

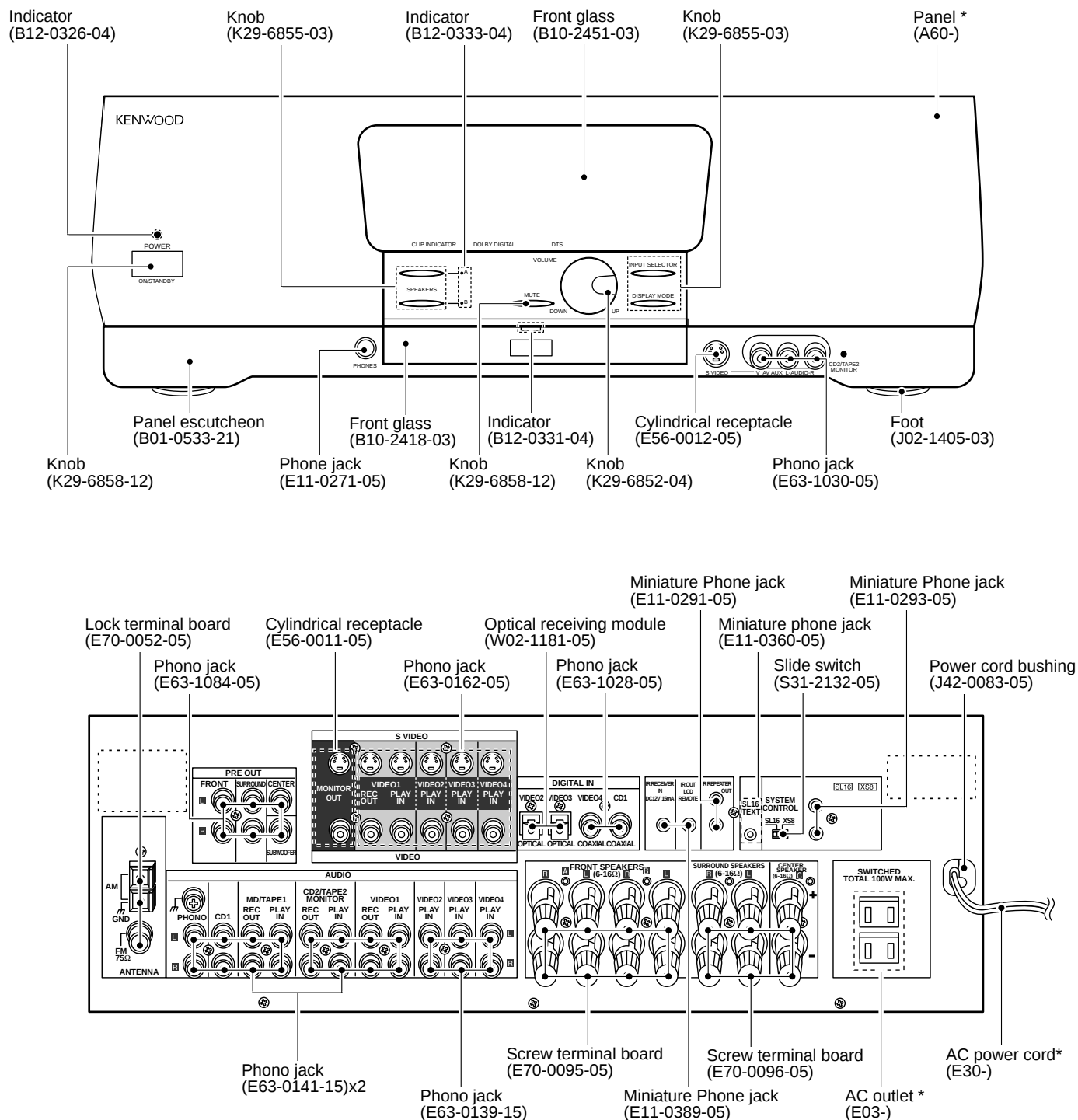
KRF-V7772D

VR-3080

SERVICE MANUAL

KENWOOD

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*Refer to parts list on page37~.

KRF-V7772D/VR-3080

CONTENTS / ACCESSORIES

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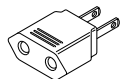
Accessories

PowerPad Remote
(A70-1191-05) : RC-R0907



Battery cover(A09-1115-08)

AC plug adapter
(E03-0115-05)



Use to adapt the plug on the power cord to the shape of the wall outlet.

(Present only for regions where use is necessary.)

Batteries



AM Loop Antenna (T90-0833-05) -----



AM Antenna Base



FM Antenna
(T90-0841-05)

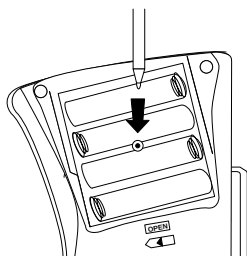


RESET

Resetting PowerPad

If you want to reconfigure PowerPad, you can reset it. You do not need to do this unless you experience a problem.

1. Open the cover and remove the batteries,
2. Use a pen or other thin-tipped object to press the blue button in the center of the battery case:



3. Reinstall the batteries and follow the instructions in this chapter to set up PowerPad again.

Receiver

If none of the above solutions work, reset the micro-processor:

(For USA and Canada)

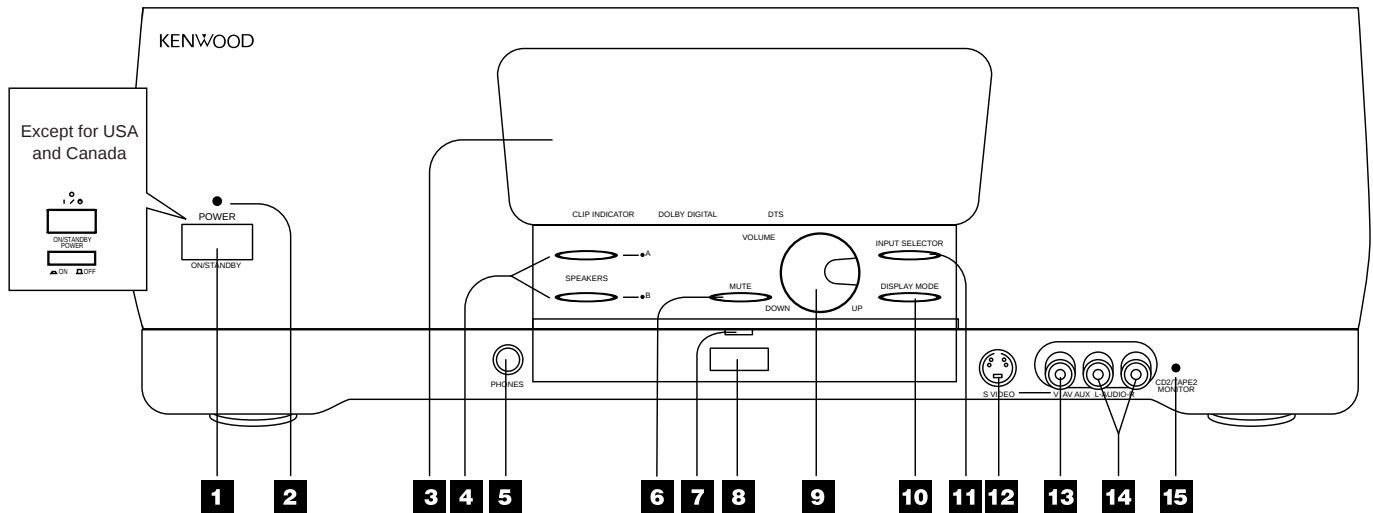
1. Turn the receiver off.
2. Unplug the receiver.
3. Plug it back in while pressing and holding the Power button (you may need someone else to help you do this)
4. Continue to hold the Power button for more than 1 second.

(For Other Countries)

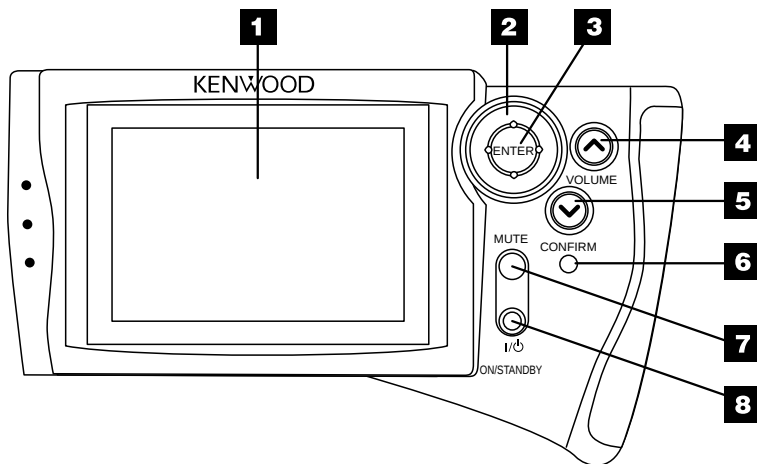
1. Turn the receiver off. (The Power button is OFF position.)
2. Press ON/STANDBY button while pressing and holding the Power button.
3. Continue to hold the Power button for more than 1 second.

KRF-V7772D/VR-3080

CONTROLS



- | | |
|-----------------------------|--|
| 1. Power On/Standby button | 9. Volume control knob |
| 2. Power indicator light | 10. Display Mode button |
| 3. Display panel | 11. Input selector button |
| 4. Speaker selector buttons | 12. AV AUX S VIDEO jack |
| 5. Headphone jack | 13. AV AUX composite video jack |
| 6. Mute button | 14. AV AUX audio jacks |
| 7. IR indicator | 15. CD2/Tape 2 Monitor indicator light |
| 8. IR transmitters | |



1. LCD display screen
2. Joystick
3. Enter button
4. Volume up button
5. Volume down button
6. Confirm button
7. Mute button
8. On/Standby button

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DISASSEMBLY FOR REPAIR

[Check the audio PCB(X09)]

1. Remove the 9 screws (①,②,③).
2. Remove the 4 hooks(④,⑤) and remove the audio PCB(X09), then stand the set with left side downward.
3. Connect between the chassis of the set and the rear panel with an alligator clip lead wire (⑥).

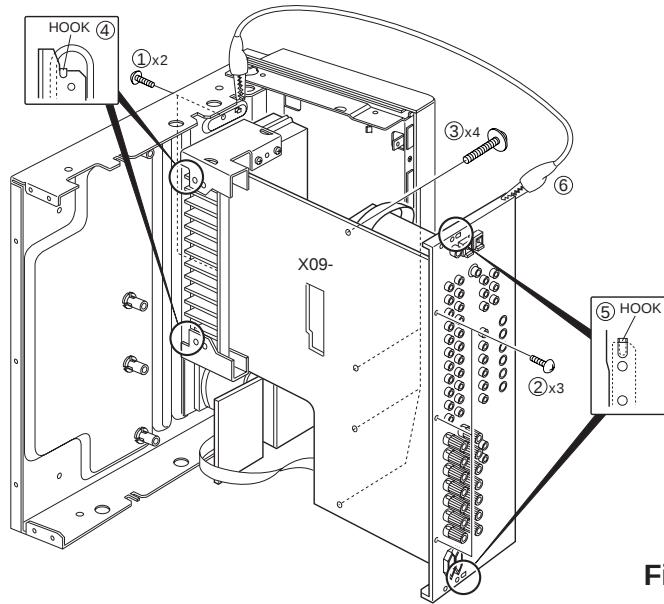


Fig. 1

[Check the B side of the DSP PCB (X08)]

1. Remove the 11 screws(①,②).
2. Remove the X08(C/10)(J/10) (③), then remove the X08(A/10) (④).
3. Solder the pin 1(-17V), the pin 4 (+17V) and the pin 6(GND) between CN1 on the X08(A/10) and CN2 on the X08(I/10) with 3 lead wires (⑤).
4. Connect between the each GND of J1, J62, J61, J2 on the X08(A/10) and the rear panel with 4 alligator clip lead wires (⑥).

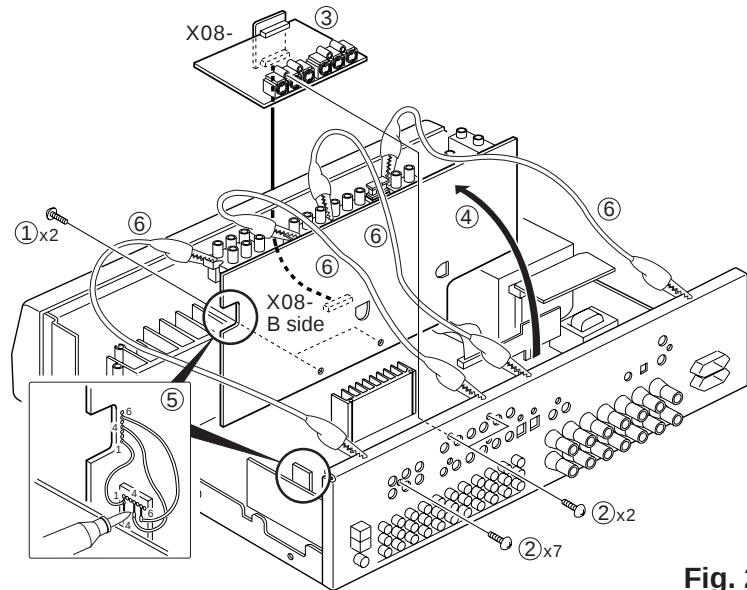


Fig. 2

[Remove the escutcheon (operation panel)]

1. Remove the knob(①), the nut (②), the 11 screws(③, ④, ⑤) and 2 hooks (⑥), then remove the front panel ass'y.
2. Remove the lead wire(⑦), the 2 screws(⑧ : except K,P type) and 7 screws(⑨) then remove the PCB.
3. Remove the under front glass(⑩, ⑪), then remove the front panel(⑫) from the sub panel.
4. Remove the 2 under escutcheon sides(⑬) by ⊖ screw driver and the 2 hooks(⑭) then remove the escutcheon(⑮).

