AV SURROUND RECEIVER

KRF-V7510D/VR-208
KRF-V8010D/VR-209
SERVICE MANUAL

KENWOOD

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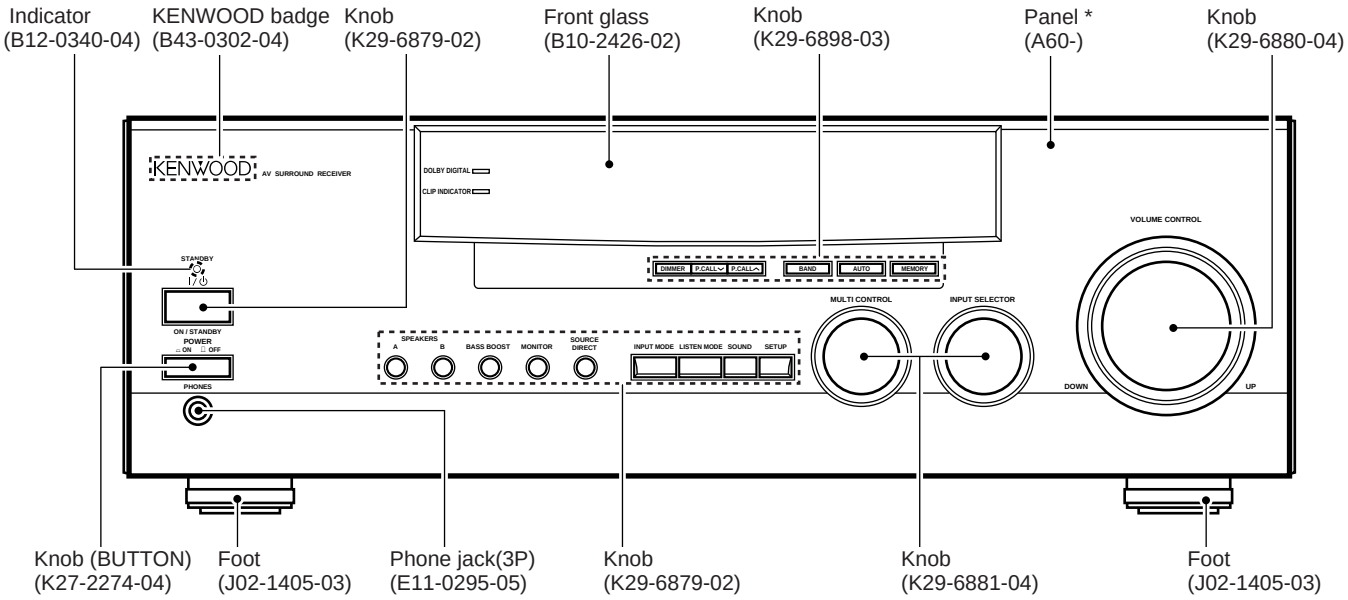

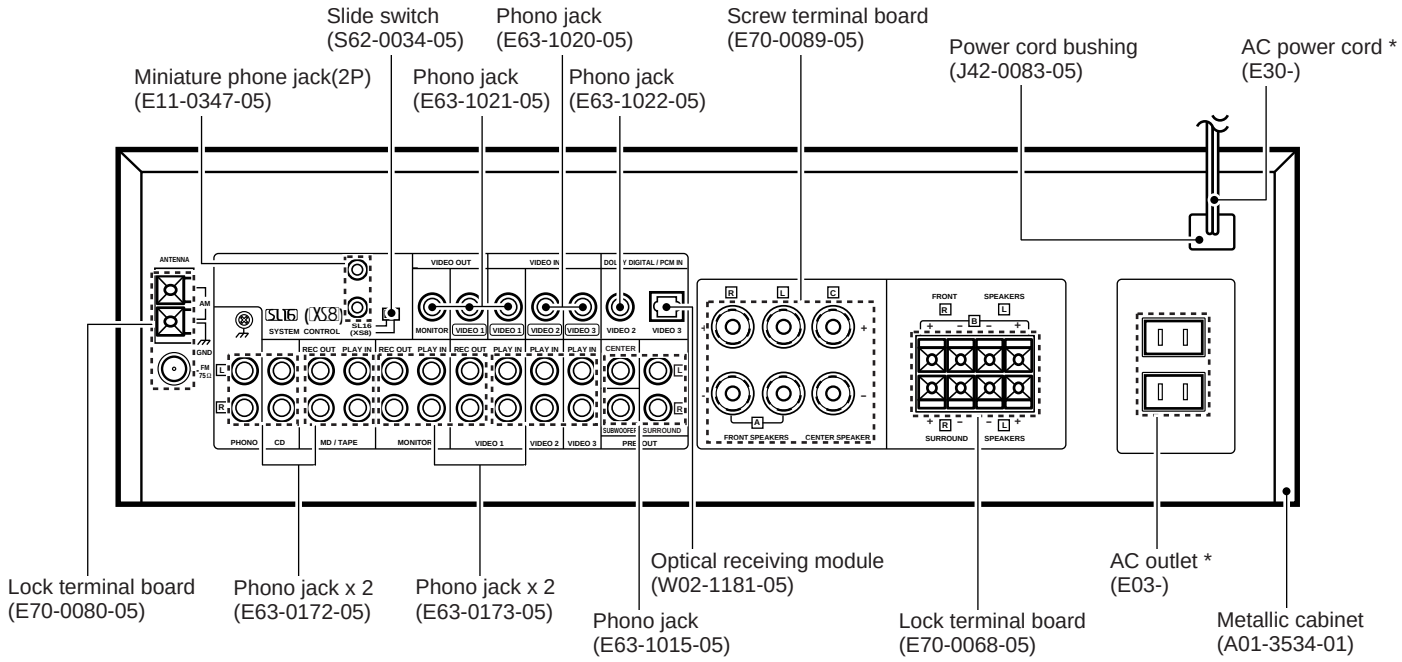

*** Refer to parts list on page 32.**

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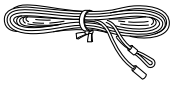
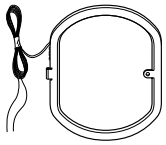
Accessories

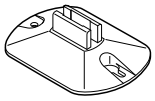
FM indoor antenna (1)
(T90-0810-05)



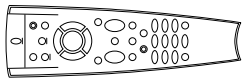
AM loop antenna (1)
(T90-0833-05)



Loop antenna stand (1)

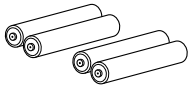


Remote control unit (1)
(A70-1194-05) : KP1Y1K1P2Y2M1
(A70-1195-05) : V

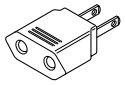


Battery cover (A09-0366-08)

Batteries (R03/AAA) (4)



*AC plug adaptor (1)
(E03-0115-05)



*Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary.)

Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

For U.S.A. and Canada

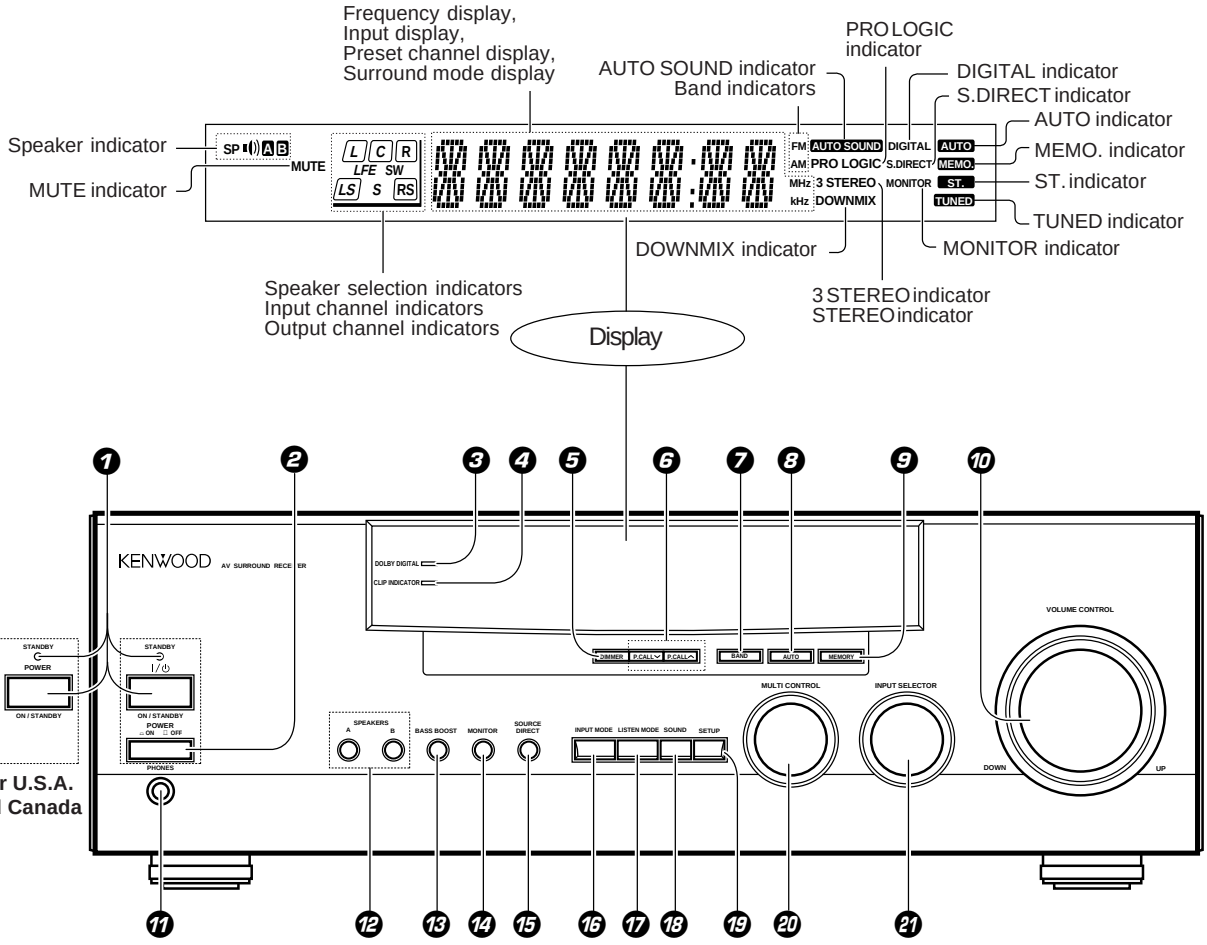
Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

For other countries

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

CONTROLS



❶ **POWER key**
(For U.S.A. and Canada)
Use to turn the power ON/OFF.
STANDBY indicator

❶ **ON/STANDBY (I/⏻) key**
(Except for U.S.A. and Canada)
Use to switch the power ON/STANDBY when the POWER is turned ON.
STANDBY indicator

❷ **POWER key**
(Except for U.S.A. and Canada)
Use to turn the main power ON/OFF.

❸ **DOLBY DIGITAL indicator**
Lights when the receiver is in the Dolby Digital mode.

❹ **CLIP INDICATOR**
Lights when the input signal is too large to be handled by the receiver, and "clipping" is occurring.

❺ **DIMMER key**
Use to adjust the brightness of the display.

❻ **P.CALL keys**
Use to call up previously registered radio stations.

❼ **BAND key**
Use to select the broadcast band.

❽ **AUTO key**
Use to select the auto tuning mode.

❾ **MEMORY key**
Use to store radio stations in the preset memory.

❿ **VOLUME CONTROL knob**

⓫ **PHONES jack**
Use for headphone listening.

⓬ **SPEAKERS A/B keys**
Use to turn the speakers ON/OFF.

⓭ **BASS BOOST key**
Use to select the maximum adjustment setting for the low frequency range.

⓮ **MONITOR key**

⓯ **SOURCE DIRECT key**

⓰ **INPUT MODE key**
Use to switch between the digital and analog inputs.

⓱ **LISTEN MODE key**
Use to select the listening mode.

⓲ **SOUND key**
Use to adjust the sound quality and ambience effects.

⓳ **SETUP key**
Use to select the surround sound settings.

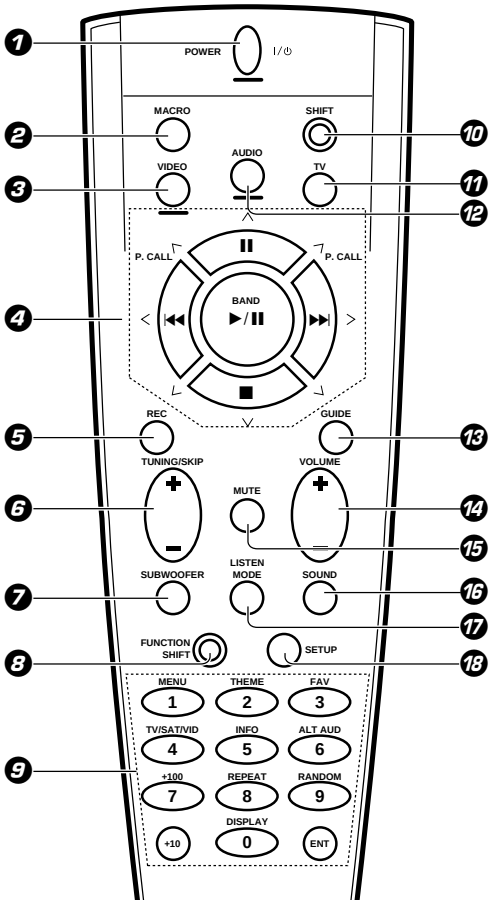
⓴ **MULTI CONTROL knob**
Used to make a variety of settings.

㉑ **INPUT SELECTOR knob**
Use to select the input sources.

About the STANDBY indicator

This unit has a STANDBY indicator. When the STANDBY indicator is lit, the unit consumes a small amount of power to preserve the memory. This is called STANDBY mode. This mode also lets you turn the power ON using the remote control.

CONTROLS



There are some cases in which keys (or knobs) that have the same function on the receiver and on the remote control have different names. In the instructions of this manual, if the names of corresponding keys (or knobs) on the receiver and remote control are different, the name of the remote control key is indicated in parentheses.

❶ **POWER key**
Use to turn the receiver on and off.
Use in combination with the input selector (AUDIO, VIDEO, or TV) keys and SHIFT key to turn various components on and off.

❷ **MACRO key**
Use in combination with the AUDIO, VIDEO, or TV keys to execute a series of commands automatically (MACRO PLAY).

❸ **VIDEO selector key**
Selects the video inputs and sets the remote control to operate the component registered at the respective input.

❹ **Multi control keys**
Use to operate the selected component.

❺ **REC key**
Use to operate the selected component.

❻ **TUNING/SKIP key**
Use during the setup procedure to specify various settings. Use to operate the tuner or selected component.

❼ **SUBWOOFER key**
Use in combination with the VOLUME +/– keys to adjust the volume of the subwoofer.

❽ **FUNCTION SHIFT key**
Use in combination with the numeric keys to execute alternate commands.

❾ **Numeric keys**
Provide functions identical to those of the original remote control supplied with the component you are controlling.
To access the functions printed above the keys, press within 3 seconds of pressing the FUNCTION SHIFT key. Function availability varies for each component.

❿ **SHIFT key**
Use in combination with the AUDIO and VIDEO keys to change the remote control mode without changing the input selector or in combination with the POWER key to turn on and off components programmed into the remote control.

⓫ **TV selector key**
Sets the remote control to operate a TV or cable box. This key does not change the input selector on the receiver.

⓬ **AUDIO selector key**
Selects the audio inputs and sets the remote control to operate the respective KENWOOD audio component.
If you connect audio components from KENWOOD and other makers to the MD/TAPE or CD jacks, you can set the remote control to operate these components by registering the appropriate setup code at the respective input.

⓭ **GUIDE key**
Use to activate the OSD menu functions of registered components.

⓮ **VOLUME key**
Use to adjust the receiver volume.

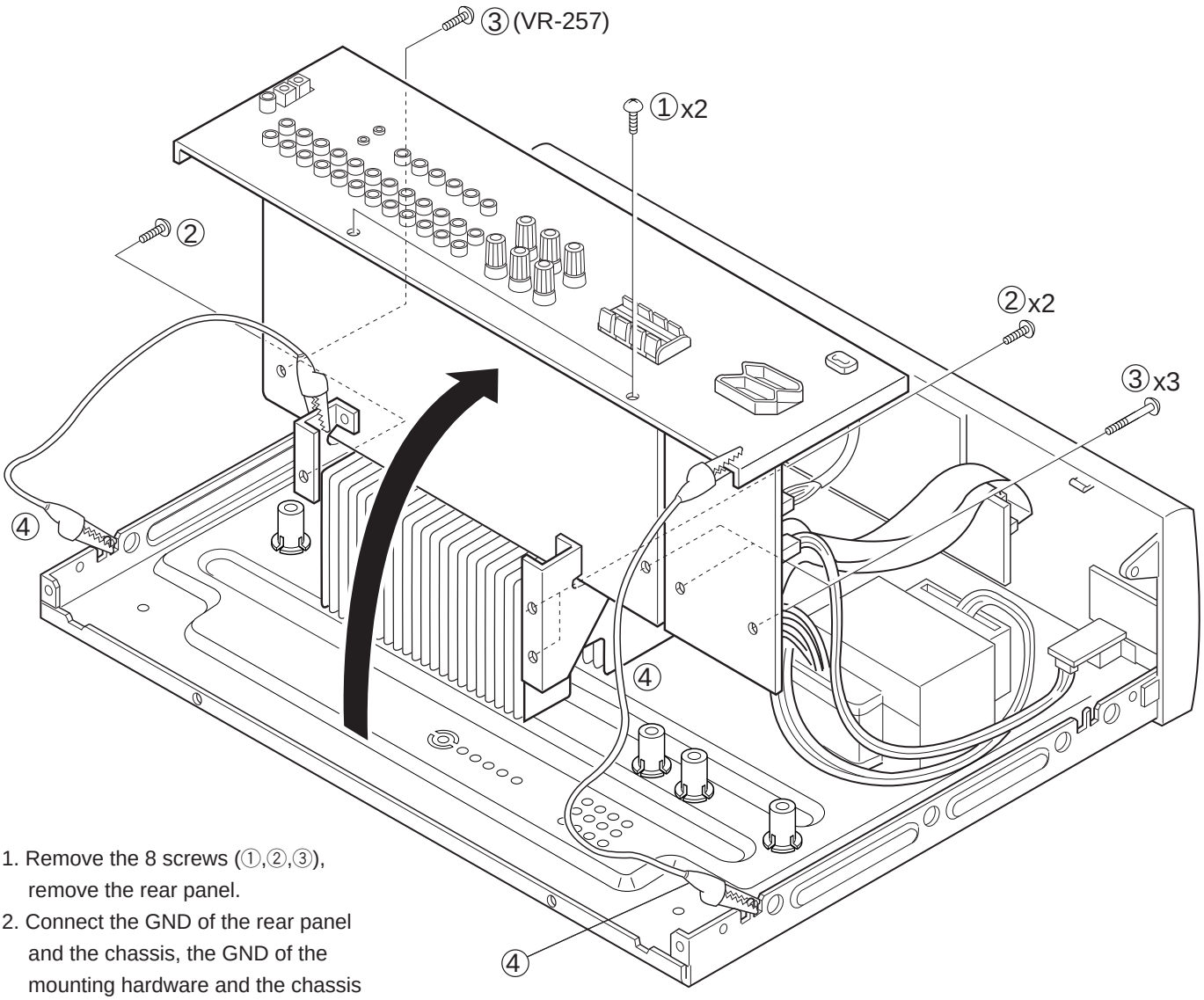
⓯ **MUTE key**
Use to temporarily mute the sound.

⓰ **SOUND key**
Use to adjust the sound quality and ambience effects.

⓱ **LISTEN MODE key**
Use to select the listening mode.

