		2SA1037K	TRANSISTOR	TE
Q113, 114		2SC2412K	TRANSISTOR	TE
Q116		2SC2412K	TRANSISTOR	TE
DT1		W02-1166-05	FM FRONT-END ASSY	TE
CONTROL UNIT(X11-348X-XX)				
C1, 2		CK45FBIH471K	CERAMIC 470PF K	
C3		CC45FSL1H101J	CERAMIC 100PF J	
C5, 6		CC45FSL1H221J	CERAMIC 220PF J	
C7, 8		CF92FV1H103J	MF 0.010UF J	
C9, 10		CC45FSL1H221J	CERAMIC 220PF J	
C11 -14		CE04LW1V100M	ELECTRØ 10UF 35WV	
C15, 16		CC45FSL1H220J	CERAMIC 220PF J	
C17, 18		CF92FV1H822J	MF 8200PF J	
C19, 20		CF92FV1H683J	MF 0.068UF J	
C21, 22		CE04LW1V100M	ELECTRØ 10UF 35WV	
C23, 24		CF92FV1H822J	MF 8200PF J	
C25 -34		CE04LW1V100M	ELECTRØ 10UF 35WV	
C35 -36		CE04LW1V487M	ELECTRØ 4.7UF 35WV	
C37, 38		CC45FSL1H221J	CERAMIC 220PF J	
C39 -42		CE04LW1V100M	ELECTRØ 10UF 35WV	
C43, 44		CC45FSL1H220J	CERAMIC 220PF J	
C45, 46		CE04LW1V100M	ELECTRØ 10UF 35WV	
C47, 48		CC45FSL1H220J	CERAMIC 220PF J	
C49, 50		CE04LW1V100M	ELECTRØ 10UF 35WV	
C51, 52		CC45FSL1H470J	CERAMIC 47PF J	
C53 -58		CE04LW1V100M	ELECTRØ 10UF 35WV	
C59, 60		CE04LW1V100M	ELECTRØ 10UF 35WV	
C100, 101		CF92FV1H104J	MF 0.10UF J	
C102, 103	*	C90-3309-05	ALUMINIUM ELECTROLYTIC C.	
C104-107		CF92FV1H104J	MF 0.10UF J	
C108, 109	*	C90-3375-05	ALUMINIUM ELECTROLYTIC C.	
C110, 111		CF92FV1H104J	MF 0.10UF J	
C112-115		CE04LW1E221M	ELECTRØ 220UF 25WV	
C116		CE04LW1H100M	ELECTRØ 10UF 50WV	
C117		CE04LW1H101M	ELECTRØ 100UF 50WV	
C118		CF92FV1H104J	MF 0.10UF J	
C119		CE04LW1C102M	ELECTRØ 1000UF 16WV	
C120, 121		CF92FV1H104J	MF 0.10UF J	
C122	*	C90-3363-05	ALUMINIUM ELECTROLYTIC C.	