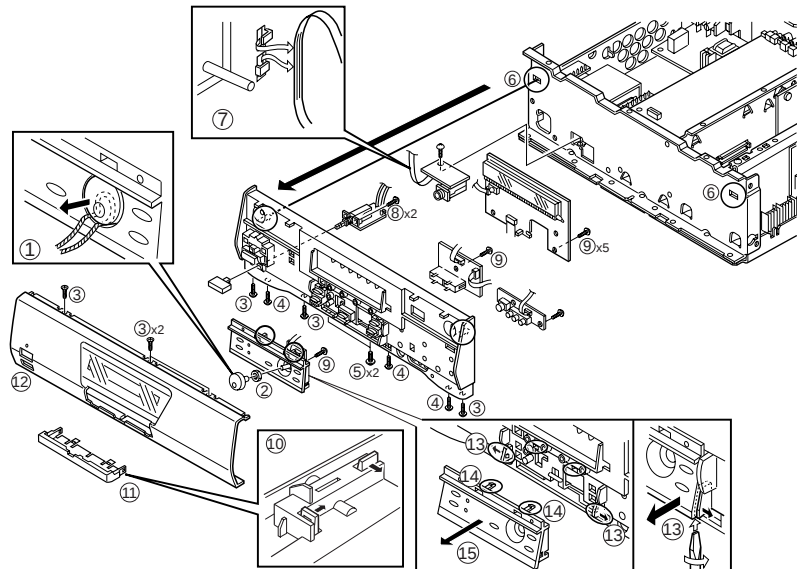


Fig. 3

BLOCK DIAGRAM



KRF-V7772D/VR-3080

CIRCUIT DESCRIPTION

1. The back up item and initialization condition

1-1 Back up

• POWER ON/OFF	: OFF
• VOLUME LEVEL	: -66dB
• AUDIO INPUT • SELECTOR	: TUNER
• VIDEO INPUT • SELECTOR	: VIDEO1
• SPEAKER A	: ON
• SPEAKER B	: OFF
• CD2/TAPE2 MONITOR	: TAPE2 OFF
• TONE	: OFF
• LOUDNESS	: OFF
• DISPLAY MODE	: DEVICE+DGTL/ANLG
• DIMMER	: DIMMER 1 (LIGHTTEST)
• SURROUND MODE	: STEREO
• ROOM SIZE	: Med
• WALL TYPE	: Med
• EFFECT LEVEL	: 3
• MIDNIGHT MODE	: OFF
• DISTANCE	: FL/FR : 10ft : C : 10ft : RS/LS : 5ft : SW : 10ft

• FRONT SP.	: LARGE
• CENTER SP.	: NORMAL
• SURROUND SP.	: NORMAL/WIRED
• SUB WOOFER	: ON
• SW Re-Mix	: OFF
• INPUT LEVEL	: 0dB
• CH. LEVEL	: 0dB
• TONE BASS	: 0dB
• TONE TREBLE	: 0dB
• TUNING MODE	: AUTO
• PRESET MEMORY	: TEST MEMORY FRE- QUENCY (Same value with KR-V999D/1090VR)
• LAST BAND	: FM
• FM LAST FREQUENCY	: 87.5MHz
• AM LAST FREQUENCY	: 531kHz (CH. SP 9kHz) : 530kHz (CH. SP 10kHz)
• LAST P. ch	: [- -ch]

1-2 The initial setting

While pressing POWER key, plug the AC power cord into an AC outlet (K,P type) or turn on the AC POWER switch.

2. Condition by the destination or model

(0 : Pull down, 1 : Pull up)

TYPE	BAND	Reception frequency	Channel space	IF	PLL standard frequency	Tuner sw			
						⑩ TSW3	⑪ TSW2	⑫ TSW1	⑬ TSW0
K1 1700	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz				
K2 1610	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	1	1
	AM	530kHz~1610kHz	10kHz	+450kHz	10kHz				
K4 1700 RBDS	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	1	0	1	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz				
E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	0	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
E3 RDS	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	1	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
Q1 RDS	FM L	65.0MHz~74.0MHz	10kHz	+10.7MHz	5kHz	1	0	1	1
	FM H	87.5MHz~108.0MHz	50kHz	+10.7MHz	5kHz				
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
M	K2/E1 is switched with only the setting of DSW1 (X11 : S601). (DSW1 = 0 : K2 type, 1 : E1 type)					0	0	X	1

3. TEST MODE

[setting method]

While pressing INPUT SELECTOR key, plug the AC power cord into an AC outlet (K, P type) or turn on the AC POWER switch. When a set is set up in test mode condition a set becomes the following condition.
Automatic POWER ON. All indicator tube (FL) and

CLIP INDICATOR LED are lighted. The other LED are flashed.

A backup at the thing except ON/OFF of POWER is initialized.

[cancel method]

The power supply is turned off.

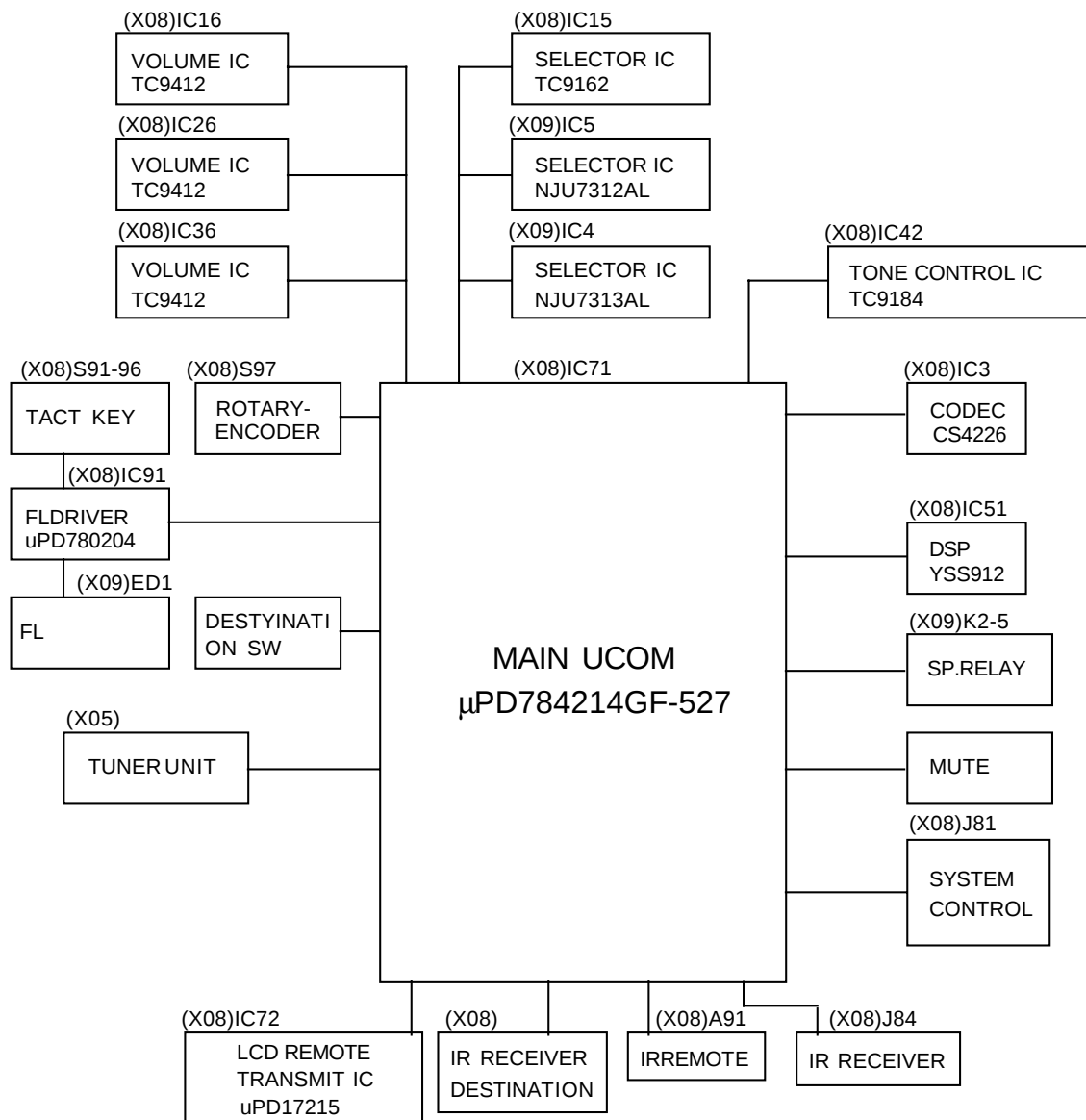
KRF-V7772D/VR-3080

CIRCUIT DESCRIPTION

Push key	INPUT	SELECTOR	SP A	SP B	MUTE	DISPLAY	MODE
DISPLAY	TUNER	STEREO	P. CALL ↑ UP	P. CALL ↓ DOWN	ATT → OFF → ON → FM	AUTO/STEREO ↔ MANUAL/MONO (DOLBY DIGITAL LED : OFF ↔ ON)	(Press the key for 2 secs) ANALOG → DIGITAL IR RECEIVER A(ON) → OFF
	CD1	STEREO				TONE (TUNED) +10 (light on) ↔ OFF (light off)	
	MD/TAPE1	STEREO					
	VIDEO1	PRO LOGIC					
	VIDEO2	3 STEREO					
	VIDEO3	STEREO					
	VIDEO4	DSP				ARENA → JAZZ CLUB THEATER STADIUM CATHEDRAL	
	AV AUX	STEREO				TAPE2 OFF ↔ ON	
	PHONO	STEREO				INPUT LEVEL → 0dB → -3dB → -6dB	

4. Main microprocessor: μ PD784214GF-527(X08: IC71)

4-1 Microprocessor periphery block diagram



KRF-V7772D/VR-3080

CIRCUIT DESCRIPTION

4-2 Pin description

Pin No.	Name	I/O	Connect	Description
1-8	REM_D0-D7	O	P.D.	LCD REMOTE DATA OUT-7
9	VDD	-	-	+5V
10-13	TSW3-0	I	-	TUNER DESTINATION SWITCH3-0
14	ENC_A	I	-	VOLUME ENCODER INPUT A
15	ENC_B	I	-	VOLUME ENCODER INPUT B
16	-	I	P.D.	Not used
17	T_MUTE	O	P.U.	TUNER MUTE
18	PLL_CLK	O	P.D.	PLL(LC72131) CLOCK
19	PLL_DATA	O	P.D.	PLL(LC72131) DATA
20	PLL_DO	I	P.D.	PLL(LC72131) DO
21	PLL_CE	O	P.D.	PLL(LC72131) CE
22	TEST/VPP	-	-	GND
23	PLL_SD	I	P.U.	PLL(LC72131) SD
24	PLL_STEREO	I	P.U.	PLL(LC72131) STEREO
25-28	WIDE_V1-4	I	P.U.	VIDEO1-4 S1 WIDE DETECTOR
29	WIDE_AUX	I	P.U.	AV AUX S1 WIDE DETECTOR
30	WIDE_OUT	O	P.D.	MONITOR OUT S1 WIDE INPUT
31	VIDEO_MUTE	O	P.D.	VIDEO MUTE (mute on:H)
32	TONE_ST	O	P.D.	TONE(TC9184) STROBE
33	VOL_ST	O	P.D.	VOLUME(TC9412) STROBE
34	VOL_DATA	O	P.D.	VOLUME(TC9412), TONE(TC9184) DATA
35	VOL_CLK	O	P.D.	VOLUME(TC9412),TONE(TC9184)CLOCK
36	CE	I	P.D.	CHIP ENABLE
37	VDD	-	-	+5V
38	X2	-	-	12.5MHz
39	X1	I	-	12.5MHz
40	VSS	-	-	GND
41,42	XT2,1	-	-	Not used
43	RESET	I	-	RESET
44	REM0	I	P.D.	REMOTE CONTROLLER SIGNAL INPUT 0 (FRONT PANEL)
45	REM1	I	P.D.	REMOTE CONTROLLER SIGNAL INPUT 1 (IR RECEIVER)
46	CODEC_CS	I	P.D.	CODEC(CS4226) CHIP SELECT
47	CODEC_ERR	I	P.D.	CODEC(CS4226) ERROR DETECT
48	CODEC_AC3	I	P.D.	CODEC(CS4226) AC-3(DOLBY DIGITAL, DTS, MPEG DETECT
49	DSP_DTS	I	P.D.	DSP(YSS912) DTS DETECT
50	DSP_AC3	I	P.D.	DSP(YSS912) AC-3 DETECT
51	AVDD	-	-	+5V
52	AVREF0	-	-	GND
53	DATA_DET	I	P.D.	DIR DATA DETECT
54	CODEC_FREQ1	I	P.D.	CODEC(CS4226) CHANNEL STATUS FREQ. BIT 1
55	CODEC_FREQ0	I	P.D.	CODEC(CS4226) CHANNEL STATUS FREQ. BIT 0
56,57	Not used	I	-	GND
58	CODEC_AUDIO	I	P.D.	CODEC(CS4226) non AUDIO DETECT
59	DSP_NPCM	I	P.D.	DSP(YSS912) non PCM DETECT
60	DSP_SENC	I	P.D.	DSP(YSS912) SURROUND ENCODE DETECT
61	AVSS	-	-	GND
62	DSP_CS_A	O	P.D.	DSP(YSS912) CHIP SELECT
63	DSP_CS_B	O	P.D.	DSP(YSS912) SUB DSP CHIP SELECT
64	AVREF1	-	-	+5V
65	DSP_SI	I	P.D.	DSP(YSS912), CODEC(CS4226)DATA IN

KRF-V7772D/VR-3080

CIRCUIT DESCRIPTION

Pin No.	Name	I/O	Connect	Description
66	DSP_SO	O	P.D.	DSP(YSS912), CODEC(CS4226)DATA OUT
67	DSP_SCK	O	P.D.	DSP(YSS912), CODEC(CS4226)CLOCK
68	TEXT_RX	I	P.D.	CD TEXT UART COMMUNICATION DATA IN
69	TEXT_TX	O	P.D.	CD TEXT UART COMMUNICATION DATA OUT
70	DSP_IC	O	P.D.	DSP(YSS912) INITIAL CLEAR
71	FL_RST	O	P.D.	FL DRIVER(uPD780204) RESET
72	FL_STB	O	P.D.	FL DRIVER(uPD780204) STROBE
73	FL_DI	I	P.D.	FL DRIVER(uPD780204) DATA IN
74	FL_DO	O	P.D.	FL DRIVER(uPD780204) DATA OUT
75	FL_CLK	O	P.D.	FL DRIVER(uPD780204) CLOCK
76	8/16	I/O	-	SERIAL XS8/SL16 CHANGEOVER(SL16:L)
77	S_DATA	I/O	P.D.	SERIAL DATA
78	S_BUSY	I	P.D.	SERIAL BUSY
79	SW_MUTE	O	P.D.	SUBWOOFER MUTE
80	ATT-20dB	O	P.D.	20dB AMP CHANGEOVER (AMP on:H)
81	SUR_MUTE	O	P.D.	SURROUND ch MUTE
82	MAIN_MUTE	O	P.D.	MAIN MUTE
83,84	SP_A,B	O	P.D.	SPEAKER A,B RELAY
85	SP_CS	O	P.D.	CENTER,SURROUND SPEAKER RELAY
86	POWER	O	P.D.	POWER RELAY
87	SECOND	O	P.D.	POWER RELAY 2
88	I_PROT	I	P.D.	PROTECTION CURRENT DETECT
89	V_PROT	I	P.D.	PROTECTION VOLTAGE DETECT
90	IR_RCV	I	-	IR RECEIVER DISTINCTION(IR RECEIVER EXIST:H)
91	SEL_CLK	O	P.D.	SELECTOR(NJU7312,NJU7313,TC9162) CLOCK
92	SEL_DATA	O	P.D.	SELECTOR(NJU7312,NJU7313,TC9162) DATA
93	SEL_ST	O	P.D.	SELECTOR(NJU7312,NJU7313,TC9162) STROBE
94	IN_ATT3	O	P.D.	INPUT ATTENUATOR -3dB
95	IN_ATT6	O	P.D.	INPUT ATTENUATOR -6dB
96	TAPE2_LED	O	P.D.	TAPE2 LED
97	REM_RWR	I	P.D.	LCD REMOTE RWR
98	REM_ENB	I	P.D.	LCD REMOTE ENABLE
99	REM_REQ	O	P.D.	LCD REMOTE REQUEST
100	VSS	-	-	GND