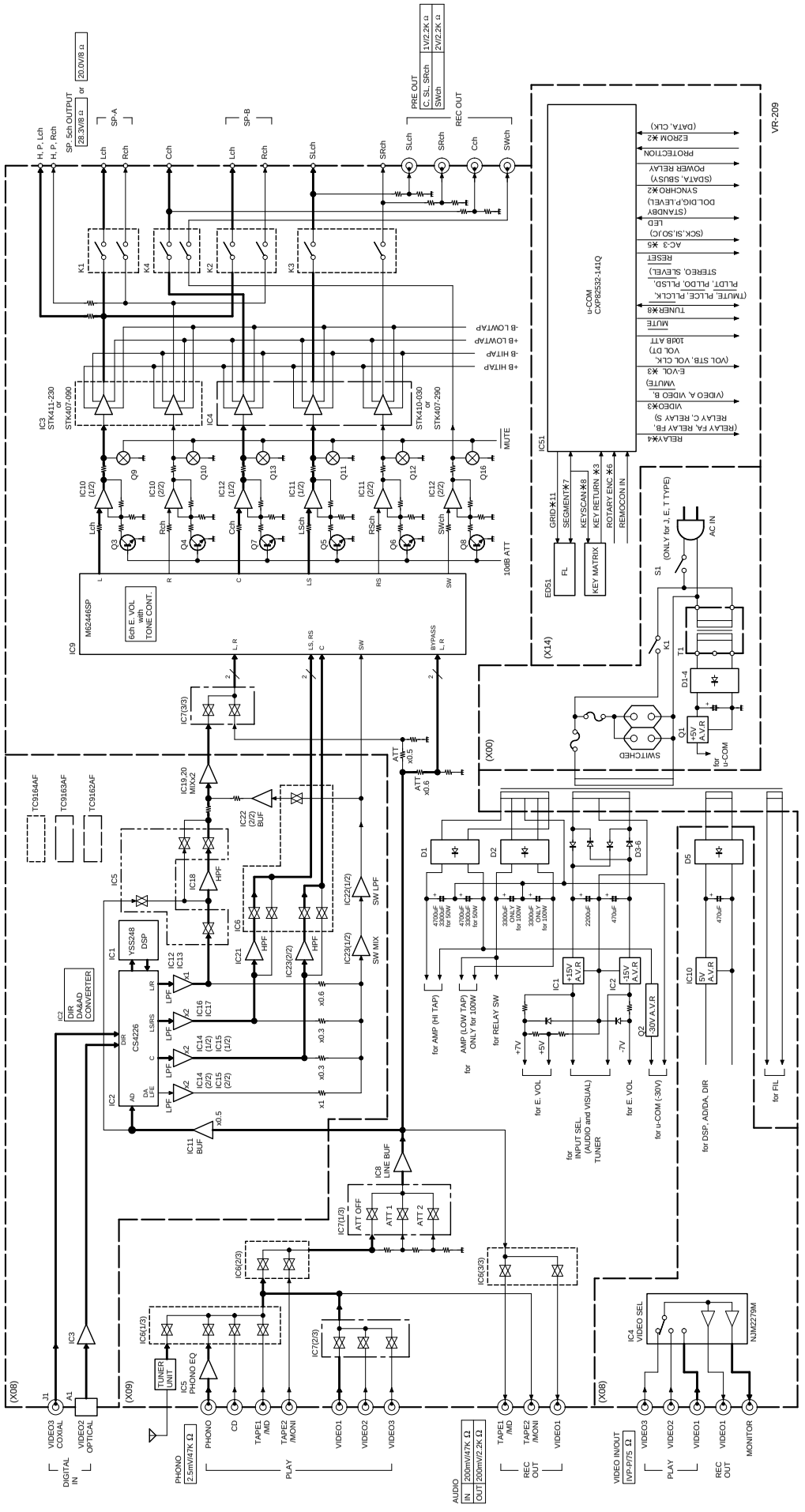
⓲ **SETUP key**
Use to select the surround sound settings.

DISASSEMBLY FOR REPAIR



1. Remove the 8 screws (①,②,③), remove the rear panel.
2. Connect the GND of the rear panel and the chassis, the GND of the mounting hardware and the chassis with 2 alligators clip (④)

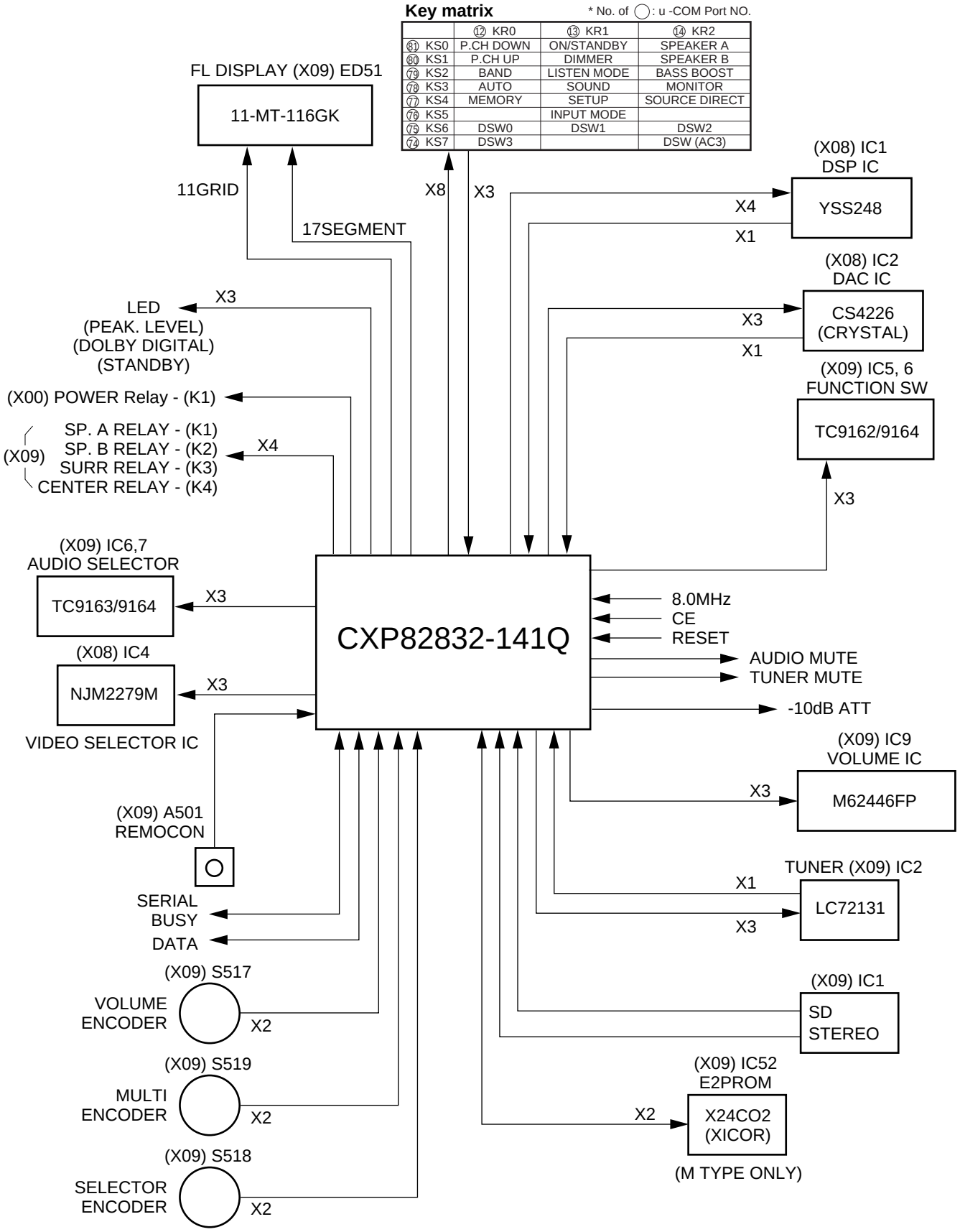
BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Microprocessor CXP82832-141Q(X09 : IC51)

1-1 Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

1-2 Pin description

Pin No.	Pin Name	I/O	Description
1,2	G10,11	O	Display grids 10,11
3	None	–	Ic test mode port.
4,5	None	I	No connect
6	AUDIO	I	Audio signal detection port. L=AUDIO.
7	VOL.ENC.A	I	Volume encoder A(clockwise) output.
8	REMOCON	I	Remote contol signal input.
9	VOL.ENC.B	I	Volume encoder B(counterclockwise) output.
10,11	None	O	Ic test mode port.
12-14	KR0-2	I	Key return 0-2.
15	PROTECT	I	Protection signal detection port. H=PROTECT.
16	S.DATA	I/O	Serial DATA signal.
17	S.BUSY	I/O	Serial BUSY signal.
18	E2.DT	I/O	E2 PROM data.
19	E2.CLK	I/O	E2 PROM clock.
20	SEL.ENC.A	I	Selector encoder A(clockwise) input.
21	SEL.ENC.B	I	Selector encoder B(counterclockwise) input.
22	MULTI.ENC.A	I	Multi encoder A(clockwise) input.
23	MULTI.ENC.B	I	Multi encoder B(counterclockwise) input.
24	SER.IN	I	SL16/XS8 selector. H=16bit.
25	AC3.SCK	O	YSS248 clock output.
26	AC3.SI	I	YSS248 data input.
27	AS3.SO	O	YSS248 data output.
28	Vdd	–	Analog power supply(+5V)
29	None	I	No connect
30	SEL.ST2	O	TC9162AF/63AF/64AF st2 output. H=latch.
31	AC3.CS	O	YSS248 CS output.
32	CODEC.CS	O	CS4226 CS output.
33	PLL.DO	I	Pll ic do signal input port.
34	PLL.ST	I	Tuner stereo signal detection port. L=STEREO.
35	PLL.SD	I	Tuner sd signal detection port. L=TUNED.
36	RCV.CE	I	Receiver chip enable signal port. L=ENABLE.
37	Avss	–	Analog GND.
38	RESET	I	Microproessor reset signal.
39,40	8MHz	I	Main clock generation(8MHz).
41	Vss	–	Microprocessor GND.
42	None	I	No connect
43	TEX	–	GND.
44	Vdd	–	Power supply(+5V).
45	Vfdp	–	Power supply(-33V).
46	SEL.ST1	O	TC9162AF/63AF/64AF st1 output. H=latch.
47	PLL.DT	O	Pll ic data signal output port.
48	PLL.CK	O	Pll ic clock signal output port.
49	PLL.CE	O	Pll ic ce signal output port.
50	T.TUNE	O	Tuner mute control. L=mute on.
51	A.MUTE	O	Output mute control. L=mute on.
52	SW.MUTE	O	Sub woofer mute control. L=mute on.
53	10dB.ATT	O	Volume 10dB attenuation control. H=att. on.
54	VOL.DT	O	Volume ic (M62446SP) data control.
55	VOL.CK	O	Volume ic (M62447SP) clock control. H=active.
56	VOL.ST	O	Volume ic (M62448SP) st control. H=active.
57	VCR.MUTE	O	Video ic (NJU2279D) cont2/4 mute control. L=mute on.
58	VCR.A	O	Video ic (NJU2279D) cont1 mute control. H/L=static.
59	VCR.BB	O	Video ic (NJU2279D) cont3 mute control. H/L=static.
60	FA.RLY	O	Front A speaker relay control. H=relay on.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
61	FB.RLY	O	Front B speaker relay control. H=relay on.
62	C.RLY	O	Center speaker relay control. H=relay on.
63	S.RLY	O	Rear speaker relay control. H=relay on.
64	POWER.RLY	O	Power relay control. H=relay on.
65	STANDBY.LED	O	Standby led control.L=led on.
66	DOL.DIG.LED	O	Dolby digital led control.L=led on.
67	P.LEVEL.LED	O	Peak level led control.L=led on.
68-70	None	O	No connect
71	PACL_CTL	O	Non oscillation of power pack ic at power off. L=stop oscillation.
72	AC3.IC	O	YSS248/CS4226 initial clear port.
73	EMPHASIS	O	Tuner emphasis on/off. H=100k/10k,L=50k/9k.
74-81	P1-8	O	Display segments 1-8 & key returns 0-7.
82-88	P9-15	O	Display segments 9-15.
89	Vdd	O	Microprocessor power supply(+5V)
90,91	P16,17	O	Display segments 16,17
92-100	G1-9	O	Display grids 1-9.

2. DSP YSS248 (X08 : IC1)

2-1 Pin description

Pin No.	Pin Name	I/O	Descriptions
1	Vdd	–	Power supply(+5V)
2~7	TEST	O	Test port.
8	XI	I	Crystal oscillation port.
9	XO	O	Crystal oscillation port.
10	Vss	–	GND
11	CPO	O	PLL output port.
12~18	TEST	I	Test port.
19	VIN	I	PLL input port.
20	Vref	I	PLL input port.
21	Vdd	–	Power supply(+5V)
22~29	TEST	I	Test port.
30	Vss	–	GND
31	Vdd	–	Power supply(+5V)
32~39	OPORT	O	Register output ports.
40	Vss	–	GND
41	Vdd	–	Power supply(+5V)
42~44	TEST	I	Test port.
45~47	SDO2~0	O	PCM output port.
48	SDOBCK	I	Bit clock for SD output ports.
49	SDOWCK	I	Word clock for SD output ports.
50	Vss	–	GND
51	Vdd	–	Power supply(+5V)
52	AC3DATA	O	AC3 data detection port.
53	CRC	O	CRC error detection port.
54	MUTE	O	Automatic mute detection port.
55	KARAOKE	O	AC3 karaoke data detection port.
56	SURENC	O	AC3 2/0 mode dolby surround encode input detection port.
57	2/0MODE	O	AC3 2/0 mode input detection port.3.5
58,59	TEST	I	Test port.
60	Vss	–	GND
61	TEST	I	Test port.
62	/IC	I	Initial clear port.
63~65	TEST	I	Test port.
66	/CS	I	Microprocessor interface chip selector input port.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Descriptions
67	SO	O	Microprocessor interface serial data output port.
68	SI	I	Microprocessor interface serial data input port.
69	SCK	I	Microprocessor interface clock input port.
70	TEST	I	Test port.
71	Vdd	–	Power supply(+5V)
72~79	STREAM	O	STREAM detection port.
80	Vss	–	GND
81	Vdd	–	Power supply(+5V)
82	SDIWCK	I	Word clock for SD input ports.
83	SDIBCK	I	Bit clock for SD input ports.
84,85	SD10,11	I	AC3 bit stream data input port.
86~89	TEST	I	Test port.
90	Vss	–	GND
91	Vdd	–	Power supply(+5V)
92~99	IPORT	I	Register input ports.
100	Vss	–	GND

3. FUNCTION IC TC9162AF(X08:IC5)

CONDITION(PIN NO.)		*(2,27)*	*(3,26)*	*(5,24)*	*(6,23)*
S.DIRECT		ON	OFF	*	*
STEREO		ON	OFF	*	*
SURROUND (DOWN MIX)		OFF	ON	*	*
SETUP	TEST TONE	OFF	ON	*	*
	SW-ch ON	*	*	OFF	ON
	SW-ch OFF	*	*	ON	OFF

4. FUNCTION IC TC9164AF(X08:IC6)

CONDITION(PIN NO.)			*(2)*	*(3-5)*	*(7)*	*(8)*	*(10)*	*(10)*
			C-ch HPF	*C-ch FLAT*	*SW-SW+C*	*–*	*SR-ch FLAT*	*SR-ch HPF*
SETUP	TEST TONE	SW-ch	*	*	ON	ON	*	*
		SW-ch	*	*	OFF	OFF	*	*
	C-ch	NORMAL	ON	OFF	ON	OFF	OFF	ON
		LARGE or NONE	OFF	ON	OFF	OFF	OFF	ON

5. FUNCTION IC TC9164AF(X08:IC6)

CONDITION(PIN NO.)			*(18)*	*(19)*	*(21)*	*(22)*	*(24)*	*(25)*	*(26)*	*(27)*
DOLBY DIGITAL		YSE	ON	OFF	*	*	*	*	ON	ON
		NONE	ON	OFF	*	*	*	*	OFF	OFF
A & B SPEAKER OFF			ON	OFF	ON	OFF	OFF	OFF		
	TEST TONE		ON	OFF	*	*	OFF	OFF	OFF	OFF
SETUP	SW-ch NONE		ON	OFF	*	*	*	*	OFF	OFF
	SW-ch	YES	ON	OFF	OFF	ON	ON	ON	*	*
		NONE	ON	OFF	ON	OFF	OFF	OFF	*	*

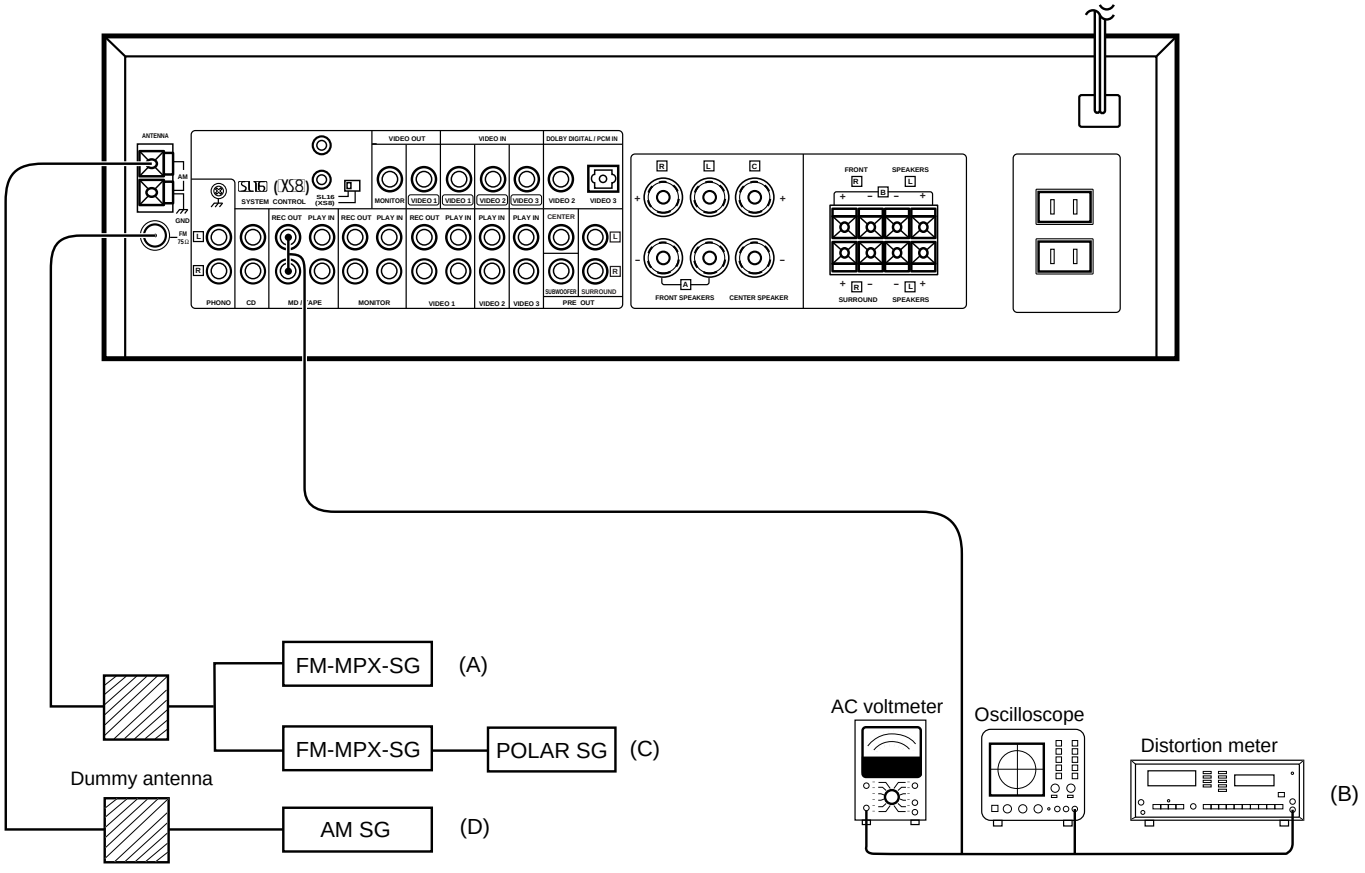
*: Be not concerned with the condition.

6. SPEAKER SETUP

SUB WOOFER	YES				NO					
FRONT SP	LOW CUT FREQ.				FULL FREQ.					
CENTER SP	NORMAL		NO		LARGE		NORMAL		NO	
SURROUND SP	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO
CENTER MODE (PRO LOGIC)	NORMAL	–	PHANTOM	–	WIDE BAND	–	NORMAL	–	PHANTOM	–

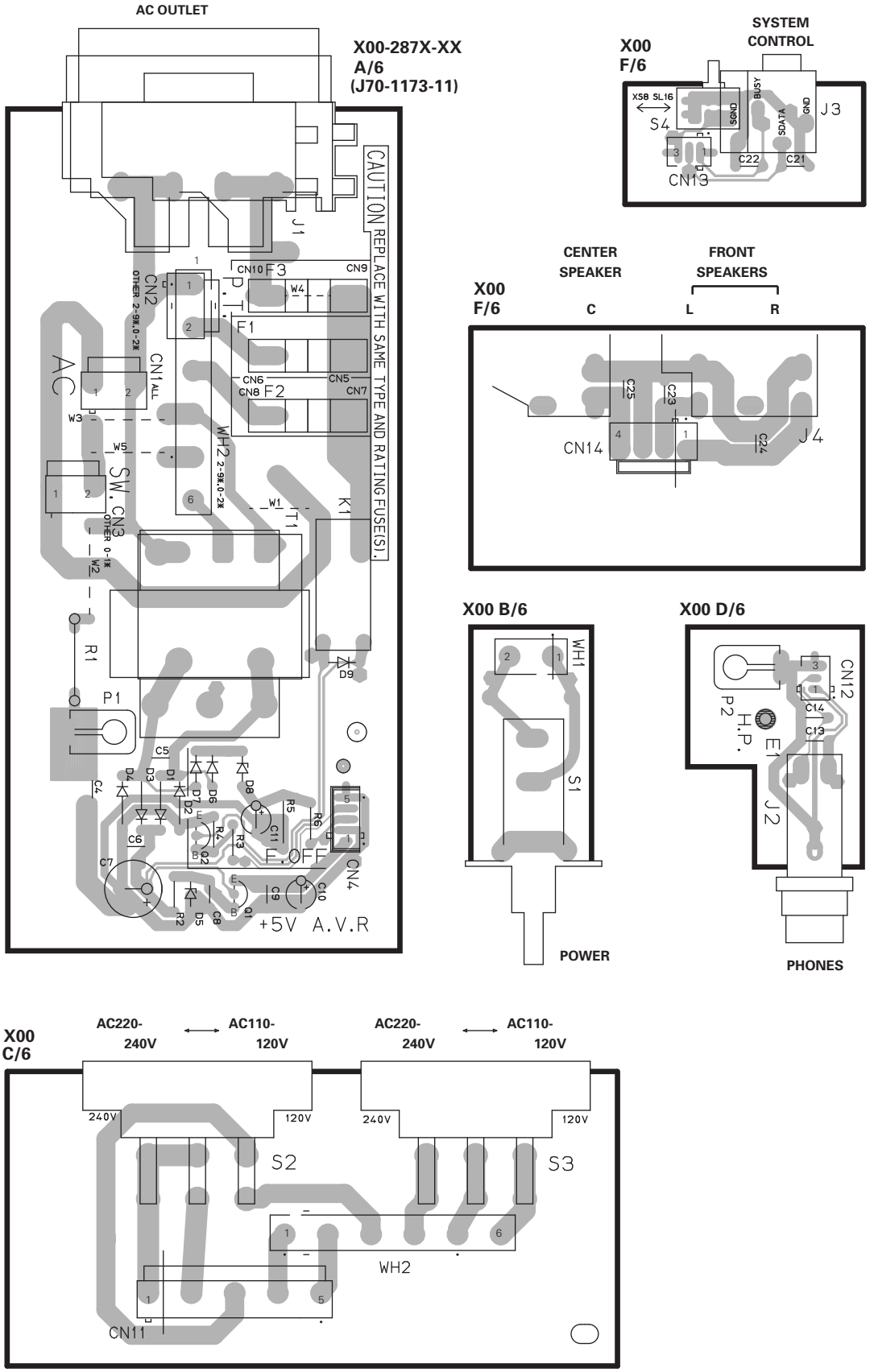
ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		**SELECTOR : FM**					
1	DISTORTION (STEREO)	(A) 98.0MHz 1kHz,±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 70dBf(ANT. input)	(B)	98.0 MHz	IFT (TUNER A1)	Minimum distortion (L or R)	
2	TUNING LEVER	(A) 98.0MHz MONO 1kHz,±75kHz dev. 25dBf(ANT. input)	(B)	MONO 98.0 MHz	VR1 (TUNER UNIT)	Adjust VR1 and stop at the point where ED51 (TUNED) goes on.	