× New Parts

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

NO.4

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名/規格	Desti- nation 向備考
C28		CK73FB1E473K	CHIP C 0.047UF K	TE
C31		CE04LW1A470M	ELECTRØ 47UF 10WV	TE
C32		CK73FB1H103K	CHIP C 0.010UF J	TE
C33		CK73FB1H270J	CHIP C 27PF K	TE
C34		CC73FC1H220J	CHIP C 22PF J	TE
C35 -38		CK73FB1H471K	CHIP C 470PF K	TE
C39		CE04LW1C470M	ELECTRØ 47UF 16WV	TE
C40		C992FM1H282M	MYLAR 0.022UF J	TE
C41		CE04LW1H282M	NP-ELEC 2.2UF 50WV	TE
C42, 43		CK73FB1H103K	CHIP C 0.010UF K	TE
C45, 46		CE04LW1V100M	ELECTRØ 10UF 35WV	TE
C47, 48		CE04LW1H091M	ELECTRØ 0.1UF 50WV	TE
C50		C91-0749-05	CERAMIC 0.01UF K	TE
C51		CE04LW1H010M	ELECTRØ 1.0UF 50WV	TE
C52		CE04LW1C470M	ELECTRØ 47UF 16WV	TE
C57		CC73FC1H220J	CHIP C 22PF J	TE
C58, 59		CK73FB1H472K	CHIP C 4700PF K	TE
C65		CE04LW1H010M	ELECTRØ 1.0UF 50WV	TE
C66		C91-0769-05	CERAMIC 0.01UF K	TE
C72		CE04LW1C470M	ELECTRØ 47UF 16WV	TE
C107		CK73FB1E473K	CHIP C 0.047UF K	TE
C121, 122		CE04LW1C470M	ELECTRØ 47UF 16WV	TE
C182		CC73FSL1H150J	CHIP C 15PF J	TE
J1		E20-0321-05	LOCK TERMINAL BOARD ANTENNA	TE
CF1, 2		L72-0536-05	CERAMIC FILTER	TE
L1, 2		L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE
L3		L30-0496-05	PM IFT	TE
L4		L30-0497-05	PM IFT	TE
L5		L79-0125-05	LC FILTER	TE
L7		L30-0467-05	AM IFT	TE
L8, 9		L79-0790-05	LC FILTER	TE
L10		L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE
L103		L39-1310-05	COMBINATION COTL	TE
L106		L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE
X1		L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)	TE
X2		L78-0295-05	RESONATOR (19KHZ)	TE
R31		RS14K830221J	FL-PROOF RS 220 J 2W	TE
R42		RD14NB2E101J	RD 100 J 1/4W	TE
R111		RD14NB2E470J	RD 47 J 1/4W	TE
R127, 128		RD14NB2E101J	RD 100 J 1/4W	TE
VR1		R12-3686-05	TRIMMING POT. (22K)	TE
VR2		R12-3685-05	TRIMMING POT. (10K)	TE
VR3		R12-1619-05	TRIMMING POT. (4.7K)	TE
W101-103		R92-0670-05	CHIP R 0.ØHM	TE
W200-207		R92-0679-05	CHIP R 0.ØHM	TE
W211		R92-0679-05	CHIP R 0.ØHM	TE
D3		HZ55.1N(B2)	ZENER DIODE	TE
D3		RD5.1ES(B2)	ZENER DIODE	TE
D4		HZ53.3N(B2)	ZENER DIODE	TE
D4		RD3.3ES(B2)	ZENER DIODE	TE
D5		HSS104	DIODE	TE
D5		1SS133	DIODE	TE
D11		HZ58.2N(B2)	ZENER DIODE	TE

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

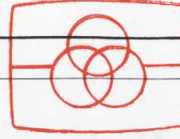
△ indicates safety critical components.

△ indicates safety critical components.