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CIRCUIT DESCRIPTION

4-3 Circuit control

(a) Selector IC

NJU7313AL(X09:IC4), NJU7312AL (X09:IC5)

(1:H, 0:L)

		NJU7313AL								NJU7312AL *3							
	PIN No.(Lch)	2	3	4	5	7	8	10	11	2	3	4	6	7	8	10	11
	PIN No.(Rch)	27	26	25	24	22	21	19	18	27	26	25	23	22	21	19	18
	SW No. (Lch)	L1	L2	L3	L4	L5	L6	L8	L9	L1	L2	L3	L4	L5	L6	L7	L8
	SW No. (Rch)	R1	R2	R3	R4	R5	R6	R7	R8	R1	R2	R3	R4	R5	R6	R7	R8
*1	TUNER	1	0	0	0	0	0			1	1	1	0	0	0	0	0
	CD1	0	0	0	0	1	0			1	1	1	0	0	0	0	0
	MD/ TAPE1	0	0	0	1	0	0			0	1	1	0	0	0	0	0
	VIDEO1	0	0	0	0	0	0			1	1	0	0	1	0	0	0
	VIDEO2	0	0	0	0	0	0			1	1	1	0	0	1	0	0
	VIDEO3	0	0	0	0	0	0			1	1	1	0	0	0	1	0
	VIDEO4	0	0	0	0	0	0			1	1	1	0	0	0	0	1
	AV AUX	0	0	0	0	0	0			1	1	1	1	0	0	0	0
	PHONO	0	1	0	0	0	0			1	1	1	0	0	0	0	0
	CD2 /TAPE2 off							0	1								
	CD2 /TAPE2 on							1	0								
*2		0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	0

*1: ANALOG INPUT or DIGITAL INPUT with except STEREO mode

*2: DIGITAL INPUT with STEREO mode

*3: CD2/TAPE2 MONITOR is set CD2 position and L2,R2(REC OUT of CD2/TAPE2) of NJU7312AL is always used by '0'.

(b) Selector IC

TC9162AF(X08:IC15)

(1:H, 0:L)

PIN No.(L ch)	2	3	5	6	8	9	11
PIN No.(R ch)	27	26	24	23	21	20	18
SW No. (L,R ch)	L1,R1	L2,R2	L3,R3	L4,R4	L5,R5	L6,R6	L7,R7
TONE on	1	0					
TONE off	0	1					
SPEAKERS B on			1	0			
SPEAKERS B off			0	1			
ANALOG THROUGH					1	0	0
D/A OUT (LOW BOOS T on *1)					0	1	0
D/A OUT (LOW BOOS T off)					0	0	1

*1: SW off

(c) DSP:YSS912 (X08:IC51)OUTPUT PORT :OPORT0~7

(VIDEO SELECTOR, DIGITAL/ANALOG INPUT DISTINCTION)

(1:H, 0:L)

PIN No.	32	33	34	35	36	37	38	39
	P0	P1	P2	P3	P4	P5	P6	P7
VIDEO1	0	0	0	0	0		0	0
VIDEO2	1	0	1	0	0		0	0
VIDEO3	1	1	1	1	0		0	0
VIDEO4	0	1	0	1	0		0	0
AV AUX	1	1	1	1	1		0	0
DIGI TAL IN						0	0	0
ANALOG IN						1	0	0

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CIRCUIT DESCRIPTION

(d) CODEC:CS4226(X08:IC3) (PIN No.: MAIN UCOM PIN No.)

FREQ0(55 PIN)/FREQ1(54 PIN)

	32 kHz	44 .1 kHz	48 kHz	Reserved
FREQ1	H	L	L	H
FREQ0	H	L	H	L

AUDIO (58 PIN)

Cannel Status Bit0	0	1
AU D I O	L	H

CODEC _ AC 3 (48 PIN)

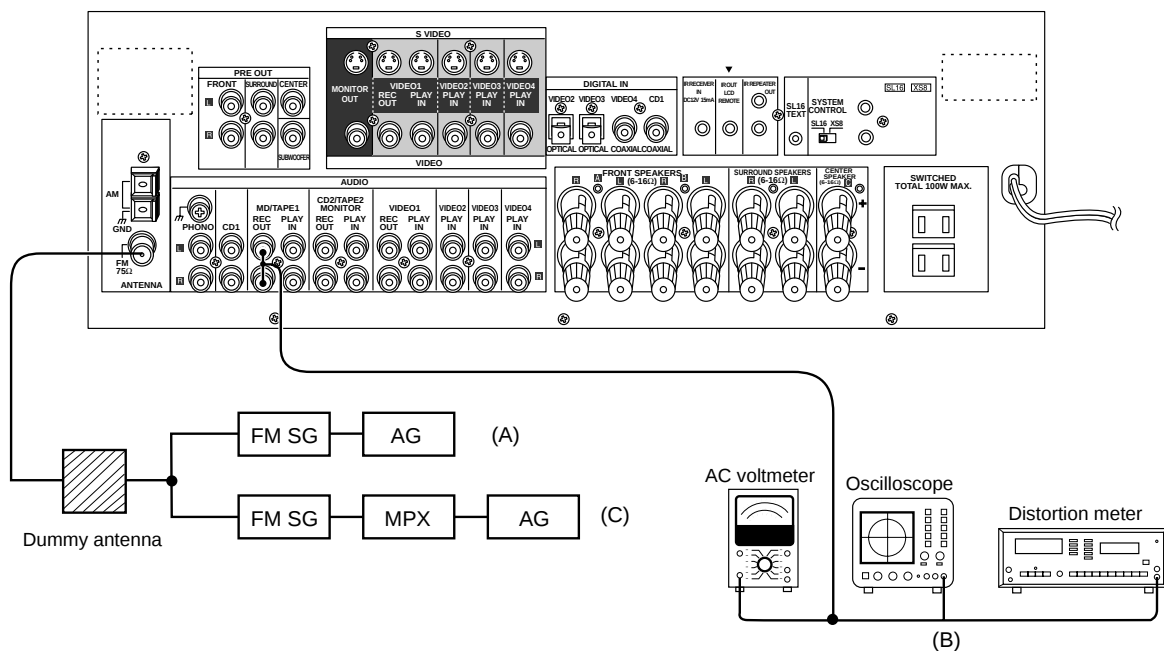
AC -3/MPEG Data Stream input	EXIST	NON
AC -3,MPEG,dts(DVD)	H	L

KRF-V7772D/VR-3080

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION :		SELECTOR : FM	*Adjust NO.1 and NO.2 repeat.				
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN2 ① and CN2 ② (X05)	MONO 98.0MHz	L4 (X05-)	0V	(a)
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X05-)	Minimum distortion	(a)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT(RF FRONTEND : A1) (X05-)	Minimum distortion (L or R)	(a)
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 25dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	(a)
AUDIO SECTION		SPEAKER : A	PREOUT : OFF	PROLOGIC : ON			
<1>	IDLE CURRENT	—	Connect a DC voltmeter across each T.P. CN21 : L CN22 : R CN23 : LS CN24 : RS CN25 : C (X09-)	(FRONT 2ch MODE) Volume:0	VR1(L) VR2(R) VR5(LS) VR4(RS) VR3(CENTER) (X09-)	10mV	

SYSTEM CONNECTIONS



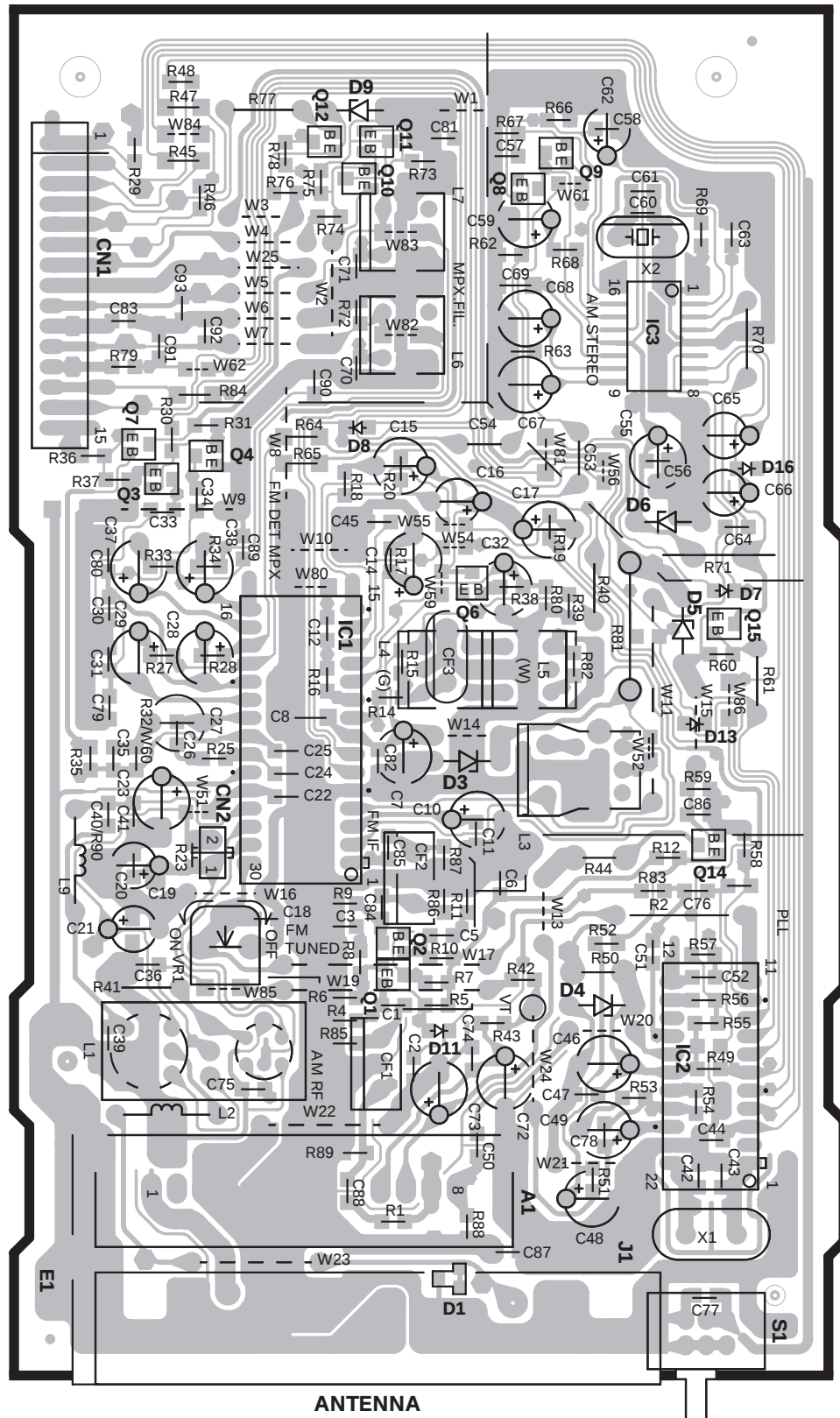
WIRING DIAGRAM



PC BOARD (Component side view)

TUNER UNIT

X05-5030-10 (J70-1284-01)

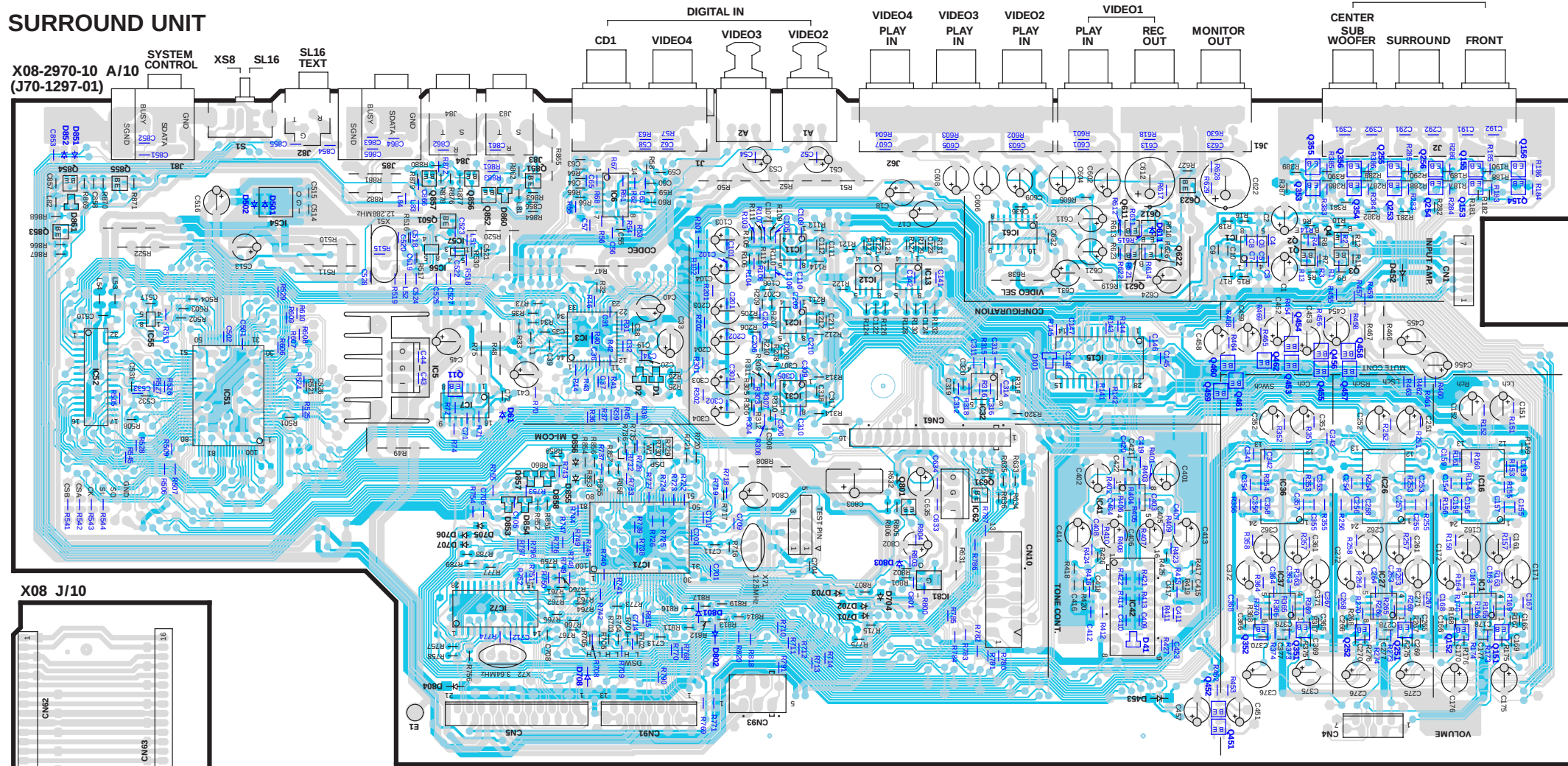


ANTENNA

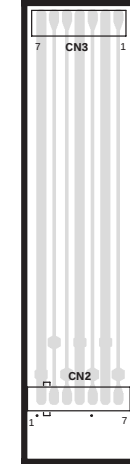
PC BOARD (Component side view)