PC BOARD (Component side view)

POWER SUPPLY UNIT

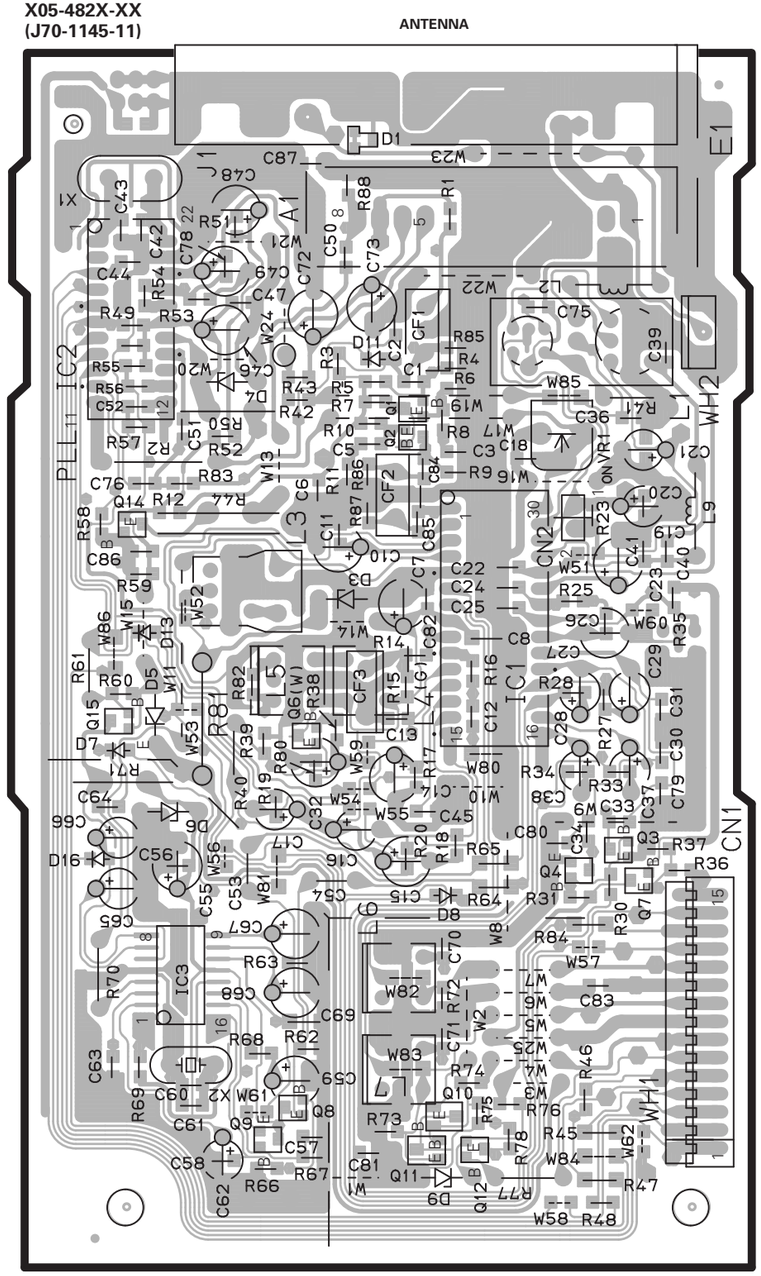


Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

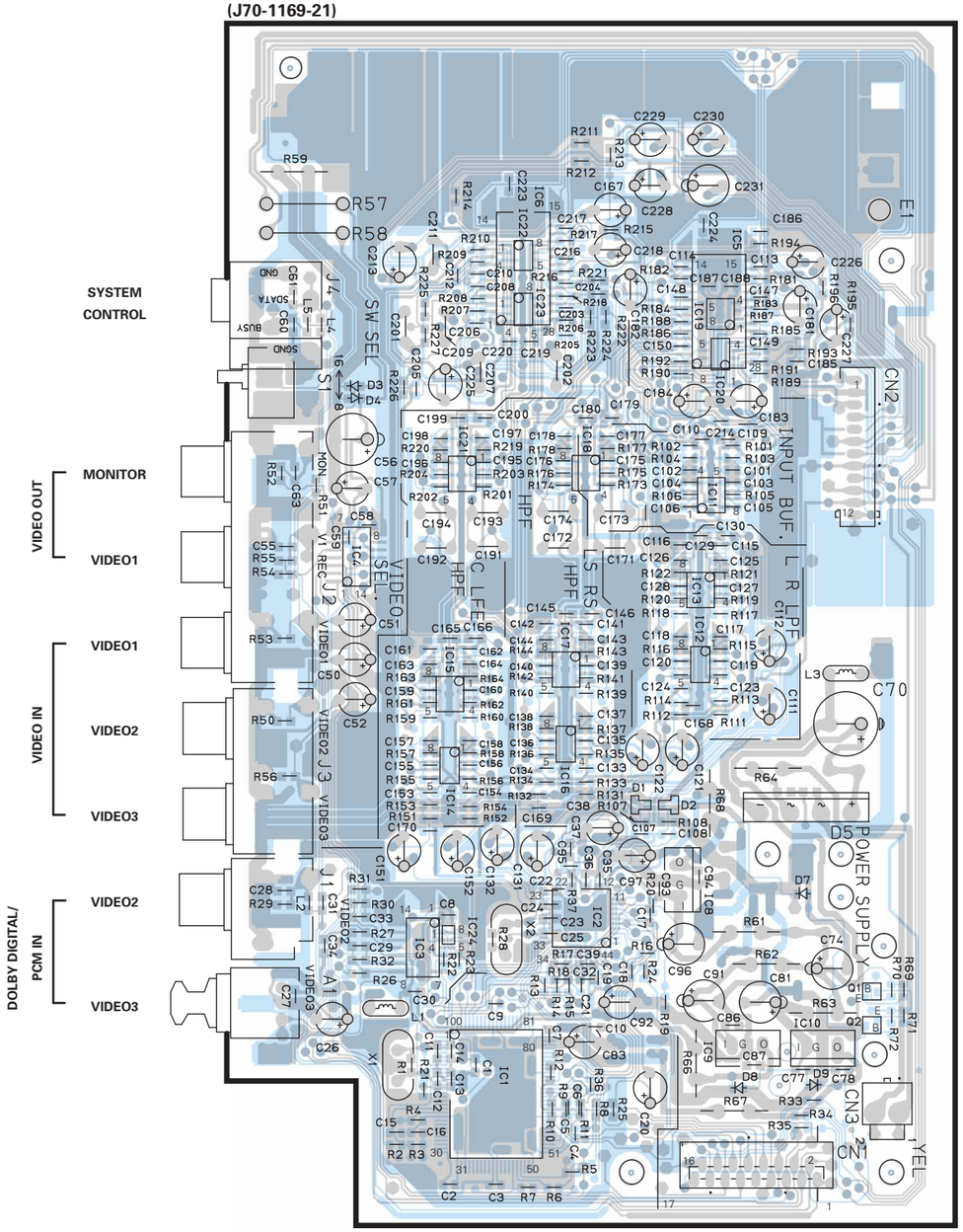
TUNER UNIT

X05-482X-XX
(J70-1145-11)



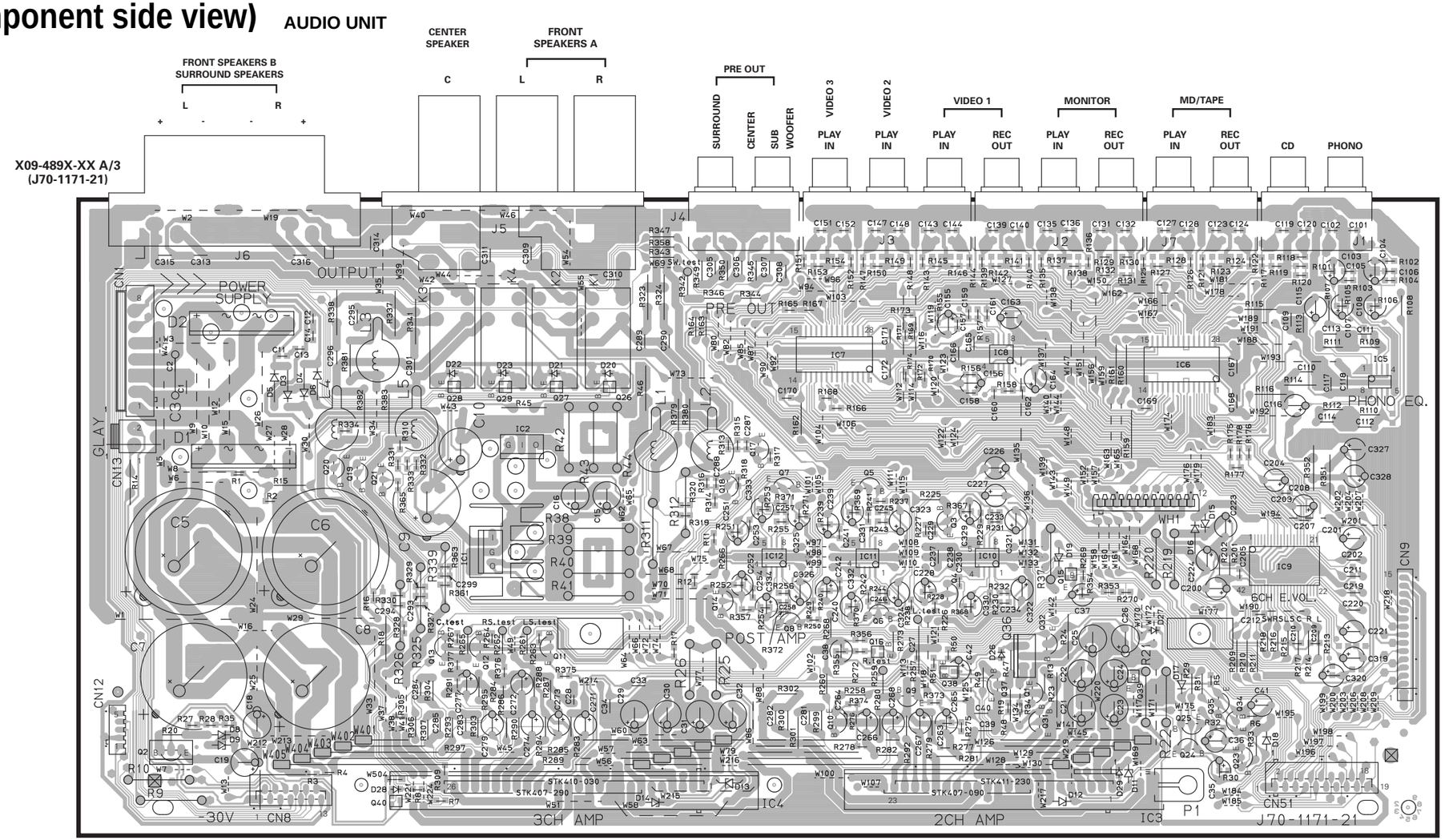
SURROUND UNIT

X08-284X-XX
(J70-1169-21)

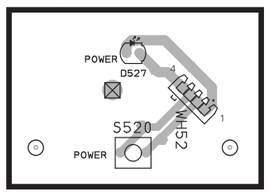


Refer to the schematic diagram for the value of resistors and capacitors.

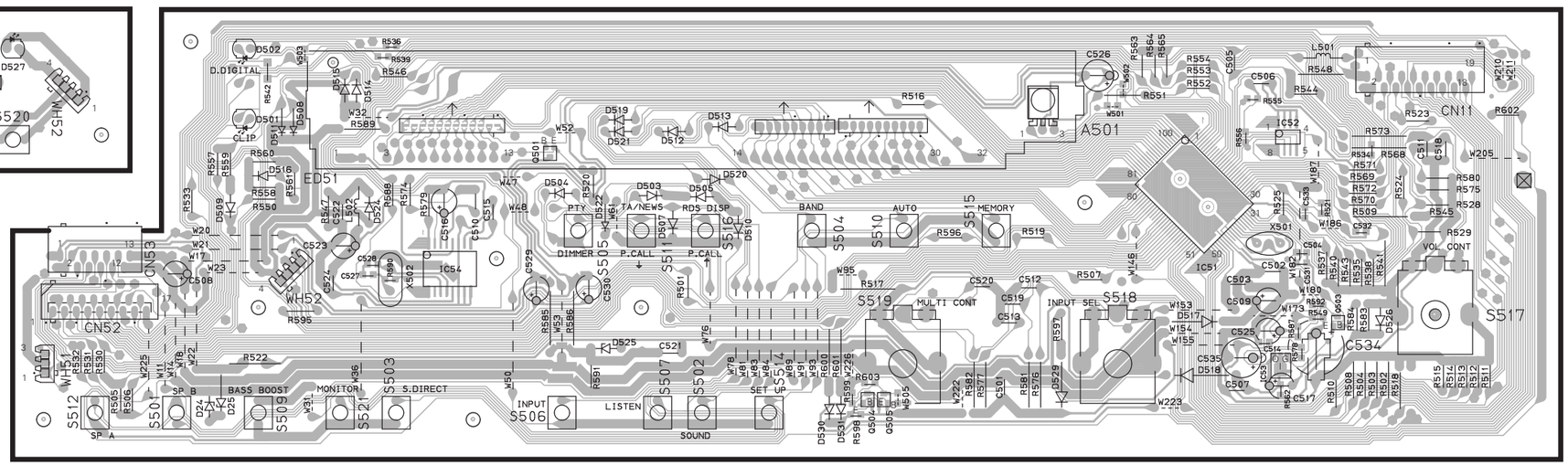
PC BOARD (Component side view) AUDIO UNIT



X09 C/3

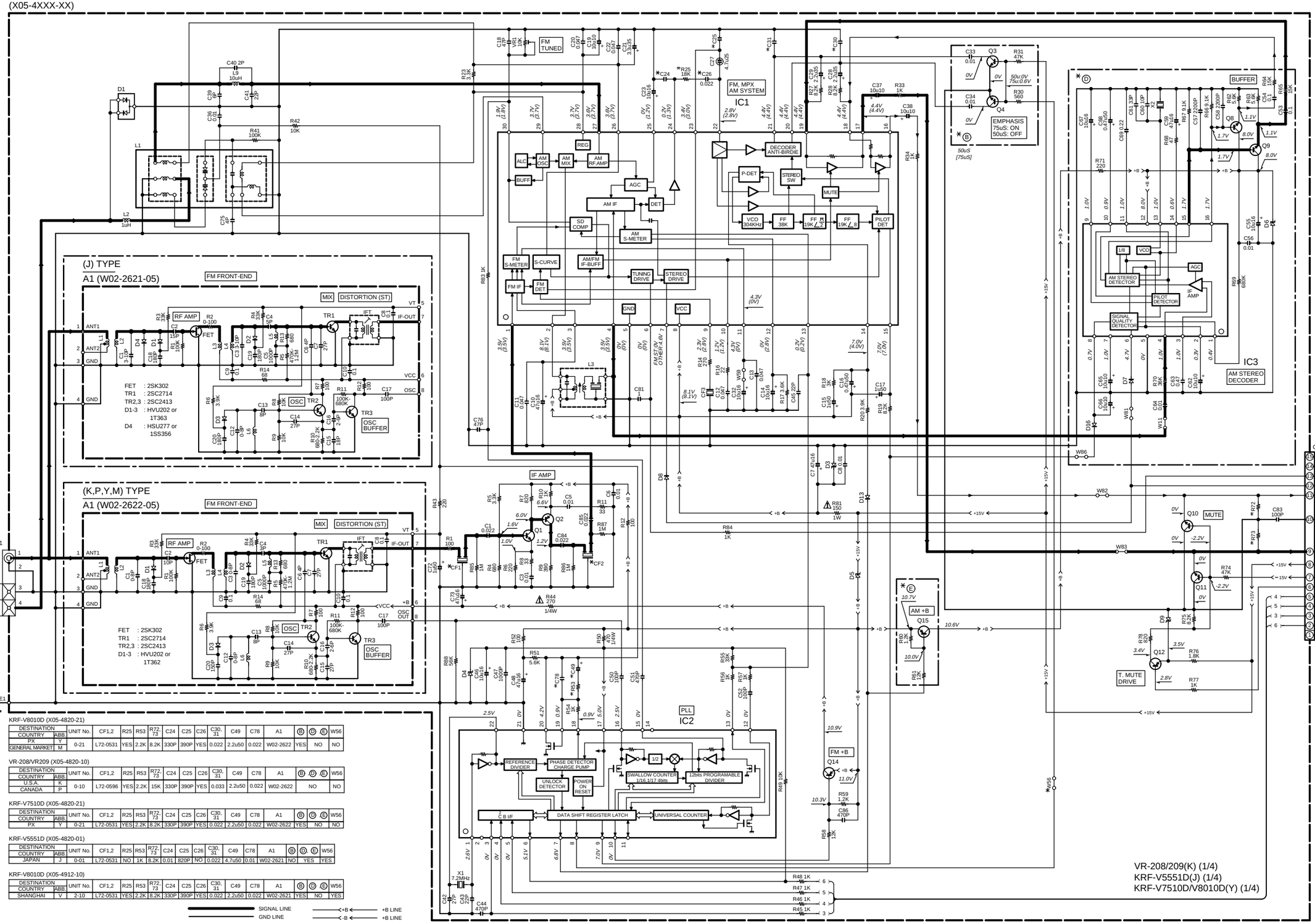


X09 B/3



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

TUNER UNIT
(X05-4XXX-XX)



KRF-V8010D (X05-4820-21)

DESTINATION		UNIT No.	CF1,2	R25	R53	R72, 73	C24	C25	C26	C30, 31	C49	C78	A1	Ⓑ	Ⓓ	Ⓔ	W56
COUNTRY	ABB.																
PX	Y	0-21	L72-0531	YES	2.2K	8.2K	330P	390P	YES	0.022	2.2u50	0.022	W02-2622	YES	NO		NO
GENERAL MARKET	M																

VR-208/VR209 (X05-4820-10)

DESTINATION		UNIT No.	CF1,2	R25	R53	R72, 73	C24	C25	C26	C30, 31	C49	C78	A1	Ⓑ	Ⓓ	Ⓔ	W56
COUNTRY	ABB.																
U.S.A.	K	0-10	L72-0596	YES	2.2K	15K	330P	390P	YES	0.033	2.2u50	0.022	W02-2622		NO		NO
CANADA	P																

KRF-V7510D (X05-4820-21)

DESTINATION		UNIT No.	CF1,2	R25	R53	R72, 73	C24	C25	C26	C30, 31	C49	C78	A1	Ⓑ	Ⓓ	Ⓔ	W56
COUNTRY	ABB.																
PX	Y	0-21	L72-0531	YES	2.2K	8.2K	330P	390P	YES	0.022	2.2u50	0.022	W02-2622	YES	NO		NO

KRF-V5551D (X05-4820-01)

DESTINATION		UNIT No.	CF1,2	R25	R53	R72, 73	C24	C25	C26	C30, 31	C49	C78	A1	Ⓑ	Ⓓ	Ⓔ	W56
COUNTRY	ABB.																
JAPAN	J	0-01	L72-0531	NO	1K	8.2K	0.01	820P	NO	0.022	4.7u50	0.01	W02-2621	NO	YES		YES

KRF-V8010D (X05-4912-10)

DESTINATION		UNIT No.	CF1,2	R25	R53	R72, 73	C24	C25	C26	C30, 31	C49	C78	A1	Ⓑ	Ⓓ	Ⓔ	W56
COUNTRY	ABB.																
SHANGHAI	V	2-10	L72-0531	YES	2.2K	8.2K	330P	390P	YES	0.022	2.2u50	0.022	W02-2621	YES	NO		YES