PARTS LIST

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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 仕向備考
D10			R013ES(B2)	ZENER DIODE	
D11			HZS15N(B)	ZENER DIODE	
D12			R015ES(B)	ZENER DIODE	
D13			S5688B	ZENER DIODE	
D14			1SR139-100	DIODE	
D15			HSS104	DIODE	
D16			1SS133	DIODE	
D17			HZS11N(B2)	ZENER DIODE	M
D18			R015ES(B2)	ZENER DIODE	M
D19			HZS6.8N(B2)	ZENER DIODE	
D20			RZD6.8ES(B2)	ZENER DIODE	
D21			HZS5.1N(B2)	ZENER DIODE	
D22			R05.1ES(B2)	ZENER DIODE	
D23			MA177	DIODE	
D24			NJ07313L	IC(ANALOG SWITCH) SELECTOR SW	
D25			NJ07311L	IC(ANALOG SWITCH) ARRAY	
D26			CKA1642P	IC(KARAOKE VOCAL CANCEL)	M
D27			LC4966	IC(CMOS LOGIC BILATERAL SW)	
D28			STK301-220	IC(GRAPHIC)	
D29			TA7812S	IC(VOLTAGE REGULATOR/ +12V)	
D30			UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)	
D31			TA79012S	IC(VOLTAGE REGULATOR/ -12V)	
D32			UPC7912HF	IC(VOLTAGE REGULATOR/ -12V)	
D33			AN780575F	IC(VOLTAGE REGULATOR/+5.75V)	
D34			NJM4555L-D	IC(OP AMP X2)	
D35			TA7812S	IC(VOLTAGE REGULATOR/ +12V)	
D36			UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)	
D37			2SA1175(G,B)	TRANSISTOR	
D38			2SA935(G,R)	TRANSISTOR	
D39			2SA1534A(R,S)	TRANSISTOR	
D40			2SC1740S(G,R)	TRANSISTOR	
D41			2SC2785(F,E)	TRANSISTOR	
D42			2SC2878(B)	TRANSISTOR	
D43			2SC1740S(G,R)	TRANSISTOR	
D44			2SC2785(F,E)	TRANSISTOR	
D45			DTA124ES	DIGITAL TRANSISTOR	
D46			UN4112	DIGITAL TRANSISTOR	
D47			UN4112	DIGITAL TRANSISTOR	
D48			DTA124ES	DIGITAL TRANSISTOR	
D49			DTA124ES	DIGITAL TRANSISTOR	
D50			UN4212	DIGITAL TRANSISTOR	
DISPLAY UNIT(X14-383X-XX)					
D51			B30-1291-05	LED(LN21CPSLX(V)-(TA4))	
D52			CE04LH1V4R7M	ELECTRO	4.7UF 35WV
D53			CF92FV1H103J	MF	0.010UF J
D54			CK45E81H921K	CERAMIC	820PF K
D55			CF92FV1H123J	MF	0.012UF J
D56			CF92FV1H103J	MF	0.010UF J