SURROUND UNIT

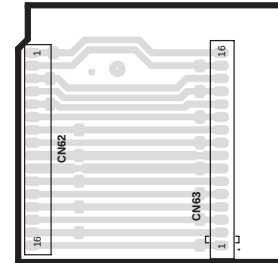
X08-2970-10 A/10
(J70-1297-01)



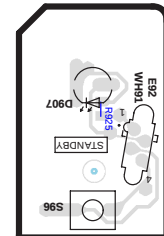
X08 I/10



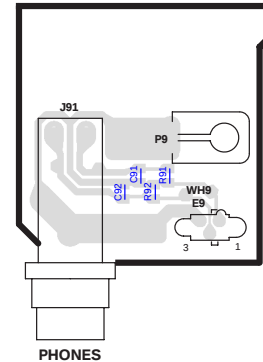
X08 J/10



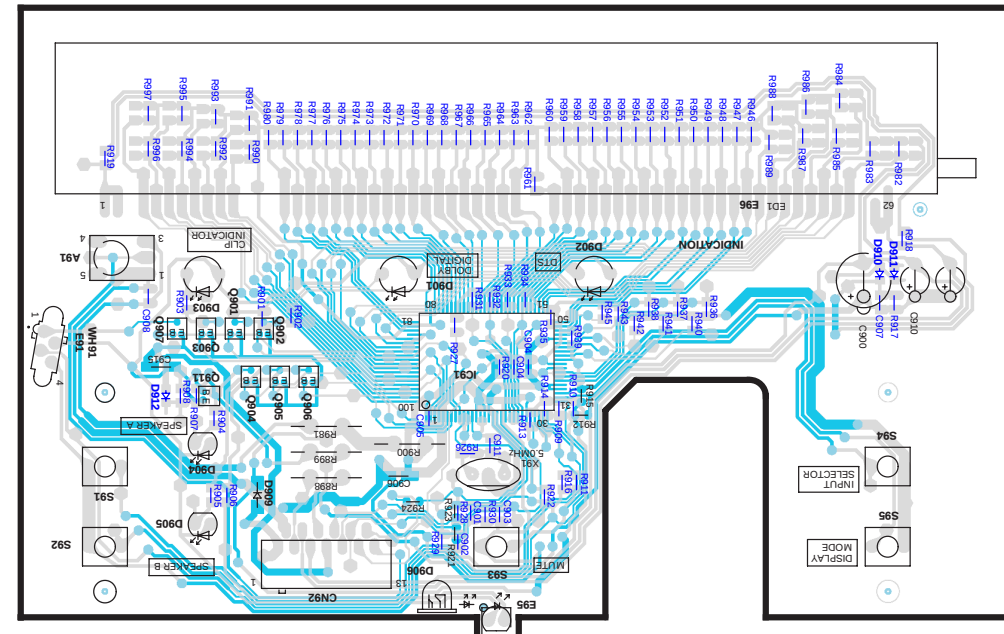
X08 E/10



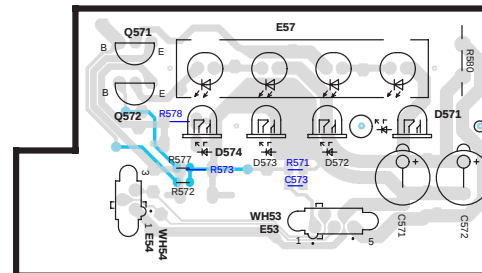
X08 B/10



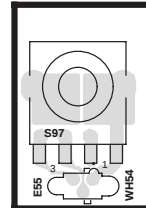
X08 D/10



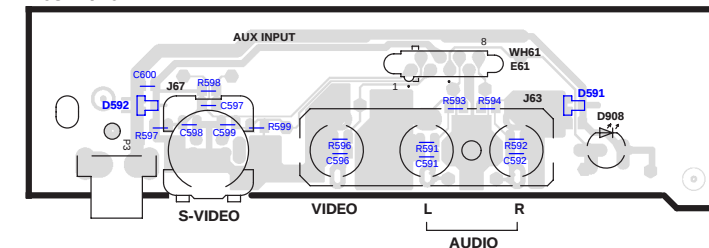
X08 F/10



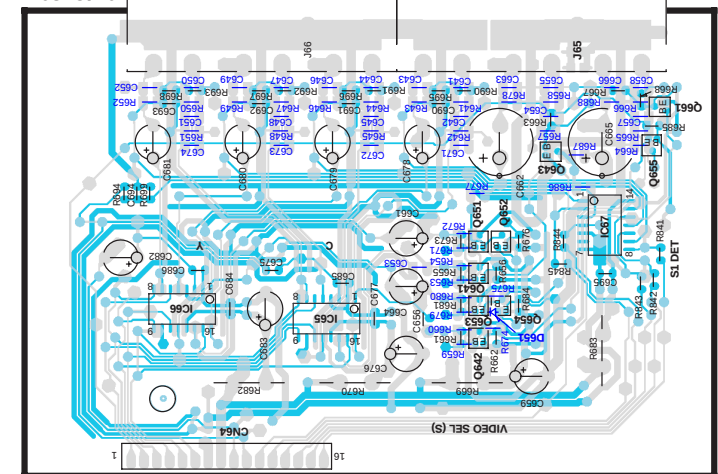
X08 G/10



X08 H/10



X08 C/10



IC1 : LA1837
 IC2 : LC72131
 IC3 : MC13028AM

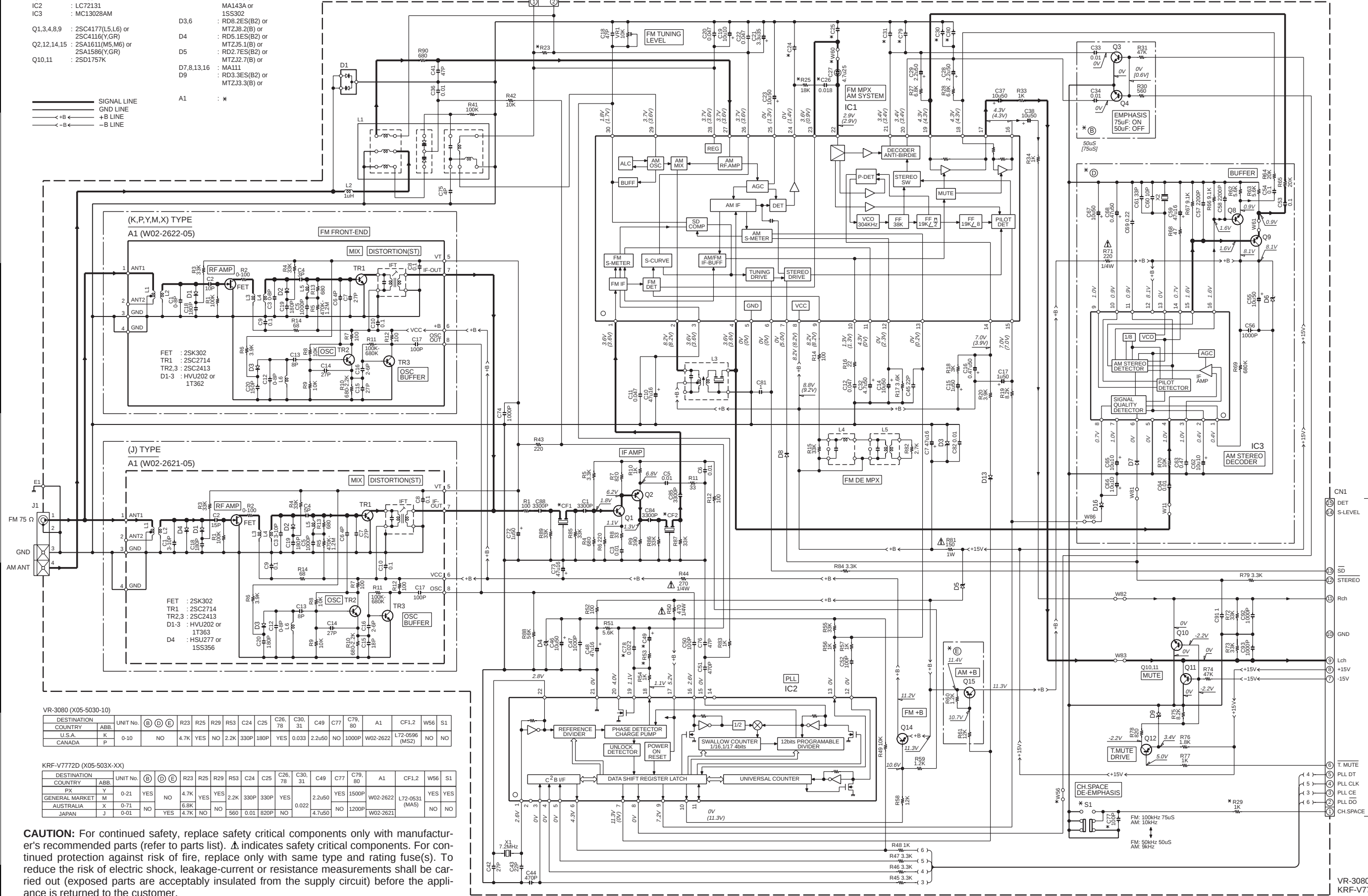
Q1,3,4,8,9 : 2SC4177(L5,L6) or
 2SC4116(Y,GR)
 Q2,12,14,15 : 2SA1611(M5,M6) or
 2SA1586(Y,GR)
 Q10,11 : 2SD1757K

D1 : DA204U or
 MA143A or
 1SS302
 D3,6 : RD8.2ES(B2) or
 MTZ38.2(B) or
 D4 : RD5.1ES(B2) or
 MTZJ5.1(B) or
 D5 : RD2.7ES(B2) or
 MTZJ2.7(B) or
 D7,8,13,16 : MA111
 D9 : RD3.3ES(B2) or
 MTZJ3.3(B) or

A1 : *

SIGNAL LINE
 GND LINE
 +B LINE
 -B LINE

TUNER UNIT (X05-503X-XX)



VR-3080 (X05-5030-10)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(D)	(E)	R23	R25	R29	R53	C24	C25	C26, 78	C30, 31	C49	C77	C79, 80	A1	CF1,2	W56	S1
U.S.A.	K	P	0-10	NO	4.7K	YES	NO	2.2K	330P	180P	YES	0.033	2.2u50	NO	1000P	W02-2622	L72-0596 (MS2)	NO	NO	NO	NO
CANADA	K	P																			

KRF-V7772D (X05-503X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(D)	(E)	R23	R25	R29	R53	C24	C25	C26, 78	C30, 31	C49	C77	C79, 80	A1	CF1,2	W56	S1
PX	Y	M	0-21	YES	NO	4.7K	YES	YES	2.2K	330P	330P	YES	0.022	2.2u50	YES	1500P	W02-2622	L72-0531 (MA5)	YES	YES	YES
GENERAL MARKET	M																				
AUSTRALIA	X	0-71	NO	NO	6.8K	NO	NO	NO	560	0.01	820P	NO	0.022	4.7u50	NO	1200P	W02-2621	NO	NO	NO	NO
JAPAN	J	0-01			YES	4.7K	NO	NO													

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ 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 mode.

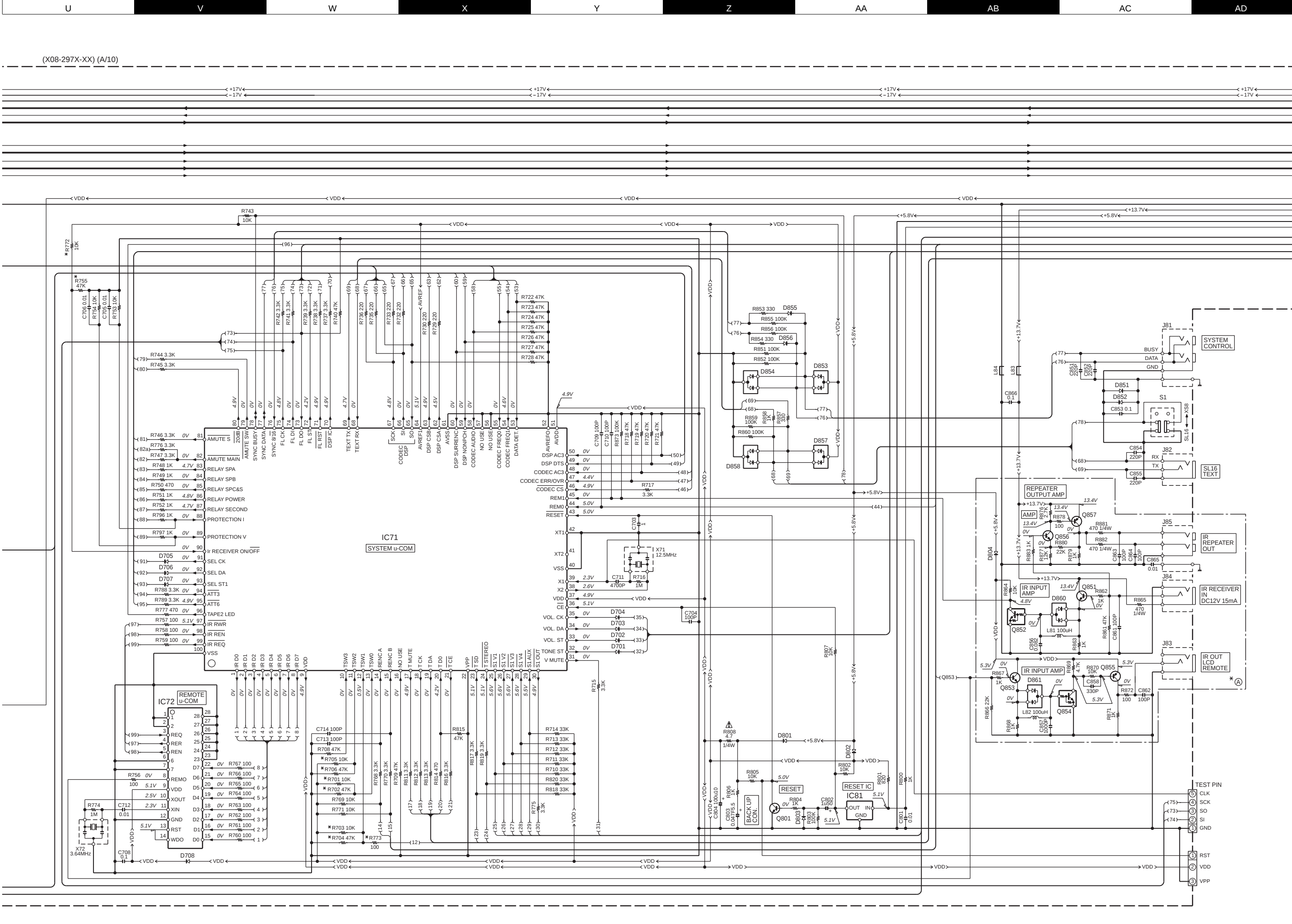
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