VR-208/209(K) (1/4)
KRF-V5551D(J) (1/4)
KRF-V7510D/V8010D(Y) (1/4)

IC1	:	LA1838
IC2	:	LC72131
IC3	:	MC13028AM
Q1,3,4,8,9	:	2SC4081(R,S) or 2SC4116(Y,GR)
Q2,12,14,15	:	2SA1576A(R,S) or 2SA1586(Y,GR)
Q10,11	:	2SD1757K
D1	:	DA204U or MA143A or 1SS302
D3,6	:	RD8.2ES(B2) or MTZJ8.2(B)
D4	:	RD5.1ES(B2) or MTZJ5.1(B)
D5	:	RD2.7ES(B2) or MTZJ2.7(B)
D7,8,13,16	:	MA111
D9	:	RD3.3ES(B2) or MTZJ3.3(B)
A1	:	✻

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). 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.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM made.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

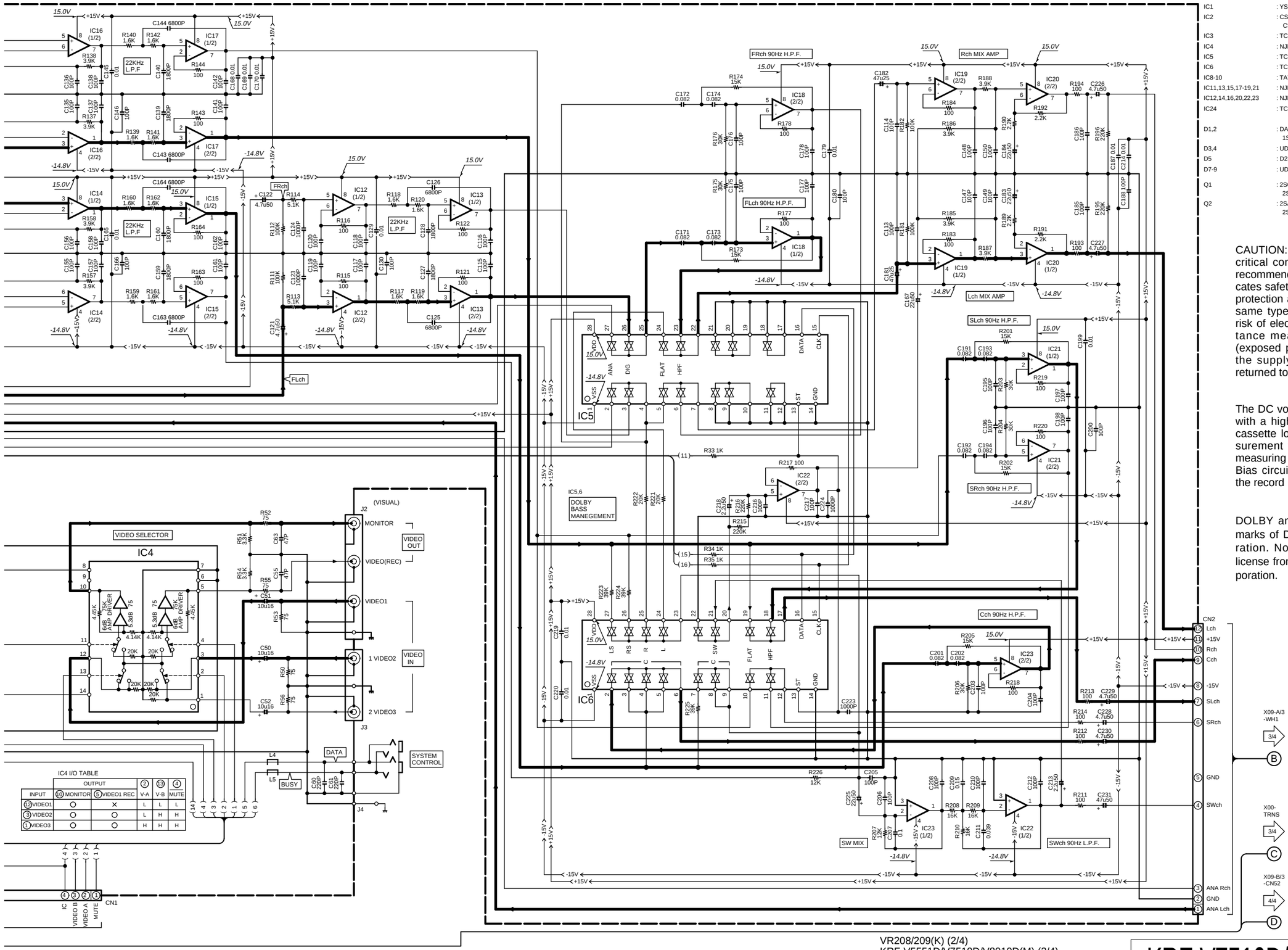
Y05-3600-10

KRF-V7510D/V8010D/VR-208/209

KENWOOD

SURROUND UNIT
(X08-2840-10)

DIGITAL
IC24
IC1
DOLBY DIGITAL (AC-3)
u-COM INTERFACE
CRC
SDI INTERFACE
INPUT BUFFER
BIT STREAM READING PROCESSOR
24bit DSP
SDO INTERFACE
CONTROL RESISTOR
DELAY-RAM
PLL
OPER TION CLOCK (20MHz)
IC2
DIR DAC,A/D CONVERTER
SERIAL AUDIO DATA INTERFACE
SIP DIF AUXILIARY INPUT
CONTROL PORT
INPUT MUX
INPUT GAIN
VOLTAGE REFERENCE
DIGITAL FILTERS
RIGHT ADC
LEFT ADC
MONO ADC
DAC #6
DAC #5
DAC #4
DAC #3
DAC #2
DAC #1
VOLUME CONTRO
CLOCK OSC/ DIVIDER
MUX
DEM
ANALOG LOW PASS AND OUTPUT STAGE
DIGITAL L.Rch
DIGITAL SL.SRch
DIGITAL C.LFEch
DIGITAL VIDEO2
DIGITAL VIDEO3
SRch
SLch
LFEch
Cch
IC3
INTER- FACE
DOLBY DIGITAL /PCM IN
VIDEO3
VIDEO2
IC8
IC9
IC10
5V AVR
IC11 (1/2)
IC11 (2/2)
BUFFER
CN3
PROTECT
SEL CLK
SEL DT
8/16
CR/ CS
YAM CS
STB2
SI
SO
SCK
AUDIO SBUSY
SDATA
XS8
SL16
S1
Q1
Q2
D1
D2
D3
D4
D5
D7
D8
D9
L1
L2
L3
X1 10MHz
X2 12.288MHz
+5V
+15V
-15V
+B
VD+
VA+
0V
4.9V
3.4V
2.9V
2.8V
2.3V
2.4V
1.6V
1.5V
15.0V
-14.8V
5.0V
11.1V
3.7V
2.5V
2.6V
0.8V
4.7V
4.1V
1.1V
4.4V
4.5V
4.3V
3.2V
1.8V
2.1V
3.4V
3.3V
2.6V
4.2V
SDISEL
SDOCKSEL
CONTROL
TESTI27
TESTI28
TESTI29
TESTI30
TESTI20
TESTI19
TESTI18
TESTCKO
TESTO0
TESTO1
TESTO2
TESTO3
TESTO4
TESTO5
TESTR1
TESTR2
TESTO6
TESTO7
TESTO8
TESTO9
TESTI10
TESTI11
TESTI12
TESTI13
TESTI14
TESTI15
TESTI16
TESTI17
R15 220
R9 220
R36 1K
R8 220
R13 220
R14 220
R21 220
R22 1K
R23 220
R25 2.2K
R19 220
R7 220
R6 220
R5 220
R20 100K
R16 100K
R18 1K
R17 1K
R58 390 1W
R59 1 1/4W
R57 390 1W
R70 100
R71 47K
R72 4.7K
R69 47K
R107 1K
R108 1K
R106 100
R105 100
R101 20K
R103 20K
R104 20K
R102 20K
R68 2.2 1/4W
R66 2.2 1/4W
R67 1 1/4W
R61 2.2 1/4W
R62 2.2 1/4W
R63 2.2 1/4W
R64 1 1/4W
C8 0.1
C17 0.01
C20 47u50
C19 0.1
C21 330
C23 12P
C22 12P
C25 15P
C24 15P
C10 330P
C6 1000P
C5 1000P
C7 0.1
C4 0.1
C9 0.1
C14 18P
C13 18P
C11 15P
C12 15P
C1 0.1
C2 0.1
C3 0.1
C15 0.01
C16 0.1
C18 1000P
C26 47u25
C27 0.1
C28 47u25
C30 0.1
C31 0.1
C33 22P
C34 22P
C32 0.1
C39 0.1
C29 22P
C38 2.2u50
C37 0.01
C36 6200P
C35 1000P
C107 680P
C108 680P
C112 10u50
C111 10u50
C105 100P
C103 100P
C109 0.01
C101 22P
C104 100P
C110 100P
C102 22P
C106 100P
C132 4.7u50
C134 1000P
C136 4.3K
C131 4.7u50
C133 1000P
C135 4.3K
C152 4.7u50
C154 1000P
C156 4.3K
C151 4.7u50
C153 1000P
C155 4.3K
C56 470u 6.3
C58 0.01
C57 47u10
C59 0.01
C95 0.1
C97 100u10
C94 0.1
C93 0.1
C92 100u16
C82 100u10
C87 0.1
C86 0.1
C85 100u16
C83 100u10
C78 0.1
C77 0.1
C80 100u16
C74 100u16
C70 100u16
C72 0.22
C73 0.22



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). 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.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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VR208/209(K) (2/4)
KRF-V5551D/V7510D/V8010D(M) (2/4)

Y05-3600-10

KRF-V7510D/V8010D/VR-208/209

KENWOOD

(X09-XXXX-XX) (A/3)

VR-208 (X09-4890-11)

DESTINATION	UNIT No.	C1,2	C3	C5,6	C7,8	C21,22, 29,30	C23-26, 31,32	C33,34, 39,40	D1,11-14, 29	D26	IC3	IC4	Q2	R1,2, 15	R3,4,16, 22,25,26	R13	R21	R27,28, 35	R46	R229, 230	R241, 242,253	R315,316, 329,330,363	R343, 347,358	R367, 368	R369- 371	W4,10,12,28,57,58,60, 129,130,219,220	W56,63, 79,128
COUNTRY ABB.																											
U.S.A. K	0-11	YES	NO	3300u50	NO	NO	47u50	3900P50	NO	MA111	STK407-090K	STK407-290K	2SA1534A(R,S)	27K	NO	56K	6.2K	820	YES	13K	51K	39K	20K	3.3K	6.2K	YES	NO
CANADA P																											

VR-209 (X09-4890-10)

DESTINATION	UNIT No.	C1,2	C3	C5,6	C7,8	C21,22, 29,30	C23-26, 31,32	C33,34, 39,40	D1,12-14, 29	D11	D26	IC3	IC4	Q2	R1,2, 15	R3,4,16, 22,25,26	R13	R21	R27,28, 35	R46	R229, 230	R241, 242,253	R315,316, 329,330,363	R343, 347,358	R367, 368	R369- 371	W4,10,12,28,57,58,60, 129,130,219,220	W56,63, 79,128
COUNTRY ABB.																											
U.S.A. K	0-10	YES	NO	4700u75	3300u42	YES	10u100	3900P500	YES	MTZJ7.5(B) or RD7.5JS(B2)	MA111	STK411-230K or STK411-230D	STK410-030K or STK410-030D	2SB1640	51K	YES	43K	3.9K 1W	2.7K	NO	9.1K	36K	24K	27K	2.4K	5.6K	NO	YES
CANADA P																											

KRF-V5551D (X09-4890-01)

DESTINATION	UNIT No.	C1,2	C3	C5,6	C7,8	C21,22, 29,30	C23-26, 31,32	C33,34, 39,40	D1,12-14, 29	D11	D26	IC3	IC4	Q2	R1,2, 15	R3,4,16, 22,25,26	R13	R21	R27,28, 35	R46	R229, 230	R241, 242,253	R315,316, 329,330,363	R343, 347,358	R367, 368	R369- 371	W4,10,12,28,57,58,60, 129,130,219,220	W56,63, 79,128
COUNTRY ABB.																											
JAPAN J	0-01	YES	NO	4700u63	3300u35	YES	10u100	3900P500	YES	MTZJ7.5(B) or RD7.5JS(B2)	MA111	STK411-230D	STK410-030K or STK410-030D	2SB1640	51K	YES	27K	3.9K 1W	1.8K	NO	13K	51K	24K	20K	3.3K	6.2K	NO	YES

PHONO EQ AMP
INPUT SELECTOR
BYPASS(R)
BYPASS(L)
IC6
IC8 LINE BUFFER
IC7 ATT 1.2 SW VIDEO SEL. AC-3 ON/OFF
IC9 (BOTTOM VIEW) ELECTRIC VOLUME, TONE
MCU I/F
OUTPUT PORT
Q3-8 -10dB ATT
IC10-12 BUFFER
ATT DRIVE
MUTE DRIVE
POWER IC (FL, FRch)
FIRST OFF
PHONO
CD
REC OUT
MD/TAPE
PLAY IN
MONITOR
VIDEO1
VIDEO2 PLAY IN
VIDEO3 PLAY IN
FLch
FRch
SLch
SRch
Cch
SWch
Lch 1
Rch 2
Lch 3
Rch 4
Lch 5
Rch 6
CN12
CN8
CN9
WH1
CN51

KRF-V7510D (X09-4892-91)

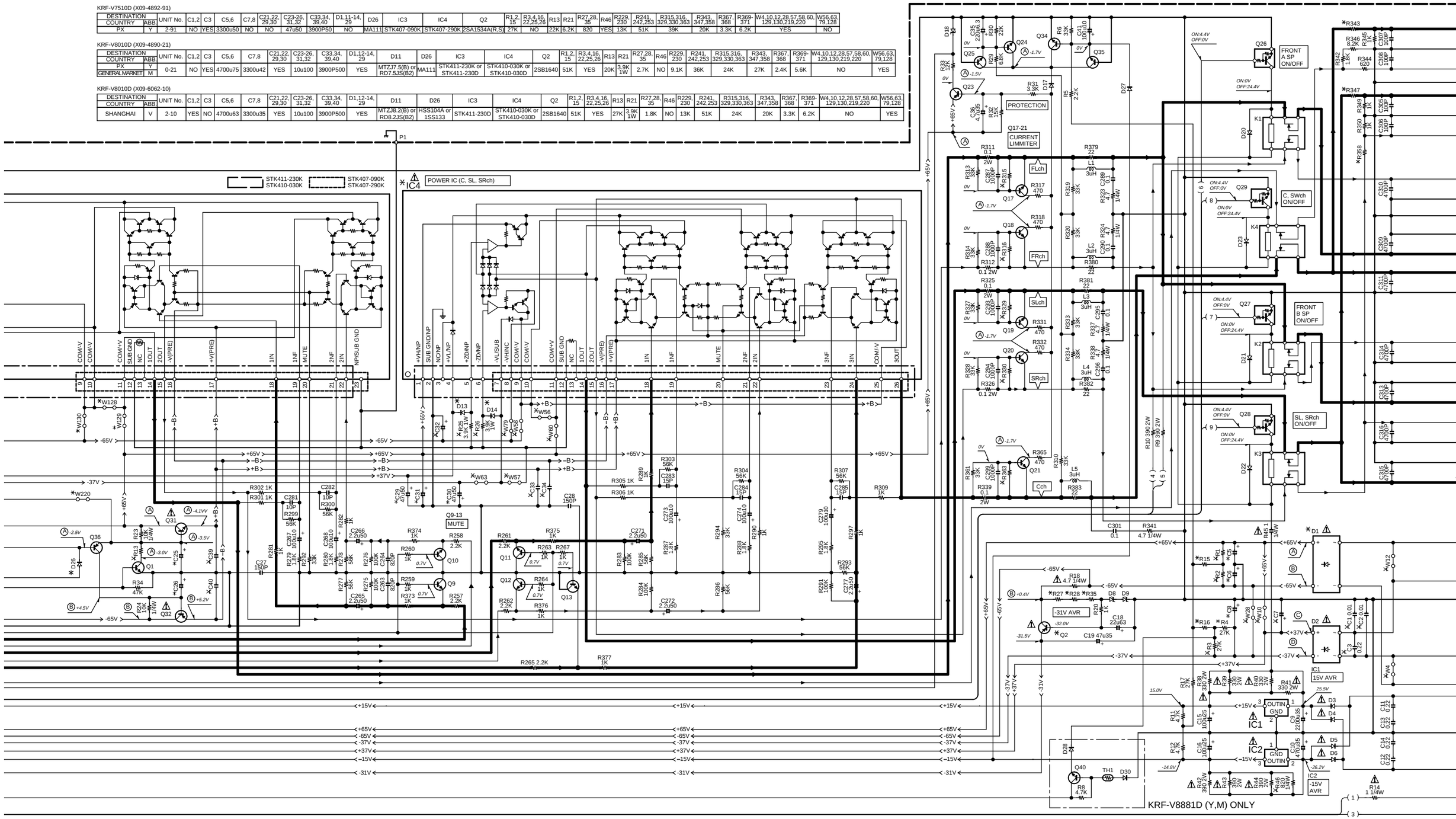
DESTINATION / COUNTRY	ABB.	UNIT No.	C1,2	C3	C5,6	C7,8	C21,22, 29,30	C23-26, 31,32	C33,34, 39,40	D1,11-14, 29	D26	IC3	IC4	Q2	R1,2, 15	R3,4,16, 22,25,26	R13	R21	R27,28, 35	R46	R229, 230	R241, 242,253	R315,316, 329,330,363	R343, 347,358	R367, 368	R369- 371	W4,10,12,28,57,58,60, 129,130,219,220	W56,63, 79,128
PX	Y	2-91	NO	YES	3300u50	NO	NO	47u50	3900P50	NO	MA111	STK407-090K	STK407-290K	2SA1534A(R,S)	27K	NO	22K	6.2K	820	YES	13K	51K	39K	20K	3.3K	6.2K	YES	NO

KRF-V8010D (X09-4890-21)

DESTINATION / COUNTRY	ABB.	UNIT No.	C1,2	C3	C5,6	C7,8	C21,22, 29,30	C23-26, 31,32	C33,34, 39,40	D1,12-14, 29	D11	D26	IC3	IC4	Q2	R1,2, 15	R3,4,16, 22,25,26	R13	R21	R27,28, 35	R46	R229, 230	R241, 242,253	R315,316, 329,330,363	R343, 347,358	R367, 368	R369- 371	W4,10,12,28,57,58,60, 129,130,219,220	W56,63, 79,128
PX	Y	0-21	NO	YES	4700u75	3300u42	YES	10u100	3900P500	YES	MTZJ7.5(B) or RD7.5JS(B2)	MA111	STK411-230K or STK411-230D	STK410-030K or STK410-030D	2SB1640	51K	YES	20K	3.9K 1W	2.7K	NO	9.1K	36K	24K	27K	2.4K	5.6K	NO	YES
GENERAL MARKET	M																											

KRF-V8010D (X09-6062-10)

DESTINATION / COUNTRY	ABB.	UNIT No.	C1,2	C3	C5,6	C7,8	C21,22, 29,30	C23-26, 31,32	C33,34, 39,40	D1,12-14, 29	D11	D26	IC3	IC4	Q2	R1,2, 15	R3,4,16, 22,25,26	R13	R21	R27,28, 35	R46	R229, 230	R241, 242,253	R315,316, 329,330,363	R343, 347,358	R367, 368	R369- 371	W4,10,12,28,57,58,60, 129,130,219,220	W56,63, 79,128
SHANGHAI	V	2-10	YES	NO	4700u63	3300u35	YES	10u100	3900P500	YES	MTZJ8.2(B) or RD8.2JS(B2)	HSS104A or 1SS133	STK411-230D	STK410-030K or STK410-030D	2SB1640	51K	YES	27K	3.9K 1W	1.8K	NO	13K	51K	24K	20K	3.3K	6.2K	NO	YES