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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 仕向備考
C123, 124			C90-1839-05	NP-ELEC	
C125			CE04LH1V4R7M	ELECTRO	4.7UF 35WV
C126			CE04LH1C470M	ELECTRO	47UF 16WV
C127, 128			CE04LH1H010M	ELECTRO	1.0UF 50WV
C129			CF92FV1H104J	MF	0.10UF J
C130-133			CE04LH1C101M	ELECTRO	100UF 16WV
C134			CE04LH1C470M	ELECTRO	47UF 16WV
C135-139			CE04LH1A101M	ELECTRO	100UF 10WV
C140			CE04LH1C470M	ELECTRO	47UF 16WV
C141			CE04LH1A101M	ELECTRO	100UF 10WV
C142			CE04H1H4R7M	NP-ELEC	4.7UF 50WV
C143			CE04LH1E101M	ELECTRO	100UF 25WV
C144, 145			CE04LH1V4R7M	ELECTRO	4.7UF 35WV
C146, 147			CE04LH1V100M	ELECTRO	10UF 35WV
C148			CK45FF1H103Z	CERAMIC	0.010UF Z
C149-154			CC45FSL1H221J	CERAMIC	220PF J
C155-156			CC45FSL1H101J	CERAMIC	100PF J
C157-159			C91-0769-05	CERAMIC	0.01UF K
C161			C91-0769-05	CERAMIC	0.01UF K
C162, 163			CC45FSL1H221J	CERAMIC	220PF J
C164			CK45FF1H103Z	CERAMIC	0.010UF Z
C165			CE04LH1V100M	ELECTRO	10UF 35WV
C166			C91-0769-05	CERAMIC	0.01UF K
C167			CK45FF1H103Z	CERAMIC	0.010UF Z
C168			CE04LH1V4R7M	ELECTRO	4.7UF 35WV
C169		*	C90-3374-05	ALUMINIUM ELECTROLYTIC C.	
C170			CE04EM1V221M	ELECTRO	220UF 35WV
C171			CC45FSL1H150J	CERAMIC	15PF
C172, 173			CK45FF1H232Z	CERAMIC	0.022UF Z
J1		*	E58-0006-05	RECTANGULAR RECEPTACLE OUTSIDE	
J2, 3		*	E63-0095-05	PHONE JACK	
A			N89-0333-05	TAPPING SCREW (3X12)	
B			N89-3008-45	BINDING HEAD TAP TITE SCREW	
C			R90-0832-05	MULTI-COMP	4.7KX3 J 1/6W
CP1			RS14KB30391J	FL-PROOF RS	590 J 2W
R200, 201			RS14KB20681J	FL-PROOF RS	660 J 2W
R202, 203			RS14KB30220J	FL-PROOF RS	22 J 2W
R204			RS14KB30821J	FL-PROOF RS	820 J 2W
R205			RS14KB30220J	FL-PROOF RS	22 J 2W
R208-210			RD14NB2E471J	RD	4.7 J 1/4W
R213-216			RD14NB2E471J	RD	4.7 J 1/4W
R218-221			RD14NB2E471J	RD	4.7 J 1/4W
R222-224			RD14NB2E101J	RD	100 J 1/4W
R223, 224			RD14NB2E101J	RD	100 J 1/4W
R225			RD14NB2E471J	RD	4.7 J 1/4W
R226			RD14NB2E102J	RD	1.0K J 1/4W
R227			RD14NB2E152J	RD	1.5K J 1/4W
R228			RD14NB2E471J	RD	4.7 J 1/4W
R229			RD14NB2E102J	RD	1.0K J 1/4W
R277			RS14KB30821J	FL-PROOF RS	820 J 2W
D1			USA3A2	DIODE	
D3			S5688B	DIODE	
D3 -8			1SR139-100	DIODE	
D3 -8			HZS13N(B2)	ZENER DIODE	
D10					

* New Parts
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PARTS LIST

NO.9

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C128, 129		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	M
C130-135		CE04LW1C470M	ELECTRØ 47UF 16WV	KPXTTE
C136, 137		CE04LW1A100M	ELECTRØ 10UF 35WV	
C138		CF92FV1H104J	MF 0.100UF J	
C140		CK45FF1H103Z	CERAMIC 0.010UF Z	M
C141		C91-0749-05	CERAMIC 220PF K	M
C142		C90-3253-05	ELECTRØ 1UF 50WV	M
C143		CC45FL1H220J	CERAMIC 22PF J	M
C144		CK45FB1H102K	CERAMIC 1000PF K	M
C145		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	M
C146, 147		CE04LW1H010M	ELECTRØ 1.0UF 50WV	M
C148		C91-0769-05	CERAMIC 0.01UF K	M
J1		E11-0220-05	MINIATURE PHONE JACK MIC	M
L1	,2	L40-1091-17	SMALL FIXED INDUCTØR(1UH)	
X1		L78-0601-05	RESONATOR (7.16MHZ)	
X2	*	L77-1175-05	CRYSTAL RESONATOR(4.194304MHZ)	
CP1		R90-0850-05	MULTI-CØMP 100KX3 J 1/6W	
CP2		R90-0855-05	MULTI-CØMP 100KX5 J 1/6W	
CP3		R90-0482-05	MULTI-CØMP 100KX4 J 1/6W	
CP4		R90-0803-05	MULTI-CØMP 100KX7 J 1/4W	
R9		RS14KB3A101J	FL-PROOF RS 100 J 1W	
R34		RD14NB2E470J	RD 47 J 1/4W	
R62, 63		RD14NB2E100J	RD 10 J 1/4W	
R138-141		RD14NB2E4R7J	RD 4.7 J 1/4W	
R144		RD14NB2E4R7J	RD 4.7 J 1/4W	
VR1		R29-5057-05	PØTENTIØMETER VOLUME	
VR2		R24-5005-05	PØTENTIØMETER(200K, 200K*2) BAL	M
VR3	*	R10-5068-05	PØTENTIØMETER MIC MIXING	
VR4	*	R11-9024-05	PØTENTIØMETER N.B. CIRCUIT	
VR5	*	R10-5070-05	PØTENTIØMETER(200K*2 CT) L.A.C	
S1 -16		S40-1064-05	PUSH SWITCH KEY BOARD	
D1		HSS104	DIØDE	M
D1 -8		SSS133	DIØDE	M
D10 -13		HSS104	DIØDE	KPXTTE
D10 -13		SSS133	DIØDE	M
D10 -14		HSS104	DIØDE	M
D10 -14		SSS133	DIØDE	M
D15 -17		HSS104	DIØDE	TE
D15 -17		SSS133	DIØDE	TE
D15 -16		HSS104	DIØDE	X
D15 -16		SSS133	DIØDE	X
D16		HSS104	DIØDE	KPM
D16		SSS133	DIØDE	KPM
D18 -19		HSS104	DIØDE	M
D18 -19		SSS133	DIØDE	M
D20		HZS3.9N(B2)	ZENER DIØDE	
D20		RD3.9ES(B2)	ZENER DIØDE	
D21		RZS3.9N(B2)	ZENER DIØDE	
D21		RD3.9ES(B2)	ZENER DIØDE	
ED1		FIP90M6R	INDICATOR TUBE	
IC1	*	UFC78L05J	IC(VØLTAGE REGULATØR/ +5V)	