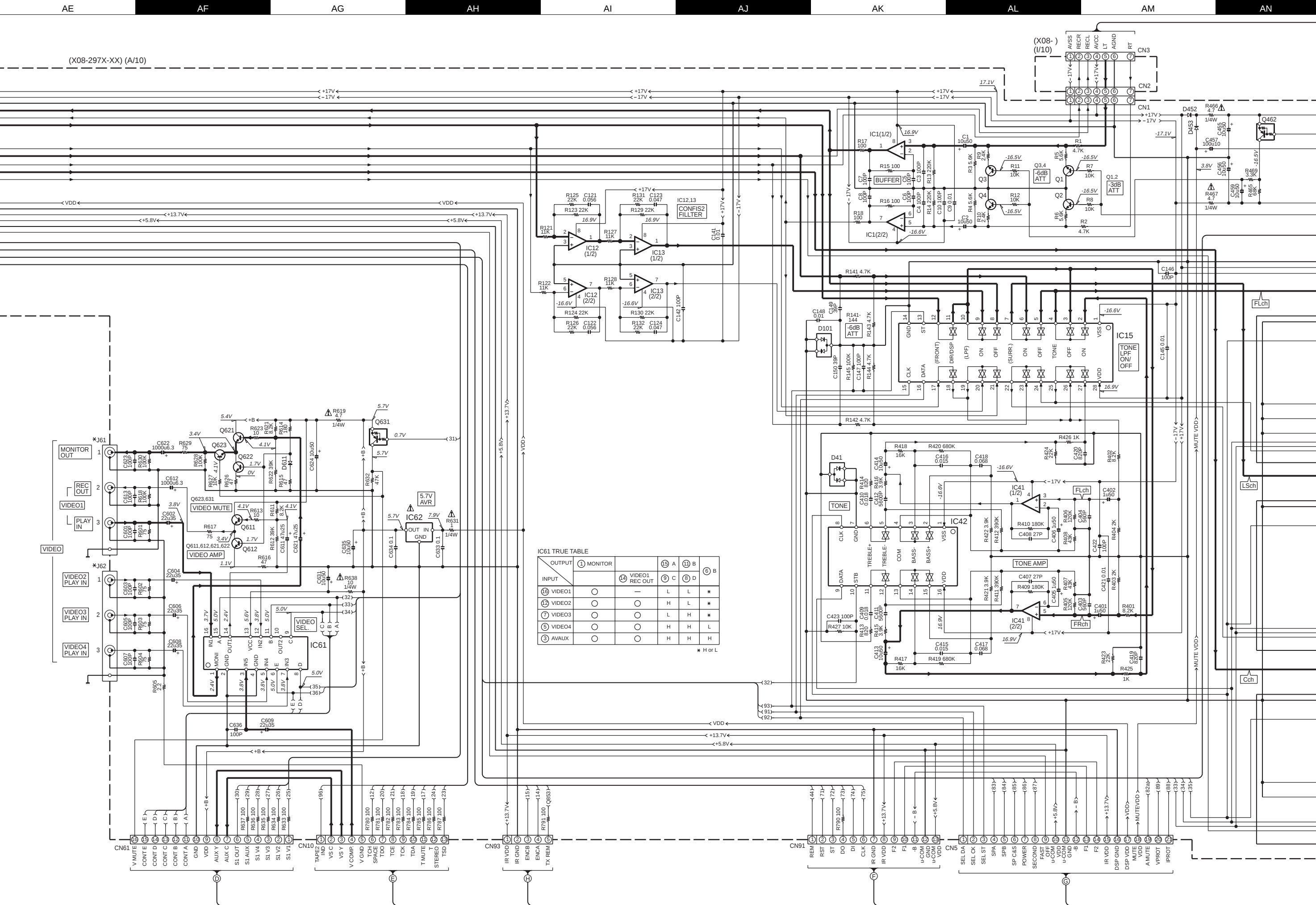
Y05-3850-10

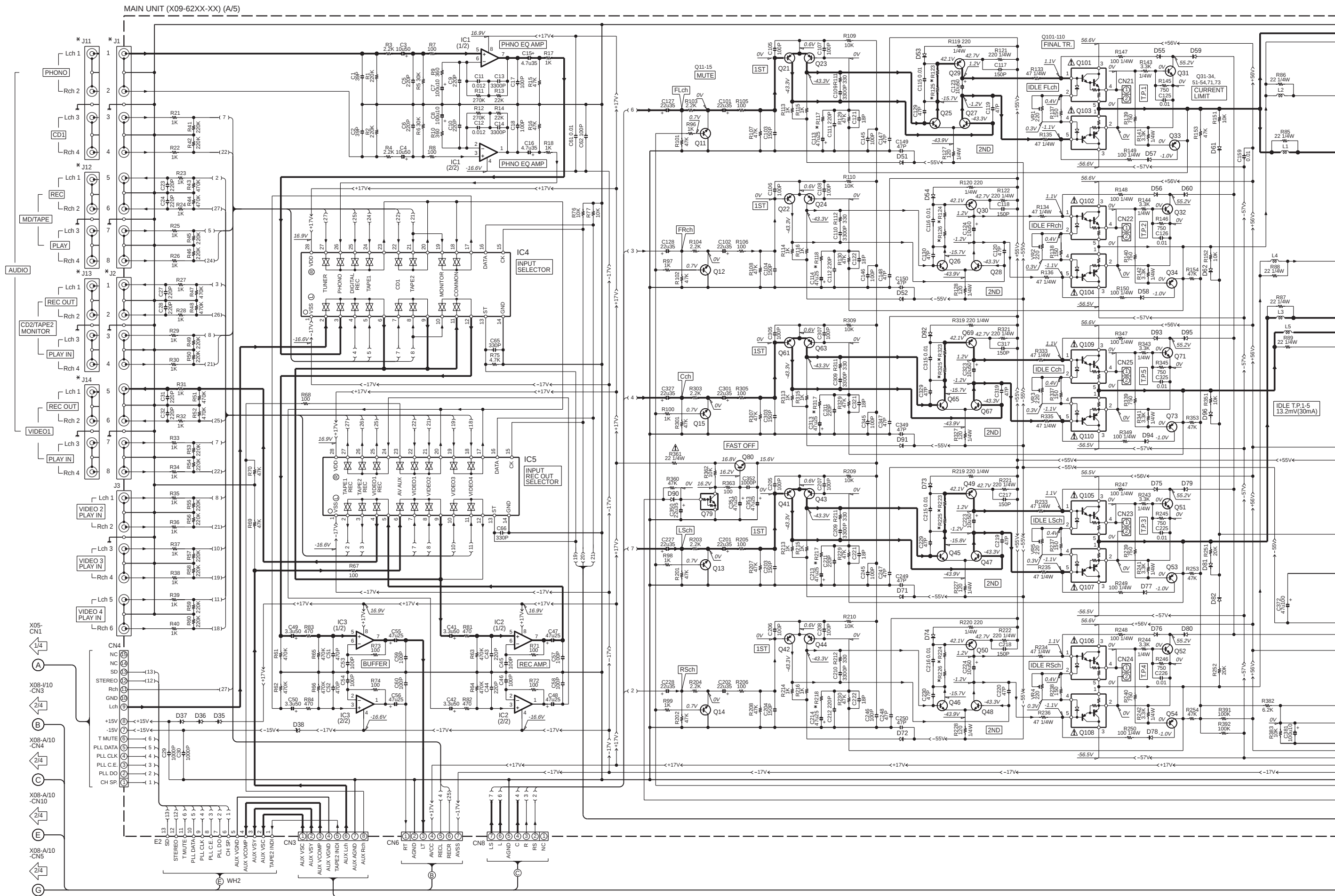
KRF-V7772D/VR-3080

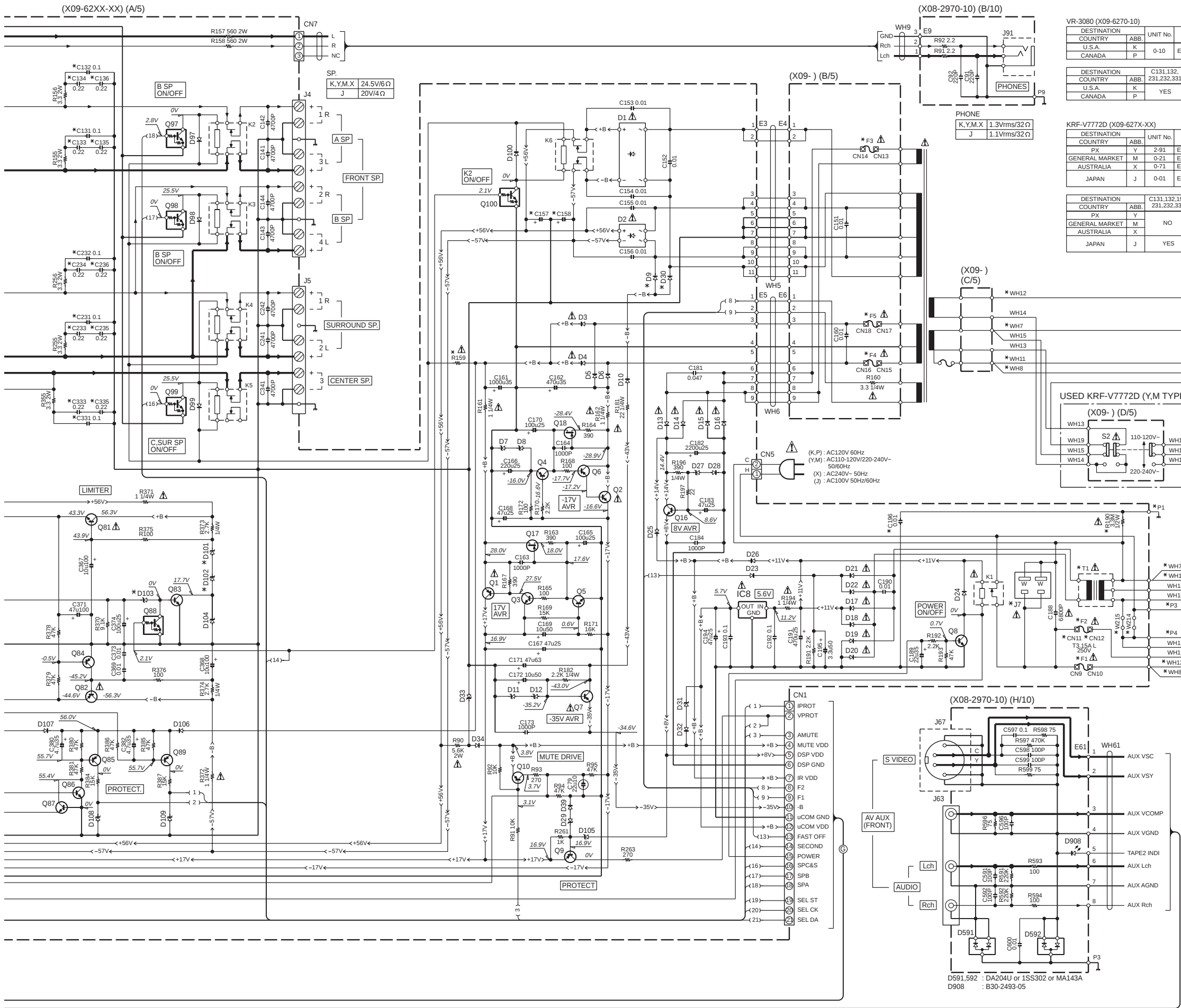
KENWOOD

5V AVR







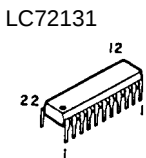
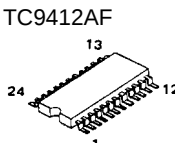
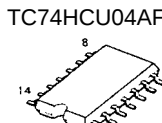
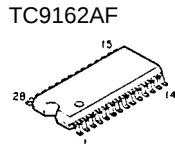
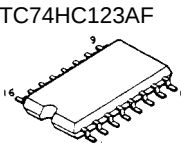
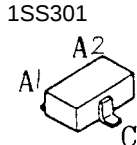
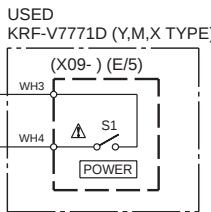
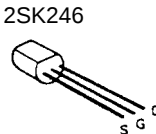
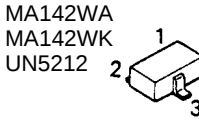
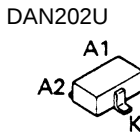


DESTINATION	UNIT No.	J7	P1	P3	W214	WH11	WH7	CN11	F1	F2	F3	T1	J1.2	J11-13
COUNTRY	ABB.													
U.S.A.	K	0-10	E03-0148-05	YES	NO	YES	NO	YES	NO	8A 125V	NO	L07-2320-05	YES	NO
CANADA	P										3.15A 125V			

DESTINATION		C131,132, 231,232,331	C133-136,196, 233-236,333,335	C157, 158	R117,118, 217,218,317	R123-126, 223-226,323,325	R159	R190	D9	D30	D101, 102	D103
COUNTRY	ABB.											
U.S.A.	K	YES	NO	8200u71	2K	10K	27 1/4W	YES	YES	NO	RD13ES(B2) or MTZJ13(B)	RD8.2ES(B2) or MTZJ8.2(B)
CANADA	P											

DESTINATION	UNIT No.	J7	P1	P3	W214	W215	WH7	WH11	CN11	F1	F2	F3	F4,5	T1	J1.2	J11-13
COUNTRY	ABB.															
GENERAL MARKET	Y	2-91	E03-0148-05	NO	YES	NO	NO	YES	YES	T3.15A L 250V	YES	T2.5A L 250V	T1.6A L 250V	L07-2321-05	YES	NO
AUSTRALIA	X	0-71	E03-0325-05					NO	NO	8A 125V	NO	3.15A 125V	3.15A 125V	L07-2322-05	NO	YES
JAPAN	J	0-01	E03-0148-05	YES		YES	YES	NO	NO					L07-2323-05	NO	YES

DESTINATION	C131,132,196, 231,232,331	C133-136, 233-236,333,335	C157, 158	R117,118, 217,218,317	R123-126, 223-226,323,325	R159	R190	D9	D30	D101, 102	D103
COUNTRY	ABB.										
PX	Y	NO	YES	8200u71	2K	10K	68 1/4W	YES	NO	RD13ES(B2) or MTZJ13(B)	RD8.2ES(B2) or MTZJ8.2(B)
GENERAL MARKET	M										
AUSTRALIA	X						27 1/4W	NO	YES	RD10ES(B2) or MTZJ10(B)	RD6.8ES(B2) or MTZJ6.8(B)
JAPAN	J	YES	NO	12000u63	2.4K	8.2K		NO	YES		