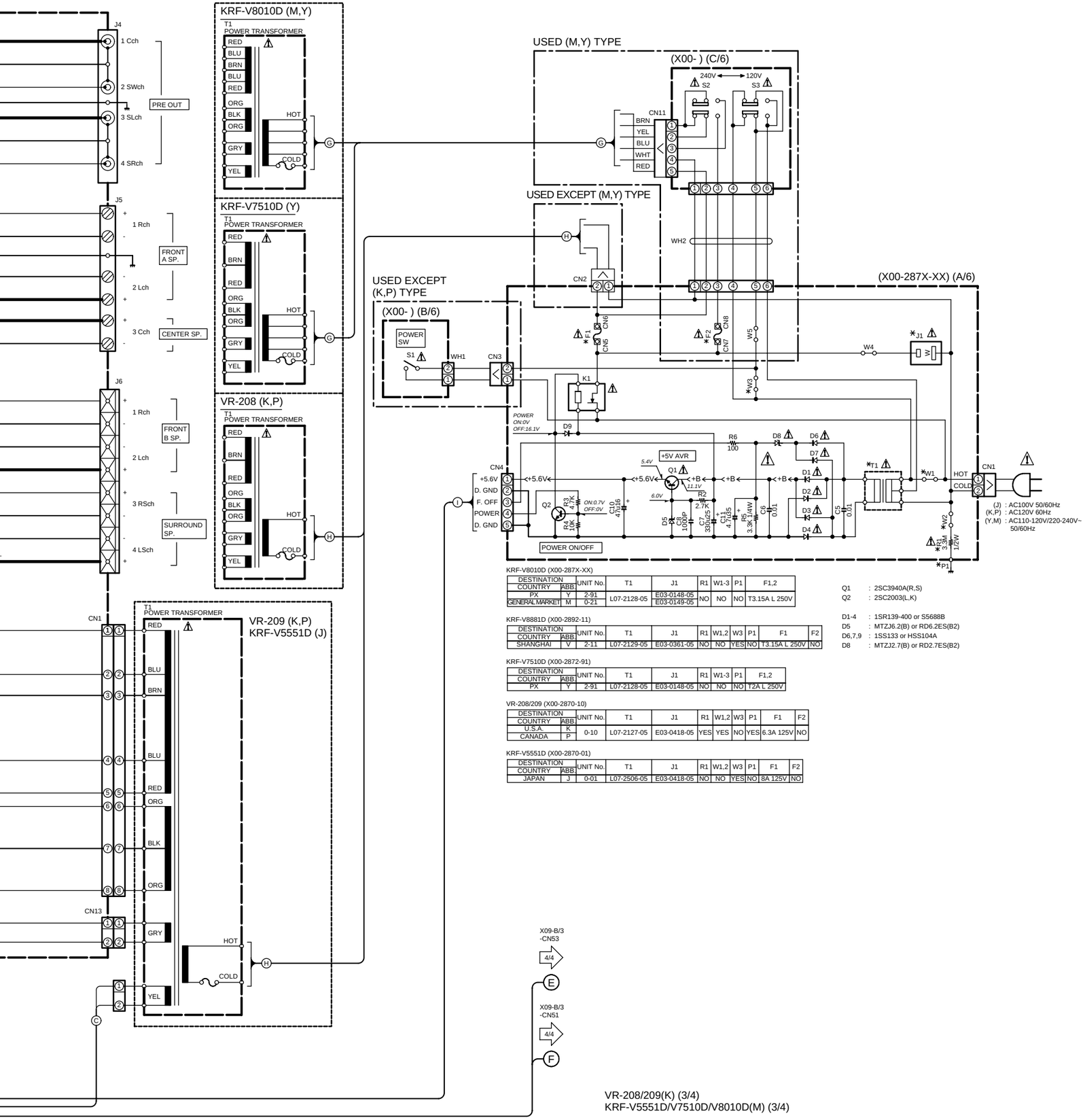
IC1	: TA7815SB	Q1,17-21,24,25,34,35,37	: 2SC1845(F,E)	D1,2	: D4SBL20UF03
IC2	: TA79015SB	Q2	: ✳	D3-6	: 1SR139-400 or S5688B
IC3	: ✳	Q3-14	: 2SC2878(B)	D8,9	: MTZJ16(B) or RD16ES(B2) or HZS16N(B2)
IC4	: ✳	Q15,16	: 2SA1576A(R,S)	D11	: ✳
IC5	: NJM4580ED	Q23	: 2SA992(F,E)	D12-14	: MTZJ8.2(B) or RD8.2ES(B) or HZS8.2N(B2)
IC6	: TC9164AF	Q26-29	: DTC123JUA	D15,16	: MTZJ6.8(B) or RD6.8ES(B) or HZS6.8N(B2)
IC7	: TC9163AF	Q31	: 2SC2631(S,T)	D17	: 1SS133 or HSS104A
IC8,10-12	: NJM4565MD	Q32	: 2SA1123(S,T)	D18	: MTZJ4.7(B) or RD4.7ES(B2) or HZS4.7N(B2)
IC9	: M62446FP	Q36	: 2SA1535(Q,R)	D19	: MTZJ3.3(B) or RD3.3ES(B2) or HZS3.3N(B2)
		Q38	: 2SC3722K(R,S)	D20-23,27-30	: MA111
		Q39	: DTC113ZUA	D26	: ✳
		Q40	: 2SC4116(Y,GR) or 2SC4177(L5,L6)		

DC VOLTAGE FOR IC3

PIN NO / IC3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
STK411-230K	Ⓐ 66.9V	0V	36.1V	Ⓒ 36.3V	28.2V	-28.3V	Ⓓ -36.4V	Ⓑ -66.6V	-36.2V	-36.2V	-36.2V	0V	0V	0V	0V	-62.0V	62.8V	0V	0V	-60.8V	0V	0V	
STK407-090K									Ⓑ Ⓓ -41.5V	Ⓑ Ⓓ -41.5V	Ⓐ Ⓒ 41.5V	0V	0V	0V	0V	-37.9V	38.2V	0V	0V	-36.6V	0V	0V	0V

DC VOLTAGE FOR IC4

PIN NO / IC4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
STK410-030K	Ⓐ 66.9V	0V	36.1V	Ⓒ 36.4V	28.2V	-28.3V	Ⓓ -36.4V	Ⓑ -66.6V	-56.5V	-56.5V	-56.5V	0V	0V	0V	0V	-62.0V	62.8V	0V	0V	-60.8V	0V	0V	0V	0V	-57.9V	0V
STK407-290K									Ⓑ Ⓓ -41.5V	Ⓑ Ⓓ -41.5V	Ⓐ Ⓒ 41.5V	0V	0V	0V	0V	-38.0V	38.2V	0V	0V	-36.8V	0V	0V	0V	0V	-41.5V	0V



KRF-V8010D (X00-287X-XX)

DESTINATION		UNIT No.	T1	J1	R1	W1-3	P1	F1,2
COUNTRY	ABB.							
PX	Y	2-91	L07-2128-05	E03-0148-05	NO	NO	NO	T3.15A L 250V
GENERAL MARKET	M	0-21		E03-0149-05				

KRF-V8881D (X00-2892-11)

DESTINATION		UNIT No.	T1	J1	R1	W1,2	W3	P1	F1	F2
COUNTRY	ABB.									
SHANGHAI	V	2-11	L07-2129-05	E03-0361-05	NO	NO	YES	NO	T3.15A L 250V	NO

KRF-V7510D (X00-2872-91)

DESTINATION		UNIT No.	T1	J1	R1	W1-3	P1	F1,2
COUNTRY	ABB.							
PX	Y	2-91	L07-2128-05	E03-0148-05	NO	NO	NO	T2A L 250V

VR-208/209 (X00-2870-10)

DESTINATION		UNIT No.	T1	J1	R1	W1,2	W3	P1	F1	F2
COUNTRY	ABB.									
U.S.A.	K	0-10	L07-2127-05	E03-0418-05	YES	YES	NO	YES	6.3A 125V	NO
CANADA	P									

KRF-V5551D (X00-2870-01)

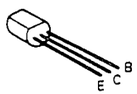
DESTINATION		UNIT No.	T1	J1	R1	W1,2	W3	P1	F1	F2
COUNTRY	ABB.									
JAPAN	J	0-01	L07-2506-05	E03-0418-05	NO	NO	YES	NO	8A 125V	NO

Q1 : 2SC3940A(R,S)
Q2 : 2SC2003(L,K)

D1-4 : 1SR139-400 or S5688B
D5 : MTZJ6.2(B) or RD6.2ES(B2)
D6,7,9 : 1SS133 or HSS104A
D8 : MTZJ2.7(B) or RD2.7ES(B2)

VR-208/209(K) (3/4)
KRF-V5551D/V7510D/V8010D(M) (3/4)

2SA1123
2SA1534A
2SA992
2SC1845
2SC2003
2SC2631
2SC2878
2SC3940A



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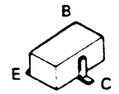
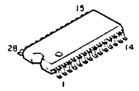
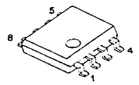
2SC3722K
2SC4081
2SC4116



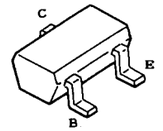
TC9162AF
TC9163AF
TC9164AF



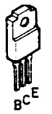
NJM4565M
NJM4565MD
NJM4580ED



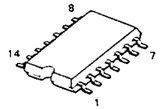
2SD1757K



2SA1535



TC74HCU04AF



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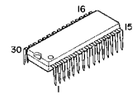
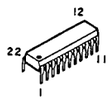
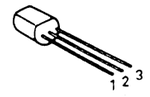


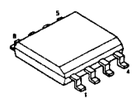
LC72131



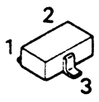
S-80740AL-A4



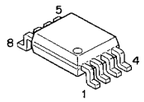
X24C02S



DA204U



TC7W241FU



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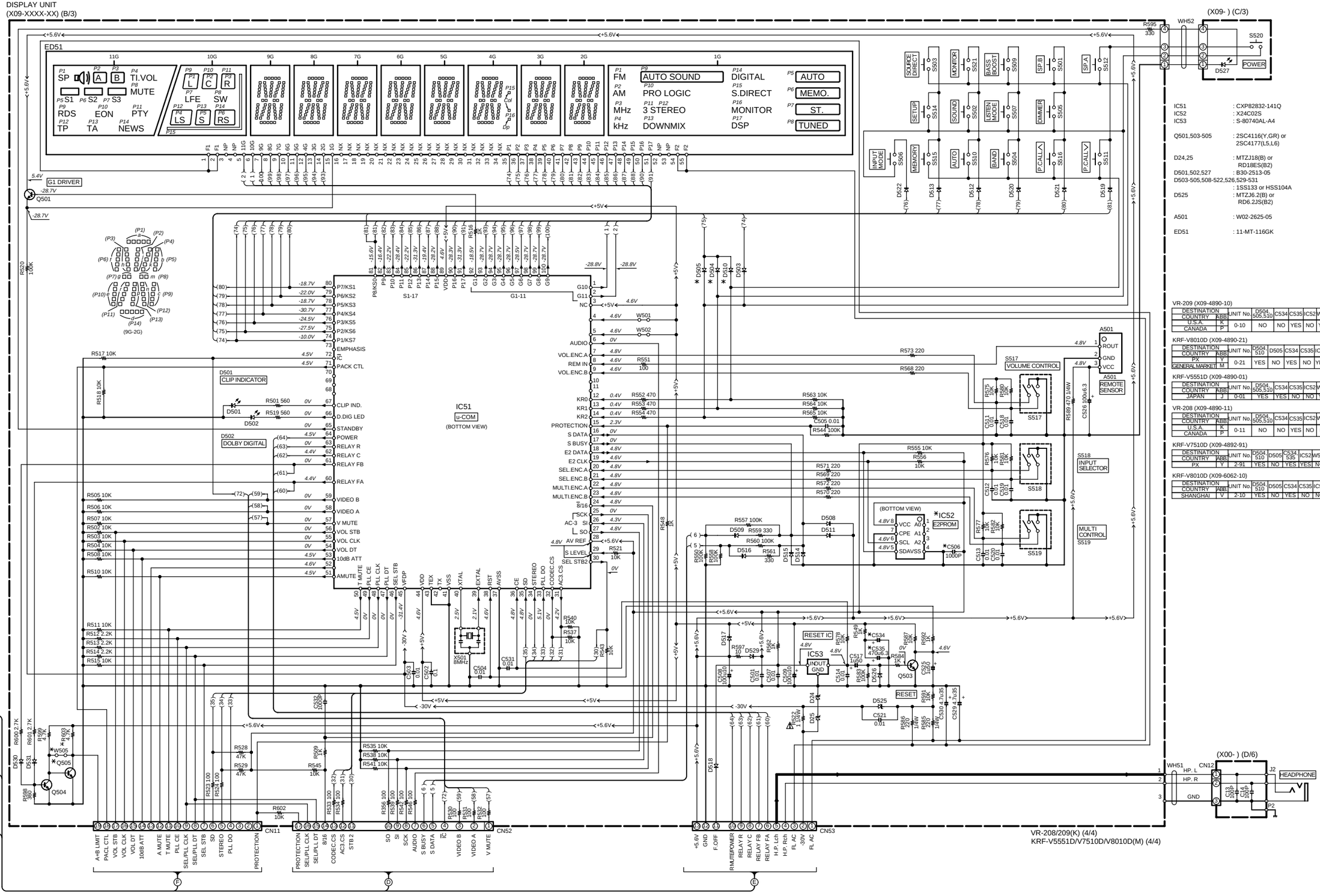
The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

Y05-3600-10

KRF-V7510D/V8010D/VR-208/209

KENWOOD

DISPLAY UNIT
(X09-XXXX-XX) (B/3)



IC51 : CXP82832-141Q
IC52 : X24C02S
IC53 : S-80740AL-A4

Q501,503-505 : 2SC4116(Y,GR) or 2SC4177(L5,L6)

D24,25 : MTZJ18(B) or RD18ES(B2)
D501,502,527 : B30-2513-05
D503-505,508-522,526,529-531 : 1SS133 or HSS104A
D525 : MTZJ6.2(B) or RD6.2JS(B2)

A501 : W02-2625-05

ED51 : 11-MT-116GK

VR-209 (X09-4890-10)

DESTINATION		UNIT No.	D504 505,510	C534	C535	IC52	W505	Q505	R603
COUNTRY	ABB								
U.S.A.	K	0-10	NO	NO	YES	NO	YES	NO	NO
CANADA	P								

KRF-V8010D (X09-4890-21)

DESTINATION		UNIT No.	D504 510	D505	C534	C535	IC52	W505	Q505	R603
COUNTRY	ABB									
PX	Y	0-21	YES	NO	YES	NO	YES	YES	NO	NO
GENERAL MARKET	M									

KRF-V5551D (X09-4890-01)

DESTINATION		UNIT No.	D504 505,510	C534	C535	IC52	W505	Q505	R603
COUNTRY	ABB								
JAPAN	J	0-01	YES	YES	NO	NO	YES	NO	NO

VR-208 (X09-4890-11)

DESTINATION		UNIT No.	D504 505,510	C534	C535	IC52	W505	Q505	R603
COUNTRY	ABB								
U.S.A.	K	0-11	NO	NO	YES	NO	NO	YES	YES
CANADA	P								

KRF-V7510D (X09-4892-91)

DESTINATION		UNIT No.	D504 510	D505	C534 535	IC52	W505	Q505	R603
COUNTRY	ABB								
PX	Y	2-91	YES	NO	YES	YES	NO	YES	YES

KRF-V8010D (X09-6062-10)

DESTINATION		UNIT No.	D504 510	D505	C534	C535	IC52	W505	Q505	R603
COUNTRY	ABB									
SHANGHAI	V	2-10	YES	NO	YES	NO	NO	YES	NO	NO

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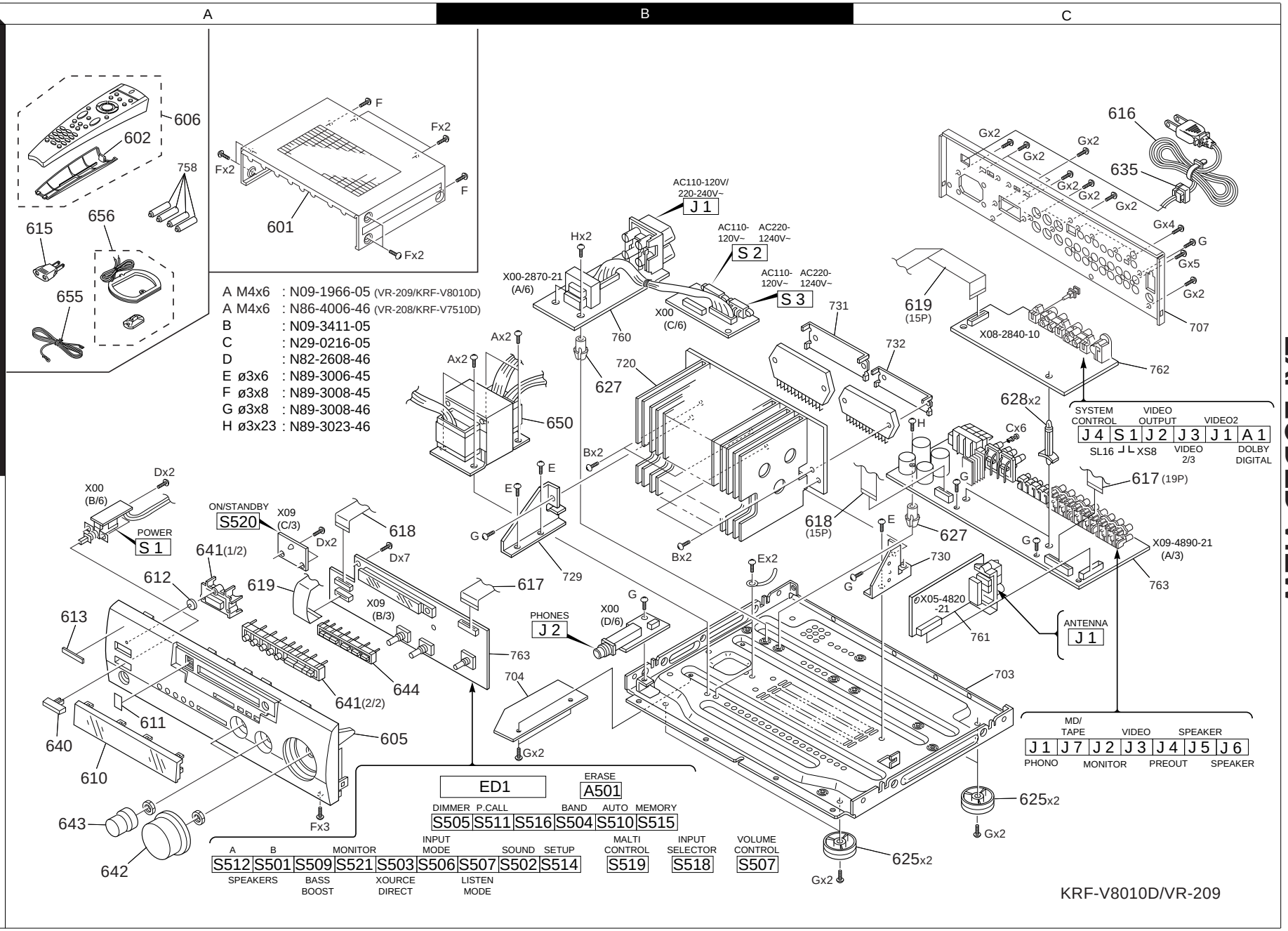
Y05-3600-10

KRF-V7510D/V8010D/VR-208/209

KENWOOD

KRF-V7510D/V8010D/VR-208/209

EXPLODED VIEW



Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
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❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
VR-208/209/KRF-V7510D/V8010D						
601	1A	✻	A01-3534-01	METALLIC CABINET		
602	1A		A09-0366-08	BATTERY COVER		
605	2A	✻	A60-1317-01	PANEL	KP1	
605	2A	✻	A60-1318-01	PANEL	Y1M1	
605	2A	✻	A60-1367-01	PANEL	K1P2	
605	2A	✻	A60-1385-01	PANEL	Y2	
605	2A	✻	A60-1439-01	PANEL	V	
606	1A	✻	A70-1194-05	REMOTE CONTROLLER ASSY	KP1Y1	
606	1A	✻	A70-1194-05	REMOTE CONTROLLER ASSY	K1P2Y2	
606	1A	✻	A70-1194-05	REMOTE CONTROLLER ASSY	M1	
606	1A		A70-1195-05	REMOTE CONTROLLER ASSY	V	
610	2A	✻	B10-2426-02	FRONT GLASS		
611	2A	✻	B11-0361-04	SMOKED FILTER		
612	2A	✻	B12-0340-04	INDICATOR		
613	2A		B43-0302-04	KENWOOD BADGE		
-			B46-0197-00	QUESTIONAIRE CARD	KK1	
-			B46-0329-03	WARRANTY CARD	V	
-			B46-0330-03	WARRANTY CARD	KY1K1	
-			B46-0330-03	WARRANTY CARD	Y2	
-			B46-0336-03	WARRANTY CARD	P1P2	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y1Y2	
-			B58-0964-13	CAUTION CARD (UL)	KY1K1	
-			B58-0964-13	CAUTION CARD (UL)	Y2	
-			B58-0966-13	CAUTION CARD (PL)	M1	
-			B58-0967-03	CAUTION CARD (PL)	P1P2	
-			B58-1546-03	CAUTION CARD	V	
-			B59-1104-00	SERVICE DIRECTORY	Y1Y2	
-		✻	B60-3598-00	INSTRUCTION MANUAL(ENG)	KP1Y1	
-		✻	B60-3598-00	INSTRUCTION MANUAL(ENG)	K1P2Y2	
-		✻	B60-3598-00	INSTRUCTION MANUAL(ENG)	M1	
-		✻	B60-3600-00	INSTRUCTION MANUAL(FRN)	P1P2	
-		✻	B60-3602-00	INSTRUCTION MANUAL(SPN,CHN)M1		
-			B60-3603-00	INSTRUCTION MANUAL(CHAINA)	V	
-		✻	B60-3618-00	INSTRUCTION MANUAL(ENG)	KP1Y1	
-		✻	B60-3618-00	INSTRUCTION MANUAL(ENG)	K1P2Y2	
-		✻	B60-3618-00	INSTRUCTION MANUAL(ENG)	M1	
-		✻	B60-3620-00	INSTRUCTION MANUAL(FRN)	P1P2	
-		✻	B60-3621-00	INSTRUCTION MANUAL(SPN,CHN)M1		
-			B60-3622-00	INSTRUCTION MANUAL(CHN)	V	
⚠ 615	1A		E03-0115-05	AC PLUG ADAPTER	M1	
⚠ 616	1C		E30-2605-05	AC POWER CORD	Y1Y2	
⚠ 616	1C		E30-2824-15	AC POWER CORD	V	
⚠ 616	1C		E30-2842-05	AC POWER CORD	M1	
⚠ 616	1C		E30-2849-05	AC POWER CORD	KP1K1	
⚠ 616	1C		E30-2849-05	AC POWER CORD	P2	
617	2B,1C	✻	E35-2016-05	FLAT CABLE		
618	2A,2B	✻	E35-2017-05	FLAT CABLE		
619	2A,1C	✻	E35-2018-05	FLAT CABLE		
⚠ F1			F50-0076-05	FUSE(5X20) 125V 6.3A	K1P2	
⚠ F1			F50-0077-05	FUSE(5X20) 125V 8A	KP1	
⚠ F1 ,2			F50-0099-05	FUSE(5X20) 250V T2A	Y2	
⚠ F1 ,2			F50-0101-05	FUSE(5X20) 250V T3.15A	Y1M1V	