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NO.8

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C6		CK45FB1H821K	CERAMIC 820PF K	
C7		CF92FV1H123J	MF 0.012UF J	
C8		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	
C9		CE04LW1A101M	ELECTRØ 10UF 10WV	
C10		CF92FV1H104J	MF 0.100UF J	
C11		CE04LW1A101M	ELECTRØ 10UF 10WV	
C12		CF92FV1H104J	MF 0.100UF J	
C13		CE04LW1A101M	ELECTRØ 10UF 10WV	
C14		CF92FV1H104J	MF 0.100UF J	
C15		CK45FF1H103Z	CERAMIC 0.010UF Z	
C16		CF92FV1H104J	MF 0.100UF J	
C17		CE04LW1A101M	ELECTRØ 10UF 10WV	
C18		CF92FV1H392J	MF 3900PF J	
C19		CE04LW1A101M	ELECTRØ 10UF 10WV	
C20, 21		CC45FL1H101J	CERAMIC 100PF J	
C22, 23		CF92FV1H123J	MF 0.012UF J	
C24, 25		CF92FV1H133J	MF 0.013UF J	
C26, 27		CK45FB1H821K	CERAMIC 820PF K	
C28, 29		CF92FV1H473J	MF 0.047UF J	
C30, 31		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	
C32		CE04LW1H100M	ELECTRØ 10UF 50WV	
C33		CE04LW1A101M	ELECTRØ 4.7UF 35WV	
C34		CE04LW1A101M	ELECTRØ 10UF 10WV	
C35		CF92FV1H472J	MF 4700PF J	
C36		CE04LW1C220M	ELECTRØ 22UF 16WV	
C37		CF92FV1H273J	MF 0.027UF J	
C38		CE04LW1H010M	ELECTRØ 1.0UF 50WV	
C39		CF92FV1H333J	MF 0.033UF J	
C40		CF92FV1H334J	MF 0.033UF J	
C41		CF92FV1H104J	MF 0.100UF J	
C42		CE04LW1C470M	ELECTRØ 47UF 16WV	
C43, 44		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	
C45, 46		CC45FL1H101J	CERAMIC 100PF J	
C47, 48		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	
C49		C90-3242-05	ELECTRØ 4.7UF 35WV	
C50 -52		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	
C54, 55		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	
C56, 57		CE04LW1A100M	ELECTRØ 10UF 35WV	
C58		CF92FV1H822J	MF 8200PF J	
C82		C90-3253-05	ELECTRØ 1UF 50WV	
C83, 84	*	C90-3505-05	ALUMINIUM ELECTRØLYTIC C.	
C85		C90-3212-05	ELECTRØ 47UF 6.3WV	
C87		C90-3214-05	ELECTRØ 100UF 6.3WV	
C88		C91-0769-05	CERAMIC 0.01UF K	
C89		C90-1827-05	BACKUP 0.047F 5.5WV	
C90, 91		C91-1239-05	CERAMIC 15PF J	
C92, 93		C91-1241-05	CERAMIC 20PF J	
C100, 101		CF92FV1H473J	MF 0.047UF J	
C104, 105		CF92FV1H561J	MF 560PF J	
C106, 107		CE04HM1H2R2M	NP-ELEC 2.2UF 50WV	
C108, 109		CF92FV1H564J	MF 0.56UF J	
C110, 111		CE04LW1H010M	ELECTRØ 1.0UF 50WV	
C112, 113		CF92FV1H104J	MF 0.100UF J	
C114, 115		CE04LW1V100M	ELECTRØ 10UF 35WV	
C120-125		CE04LW1V4R7M	ELECTRØ 4.7UF 35WV	