- IC1
IC2,3
IC4
IC5
IC8

: NJM4580L-D
 : NJM4565D-D
 : NJU7313AL
 : NJU7312AL
 : TA78057S
- Q1.2
Q3,5,80

: 2SB1370(E,F)
 : 2SC2458(Y,G,R) or
 : 2SC3311A(Q,R)
 : 2SA992(F,E)
 : 2SA1048(Y,G,R) or
 : 2SA1309A(Q,R)
 : 2SA1534A(R,S)
 : 2SC2003(L,K)
 : 2SC2873(B)
 : 2SD2061(E,F)
 : 2SK246(Y,G,R)
 : 2SC2631(R,S)
 : 2SA1123(R,S)
 : 2SC1845(F,E)
 : UN4212 or DTC124ESA
 : 2SC3944A
 : 2SA1535A
 : UN4219 or DTC113ZSA
 : Q101,102,105,106,109
 : Q103,104,107,108,110
 : TRAITSP * 5
- Q7
Q8
Q11-15
Q16
Q17,18
Q25-28,45-48,65,67
Q29,30,49,50,69
Q31,32,51,52,71,83,86,87
Q79
Q81
Q82
Q98,97-100
Q101,102,105,106,109
Q103,104,107,108,110

: RBV-602LFA or D5SBA20F03
 : S5688B or 1SR139-400
 : D7,8,27
 : D11,12,29,104
 : D21-24,28,32,34,39,51-54,57-62,71-74,
 : 77-82,90-92,94-100,106,107
 : D31,38
 : D33,108,109
 : D55,56,75,76,93
 : D101-103
 : D105
- IC1
IC2,3
IC4
IC5
IC8

: NJM4580L-D
 : NJM4565D-D
 : NJU7313AL
 : NJU7312AL
 : TA78057S
- Q1.2
Q3,5,80

: 2SB1370(E,F)
 : 2SC2458(Y,G,R) or
 : 2SC3311A(Q,R)
 : 2SA992(F,E)
 : 2SA1048(Y,G,R) or
 : 2SA1309A(Q,R)
 : 2SA1534A(R,S)
 : 2SC2003(L,K)
 : 2SC2873(B)
 : 2SD2061(E,F)
 : 2SK246(Y,G,R)
 : 2SC2631(R,S)
 : 2SA1123(R,S)
 : 2SC1845(F,E)
 : UN4212 or DTC124ESA
 : 2SC3944A
 : 2SA1535A
 : UN4219 or DTC113ZSA
 : Q101,102,105,106,109
 : Q103,104,107,108,110
 : TRAITSP * 5
- Q7
Q8
Q11-15
Q16
Q17,18
Q25-28,45-48,65,67
Q29,30,49,50,69
Q31,32,51,52,71,83,86,87
Q79
Q81
Q82
Q98,97-100
Q101,102,105,106,109
Q103,104,107,108,110

: RBV-602LFA or D5SBA20F03
 : S5688B or 1SR139-400
 : D7,8,27
 : D11,12,29,104
 : D21-24,28,32,34,39,51-54,57-62,71-74,
 : 77-82,90-92,94-100,106,107
 : D31,38
 : D33,108,109
 : D55,56,75,76,93
 : D101-103
 : D105

KRF-V7772D/VR-3080

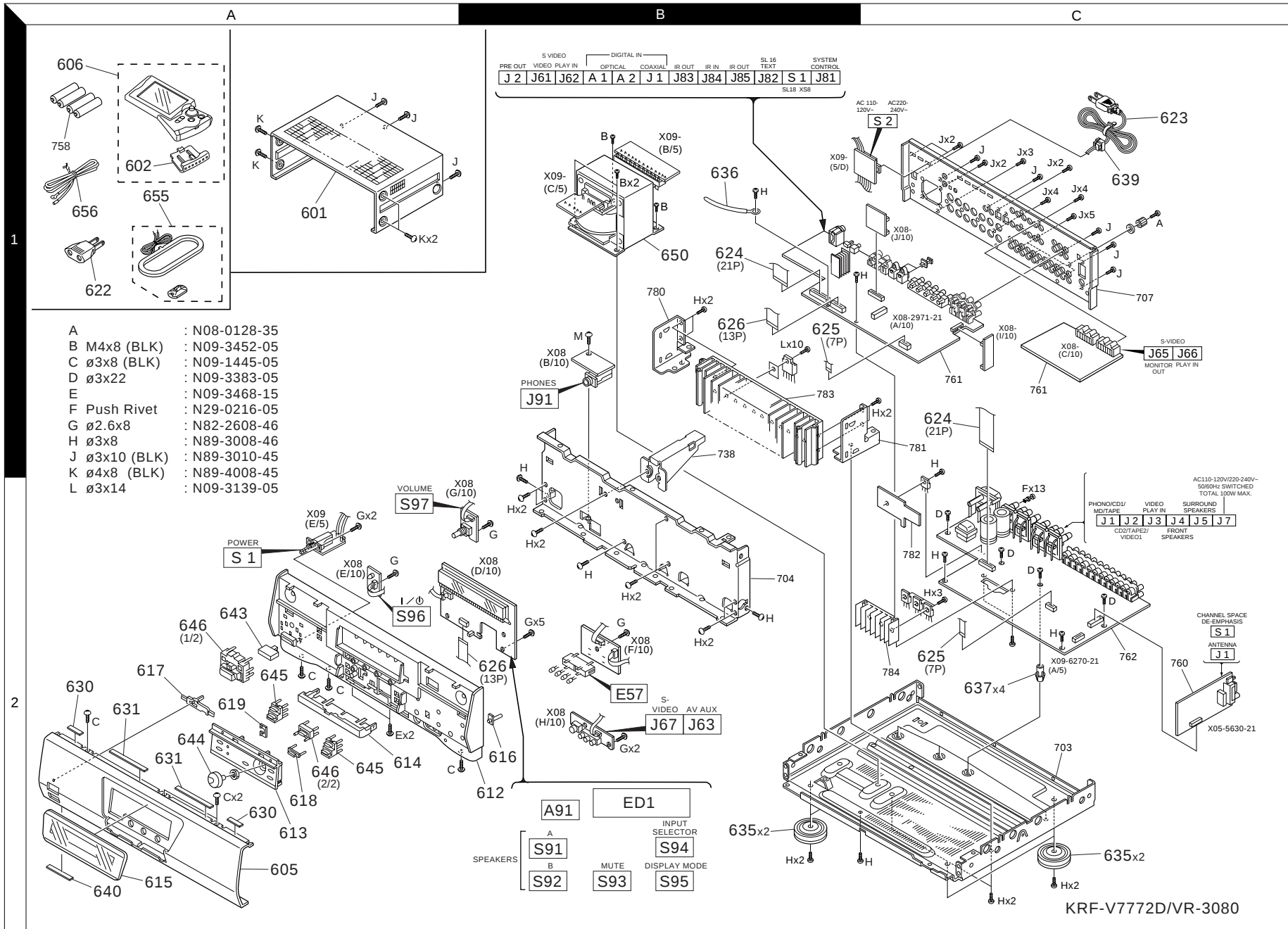
KENWOOD

KRF-V7772D/VR-3080

EXPLODED VIEW (UNIT)

36

Parts with exploded numbers larger than 700 are not supplied.



KRF-V7772D/VR-3080

* 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.

1

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
KRF-V7772D/VR-3080						
601	1A	*	A01-3690-01	METALLIC CABINET		
602	1A		A09-1115-08	BATTERY COVER		
605	2A	*	A60-1620-02	PANEL		KP
605	2A	*	A60-1621-02	PANEL		YMX
606	1A		A70-1191-05	REMOTE CONTROL ASSY(RC-R0907)		
612	2B		B01-0533-21	PANEL ESCUTCHEON		
613	2A		B07-2396-22	ESCUTCHEON		
614	2A		B10-2418-03	FRONT GLASS		
615	2A		B10-2451-03	FRONT GLASS		
616	2B		B12-0303-24	INDICATOR		
617	2A		B12-0326-04	INDICATOR		
618	2A		B12-0331-04	INDICATOR		
619	2A		B12-0333-04	INDICATOR		
-			B46-0096-53	WARRANTY CARD		X
-			B46-0330-03	WARRANTY CARD		KY
-			B46-0346-00	QUESTIONNAIRE CARD		K
-			B46-0347-03	WARRANTY CARD		P
-			B59-1104-00	SERVICE DIRECTORY		Y
-			B59-1420-00	SUB-INSTRUCTION MANUAL		KPY
-			B59-1421-00	SUB-INSTRUCTION MANUAL		MX
-		*	B60-4170-00	INSTRUCTION MANUAL(EN)		
-		*	B60-4171-00	INSTRUCTION MANUAL(EN)		
-		*	B60-4172-00	INSTRUCTION MANUAL(FR)		P
-		*	B60-4173-00	INSTRUCTION MANUAL(FR)		P
-		*	B60-4174-00	INSTRUCTION MANUAL(ES)		M
-		*	B60-4300-00	INSTRUCTION MANUAL(ES)		M
-		*	B60-4301-00	INSTRUCTION MANUAL(TC)		M
-		*	B60-4302-00	INSTRUCTION MANUAL(TC)		M
Δ 622	1A		E03-0115-05	AC PLUG ADAPTER		M
Δ 623	1C		E30-2788-05	AC POWER CORD		M
Δ 623	1C		E30-2789-05	AC POWER CORD		Y
Δ 623	1C		E30-2790-05	AC POWER CORD		X
Δ 623	1C		E30-2883-05	AC POWER CORD		KP
624	1B,1C	*	E35-2332-05	FLAT CABLE 21P		
625	1B,2C	*	E35-2334-05	FLAT CABLE 7P		
626	1B,2B	*	E35-2384-05	FLAT CABLE 13P		
630	2A		G11-0155-14	SOFT TAPE (40X9X2)		
631	2A		G11-0185-04	SOFT TAPE (120X5X2)		
-		*	H10-7416-12	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7417-32	POLYSTYRENE FOAMED FIXTURE		
-		*	H11-0097-04	POLYSTYRENE FOAMED BOARD		
-		*	H13-0315-04	CARTON BOARD		
-			H25-0632-24	PROTECTION BAG		
-			H25-0661-04	PROTECTION BAG		
-		*	H50-3261-14	ITEM CARTON CASE		KP
-		*	H50-3262-04	ITEM CARTON CASE		YX
-		*	H50-3263-04	ITEM CARTON CASE		M
635	2B,2C		J02-1405-03	FOOT (D=46,H=14.5,T)		
636	1B		J19-2808-05	HOLDER		
637	2C		J19-3731-04	UNIT HOLDER		
639	1C		J42-0083-05	POWER CORD BUSHING		
640	2A		J30-0480-04	SPACER		

L : Scandinavia

K : USA

P : Canada

R : Mexico

C : China

I : Malaysia

Y : PX(Far East, Hawaii)

T : Europe

E : Europe

G : Germany

V : China (Shanghai)

Y : AAFES(Europe)

X : Australia

Q : Russia

H : Korea

M : Other Areas

Δ indicates safety critical components.

* 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.

2

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-			J61-0098-05	WIRE BAND		
643	2A		K27-2248-04	KNOB (BUTTON)		YMX
644	2A		K29-6852-04	KNOB		
645	2A		K29-6855-03	KNOB		
646	2A		K29-6858-12	KNOB		
Δ 650	1B	*	L07-2710-05	POWER TRANSFORMER		KP
Δ 650	1B	*	L07-2712-05	POWER TRANSFORMER		YM
Δ 650	1B	*	L07-2713-05	POWER TRANSFORMER		X
655	1A		T90-0833-05	LOOP ANTENNA		
656	1A	*	T90-0841-05	LEAD WIRE ANTENNA		
TUNER (X05-5030-10)						
C1			CK73FB1H332K	CHIP C	3300PF	K
C3			CK73FB1H103K	CHIP C	0.010UF	K
C5 ,6			CK73FB1H103K	CHIP C	0.010UF	K
C7			CE04LW1C470M	ELECTRO	47UF	16WV
C10			CE04LW1C470M	ELECTRO	47UF	16WV
C11 ,12			CK73FB1H473K	CHIP C	0.047UF	K
C14			CE04LW1H100M	ELECTRO	10UF	50WV
C15			CE04LW1H010M	ELECTRO	1.0UF	50WV
C16			C90-3251-05	ELECTRO	0.47UF	50WV
C17			CE04LW1H010M	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			CE04LW1H100M	ELECTRO	10UF	50WV
C24			CC73FCH1H331J	CHIP C	330PF	J
C25			CC73FCH1H181J	CHIP C	180PF	J
C25			CC73FCH1H331J	CHIP C	330PF	J
C26			CK73FB1H183K	CHIP C	0.018UF	K
C27			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV
C28 ,29			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K
C32			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C33 ,34			CK73FB1H103K	CHIP C	0.010UF	K
C36			CK73FB1H103K	CHIP C	0.010UF	K
C37 ,38			CE04LW1H100M	ELECTRO	10UF	50WV
C41			CC73FCH1H470J	CHIP C	47PF	J
C42			CC73FCH1H270J	CHIP C	27PF	J
C43			CC73FCH1H220J	CHIP C	22PF	J
C44			CC73FCH1H471J	CHIP C	470PF	J
C45			CC73FCH1H220J	CHIP C	22PF	J
C46			CE04LW1H100M	ELECTRO	10UF	50WV
C47			CK73FB1H102K	CHIP C	1000PF	K
C48			CE04LW1C470M	ELECTRO	47UF	16WV
C49			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C50			CC73FCH1H101J	CHIP C	100PF	J
C51			CC73FCH1H471J	CHIP C	470PF	J
C52			CC73FCH1H101J	CHIP C	100PF	J
C72			CE04LW1H010M	ELECTRO	1.0UF	50WV
C73			CE04LW1C470M	ELECTRO	47UF	16WV

L : Scandinavia

K : USA

P : Canada

R : Mexico

C : China

I : Malaysia

Y : PX(Far East, Hawaii)

T : Europe

E : Europe

G : Germany

V : China (Shanghai)

Y : AAFES(Europe)

X : Australia

Q : Russia

H : Korea

M : Other Areas

Δ indicates safety critical components.

PARTS LIST

KRF-V7772D/VR-3080

* 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.