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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
-		✻	H10-7418-02	POLYSTYRENE FOAMED FIXTURE L		
-		✻	H10-7419-02	POLYSTYRENE FOAMED FIXTURE R		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		✻	H50-2715-04	ITEM CARTON CASE	KP1	
-		✻	H50-2716-04	ITEM CARTON CASE	M1	
-		✻	H50-2717-04	ITEM CARTON CASE	Y1	
-		✻	H50-2719-04	ITEM CARTON CASE	K1P2	
-		✻	H50-2720-04	ITEM CARTON CASE	V	
-		✻	H50-2843-04	ITEM CARTON CASE	Y2	
625	2C		J02-1405-03	FOOT (D=46,H=14.5,T)		
627	1B,2C		J19-5787-04	UNIT HOLDER		
628	1C		J19-5919-05	UNIT HOLDER		
⚠ 635	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
640	2A		K27-2274-04	KNOB (BUTTON)	Y1M1V	
641	2A	✻	K29-6879-02	KNOB		
642	2A	✻	K29-6880-04	KNOB		
643	2A	✻	K29-6881-04	KNOB		
644	2A	✻	K29-6898-03	KNOB		
⚠ 650	1B	✻	L07-2485-05	POWER TRANSFORMER	KP1	
⚠ 650	1B	✻	L07-2487-05	POWER TRANSFORMER	Y1M1	
⚠ 650	1B	✻	L07-2494-05	POWER TRANSFORMER	V	
⚠ 650	1B	✻	L07-2496-05	POWER TRANSFORMER	K1P2	
⚠ 650	1B	✻	L07-2498-05	POWER TRANSFORMER	Y2	
655	1A		T90-0810-05	LEAD WIRE ANTENNA		
656	1A		T90-0833-05	LOOP ANTENNA		
POWER SUPPLY (X00-2870-10)						
C5 ,6			CK45FF1H103Z	CERAMIC 0.010UF Z		
C7			CE04EW1E331M	ELECTRO 330UF 25WV		
C8			CK45FB1H102K	CERAMIC 1000PF K		
C10			CE04LW1C470M	ELECTRO 47UF 16WV		
C11			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C13 ,14			CC45FSL1H101J	CERAMIC 100PF J		
CN1			E40-4245-05	PIN ASSY	V	
CN1			E40-4245-05	PIN ASSY	Y1M1Y2	
CN2			E40-4245-05	PIN ASSY	KP1K1	
CN2			E40-4245-05	PIN ASSY	P2V	
CN3			E40-4245-05	PIN ASSY	V	
CN3			E40-4245-05	PIN ASSY	Y1M1Y2	
CN4			E40-8197-05	SOCKET FOR PIN ASSY		
CN11			E40-4281-05	PIN ASSY	Y1M1Y2	
CN12			E40-3247-05	PIN ASSY		
⚠ J1			E03-0148-05	AC OUTLET	KP1Y1	
⚠ J1			E03-0148-05	AC OUTLET	K1P2Y2	
⚠ J1			E03-0149-05	AC OUTLET	M1	
⚠ J1			E03-0361-05	AC OUTLET	V	
J2			E11-0295-05	PHONE JACK (3P)		
CN5 ,6			J13-0075-05	FUSE CLIP		
CN7 ,8			J13-0075-05	FUSE CLIP	Y1M1Y2	
E1			J11-0808-05	WIRE CLAMPER		
⚠ T1			L07-2127-05	POWER TRANSFORMER	KP1K1	
⚠ T1			L07-2127-05	POWER TRANSFORMER	P2	

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⚠	T1			L07-2128-05	POWER TRANSFORMER	Y1M1Y2	
⚠	T1			L07-2129-05	POWER TRANSFORMER	V	
⚠	R1			R92-1844-05	CARBON 3.3M J 1/2W	KP1K1	
⚠	R1			R92-1844-05	CARBON 3.3M J 1/2W	P2	
⚠	K1			S76-0070-05	MAGNETIC RELAY		
⚠	S1			S68-0088-05	PUSH SWITCH	V	
⚠	S1			S68-0088-05	PUSH SWITCH	Y1M1Y2	
⚠	S2 ,3			S62-0001-05	SLIDE SWITCH	Y1M1Y2	
⚠	D1 -4			S5688B	DIODE		
⚠	D1 -4			1SR139-400	DIODE		
	D5			MTZJ6.2(B)	ZENER DIODE		
	D5			RD6.2ES(B2)	ZENER DIODE		
⚠	D6 ,7			HSS104A	DIODE		
⚠	D6 ,7			1SS133	DIODE		
⚠	D8			MTZJ2.7(B)	ZENER DIODE		
⚠	D8			RD2.7ES(B2)	ZENER DIODE		
	D9			HSS104A	DIODE		
	D9			1SS133	DIODE		
⚠	Q1			2SC3940A(R,S)	TRANSISTOR		
	Q2			2SC2003(L,K)	TRANSISTOR		
	TUNER (X05-4820-10)						
	C1			CK73FB1H223K	CHIP C 0.022UF K		
	C3			CK73FB1H103K	CHIP C 0.010UF K		
	C5 ,6			CK73FB1H103K	CHIP C 0.010UF K		
	C7			CE04LW1C470M	ELECTRO 47UF 16WV		
	C8			CK73EB1H103K	CHIP C 0.010UF K		
	C10			CE04LW1C470M	ELECTRO 47UF 16WV		
	C11 -13			CK73FB1H473K	CHIP C 0.047UF K		
	C14			CE04LW1C100M	ELECTRO 10UF 16WV		
	C15			CE04LW1H010M	ELECTRO 1.0UF 50WV		
	C16			C90-3251-05	ELECTRO 0.47UF 50WV		
	C17			C90-3253-05	ELECTRO 1.0UF 50WV		
	C18			CC73FCH1H470J	CHIP C 47PF J		
	C19			C90-3217-05	ELECTRO 10UF 10WV		
	C20			CK73FB1H473K	CHIP C 0.047UF K		
	C21			C90-3241-05	ELECTRO 3.3UF 35WV		
	C22			CK73FB1H473K	CHIP C 0.047UF K		
	C23			CE04LW1C100M	ELECTRO 10UF 16WV		
	C24			CK73FB1H331K	CHIP C 330PF K		
	C25			CK73FB1H391K	CHIP C 390PF K		
	C26			CK73FB1H223K	CHIP C 0.022UF K		
	C27			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
	C28 ,29			C90-3240-05	ELECTRO 2.2UF 35WV		
	C30 ,31			CK73FB1H223K	CHIP C 0.022UF K	V	
	C30 ,31			CK73FB1H223K	CHIP C 0.022UF K	Y1M1Y2	
	C30 ,31			CK73FB1H333K	CHIP C 0.033UF K	KP1K1	
	C30 ,31			CK73FB1H333K	CHIP C 0.033UF K	P2	
	C32			CE04LW1C100M	ELECTRO 10UF 16WV		
	C33 ,34			CK73FB1H103K	CHIP C 0.010UF K	V	
	C33 ,34			CK73FB1H103K	CHIP C 0.010UF K	Y1M1Y2	
	C36			CK73FB1H103K	CHIP C 0.010UF K		
	C37 ,38			C90-3217-05	ELECTRO 10UF 10WV		
	C39			CC73FCH1H060D	CHIP C 6.0PF D		

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❹

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
C40			CC73FCH1H020C	CHIP C 2.0PF C		
C41			CC73FCH1H220J	CHIP C 22PF J		
C42			CC73FCH1H270J	CHIP C 27PF J		
C43			CC73FCH1H220J	CHIP C 22PF J		
C44			CK73FB1H471K	CHIP C 470PF K		
C45			CC73FCH1H220J	CHIP C 22PF J		
C46			CE04LW1C100M	ELECTRO 10UF 16WV		
C47			CK73FB1H102K	CHIP C 1000PF K		
C48			CE04LW1C470M	ELECTRO 47UF 16WV		
C49			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C50			CC73FSL1H101J	CHIP C 100PF J		
C51			CK73FB1H471K	CHIP C 470PF K		
C52			CC73FSL1H101J	CHIP C 100PF J		
C72			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C73			CE04LW1C470M	ELECTRO 47UF 16WV		
C75			CC73FCH1H040C	CHIP C 4.0PF C		
C76			CC73FCH1H470J	CHIP C 47PF J		
C78			CK73FB1H223K	CHIP C 0.022UF K		
C81			CK73FF1C105Z	CHIP C 1.0UF Z		
C83			CC73FSL1H101J	CHIP C 100PF J		
C84 ,85			CK73FB1H223K	CHIP C 0.022UF K		
C86			CK73FB1H471K	CHIP C 470PF K		
CN1			E40-9831-05	SOCKET FOR PIN ASSY		
J1			E70-0080-05	LOCK TERMINAL BOARD		
E1			F10-1108-04	SHIELDING PLATE		
CF1 ,2			L72-0531-05	CERAMIC FILTER	V	
CF1 ,2			L72-0531-05	CERAMIC FILTER	Y1M1Y2	
CF1 ,2			L72-0596-05	CERAMIC FILTER	KP1K1	
CF1 ,2			L72-0596-05	CERAMIC FILTER	P2	
CF3		✻	L72-0607-05	CERAMIC FILTER		
L1			L39-1366-05	COMBINATION COIL		
L2			L40-1091-82	SMALL FIXED INDUCTOR(1.0UH)		
L3			L30-0911-05	AM IFT		
L9		✻	L40-1001-82	SMALL FIXED INDUCTOR(10UH)		
X1		✻	L77-2187-05	CRYSTAL RESONATOR		
R1			RK73FB2A101J	CHIP R 100 J 1/10W		
R4			RK73FB2A681J	CHIP R 680 J 1/10W		
R5			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R6			RK73FB2A221J	CHIP R 220 J 1/10W		
R7			RK73FB2A821J	CHIP R 820 J 1/10W		
R8			RK73FB2A330J	CHIP R 33 J 1/10W		
R9			RK73FB2A391J	CHIP R 390 J 1/10W		
R10			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R11			RK73FB2A330J	CHIP R 33 J 1/10W		
R12			RK73FB2A101J	CHIP R 100 J 1/10W		
R14			RK73FB2A271J	CHIP R 270 J 1/10W		
R16			RK73FB2A220J	CHIP R 22 J 1/10W		
R17			RK73FB2A362J	CHIP R 3.6K J 1/10W		
R18			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R19			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R20			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R23			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R25			RK73FB2A183J	CHIP R 18K J 1/10W		

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R27 ,28			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R30			RK73FB2A561J	CHIP R	560	J	1/10W	V	
R30			RK73FB2A561J	CHIP R	560	J	1/10W	Y1M1Y2	
R31			RK73FB2A473J	CHIP R	47K	J	1/10W	V	
R31			RK73FB2A473J	CHIP R	47K	J	1/10W	Y1M1Y2	
R33 ,34			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R42			RK73FB2A103J	CHIP R	10K	J	1/10W		
R43			RK73FB2A221J	CHIP R	220	J	1/10W		
⚠ R44			RD14NB2E271J	RD	270	J	1/4W		
R45			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R46			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R47			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R48			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R49			RK73FB2A103J	CHIP R	10K	J	1/10W		
R50			RD14NB2E471J	RD	470	J	1/4W		
R51			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R52			RK73FB2A101J	CHIP R	100	J	1/10W		
R53			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R54			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R55			RK73FB2A333J	CHIP R	33K	J	1/10W		
R56 ,57			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R58			RK73FB2A123J	CHIP R	12K	J	1/10W		
R59			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R72 ,73			RK73FB2A153J	CHIP R	15K	J	1/10W	KP1K1	
R72 ,73			RK73FB2A153J	CHIP R	15K	J	1/10W	P2	
R72 ,73			RK73FB2A822J	CHIP R	8.2K	J	1/10W	V	
R72 ,73			RK73FB2A822J	CHIP R	8.2K	J	1/10W	Y1M1Y2	
R74			RK73FB2A473J	CHIP R	47K	J	1/10W		
R75			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R76			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R78			RK73FB2A821J	CHIP R	820	J	1/10W		
⚠ R81			RS14KB3A151J	FL-PROOF RS	150	J	1W		
R83			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R85 -87			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R88			RK73FB2A563J	CHIP R	56K	J	1/10W		
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR					
W51 ,52			R92-0670-05	CHIP R	0 OHM				
W54 ,55			R92-0670-05	CHIP R	0 OHM				
W56			R92-0670-05	CHIP R	0 OHM			V	
W56			R92-0670-05	CHIP R	0 OHM			Y1M1Y2	
W57			R92-0670-05	CHIP R	0 OHM				
W59 ,60			R92-0670-05	CHIP R	0 OHM				
W80			R92-0679-05	CHIP R	0 OHM				
W82 -85			R92-0679-05	CHIP R	0 OHM				
D1			DA204U	DIODE					
D1			MA143A	DIODE					
D1			1SS302	DIODE					
D3			MTZJ8.2(B)	ZENER DIODE					
D3			RD8.2ES(B2)	ZENER DIODE					
D4			MTZJ5.1(B)	ZENER DIODE					
D4			RD5.1ES(B2)	ZENER DIODE					
D5			MTZJ2.7(B)	ZENER DIODE					
D5			RD2.7ES(B2)	ZENER DIODE					
D8			MA111	DIODE					

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D9			MTZJ3.3(B)	ZENER DIODE				
D9			RD3.3ES(B2)	ZENER DIODE				
D13			MA111	DIODE				
IC1			LA1838	ANALOGUE IC				
IC2			LC72131	MOS-IC				
Q1			2SC4081(R,S)	TRANSISTOR				
Q1			2SC4116(Y,GR)	TRANSISTOR				
Q2			2SA1576A(R,S)	TRANSISTOR				
Q2			2SA1586(Y,GR)	TRANSISTOR				
Q3 ,4			2SC4081(R,S)	TRANSISTOR			V	
Q3 ,4			2SC4081(R,S)	TRANSISTOR			Y1M1Y2	
Q3 ,4			2SC4116(Y,GR)	TRANSISTOR			V	
Q3 ,4			2SC4116(Y,GR)	TRANSISTOR			Y1M1Y2	
Q10 ,11			2SD1757K	TRANSISTOR				
Q12			2SA1576A(R,S)	TRANSISTOR				
Q12			2SA1586(Y,GR)	TRANSISTOR				
Q14			2SA1576A(R,S)	TRANSISTOR				
Q14			2SA1586(Y,GR)	TRANSISTOR				
A1			W02-2622-05	FM FRONT-END ASSY				

SURROUND (X08-2840-10)

C1 -4			CK73FB1E104K	CHIP C	0.10UF	K		
C5 ,6			CC73FSL1H102J	CHIP C	1000PF	J		
C7 -9			CK73FB1E104K	CHIP C	0.10UF	K		
C10			CC73FSL1H331J	CHIP C	330PF	J		
C11 ,12			CC73FCH1H150J	CHIP C	15PF	J		
C13 ,14			CC73FCH1H180J	CHIP C	18PF	J		
C15			CK73FB1H103K	CHIP C	0.010UF	K		
C16			CK73FB1E104K	CHIP C	0.10UF	K		
C17			CK73FB1H103K	CHIP C	0.010UF	K		
C18			CC73FSL1H102J	CHIP C	1000PF	J		
C19			CK73FB1E104K	CHIP C	0.10UF	K		
C20			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C21			CC73FCH1H330J	CHIP C	33PF	J		
C22 ,23			CC73FCH1H120J	CHIP C	12PF	J		
C24 ,25			CC73FCH1H150J	CHIP C	15PF	J		
C26			CE04LW1E470M	ELECTRO	47UF	25WV		
C27			CK73FB1E104K	CHIP C	0.10UF	K		
C28			CC73FSL1H470J	CHIP C	47PF	J		
C29			CC73FCH1H220J	CHIP C	22PF	J		
C30 -32			CK73FB1E104K	CHIP C	0.10UF	K		
C33 ,34			CC73FCH1H220J	CHIP C	22PF	J		
C35			CC73FSL1H102J	CHIP C	1000PF	J		
C36			CK73FB1H822K	CHIP C	8200PF	K		
C37			CK73FB1H103K	CHIP C	0.010UF	K		
C38			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C39			CK73FB1E104K	CHIP C	0.10UF	K		
C50 -52			CE04LW1C100M	ELECTRO	10UF	16WV		
C55			CC73FSL1H470J	CHIP C	47PF	J		
C56			CE04LW0J471M	ELECTRO	470UF	6.3WV		
C57			CE04LW1A470M	ELECTRO	47UF	10WV		
C58 ,59			CK73FB1H103K	CHIP C	0.010UF	K		
C60 ,61			CC73FSL1H221J	CHIP C	220PF	J		
C63			CC73FSL1H470J	CHIP C	47PF	J		
C70			CE04LW1C102M	ELECTRO	1000UF	16WV		

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C72 ,73			CK73FF1C224Z	CHIP C	0.22UF	Z		
C74			CE04LW1C101M	ELECTRO	100UF	16WV		
C77 ,78			CK73FB1E104K	CHIP C	0.10UF	K		
C81			CE04LW1C101M	ELECTRO	100UF	16WV		
C83			CE04LW1A101M	ELECTRO	100UF	10WV		
C86 ,87			CK73FB1E104K	CHIP C	0.10UF	K		
C91			CE04LW1C101M	ELECTRO	100UF	16WV		
C92			CE04LW1A101M	ELECTRO	100UF	10WV		
C93 -95			CK73FB1E104K	CHIP C	0.10UF	K		
C96			CE04LW1C101M	ELECTRO	100UF	16WV		
C97			CE04LW1A101M	ELECTRO	100UF	10WV		
C101,102			CC73FCH1H220J	CHIP C	22PF	J		
C103-106			CC73FSL1H101J	CHIP C	100PF	J		
C107,108			CC73FSL1H681J	CHIP C	680PF	J		
C109			CK73FB1H103K	CHIP C	0.010UF	K		
C110			CC73FSL1H101J	CHIP C	100PF	J		
C111,112			CE04LW1H100M	ELECTRO	10UF	50WV		
C113-120			CC73FSL1H101J	CHIP C	100PF	J		
C121,122			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C123,124			CC73FSL1H102J	CHIP C	1000PF	J		
C125,126			CK73FB1H682K	CHIP C	6800PF	K		
C127,128			CK73FB1H182K	CHIP C	1800PF	K		
C129			CK73FB1H103K	CHIP C	0.010UF	K		
C130			CC73FSL1H101J	CHIP C	100PF	J		
C131,132			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C133,134			CC73FSL1H102J	CHIP C	1000PF	J		
C135-138			CC73FSL1H101J	CHIP C	100PF	J		
C139,140			CK73FB1H182K	CHIP C	1800PF	K		
C141,142			CC73FSL1H101J	CHIP C	100PF	J		
C143,144			CK73FB1H682K	CHIP C	6800PF	K		
C145			CK73FB1H103K	CHIP C	0.010UF	K		
C146-150			CC73FSL1H101J	CHIP C	100PF	J		
C151,152			CE04LW1H4R7M	ELECTRO	4.7UF	50WV		
C153,154			CC73FSL1H102J	CHIP C	1000PF	J		
C155-158			CC73FSL1H101J	CHIP C	100PF	J		
C159,160			CK73FB1H182K	CHIP C	1800PF	K		
C161,162			CC73FSL1H101J	CHIP C	100PF	J		
C163,164			CK73FB1H682K	CHIP C	6800PF	K		
C165			CK73FB1H103K	CHIP C	0.010UF	K		
C166			CC73FSL1H101J	CHIP C	100PF	J		
C167			CE04LW1H220M	ELECTRO	22UF	50WV		
C168-170			CK73FB1H103K	CHIP C	0.010UF	K		
C171-174			CQ92FM1H823J	MYLAR	0.082UF	J		
C175-178			CC73FSL1H101J	CHIP C	100PF	J		
C179			CK73FB1H103K	CHIP C	0.010UF	K		
C180			CC73FSL1H101J	CHIP C	100PF	J		
C181,182			CE04LW1E470M	ELECTRO	47UF	25WV		
C183,184			CE04LW1H220M	ELECTRO	22UF	50WV		
C185,186			CC73FSL1H101J	CHIP C	100PF	J		
C187			CK73FB1H103K	CHIP C	0.010UF	K		
C188			CC73FSL1H101J	CHIP C	100PF	J		
C191-194			CQ92FM1H823J	MYLAR	0.082UF	J		
C195-198			CC73FSL1H101J	CHIP C	100PF	J		
C199			CK73FB1H103K	CHIP C	0.010UF	K		
C200			CC73FSL1H101J	CHIP C	100PF	J		