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NO.10

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IC2			MS338AL	IC(OPAMP X2)	
IC3			YM7128B	IC(DIGITAL SURROUND)	
IC4 ,5			NJM4565L-D	IC(OP AMP X2)	
IC6			LA2730	IC(DOLBY SYSTEM)	
IC7			NJM4565L-D	IC(OP AMP X2)	
IC8			TC9213P	IC(2CH ELECTRONIC VOLUME)	
IC9 ,10			NJM4565L-D	IC(OP AMP X2)	
IC11			LC4966	IC(CMOS LOGIC BILATERAL SH)	
IC12-15			NJM4565L-D	IC(OP AMP X2)	
IC16			TA8409S	IC(MOTOR CONTROL)	
IC17			NJM4565L-D	IC(OP AMP X2)	M
IC18			MN1381-R(TA)	IC(VOLTAGE DETECT)	
IC18			S-80740AL	IC(VOLTAGE DETECTOR)	
IC19		*	CXPS0120-161Q	IC(MICROPROCESSOR)	
Q1 ,2			2SC1845(F,E)	TRANSISTOR	
Q3 -6			2SC2878(B)	TRANSISTOR	
Q7			2SC4038(Q,R)	TRANSISTOR	
Q8			2SA1175(F,E)	TRANSISTOR	
Q8			2SA933S(Q,R)	TRANSISTOR	M M
A1			W02-1153-05	ELECTRIC CIRCUIT MODULE	

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C-B7/L

SPECIFICATIONS

(C-B7)

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-B7L)

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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KENWOOD ESPAÑA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

PO. BOX 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

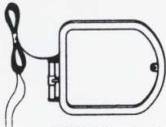

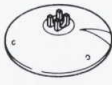
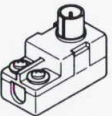

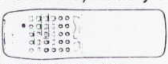


Unit 3712-3724, Level 37 Tower 1, Metroplaza, 223 Hing Fong Road,

Kwai Fong N.T. Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD

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

Accessories

- AM loop antenna 1

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

(T90-0175-05)
- Loop antenna stand 1

(J19-2815-04)
- Antenna adaptor (75 Ω / 300 Ω) 1

(For U.K. and Europe)
(T90-0185-05)
- Batteries(R03 / AAA) 2

- Remote control unit 1

(X94-1050-31)
(F07-0721-23):Battery cover
- AC plug adaptor 1

(Except for some areas)
(E03-0115-05)
- Cord with connector 1

(E30-2738-05)
- CD disk 1
(W01-0830-05)

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