3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C74			CK73FB1H102K	CHIP C 1000PF K		
C75			CC73FCH1H040C	CHIP C 4.0PF C		
C76			CC73FCH1H470J	CHIP C 47PF J		
C77			CC73FCH1H101J	CHIP C 100PF J		YM
C78			CK73FB1H223K	CHIP C 0.022UF K		
C79 ,80			CK73FB1H102K	CHIP C 1000PF K		KP
C79 ,80			CK73FB1H122K	CHIP C 1200PF K		X
C79 ,80			CK73FB1H152K	CHIP C 1500PF K		YM
C81			CK73FF1C105Z	CHIP C 1.0UF Z		
C82			CK73FB1H103K	CHIP C 0.010UF K		
C84 ,85			CK73FB1H332K	CHIP C 3300PF K		
C88			CK73FB1H332K	CHIP C 3300PF K		
C91			CK73FF1C105Z	CHIP C 1.0UF Z		
C92 ,93			CK73FB1H102K	CHIP C 1000PF K		
CN1			E40-9831-05	SOCKET FOR PIN ASSY		
CN2			E40-4871-05	PIN ASSY		
J1	2C		E70-0052-05	LOCK TERMINAL BOARD,ANT		
CF1 ,2			L72-0531-05	CERAMIC FILTER		YMX
CF1 ,2			L72-0596-05	CERAMIC FILTER		KP
L1			L39-1366-05	COMBINATION COIL		
L2			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L3			L30-0911-05	AM IFT		
L4			L30-0950-05	FM IFT		
L5			L30-0951-05	FM IFT		
X1			L77-2159-05	CRYSTAL RESONATOR(7.2MHZ)		
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			RK73FB2A101J	CHIP R 100 J 1/10W		
R15			RK73FB2A333J	CHIP R 33K 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			RK73FB2A472J	CHIP R 4.7K J 1/10W		
KPYM						
R23			RK73FB2A682J	CHIP R 6.8K J 1/10W		X
R25			RK73FB2A183J	CHIP R 18K J 1/10W		
R27 ,28			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R29			RK73FB2A102J	CHIP R 1.0K J 1/10W		YM
R30			RK73FB2A561J	CHIP R 560 J 1/10W		YM
R31			RK73FB2A473J	CHIP R 47K J 1/10W		YM
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			RK73EB2B332J	CHIP R 3.3K J 1/8W		

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R46			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R47			RK73EB2B332J	CHIP R 3.3K 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			RK73FB2A333J	CHIP R 33K J 1/10W		
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		
R79			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R81			RS14KB3A151J	FL-PROOF RS 150 J 1W		
R82			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R83			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R84			RK73EB2B332J	CHIP R 3.3K J 1/8W		
R85 -87			RK73FB2A333J	CHIP R 33K J 1/10W		
R88			RK73FB2A563J	CHIP R 56K J 1/10W		
R89			RK73FB2A333J	CHIP R 33K J 1/10W		
R90			RK73FB2A681J	CHIP R 680 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		YM
W59 ,60			R92-0670-05	CHIP R 0 OHM		
W62			R92-0670-05	CHIP R 0 OHM		
W80			R92-0679-05	CHIP R 0 OHM		
W82 -85			R92-0679-05	CHIP R 0 OHM		
S1	2C		S62-0034-05	SLIDE SWITCH		YM
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		
D9			MTZJ3.3(B)	ZENER DIODE		
D9			RD3.3ES(B2)	ZENER DIODE		
D13			MA111	DIODE		
IC1			LA1837	ANALOGUE IC		
IC2			LC72131	MOS-IC		
Q1			2SC4116(Y,GR)	TRANSISTOR		
Q1			2SC4177(L5,L6)	TRANSISTOR		
Q2			2SA1586(Y,GR)	TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q2 Q3 ,4 Q3 ,4 Q10 ,11 Q12			2SA1611(M5,M6) 2SC4116(Y,GR) 2SC4177(L5,L6) 2SD1757K 2SA1586(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		YM YM
Q12 Q14 Q14			2SA1611(M5,M6) 2SA1586(Y,GR) 2SA1611(M5,M6)	TRANSISTOR TRANSISTOR TRANSISTOR		
A1			W02-2622-05	FM FRONT-END ASSY		
SURROUND (X08-2970-10)						
D571-574 D901-903 D904,905 D906 D907,908			B30-2532-05 B30-2493-05 B30-2430-05 B30-1010-05 B30-2493-05	LED(INFRARED) LED(RED) LED(RED) LED(SLP-281F-50U) LED(RED)		
C1 ,2 C3 -8 C9 C10 C17 ,18			CE04KW1H100M CC73FSL1H101J CK73FB1H103K CC73FSL1H101J CE04KW1H100M	ELECTRO 10UF 50WV CHIP C 100PF J CHIP C 0.010UF K CHIP C 100PF J ELECTRO 10UF 50WV		
C19 ,20 C31 C32 C33 C34			CK73FB1H222K CK73FB1C224K CK73FB1H223KTA CE04KW1H010M CK73FB1H103K	CHIP C 2200PF K CHIP C 0.22UF K CHIP C 0.022UF K ELECTRO 1.0UF 50WV CHIP C 0.010UF K		
C35 C36 ,37 C38 ,39 C40 C43 ,44			CC73FSL1H330J CK73FB1H102K CK73FB1E104K CE04KW1H100M CK73FB1E104K	CHIP C 33PF J CHIP C 1000PF K CHIP C 0.10UF K ELECTRO 10UF 50WV CHIP C 0.10UF K		
C45 C51 C53 C55 C56 ,57			CE04KW1H100M CE04KW1A470M CE04KW1A470M CK73FB1E104K CK73FB1H472K	ELECTRO 10UF 50WV ELECTRO 47UF 10WV ELECTRO 47UF 10WV CHIP C 0.10UF K CHIP C 4700PF K		
C58 C59 C60 C61 C62			CC73FSL1H220J CK73FB1H472K CC73FSL1H100D CK73FB1H472K CC73FSL1H220J	CHIP C 22PF J CHIP C 4700PF K CHIP C 10PF D CHIP C 4700PF K CHIP C 22PF J		
C63 C64 C65 C66 -69 C71 ,72			CK73FB1H472K CC73FSL1H100D CK73FB1H472K CC73FSL1H390J CK73FB1E104K	CHIP C 4700PF K CHIP C 10PF D CHIP C 4700PF K CHIP C 39PF J CHIP C 0.10UF K		
C91 ,92 C101,102 C103,104 C105,106 C107,108			CC73FSL1H221J CK73FB1H272K CE04KW1H2R2M CK73FB1H182K CK73FB1H332K	CHIP C 220PF J CHIP C 2700PF K ELECTRO 2.2UF 50WV CHIP C 1800PF K CHIP C 3300PF K		
C109,110 C111 C112 C121,122			CK73FB1H223KTA CK73FB1H103K CC73FSL1H101J CK73FB1E563K	CHIP C 0.022UF K CHIP C 0.010UF K CHIP C 100PF J CHIP C 0.056UF K		

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C123,124 C141 C142 C145 C146,147			CK73FB1E473KTA CK73FB1H103K CC73FSL1H101J CK73FB1H103K CC73FSL1H101J	CHIP C 0.047UF K CHIP C 0.010UF K CHIP C 100PF J CHIP C 0.010UF K CHIP C 100PF J		
C148 C149,150 C151,152 C153,154 C155-158			CK73FB1H103K CC73FSL1H390J CE04KW1H100M CK73FB1H561K CK73FB1E104K	CHIP C 0.010UF K CHIP C 39PF J ELECTRO 10UF 50WV CHIP C 560PF K CHIP C 0.10UF K		
C159 C161,162 C163,164 C165-170 C171,172			CC73FSL1H101J CE04KW1H2R2M CC73FSL1H820J CC73FSL1H101J CE04KW1V220M	CHIP C 100PF J ELECTRO 2.2UF 50WV CHIP C 82PF J CHIP C 100PF J ELECTRO 22UF 35WV		
C175,176 C177 C178 C191,192 C201,202			CE04KW1H220M CK73FB1H103K CC73FSL1H151J CC73FSL1H101J CK73FB1H472K	ELECTRO 22UF 50WV CHIP C 0.010UF K CHIP C 150PF J CHIP C 100PF J CHIP C 4700PF K		
C203,204 C205,206 C207,208 C209,210 C211			CE04KW1E470M CK73FB1H822K CC73FSL1H121J CK73FB1E273KTA CK73FB1H103K	ELECTRO 47UF 25WV CHIP C 8200PF K CHIP C 120PF J CHIP C 0.027UF K CHIP C 0.010UF K		
C212 C251,252 C253,254 C255-258 C261,262			CC73FSL1H101J CE04KW1H100M CK73FB1H561K CK73FB1E104K CE04KW1H2R2M	CHIP C 100PF J ELECTRO 10UF 50WV CHIP C 560PF K CHIP C 0.10UF K ELECTRO 2.2UF 50WV		
C263,264 C265-270 C271,272 C275,276 C277			CC73FSL1H820J CC73FSL1H101J CE04KW1V220M CE04KW1H220M CK73FB1H103K	CHIP C 82PF J CHIP C 100PF J ELECTRO 22UF 35WV ELECTRO 22UF 50WV CHIP C 0.010UF K		
C278 C291,292 C301 C302 C303,304			CC73FSL1H151J CC73FSL1H101J CK73FB1H222K CK73FB1H682K CE04KW1H2R2M	CHIP C 150PF J CHIP C 100PF J CHIP C 2200PF K CHIP C 6800PF K ELECTRO 2.2UF 50WV		
C305 C306 C307 C308 C309,310			CK73FB1H182K CK73FB1H123K CK73FB1H332K CK73FB1H682K CK73FB1E333KTA	CHIP C 1800PF K CHIP C 0.012UF K CHIP C 3300PF K CHIP C 6800PF K CHIP C 0.033UF K		
C311-314 C316 C317 C318 C319			CC73FSL1H101J CC73FSL1H220J CK73FB1H103K CC73FSL1H101J CK73FB1H103K	CHIP C 100PF J CHIP C 22PF J CHIP C 0.010UF K CHIP C 100PF J CHIP C 0.010UF K		
C320 C341-343 C351,352 C353,354 C355-358			CC73FSL1H101J CC73FSL1H101J CE04KW1H100M CK73FB1H561K CK73FB1E104K	CHIP C 100PF J CHIP C 100PF J ELECTRO 10UF 50WV CHIP C 560PF K CHIP C 0.10UF K		

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C361,362 C363,364 C365-370 C371,372 C375,376			CE04KW1H2R2M CC73FSL1H820J CC73FSL1H101J CE04KW1V220M CE04KW1H220M	ELECTRO 2.2UF 50WV CHIP C 82PF J CHIP C 100PF J ELECTRO 22UF 35WV ELECTRO 22UF 50WV		
C377 C378 C391,392 C401,402 C403,404			CK73FB1H103K CC73FSL1H151J CC73FSL1H101J CE04KW1H010M CK73FB1H561K	CHIP C 0.010UF K CHIP C 150PF J CHIP C 100PF J ELECTRO 1.0UF 50WV CHIP C 560PF K		
C405,406 C407,408 C409,410 C411,412 C413,414			CE04KW1H010M CC73FSL1H270J CK73FB1H183KTA CK73FB1H562K CE04KW1H100M	ELECTRO 1.0UF 50WV CHIP C 27PF J CHIP C 0.018UF K CHIP C 5600PF K ELECTRO 10UF 50WV		
C415,416 C417,418 C419,420 C421 C422,423			CK73FB1H153KTA CK73FB1E683KTA CK73FB1H821K CK73FB1H103K CC73FSL1H101J	CHIP C 0.015UF K CHIP C 0.068UF K CHIP C 820PF K CHIP C 0.010UF K CHIP C 100PF J		
C451-456 C457 C458,459 C501,502 C510			CE04KW1H100M CE04KW1A101M CE04KW1H100M CK73FB1E104K CK73FB1E104K	ELECTRO 10UF 50WV ELECTRO 100UF 10WV ELECTRO 10UF 50WV CHIP C 0.10UF K CHIP C 0.10UF K		
C513 C514,515 C516 C517 C518,519			CE04KW1H100M CK73FB1E104K CE04KW1H100M CK73FB1H103K CC73FCH1H390J	ELECTRO 10UF 50WV CHIP C 0.10UF K ELECTRO 10UF 50WV CHIP C 0.010UF K CHIP C 39PF J		
C520 C521 C522,523 C524 C525			CK73FB1H102K CK73FB1E104K CC73FSL1H470J CC73FSL1H560J CC73FSL1H470J	CHIP C 1000PF K CHIP C 0.10UF K CHIP C 47PF J CHIP C 56PF J CHIP C 47PF J		
C526 C527,528 C531 C532,533 C571,572			CC73FCH1H471J CC73FSL1H220J CK73FB1H103K CC73FSL1H101J C90-3239-05	CHIP C 470PF J CHIP C 22PF J CHIP C 0.010UF K CHIP C 100PF J ELECTRO 100UF 25WV		
C573 C591,592 C596 C597 C598,599			CK73FB1H102K CC73FSL1H101J CC73FSL1H101J CK73FB1E104K CC73FSL1H101J	CHIP C 1000PF K CHIP C 100PF J CHIP C 100PF J CHIP C 0.10UF K CHIP C 100PF J		
C600 C601 C602 C603 C604			CK73FB1H103K CC73FSL1H101J CE04KW1V220M CC73FSL1H101J CE04KW1V220M	CHIP C 0.010UF K CHIP C 100PF J ELECTRO 22UF 35WV CHIP C 100PF J ELECTRO 22UF 35WV		
C605 C606 C607 C608,609 C611			CC73FSL1H101J CE04KW1V220M CC73FSL1H101J CE04KW1V220M CE04KW1E470M	CHIP C 100PF J ELECTRO 22UF 35WV CHIP C 100PF J ELECTRO 22UF 35WV ELECTRO 47UF 25WV		

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C612 C613 C621 C622 C623			CE04DW0J102M CC73FSL1H101J CE04KW1E470M CE04DW0J102M CC73FSL1H101J	ELECTRO 1000UF 6.3WV CHIP C 100PF J ELECTRO 47UF 25WV ELECTRO 1000UF 6.3WV CHIP C 100PF J		
C624 C631 C633,634 C635 C636			CE04KW1H100M CE04KW1H100M CK73FB1E104K CE04KW1H100M CC73FSL1H101J	ELECTRO 10UF 50WV ELECTRO 10UF 50WV CHIP C 0.10UF K ELECTRO 10UF 50WV CHIP C 100PF J		
C641 C642 C643,644 C645 C646,647			CC73FSL1H101J CK73FB1E104K CC73FSL1H101J CK73FB1E104K CC73FSL1H101J	CHIP C 100PF J CHIP C 0.10UF K CHIP C 100PF J CHIP C 0.10UF K CHIP C 100PF J		
C648 C649,650 C651 C652 C653			CK73FB1E104K CC73FSL1H101J CK73FB1E104K CC73FSL1H101J CK73FB1H103K	CHIP C 0.10UF K CHIP C 100PF J CHIP C 0.10UF K CHIP C 100PF J CHIP C 0.010UF K		
C654 C655 C656 C657 C658			CK73FB1E104K CC73FSL1H101J CK73FB1H103K CK73FB1E104K CC73FSL1H101J	CHIP C 0.10UF K CHIP C 100PF J CHIP C 0.010UF K CHIP C 0.10UF K CHIP C 100PF J		
C659 C661 C662 C663 C664			CE04KW1H100M CE04KW1E470M CE04DW0J102M CC73FSL1H101J CE04KW1E470M	ELECTRO 10UF 50WV ELECTRO 47UF 25WV ELECTRO 1000UF 6.3WV CHIP C 100PF J ELECTRO 47UF 25WV		
C665 C666 C671-675 C676 C678-682			CE04DW0J102M CC73FSL1H101J CK73FB1H103K CE04KW1H100M CE04KW1V220M	ELECTRO 1000UF 6.3WV CHIP C 100PF J CHIP C 0.010UF K ELECTRO 10UF 50WV ELECTRO 22UF 35WV		
C683 C685,686 C703 C704 C705,706			CE04KW1H100M CC73FSL1H101J CK73FF1C105Z CC73FSL1H101J CK73FB1H103K	ELECTRO 10UF 50WV CHIP C 100PF J CHIP C 1.0UF Z CHIP C 100PF J CHIP C 0.010UF K		
C708 C709,710 C711 C712 C713,714			CK73FB1E104K CC73FSL1H101J CK73FB1H472K CK73FB1H103K CC73FSL1H101J	CHIP C 0.10UF K CHIP C 100PF J CHIP C 4700PF K CHIP C 0.010UF K CHIP C 100PF J		
C801 C802 C803 C804 C851,852			CK73FB1H103K CE04KW1H010M C90-1826-05 CE04KW1A101M CC73FSL1H221J	CHIP C 0.010UF K ELECTRO 1.0UF 50WV BACKUP-C 0.047F 5.5WV ELECTRO 100UF 10WV CHIP C 220PF J		
C853 C854,855 C856 C857 C858			CK73FB1E104K CC73FSL1H221J CK73FB1E823K CK73FB1H102K CC73FSL1H331J	CHIP C 0.10UF K CHIP C 220PF J CHIP C 0.082UF K CHIP C 1000PF K CHIP C 330PF J		KPY KPY KPY