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C201,202			CQ92FM1H823J	MYLAR	0.082UF	J			
C203-206			CC73FSL1H101J	CHIP C	100PF	J			
C207			CQ92FM1H104J	MYLAR	0.10UF	J			
C208			CC73FSL1H101J	CHIP C	100PF	J			
C209			CQ92FM1H154J	MYLAR	0.15UF	J			
C210			CC73FSL1H101J	CHIP C	100PF	J			
C211			CQ92FM1H393J	MYLAR	0.039UF	J			
C212			CC73FSL1H101J	CHIP C	100PF	J			
C213			CE04LW1H2R2M	ELECTRO	2.2UF	50WV			
C214			CK73FB1H103K	CHIP C	0.010UF	K			
C216,217			CC73FSL1H101J	CHIP C	100PF	J			
C218			CE04LW1H2R2M	ELECTRO	2.2UF	50WV			
C219,220			CK73FB1H103K	CHIP C	0.010UF	K			
C223,224			CC73FSL1H102J	CHIP C	1000PF	J			
C225			CE04LW1H220M	ELECTRO	22UF	50WV			
C226-230			CE04LW1H4R7M	ELECTRO	4.7UF	50WV			
C231			CE04LW1H470M	ELECTRO	47UF	50WV			
CN1			E40-8253-05	FLAT CABLE CONNECTOR					
CN2			E40-3256-05	PIN ASSY					
CN3			E40-4248-05	PIN ASSY					
J1			E63-1022-05	PHONO JACK					
J2			E63-1021-05	PHONO JACK					
J3			E63-1020-05	PHONO JACK					
J4			E11-0347-05	MINIATURE PHONE JACK(2P)					
E1			J11-0808-05	WIRE CLAMPER					
L1			L92-0044-05	FERRITE CORE					
L2			L79-1216-05	LINE FILTER					
L3			L92-0044-05	FERRITE CORE					
L4 ,5			L79-1216-05	LINE FILTER					
X1			L77-2220-05	CRYSTAL RESONATOR(10MHZ)					
X2			L77-2221-05	CRYSTAL RESONATOR(12.288MHZ)					
R1			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R2			RK73FB2A821J	CHIP R	820	J	1/10W		
R3			RK73FB2A201J	CHIP R	200	J	1/10W		
R4			RK73FB2A183J	CHIP R	18K	J	1/10W		
R5 -15			RK73FB2A221J	CHIP R	220	J	1/10W		
R16			RK73FB2A104J	CHIP R	100K	J	1/10W		
R17 ,18			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R19			RK73FB2A221J	CHIP R	220	J	1/10W		
R20			RK73FB2A104J	CHIP R	100K	J	1/10W		
R21			RK73FB2A221J	CHIP R	220	J	1/10W		
R22			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R23 ,24			RK73FB2A221J	CHIP R	220	J	1/10W		
R25 -27			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R28			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R29			RK73FB2A750J	CHIP R	75	J	1/10W		
R30			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R31			RK73FB2A473J	CHIP R	47K	J	1/10W		
R32			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R33 -36			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R37			RK73FB2A473J	CHIP R	47K	J	1/10W		
R50			RK73FB2A750J	CHIP R	75	J	1/10W		

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R51			RK73FB2A332J	CHIP R 3.3K	J	1/10W		
R52 ,53			RK73FB2A750J	CHIP R 75	J	1/10W		
R54			RK73FB2A332J	CHIP R 3.3K	J	1/10W		
R55 ,56			RK73FB2A750J	CHIP R 75	J	1/10W		
⚠ R57 ,58			RS14KB3A391J	FL-PROOF RS 390	J	1W		
R59			RD14NB2E1R0J	RD 1	J	1/4W		
⚠ R61 -63			RD14NB2E2R2J	RD 2.2	J	1/4W		
⚠ R64			RD14NB2E1R0J	RD 1	J	1/4W		
R66			RD14NB2E2R2J	RD 2.2	J	1/4W		
R67			RD14NB2E1R0J	RD 1	J	1/4W		
R68			RD14NB2E2R2J	RD 2.2	J	1/4W		
R69			RK73FB2A203J	CHIP R 20K	J	1/10W		
R70			RK73FB2A101J	CHIP R 100	J	1/10W		
R71			RK73FB2A473J	CHIP R 47K	J	1/10W		
R72			RK73FB2A472J	CHIP R 4.7K	J	1/10W		
R101-104			RK73FB2A203J	CHIP R 20K	J	1/10W		
R105,106			RK73FB2A101J	CHIP R 100	J	1/10W		
R107,108			RK73FB2A102J	CHIP R 1.0K	J	1/10W		
R111,112			RK73FB2A104J	CHIP R 100K	J	1/10W		
R113,114			RK73FB2A512J	CHIP R 5.1K	J	1/10W		
R115,116			RK73FB2A101J	CHIP R 100	J	1/10W		
R117-120			RK73FB2A162J	CHIP R 1.6K	J	1/10W		
R121,122			RK73FB2A101J	CHIP R 100	J	1/10W		
R131,132			RK73FB2A104J	CHIP R 100K	J	1/10W		
R133,134			RK73FB2A512J	CHIP R 5.1K	J	1/10W		
R135,136			RK73FB2A432J	CHIP R 4.3K	J	1/10W		
R137,138			RK73FB2A392J	CHIP R 3.9K	J	1/10W		
R139-142			RK73FB2A162J	CHIP R 1.6K	J	1/10W		
R143,144			RK73FB2A101J	CHIP R 100	J	1/10W		
R151,152			RK73FB2A104J	CHIP R 100K	J	1/10W		
R153,154			RK73FB2A512J	CHIP R 5.1K	J	1/10W		
R155,156			RK73FB2A432J	CHIP R 4.3K	J	1/10W		
R157,158			RK73FB2A392J	CHIP R 3.9K	J	1/10W		
R159-162			RK73FB2A162J	CHIP R 1.6K	J	1/10W		
R163,164			RK73FB2A101J	CHIP R 100	J	1/10W		
R173,174			RK73FB2A153J	CHIP R 15K	J	1/10W		
R175,176			RK73FB2A303J	CHIP R 30K	J	1/10W		
R177,178			RK73FB2A101J	CHIP R 100	J	1/10W		
R181,182			RK73FB2A104J	CHIP R 100K	J	1/10W		
R183,184			RK73FB2A101J	CHIP R 100	J	1/10W		
R185-188			RK73FB2A392J	CHIP R 3.9K	J	1/10W		
R189-192			RK73FB2A222J	CHIP R 2.2K	J	1/10W		
R193,194			RK73FB2A101J	CHIP R 100	J	1/10W		
R195,196			RK73FB2A224J	CHIP R 220K	J	1/10W		
R201,202			RK73FB2A153J	CHIP R 15K	J	1/10W		
R203,204			RK73FB2A303J	CHIP R 30K	J	1/10W		
R205			RK73FB2A153J	CHIP R 15K	J	1/10W		
R206			RK73FB2A303J	CHIP R 30K	J	1/10W		
R207			RK73FB2A123J	CHIP R 12K	J	1/10W		
R208-210			RK73FB2A163J	CHIP R 16K	J	1/10W		
R211-214			RK73FB2A101J	CHIP R 100	J	1/10W		
R215,216			RK73FB2A224J	CHIP R 220K	J	1/10W		
R217-220			RK73FB2A101J	CHIP R 100	J	1/10W		
R221,222			RK73FB2A203J	CHIP R 20K	J	1/10W		
R223-225			RK73FB2A393J	CHIP R 39K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R226			RK73FB2A123J	CHIP R 12K	J	1/10W		
S1			S62-0034-05	SLIDE SWITCH				
D1 ,2			DA204U	DIODE				
D1 ,2			1SS302	DIODE				
D3 ,4			UDZ5.1B	ZENER DIODE				
⚠ D5			D2SBA20F03	DIODE				
D7 -9			UDZ6.2B	ZENER DIODE				
IC1			YSS248	MOS-IC				
IC2			CS4226-KQ	MOS-IC				
IC2			CS4226KQC	MOS-IC				
IC3			TC74HCU04AF	IC(HEX INVERTER SMD)				
IC4			NJM2279M	ANALOGUE IC				
IC5			TC9162AF	MOS-IC				
IC6			TC9164AF	MOS-IC				
⚠ IC8 -10			TA7805SB	ANALOGUE IC				
IC11			NJM4565M	IC(OP AMP X2)				
IC12			NJM4580ED	ANALOGUE IC				
IC13			NJM4565M	IC(OP AMP X2)				
IC14			NJM4580ED	ANALOGUE IC				
IC15			NJM4565M	IC(OP AMP X2)				
IC16			NJM4580ED	ANALOGUE IC				
IC17-19			NJM4565M	IC(OP AMP X2)				
IC20			NJM4580ED	ANALOGUE IC				
IC21			NJM4565M	IC(OP AMP X2)				
IC22,23			NJM4580ED	ANALOGUE IC				
IC24			TC7W241FU	MOS-IC				
Q1			2SC4081(R,S)	TRANSISTOR				
Q1			2SC4116(Y,GR)	TRANSISTOR				
Q2			2SA1576A(R,S)	TRANSISTOR				
Q2			2SA1586(Y,GR)	TRANSISTOR				
A1			W02-1181-05	OPTIC RECEIVING MODULE				

AUDIO (X09-4890-10)

D501,502			B30-2513-05	LED(RED)				
D527			B30-2513-05	LED(RED)				
C1 ,2			CK45FF1H103Z	CERAMIC	0.010UF	Z	KP1K1	
C1 ,2			CK45FF1H103Z	CERAMIC	0.010UF	Z	P2V	
C3			C91-1480-05	MP	0.22UF	250WV	Y1M1Y2	
C5 ,6			C90-3760-05	ELECTRO	4700UF	75WV	KP1Y1	
C5 ,6			C90-3760-05	ELECTRO	4700UF	75WV	M1	
C5 ,6			C90-3761-05	ALMINIUM ELECTROLYTIC C.			K1P2Y2	
C5 ,6			C90-3762-05	ALMINIUM ELECTROLYTIC C.			V	
C7 ,8			C90-3763-05	ALMINIUM ELECTROLYTIC C.			V	
C7 ,8			C90-3776-05	ALMINIUM ELECTROLYTIC C.			KP1Y1	
C7 ,8			C90-3776-05	ALMINIUM ELECTROLYTIC C.			M1	
C9			CE04LW1V222M	ELECTRO	2200UF	35WV		
C10			CE04LW1V471M	ELECTRO	470UF	35WV		
C11 -14			CK73FF1C224Z	CHIP C	0.22UF	Z		
C15 ,16			CE04LW1E101M	ELECTRO	100UF	25WV		
C18			CE04LW1J220M	ELECTRO	22UF	63WV		
C19			CE04LW1V470M	ELECTRO	47UF	35WV		
C21 ,22			CE04LW1H470M	ELECTRO	47UF	50WV	KP1Y1	
C21 ,22			CE04LW1H470M	ELECTRO	47UF	50WV	M1V	

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C23 -26			CE04LW1H470M	ELECTRO	47UF	50WV	K1P2Y2	
C23 -26			CE04LW2A100M	ELECTRO	10UF	100WV	KP1Y1	
C23 -26			CE04LW2A100M	ELECTRO	10UF	100WV	M1V	
C27 ,28			CC73FSL1H151J	CHIP C	150PF	J		
C29 ,30			CE04LW1H470M	ELECTRO	47UF	50WV	KP1Y1	
C29 ,30			CE04LW1H470M	ELECTRO	47UF	50WV	M1V	
C31 ,32			CE04LW1H470M	ELECTRO	47UF	50WV	K1P2Y2	
C31 ,32			CE04LW2A100M	ELECTRO	10UF	100WV	KP1Y1	
C31 ,32			CE04LW2A100M	ELECTRO	10UF	100WV	M1V	
C33 ,34			CK45FB1H392K	CERAMIC	3900PF	K	K1P2Y2	
C33 ,34			CK45FB2H392K	CERAMIC	3900PF	K	KP1Y1	
C33 ,34			CK45FB2H392K	CERAMIC	3900PF	K	M1V	
C35			CE04LW0J221M	ELECTRO	220UF	6.3WV		
C36			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C37			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C38			CE04HW1E100M	NP-ELEC	10UF	25WV		
C39 ,40			CK45FB1H392K	CERAMIC	3900PF	K	K1P2Y2	
C39 ,40			CK45FB2H392K	CERAMIC	3900PF	K	KP1Y1	
C39 ,40			CK45FB2H392K	CERAMIC	3900PF	K	M1V	
C41			CE04LW1A101M	ELECTRO	100UF	10WV		
C42			CE04LW1C330M	ELECTRO	33UF	16WV		
C101,102			CC73FSL1H390J	CHIP C	39PF	J		
C103,104			CE04LW1H100M	ELECTRO	10UF	50WV		
C105,106			CC73FSL1H820J	CHIP C	82PF	J		
C107,108			CE04LW1A470M	ELECTRO	47UF	10WV		
C109,110			CC45FSL1H101J	CERAMIC	100PF	J		
C111,112			CQ93FMG1H123J	MYLAR	0.012UF	J		
C113,114			CK45FB1H332K	CERAMIC	3300PF	K		
C115,116			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C117			CC45FSL1H101J	CERAMIC	100PF	J		
C118			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C119,120			CC73FSL1H221J	CHIP C	220PF	J		
C123,124			CC73FSL1H221J	CHIP C	220PF	J		
C127,128			CC73FSL1H221J	CHIP C	220PF	J		
C131,132			CC73FSL1H221J	CHIP C	220PF	J		
C135,136			CC73FSL1H221J	CHIP C	220PF	J		
C139,140			CC73FSL1H221J	CHIP C	220PF	J		
C143,144			CC73FSL1H221J	CHIP C	220PF	J		
C147,148			CC73FSL1H221J	CHIP C	220PF	J		
C151,152			CC73FSL1H221J	CHIP C	220PF	J		
C155,156			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C157-162			CC73FSL1H101J	CHIP C	100PF	J		
C163,164			CE04LW1C220M	ELECTRO	22UF	16WV		
C165			CC45FSL1H101J	CERAMIC	100PF	J		
C166-168			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C169,170			CC73FSL1H221J	CHIP C	220PF	J		
C171,172			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C200			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C201			CE04LW1HR33M	ELECTRO	0.33UF	50WV		
C202			CQ93FMG1H153J	MYLAR	0.015UF	J		
C203,204			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C205,206			CK73FB1H222K	CHIP C	2200PF	K		
C207-210			CC73FSL1H101J	CHIP C	100PF	J		
C211			CQ93FMG1H822J	MYLAR	8200PF	J		
C212			CC73FSL1H221J	CHIP C	220PF	J		

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C219			CQ93FMG1H822J	MYLAR	8200PF	J		
C220			CQ93FMG1H153J	MYLAR	0.015UF	J		
C221			CE04LW1HR33M	ELECTRO	0.33UF	50WV		
C223,224			CE04LW1C100M	ELECTRO	10UF	16WV		
C226-228			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C229,230			CC73FSL1H471J	CHIP C	470PF	J		
C233,234			CC73FSL1H101J	CHIP C	100PF	J		
C237			CC45FSL1H101J	CERAMIC	100PF	J		
C238			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C239,240			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C241,242			CC73FSL1H471J	CHIP C	470PF	J		
C245,246			CC73FSL1H101J	CHIP C	100PF	J		
C251,252			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C253,254			CC73FSL1H471J	CHIP C	470PF	J		
C257,258			CC73FSL1H101J	CHIP C	100PF	J		
C263,264			CC73FSL1H821J	CHIP C	820PF	J		
C265,266			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C267,268			CE04LW1A101M	ELECTRO	100UF	10WV		
C271,272			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C273,274			CE04LW1A101M	ELECTRO	100UF	10WV		
C277			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C279			CE04LW1A101M	ELECTRO	100UF	10WV		
C281,282			CC45FCH1H100D	CERAMIC	10PF	D		
C283-285			CC45FCH1H150J	CERAMIC	15PF	J		
C287,288			CK73FB1H102K	CHIP C	1000PF	K		
C289,290			CQ93FMG1H104J	MYLAR	0.10UF	J		
C293,294			CK73FB1H102K	CHIP C	1000PF	K		
C295,296			CQ93FMG1H104J	MYLAR	0.10UF	J		
C299			CK73FB1H102K	CHIP C	1000PF	K		
C301			CQ93FMG1H104J	MYLAR	0.10UF	J		
C305-308			CC45FSL1H101J	CERAMIC	100PF	J		
C309-311			CK45FF1H472Z	CERAMIC	4700PF	Z		
C313-316			CK45FF1H472Z	CERAMIC	4700PF	Z		
C319,320			CE04LW1H3R3M	ELECTRO	3.3UF	50WV		
C321-325			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C326-328			CE04LW1H100M	ELECTRO	10UF	50WV		
C329-334			CE04LW1C470M	ELECTRO	47UF	16WV		
C501			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C502			CQ93FMG1H104J	MYLAR	0.10UF	J		
C503			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C504			CK73FB1H103K	CHIP C	0.010UF	K		
C505			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C506			CK45FB1H102K	CERAMIC	1000PF	K		
C507			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C508,509			CE04LW1A101M	ELECTRO	100UF	10WV		
C511-513			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C514			CK73FB1H103K	CHIP C	0.010UF	K		
C517			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C518-521			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C525			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C526			C90-3214-05	ELECTRO	100UF	6.3WV		
C529,530			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C531			CK73FB1H103K	CHIP C	0.010UF	K		
C532			CK73FB1H102K	CHIP C	1000PF	K		
C534			C90-1827-05	ELECTRO	0.047F	5.5WV	V	

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
C534			C90-1827-05	ELECTRO	0.047F	5.5WV		Y1M1Y2	
C535			CE04LW0J471M	ELECTRO	470UF	6.3WV		KP1K1	
C535			CE04LW0J471M	ELECTRO	470UF	6.3WV		P2	
CN1			E40-4299-05	PIN ASSY					
CN8			E40-8251-05	FLAT CABLE CONNECTOR					
CN9			E40-9848-05	PIN ASSY					
CN11		✻	E40-8254-05	FLAT CABLE CONNECTOR					
CN12			E40-8196-05	PIN ASSY					
CN13			E40-4248-05	PIN ASSY					
CN51			E40-8258-05	FLAT CABLE CONNECTOR					
CN52			E40-8253-05	FLAT CABLE CONNECTOR					
CN53			E40-8250-05	FLAT CABLE CONNECTOR					
J1			E63-0172-05	PHONO JACK					
J2 ,3			E63-0173-05	PHONO JACK					
J4			E63-1015-05	PHONO JACK					
J5			E70-0089-05	SCREW TERMINAL BOARD					
J6			E70-0068-05	LOCK TERMINAL BOARD					
J7			E63-0172-05	PHONO JACK					
L1 -5			L39-1373-05	PHASE COMPENSATION COIL					
X501			L78-0290-05	RESONATOR (8MHZ)					
R1 ,2			RK73FB2A273J	CHIP R	27K	J	1/10W	K1P2Y2	
R1 ,2			RK73FB2A513J	CHIP R	51K	J	1/10W	KP1Y1	
R1 ,2			RK73FB2A513J	CHIP R	51K	J	1/10W	M1V	
R3 ,4			RK73FB2A273J	CHIP R	27K	J	1/10W	KP1Y1	
R3 ,4			RK73FB2A273J	CHIP R	27K	J	1/10W	M1V	
R5			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R6			RK73FB2A333J	CHIP R	33K	J	1/10W		
R9 ,10			RS14KB3D391J	FL-PROOF RS	390	J	2W		
R11 ,12			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
⚠ R14			RD14NB2E1R0J	RD	1	J	1/4W		
R15			RK73FB2A513J	CHIP R	51K	J	1/10W	V	
R16			RK73FB2A273J	CHIP R	27K	J	1/10W	KP1Y1	
R16			RK73FB2A273J	CHIP R	27K	J	1/10W	M1V	
R17			RK73FB2A273J	CHIP R	27K	J	1/10W		
⚠ R18			RD14NB2E4R7J	RD	4.7	J	1/4W		
R19			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R21			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W	KP1Y1	
R21			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W	M1V	
R22			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W	KP1Y1	
R22			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W	M1V	
R23 ,24			RD14NB2E103J	RD	10K	J	1/4W		
R25 ,26			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W	KP1Y1	
R25 ,26			RS14KB3A392J	FL-PROOF RS	3.9K	J	1W	M1V	
R27 ,28			RK73FB2A182J	CHIP R	1.8K	J	1/10W	V	
R27 ,28			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KP1Y1	
R27 ,28			RK73FB2A272J	CHIP R	2.7K	J	1/10W	M1	
R27 ,28			RK73FB2A821J	CHIP R	820	J	1/10W	K1P2Y2	
R30			RK73FB2A223J	CHIP R	22K	J	1/10W		
R32			RK73FB2A153J	CHIP R	15K	J	1/10W		
R34			RK73FB2A473J	CHIP R	47K	J	1/10W		
R35			RK73FB2A182J	CHIP R	1.8K	J	1/10W	V	
R35			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KP1Y1	
R35			RK73FB2A272J	CHIP R	2.7K	J	1/10W	M1	
R35			RK73FB2A821J	CHIP R	820	J	1/10W	K1P2Y2	

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⚠ R37			RS14KB3A681J	FL-PROOF RS	680	J	1W		
⚠ R38 -41			RS14KB3D331J	FL-PROOF RS	330	J	2W		
⚠ R42 -44			RS14KB3D391J	FL-PROOF RS	390	J	2W		
R45			RD14NB2E1R0J	RD	1	J	1/4W		
R46			RD14NB2E821J	RD	820	J	1/4W	KP1	
R50			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R51			RK73FB2A473J	CHIP R	47K	J	1/10W		
R101,102			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R103,104			RK73FB2A273J	CHIP R	27K	J	1/10W		
R105,106			RK73FB2A101J	CHIP R	100	J	1/10W		
R117,118			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R119,120			RK73FB2A224J	CHIP R	220K	J	1/10W		
R121,122			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R123,124			RK73FB2A224J	CHIP R	220K	J	1/10W		
R125,126			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R127,128			RK73FB2A224J	CHIP R	220K	J	1/10W		
R129,130			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R131,132			RK73FB2A224J	CHIP R	220K	J	1/10W		
R135,136			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R137,138			RK73FB2A224J	CHIP R	220K	J	1/10W		
R139,140			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R141,142			RK73FB2A224J	CHIP R	220K	J	1/10W		
R143,144			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R145,146			RK73FB2A224J	CHIP R	220K	J	1/10W		
R147,148			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R149,150			RK73FB2A224J	CHIP R	220K	J	1/10W		
R151,152			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R153-156			RK73FB2A224J	CHIP R	220K	J	1/10W		
R157,158			RK73FB2A4R7J	CHIP R	4.7	J	1/10W		
R165-168			RK73FB2A103J	CHIP R	10K	J	1/10W		
R169-172			RK73FB2A223J	CHIP R	22K	J	1/10W		
R173,174			RK73FB2A473J	CHIP R	47K	J	1/10W		
R175,176			RK73FB2A622J	CHIP R	6.2K	J	1/10W		
R177,178			RK73FB2A103J	CHIP R	10K	J	1/10W		
R203,204			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R205,206			RK73FB2A100J	CHIP R	10	J	1/10W		
⚠ R219			RS14KB3A221J	FL-PROOF RS	220	J	1W		
⚠ R220			RS14KB3A271J	FL-PROOF RS	270	J	1W		
R226			RK73FB2A103J	CHIP R	10K	J	1/10W		
R227,228			RK73FB2A104J	CHIP R	100K	J	1/10W		
R229,230			RK73FB2A133J	CHIP R	13K	J	1/10W	K1P2Y2	
R229,230			RK73FB2A133J	CHIP R	13K	J	1/10W	V	
R229,230			RK73FB2A912J	CHIP R	9.1K	J	1/10W	KP1Y1	
R229,230			RK73FB2A912J	CHIP R	9.1K	J	1/10W	M1	
R231,232			RK73FB2A183J	CHIP R	18K	J	1/10W		
R237,238			RK73FB2A103J	CHIP R	10K	J	1/10W		
R239,240			RK73FB2A104J	CHIP R	100K	J	1/10W		
R241,242			RK73FB2A363J	CHIP R	36K	J	1/10W	KP1Y1	
R241,242			RK73FB2A363J	CHIP R	36K	J	1/10W	M1	
R241,242			RK73FB2A513J	CHIP R	51K	J	1/10W	K1P2Y2	
R241,242			RK73FB2A513J	CHIP R	51K	J	1/10W	V	
R243,244			RK73FB2A183J	CHIP R	18K	J	1/10W		
R249,250			RK73FB2A103J	CHIP R	10K	J	1/10W		
R251,252			RK73FB2A104J	CHIP R	100K	J	1/10W		
R253			RK73FB2A363J	CHIP R	36K	J	1/10W	KP1Y1	

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R253			RK73FB2A363J	CHIP R	36K	J	1/10W	M1	
R253			RK73FB2A513J	CHIP R	51K	J	1/10W	K1P2Y2	
R253			RK73FB2A513J	CHIP R	51K	J	1/10W	V	
R254			RK73FB2A432J	CHIP R	4.3K	J	1/10W		
R255,256			RK73FB2A183J	CHIP R	18K	J	1/10W		
R263,264			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R267			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R269,270			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R271			RK73FB2A473J	CHIP R	47K	J	1/10W		
R272			RK73FB2A361J	CHIP R	360	J	1/10W		
R275,276			RK73FB2A104J	CHIP R	100K	J	1/10W		
R277,278			RK73FB2A563J	CHIP R	56K	J	1/10W		
R284			RK73FB2A104J	CHIP R	100K	J	1/10W		
R291			RK73FB2A104J	CHIP R	100K	J	1/10W		
R305			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R309			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R310			RK73FB2A333J	CHIP R	33K	J	1/10W		
R311,312			R92-1866-05	METAL	0.1HM		2W		
R313,314			RK73FB2A333J	CHIP R	33K	J	1/10W		
R315,316			RK73FB2A243J	CHIP R	24K	J	1/10W	KP1Y1	
R315,316			RK73FB2A243J	CHIP R	24K	J	1/10W	M1V	
R315,316			RK73FB2A393J	CHIP R	39K	J	1/10W	K1P2Y2	
R317,318			RK73FB2A471J	CHIP R	470	J	1/10W		
R319,320			RK73FB2A333J	CHIP R	33K	J	1/10W		
R323,324			RD14NB2E4R7J	RD	4.7	J	1/4W		
R325,326			R92-1866-05	METAL	0.1HM		2W		
R327,328			RK73FB2A333J	CHIP R	33K	J	1/10W		
R329,330			RK73FB2A243J	CHIP R	24K	J	1/10W	KP1Y1	
R329,330			RK73FB2A243J	CHIP R	24K	J	1/10W	M1V	
R329,330			RK73FB2A393J	CHIP R	39K	J	1/10W	K1P2Y2	
R331,332			RK73FB2A471J	CHIP R	470	J	1/10W		
R333,334			RK73FB2A333J	CHIP R	33K	J	1/10W		
R337,338			RD14NB2E4R7J	RD	4.7	J	1/4W		
R339			R92-1866-05	METAL	0.1HM		2W		
R341			RD14NB2E4R7J	RD	4.7	J	1/4W		
⚠ R351,352			RD14NB2E4R7J	RD	4.7	J	1/4W		
R353			RK73FB2A103J	CHIP R	10K	J	1/10W		
R354			RK73FB2A223J	CHIP R	22K	J	1/10W		
R355			RK73FB2A473J	CHIP R	47K	J	1/10W		
R356,357			RK73FB2A104J	CHIP R	100K	J	1/10W		
R361			RK73FB2A333J	CHIP R	33K	J	1/10W		
R363			RK73FB2A243J	CHIP R	24K	J	1/10W	KP1Y1	
R363			RK73FB2A243J	CHIP R	24K	J	1/10W	M1V	
R363			RK73FB2A393J	CHIP R	39K	J	1/10W	K1P2Y2	
R365			RK73FB2A471J	CHIP R	470	J	1/10W		
R367,368			RK73FB2A242J	CHIP R	2.4K	J	1/10W	KP1Y1	
R367,368			RK73FB2A242J	CHIP R	2.4K	J	1/10W	M1	
R367,368			RK73FB2A332J	CHIP R	3.3K	J	1/10W	K1P2Y2	
R367,368			RK73FB2A332J	CHIP R	3.3K	J	1/10W	V	
R369-371			RK73FB2A562J	CHIP R	5.6K	J	1/10W	KP1Y1	
R369-371			RK73FB2A562J	CHIP R	5.6K	J	1/10W	M1	
R369-371			RK73FB2A622J	CHIP R	6.2K	J	1/10W	K1P2Y2	
R369-371			RK73FB2A622J	CHIP R	6.2K	J	1/10W	V	
R372			RK73FB2A162J	CHIP R	1.6K	J	1/10W		
R373-377			RK73FB2A102J	CHIP R	1.0K	J	1/10W		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R521			RK73FB2A103J	CHIP R	10K	J	1/10W		
R522			RD14NB2E1R0J	RD	1	J	1/4W		
R534			RK73FB2A101J	CHIP R	100	J	1/10W		
R536			RK73FB2A101J	CHIP R	100	J	1/10W		
R539			RK73FB2A101J	CHIP R	100	J	1/10W		
R542			RK73EB2B101J	CHIP R	100	J	1/8W		
R549			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R555,556			RK73FB2A103J	CHIP R	10K	J	1/10W		
R562			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R578			RK73FB2A103J	CHIP R	10K	J	1/10W		
R587			RK73FB2A103J	CHIP R	10K	J	1/10W		
R592			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R598			RK73FB2A361J	CHIP R	360	J	1/10W		
R599			RK73FB2A472J	CHIP R	4.7K	J	1/10W		
R603			RK73FB2A472J	CHIP R	4.7K	J	1/10W	K1P2Y2	
W501-503			R92-0670-05	CHIP R	0 OHM				
W504			R92-0679-05	CHIP R	0 OHM			KP1Y1	
W504			R92-0679-05	CHIP R	0 OHM			M1K1P2	
W504			R92-0679-05	CHIP R	0 OHM			Y2	
W505			R92-0670-05	CHIP R	0 OHM			KP1Y1	
W505			R92-0670-05	CHIP R	0 OHM			M1	
K1 -4			S76-0076-05	MAGNETIC RELAY					
S501-507			S70-0031-05	TACT SWITCH					
S509-512			S70-0031-05	TACT SWITCH					
S514-516			S70-0031-05	TACT SWITCH					
S520,521			S70-0031-05	TACT SWITCH					
S517			T99-0602-05	ROTARY ENCODER					
S518,519			T99-0605-05	ROTARY ENCODER					
⚠ D1			D4SBL20UF03	DIODE				KP1Y1	
⚠ D1			D4SBL20UF03	DIODE				M1V	
⚠ D2			D4SBL20UF03	DIODE					
⚠ D3 -6			S5688B	DIODE					
⚠ D3 -6			1SR139-400	DIODE					
D8 ,9			MTZJ16(B)	ZENER DIODE					
D8 ,9			RD16ES(B2)	ZENER DIODE					
D11			MTZJ7.5(B)	ZENER DIODE				KP1Y1	
D11			MTZJ7.5(B)	ZENER DIODE				M1	
D11			RD7.5JS(B2)	ZENER DIODE				KP1Y1	
D11			RD7.5JS(B2)	ZENER DIODE				M1	
D12 -14			MTZJ8.2(B)	ZENER DIODE				KP1Y1	
D12 -14			MTZJ8.2(B)	ZENER DIODE				M1V	
D12 -14			RD8.2JS(B2)	ZENER DIODE				KP1Y1	
D12 -14			RD8.2JS(B2)	ZENER DIODE				M1V	
D15 ,16			MTZJ6.8(B)	ZENER DIODE					
D15 ,16			RD6.8ES(B)	ZENER DIODE					
D17			HSS104A	DIODE					
D17			1SS133	DIODE					
D18			MTZJ4.7(B)	ZENER DIODE					
D18			RD4.7ES(B2)	ZENER DIODE					
D19			MTZJ3.3(B)	ZENER DIODE					
D19			RD3.3ES(B2)	ZENER DIODE					
D20 -23			MA111	DIODE					
D24 ,25			MTZJ18(B)	ZENER DIODE					

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	Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
	D24 ,25			RD18ES(B2)	ZENER DIODE		
	D26 ,27			MA111	DIODE		
	D29			MA111	DIODE	KP1Y1	
	D29			MA111	DIODE	M1V	
	D503			HSS104A	DIODE		
	D503			1SS133	DIODE		
	D504			HSS104A	DIODE	V	
	D504			HSS104A	DIODE	Y1M1Y2	
	D504			1SS133	DIODE	V	
	D504			1SS133	DIODE	Y1M1Y2	
	D508,509			HSS104A	DIODE		
	D508,509			1SS133	DIODE		
	D510			HSS104A	DIODE	V	
	D510			HSS104A	DIODE	Y1M1Y2	
	D510			1SS133	DIODE	V	
	D510			1SS133	DIODE	Y1M1Y2	
	D511-522			HSS104A	DIODE		
	D511-522			1SS133	DIODE		
	D525			MTZJ6.2(B)	ZENER DIODE		
	D525			RD6.2JS(B2)	ZENER DIODE		
	D526			HSS104A	DIODE		
	D526			1SS133	DIODE		
	D529-531			HSS104A	DIODE		
	D529-531			1SS133	DIODE		
	ED51			11-MT-116GK	INDICATOR TUBE		
⚠	IC1			TA7815SB	ANALOGUE IC		
⚠	IC2			TA79015SB	ANALOGUE IC		
⚠	IC3			STK407-090K	HYBRID IC	K1P2Y2	
⚠	IC3			STK411-230D	HYBRID IC	KP1Y1	
⚠	IC3			STK411-230D	HYBRID IC	M1V	
⚠	IC3		✻	STK411-230K	HYBRID IC	KP1Y1	
⚠	IC3		✻	STK411-230K	HYBRID IC	M1	
⚠	IC4			STK407-290K	HYBRID IC	K1P2Y2	
⚠	IC4			STK410-030D	HYBRID IC	KP1Y1	
⚠	IC4			STK410-030D	HYBRID IC	M1V	
⚠	IC4		✻	STK410-030K	HYBRID IC	KP1Y1	
⚠	IC4		✻	STK410-030K	HYBRID IC	M1V	
	IC5			NJM4580ED	ANALOGUE IC		
	IC6			TC9164AF	MOS-IC		
	IC7			TC9163AF	MOS-IC		
	IC8			NJM4565MD	IC(OP AMP X2)		
	IC9			M62446FP	ANALOGUE IC		
	IC10-12			NJM4565MD	IC(OP AMP X2)		
	IC51			CXP82832-141Q	MI-COM IC		
	IC52			X24C02S	MEMORY IC	Y1M1Y2	
	IC53			S-80740AL-A4	IC(VOLTAGE DETECTOR)		
	Q1			2SC1845(F,E)	TRANSISTOR		
⚠	Q2			2SA1534A(R,S)	TRANSISTOR	K1P2Y2	
⚠	Q2			2SB1640	TRANSISTOR	KP1Y1	
⚠	Q2			2SB1640	TRANSISTOR	M1V	
	Q3 -14			2SC2878(B)	TRANSISTOR		
⚠	Q15 ,16			2SA1576A(R,S)	TRANSISTOR		
	Q17 -21			2SC1845(F,E)	TRANSISTOR		
	Q23			2SA992(F,E)	TRANSISTOR		
	Q24 ,25			2SC1845(F,E)	TRANSISTOR		

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	Q26 -29			DTC123JUA	DIGITAL TRANSISTOR		
⚠	Q31			2SC2631(S,T)	TRANSISTOR		
⚠	Q32			2SA1123(S,T)	TRANSISTOR		
	Q34 ,35			2SC1845(F,E)	TRANSISTOR		
	Q36			2SA1535(Q,R)	TRANSISTOR		
	Q37			2SC1845(F,E)	TRANSISTOR		
	Q38			2SC3722K(R,S)	TRANSISTOR		
	Q39			DTC113ZUA	DIGITAL TRANSISTOR		
	Q501			2SC4116(Y,GR)	TRANSISTOR		
	Q501			2SC4177(L5,L6)	TRANSISTOR		
	Q503			2SC4116(Y,GR)	TRANSISTOR		
	Q503			2SC4177(L5,L6	TRANSISTOR		
	Q504			2SC4116(Y,GR)	TRANSISTOR		
	Q504			2SC4177(L5,L6	TRANSISTOR		
	Q505			2SC4116(Y,GR)	TRANSISTOR	K1P2Y2	
	Q505			2SC4177(L5,L6)	TRANSISTOR	K1P2Y2	
	A501			W02-2625-05	OPTIC RECEIVING MODULE		

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HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	*ABB.*	*Australia*	*Canada*	*China*	*England*	*Europe*	*Germany*	*Korea*	*Malaysia*
VR-208	–	–	P2	–	–	–	–	–	–
VR-209	–	–	P1	–	–	–	–	–	–
KRF-V7510D	–	–	–	–	–	–	–	–	–
KRF-V8010D	–	–	–	–	–	–	–	–	–
MODEL	*ABB.*	*Mexico*	*PX/AAFES*	*Russia*	*Scandinavia*	*Shanghai*	*U.S.A.*	*Other area*	
VR-208	–	–	–	–	–	–	K1	–	
VR-209	–	–	–	–	–	–	K	–	
KRF-V7510D	–	–	Y2	–	–	–	–	–	–
KRF-V8010D	–	Y1	–	–	–	V	–	M1	–

SPECIFICATIONS

Except U.S.A. and Canada

AUDIO section

Effective power output during STEREO operation

KRF-V8010D

1kHz,10% T.H.D.,at 8 Ω ..... 140 W + 140 W

KRF-V7510D

1kHz,10% T.H.D.,at 8 Ω ..... 70 W + 70 W

Rated power output during STEREO operation

KRF-V8010D

DIN (63 Hz ~ 12.5 kHz, 0.7%, 8 Ω) ..... 110 W + 110 W

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

KRF-V7510D

DIN (63 Hz ~ 12.5 kHz, 0.7%, 8 Ω) ..... 50 W + 50 W

50 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation

KRF-V8010D

FRONT (1kHz, 10% T.H.D. at 8 Ω) ..... 100 W + 100 W
CENTER (1kHz, 10% T.H.D. at 8 Ω) ..... 100 W
SURROUND (1kHz, 10% T.H.D. at 8 Ω) ..... 100 W + 100 W

KRF-V7510D

FRONT (1kHz, 10% T.H.D. at 8 Ω) ..... 50 W + 50 W
CENTER (1kHz, 10% T.H.D. at 8 Ω) ..... 50 W
SURROUND (1kHz, 10% T.H.D. at 8 Ω) ..... 50 W + 50 W

Total harmonic distortion

KRF-V8010D ..... 0.02%(1 kHz, 50W, 8 Ω)
KRF-V7510D ..... 0.02%(1 kHz, 25W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB
CD ..... 91 dB

Input sensitivity / impedance

PHONO (MM) ..... 2.5 mV / 27 kΩ
CD ..... 200 mV / 47 kΩ

Output level / impedance

TAPE REC ..... 200 mV / 1 kΩ
PRE OUT (CENTER, SURROUND) ..... 1 V / 1 kΩ
PRE OUT (SUBWOOFER) ..... 1 V / 600 Ω

Tone control

BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz

Input level / impedance / wave length

Optical ..... -15 dBm ~ -21 dBm, 600 nm ±30nm
Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) ..... 1 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO)

..... 1.6 μV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)

50dB quieting sensitivity

STEREO ..... 31.6 μV (75 Ω)/ 41.2 dBf

Total harmonic distortion (1 kHz)

MONO ..... 0.6% (65 dBf input)
STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)

MONO ..... 75 dB (65 dBf input)
STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response ..... 30 Hz ~ 15kHz, +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range

9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz

Usable sensitivity (30% mod., S/N 20 dB)

..... 16 μV / (600 μV/m)

Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption

KRF-V8010D ..... 280 W
KRF-V7510D ..... 210 W

AC outlet

SWITCHED ..... 2 (total 150 W max.)

Dimensions ..... W : 440 mm
H : 144 mm
D : 400 mm

Weight (Net)

KRF-V8010D ..... 9.5 kg
KRF-V7510D ..... 7.7 kg

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V7510D/V8010D/VR-208/209

SPECIFICATIONS

For U.S.A. and Canada

AUDIO section

Rated power output during STEREO operation

VR-209

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

VR-208

50 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation

VR-209

FRONT (1kHz, 0.7% T.H.D. at 8 Ω)..... 100 W + 100 W
CENTER (1kHz, 0.7% T.H.D. at 8 Ω) ..... 100 W
SURROUND (1kHz, 0.7% T.H.D. at 8 Ω) ..... 100 W + 100 W

VR-208

FRONT (1kHz, 0.7% T.H.D. at 8 Ω)..... 50 W + 50 W
CENTER (1kHz, 0.7% T.H.D. at 8 Ω) ..... 50 W
SURROUND (1kHz, 0.7% T.H.D. at 8 Ω) ..... 50 W + 50 W

Total harmonic distortion

VR-209 ..... 0.02%(1 kHz, 50W, 8 Ω)
VR-208 ..... 0.02%(1 kHz, 25W, 8 Ω)

Signal to noise ratio (IHF'66)

PHONO (MM)..... 75 dB
CD ..... 91 dB

Input sensitivity / impedance

PHONO (MM)..... 2.5 mV / 27 kΩ
CD ..... 200 mV / 47 kΩ

Output level / impedance

TAPE REC ..... 200 mV / 1 kΩ
PRE OUT (CENTER, SURROUND)..... 1 V / 1 kΩ
PRE OUT (SUBWOOFER)..... 1 V / 600 Ω

Tone control

BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency ..... 32 kHz, 44.1 kHz, 48 kHz
Input level / impedance / wave length
Optical ..... -15 dBm ~ -21 dBm, 600 nm ±30nm
Coaxial ..... 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) ..... 1 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)
..... 1.6 μV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
STEREO ..... 31.6 μV (75 Ω)/ 41.2 dBf
Total harmonic distortion (1 kHz)
MONO ..... 0.6% (65 dBf input)
STEREO ..... 0.7% (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)
MONO ..... 75 dB (65 dBf input)
STEREO ..... 68 dB (65 dBf input)
Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 70 dB
Frequency response ..... 30 Hz ~ 15kHz, +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
10 kHz step ..... 530 kHz ~ 1,700 kHz
Usable sensitivity (30% mod., S/N 20 dB)
..... 16 μV / (600 μV/m)
Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption ..... 2.2 A
AC outlet
SWITCHED ..... 2 (total 150 W, 1.25 A max.)
Dimensions ..... W : 440 mm (17-5/16")
H : 144 mm (5-11/16")
D : 400 mm (15-3/4")
Weight (Net)
VR-209 ..... 8.7 kg (19.2 lb)
VR-208 ..... 7.7 kg (17.0 lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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