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C861-864			CC73FSL1H101J	CHIP C 100PF J		KPY
C865			CK73FB1H103K	CHIP C 0.010UF K		KPY
C866			CK73FB1E104K	CHIP C 0.10UF K		
C900			C90-3260-05	ELECTRO 33UF 50WV		
C901-904			CC73FSL1H101J	CHIP C 100PF J		
C905			CK73FB1H103K	CHIP C 0.010UF K		
C906			C92-0041-05	CHIP-ELE 10UF 10WV		
C908			CK73FF1C105Z	CHIP C 1.0UF Z		
C911			CK73FB1H471K	CHIP C 470PF K		
C915			C92-0041-05	CHIP-ELE 10UF 10WV		
C921-936			CC73FSL1H221J	CHIP C 220PF J		
CN1		*	E40-9823-05	SOCKET FOR PIN ASSY		
CN2		*	E40-9840-05	PIN ASSY		
CN3		*	E40-9823-05	SOCKET FOR PIN ASSY		
CN4		*	E40-8373-05	FLAT CABLE CONNECTOR		
CN5		*	E40-8405-05	FLAT CABLE CONNECTOR		
CN10			E40-4607-05	PIN ASSY		
CN61			E40-9849-05	PIN ASSY		
CN62			E40-9832-05	SOCKET FOR PIN ASSY		
CN63			E40-9849-05	PIN ASSY		
CN64			E40-9832-05	SOCKET FOR PIN ASSY		
CN91			E40-8251-05	FLAT CABLE CONNECTOR		
CN92			E40-8250-05	FLAT CABLE CONNECTOR		
CN93			E40-4295-05	FLAT CABLE CONNECTOR		
J1	1B		E63-1028-05	PHONO JACK		
J2	1B	*	E63-1084-05	PHONO JACK		
J61 ,62	1B		E63-0162-05	PHONO JACK		
J63	2B		E63-1030-05	PHONO JACK		
J65 ,66	1C		E56-0011-05	CYLINDRICAL RECEPTACLE		
J67	2B		E56-0012-05	CYLINDRICAL RECEPTACLE		
J81	1B		E11-0293-05	MINIATURE PHONE JACK(2P)		
J82	1B		E11-0360-05	MINIATURE PHONE JACK(BLK,2.5)		
J83 ,84	1B	*	E11-0389-05	MINIATURE PHONE JACK(3.5)		KPY
J85	1B		E11-0291-05	MINIATURE PHONE JACK		KPY
J91	1B		E11-0271-05	PHONE JACK (METAL SLEEVE)		
E1			J11-0808-05	WIRE CLAMPER		
E57	2B		J19-5876-14	LED HOLDER		
E96			J19-5789-04	HOLDER		
L1			L92-0079-05	CHIP FERRITE		
L51 ,52			L92-0079-05	CHIP FERRITE		
L53			L40-1001-31	SMALL FIXED INDUCTOR(10UH,K)		
L54			L40-1091-31	SMALL FIXED INDUCTOR(1UH,K)		
L81 ,82			L40-1015-34	SMALL FIXED INDUCTOR(100UH)		KPY
L83 ,84			L92-0090-05	CHIP FERRITE		
X51			L77-2192-05	CRYSTAL RESONATOR(12.288M)		
X71			L78-0615-05	RESONATOR (12.5MHZ)		
X72			L78-0674-05	RESONATOR (3.64MHZ)		
X91			L78-0284-05	RESONATOR (5MHZ)		
R1 ,2			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R3 ,6			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R7 ,8			RK73FB2A103J	CHIP R 10K J 1/10W		
R9 ,10			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R11 ,12			RK73FB2A103J	CHIP R 10K J 1/10W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R13 ,14			RK73FB2A224J	CHIP R 220K J 1/10W		
R15 -18			RK73FB2A101J	CHIP R 100 J 1/10W		
R25 ,26			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R31			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R32			RK73FB2A473J	CHIP R 47K J 1/10W		
R33 -36			RK73FB2A221J	CHIP R 220 J 1/10W		
R37 -39			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R40 -44			RK73FB2A473J	CHIP R 47K J 1/10W		
R45 ,46			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R47 ,48			RD14NB2E3R9J	RD 3.9 J 1/4W		
R49			RD14NB2E2R2J	RD 2.2 J 1/4W		
R50 -52			RD14NB2E100J	RD 10 J 1/4W		
R53			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R54			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R55			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R56			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R57			RK73FB2A820J	CHIP R 82 J 1/10W		
R58			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R59			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R60			RK73FB2A154J	CHIP R 150K J 1/10W		
R61			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R62			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R63			RK73FB2A820J	CHIP R 82 J 1/10W		
R64			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R65			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R66			RK73FB2A154J	CHIP R 150K J 1/10W		
R67			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R68			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R69			RK73FB2A2R2J	CHIP R 2.2 J 1/10W		
R70			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R71			RK73FB2A104J	CHIP R 100K J 1/10W		
R72			RK73FB2A473J	CHIP R 47K J 1/10W		
R73			RK73FB2A221J	CHIP R 220 J 1/10W		
R74			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R75			RD14NB2E100J	RD 10 J 1/4W		
R91 ,92			RK73FB2A2R2J	CHIP R 2.2 J 1/10W		
R101,102			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R103,104			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R105,106			RK73FB2A104J	CHIP R 100K J 1/10W		
R107,108			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R109,110			RK73FB2A123J	CHIP R 12K J 1/10W		
R111,112			RK73FB2A223J	CHIP R 22K J 1/10W		
R113,114			RK73FB2A151J	CHIP R 150 J 1/10W		
R121,122			RK73FB2A113J	CHIP R 11K J 1/10W		
R123-126			RK73FB2A223J	CHIP R 22K J 1/10W		
R127,128			RK73FB2A113J	CHIP R 11K J 1/10W		
R129-132			RK73FB2A223J	CHIP R 22K J 1/10W		
R141-144			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R145			RK73FB2A104J	CHIP R 100K J 1/10W		
R151,152			RK73FB2A104J	CHIP R 100K J 1/10W		
R153,154			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R155,156			RK73FB2A224J	CHIP R 220K J 1/10W		
R157,158			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R159-161			RK73FB2A103J	CHIP R 10K J 1/10W		
R163,164			RK73FB2A124J	CHIP R 120K J 1/10W		

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R165,166			RK73FB2A104J	CHIP R	100K	J 1/10W
R167,168			RK73FB2A103J	CHIP R	10K	J 1/10W
R169,170			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R173,174			RK73FB2A103J	CHIP R	10K	J 1/10W
R175,176			RK73FB2A101J	CHIP R	100	J 1/10W
R181,182			RK73FB2A224J	CHIP R	220K	J 1/10W
R183-186			RK73FB2A471J	CHIP R	470	J 1/10W
R187-190			RK73FB2A222J	CHIP R	2.2K	J 1/10W
R201,202			RK73FB2A332J	CHIP R	3.3K	J 1/10W
R205,206			RK73FB2A392J	CHIP R	3.9K	J 1/10W
R207,208			RK73FB2A182J	CHIP R	1.8K	J 1/10W
R209,210			RK73FB2A223J	CHIP R	22K	J 1/10W
R211,212			RK73FB2A101J	CHIP R	100	J 1/10W
R251,252			RK73FB2A104J	CHIP R	100K	J 1/10W
R253,254			RK73FB2A822J	CHIP R	8.2K	J 1/10W
R255,256			RK73FB2A224J	CHIP R	220K	J 1/10W
R257,258			RK73FB2A105J	CHIP R	1.0M	J 1/10W
R263,264			RK73FB2A124J	CHIP R	120K	J 1/10W
R265,266			RK73FB2A104J	CHIP R	100K	J 1/10W
R267,268			RK73FB2A103J	CHIP R	10K	J 1/10W
R269,270			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R273,274			RK73FB2A103J	CHIP R	10K	J 1/10W
R275,276			RK73FB2A101J	CHIP R	100	J 1/10W
R281,282			RK73FB2A224J	CHIP R	220K	J 1/10W
R283-286			RK73FB2A471J	CHIP R	470	J 1/10W
R287-290			RK73FB2A222J	CHIP R	2.2K	J 1/10W
R301			RK73FB2A222J	CHIP R	2.2K	J 1/10W
R302-304			RK73FB2A472J	CHIP R	4.7K	J 1/10W
R305,306			RK73FB2A104J	CHIP R	100K	J 1/10W
R307			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R308,309			RK73FB2A103J	CHIP R	10K	J 1/10W
R310			RK73FB2A153J	CHIP R	15K	J 1/10W
R311			RK73FB2A223J	CHIP R	22K	J 1/10W
R312			RK73FB2A822J	CHIP R	8.2K	J 1/10W
R313,314			RK73FB2A221J	CHIP R	220	J 1/10W
R315			RK73FB2A101J	CHIP R	100	J 1/10W
R316			RK73FB2A103J	CHIP R	10K	J 1/10W
R318			RK73FB2A472J	CHIP R	4.7K	J 1/10W
R319,320			RK73FB2A101J	CHIP R	100	J 1/10W
R351,352			RK73FB2A104J	CHIP R	100K	J 1/10W
R353,354			RK73FB2A822J	CHIP R	8.2K	J 1/10W
R355,356			RK73FB2A224J	CHIP R	220K	J 1/10W
R357,358			RK73FB2A105J	CHIP R	1.0M	J 1/10W
R363,364			RK73FB2A124J	CHIP R	120K	J 1/10W
R365,366			RK73FB2A104J	CHIP R	100K	J 1/10W
R367,368			RK73FB2A103J	CHIP R	10K	J 1/10W
R369,370			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R373,374			RK73FB2A103J	CHIP R	10K	J 1/10W
R375			RK73FB2A101J	CHIP R	100	J 1/10W
R381,382			RK73FB2A224J	CHIP R	220K	J 1/10W
R383-386			RK73FB2A471J	CHIP R	470	J 1/10W
R387-390			RK73FB2A222J	CHIP R	2.2K	J 1/10W
R401,402			RK73FB2A822J	CHIP R	8.2K	J 1/10W
R403,404			RK73FB2A202J	CHIP R	2.0K	J 1/10W
R405,406			RK73FB2A124J	CHIP R	120K	J 1/10W

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R407,408			RK73FB2A433J	CHIP R	43K	J 1/10W
R409,410			RK73FB2A184J	CHIP R	180K	J 1/10W
R411,412			RK73FB2A394J	CHIP R	390K	J 1/10W
R413,414			RK73FB2A821J	CHIP R	820	J 1/10W
R415,416			RK73FB2A392J	CHIP R	3.9K	J 1/10W
R417,418			RK73FB2A163J	CHIP R	16K	J 1/10W
R419,420			RK73FB2A684J	CHIP R	680K	J 1/10W
R421,422			RK73FB2A392J	CHIP R	3.9K	J 1/10W
R423,424			RK73FB2A223J	CHIP R	22K	J 1/10W
R425,426			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R427			RK73FB2A103J	CHIP R	10K	J 1/10W
R452			RK73FB2A222J	CHIP R	2.2K	J 1/10W
R453			RK73FB2A103J	CHIP R	10K	J 1/10W
R454			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R455			RK73FB2A683J	CHIP R	68K	J 1/10W
R456			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R457			RK73FB2A683J	CHIP R	68K	J 1/10W
R458			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R459			RK73FB2A683J	CHIP R	68K	J 1/10W
R460,461			RK73FB2A103J	CHIP R	10K	J 1/10W
R462,463			RK73FB2A153J	CHIP R	15K	J 1/10W
R464,465			RK73FB2A683J	CHIP R	68K	J 1/10W
R466,467			RD14NB2E4R7J	RD	4.7	J 1/4W
R468,469			RK73FB2A332J	CHIP R	3.3K	J 1/10W
R501			RK73FB2A105J	CHIP R	1.0M	J 1/10W
R502-504			RK73FB2A101J	CHIP R	100	J 1/10W
R505-509			RK73FB2A473J	CHIP R	47K	J 1/10W
R510			RD14NB2E4R7J	RD	4.7	J 1/4W
R511			RD14NB2E1R0J	RD	1	J 1/4W
R513			RK73FB2A101J	CHIP R	100	J 1/10W
R515,516			RK73FB2A105J	CHIP R	1.0M	J 1/10W
R517			RK73FB2A221J	CHIP R	220	J 1/10W
R518			RK73FB2A561J	CHIP R	560	J 1/10W
R519			RK73FB2A271J	CHIP R	270	J 1/10W
R520			RD14NB2E100J	RD	10	J 1/4W
R521			RK73FB2A103J	CHIP R	10K	J 1/10W
R522			RD14NB2E100J	RD	10	J 1/4W
R523			RK73FB2A101J	CHIP R	100	J 1/10W
R524-527			RK73FB2A332J	CHIP R	3.3K	J 1/10W
R528			RK73FB2A221J	CHIP R	220	J 1/10W
R529			RK73FB2A332J	CHIP R	3.3K	J 1/10W
R530			RK73FB2A103J	CHIP R	10K	J 1/10W
R571			RK73FB2A103J	CHIP R	10K	J 1/10W
R572			RK73FB2A431J	CHIP R	430	J 1/10W
R573			R92-2062-05	CHIP R	3.9	J 1/2W
R577			RK73FB2A431J	CHIP R	430	J 1/10W
R578			R92-2062-05	CHIP R	3.9	J 1/2W
R580			RD14NB2E4R7J	RD	4.7	J 1/4W
R591,592			RK73FB2A224J	CHIP R	220K	J 1/10W
R593,594			RK73FB2A101J	CHIP R	100	J 1/10W
R596			RK73FB2A750J	CHIP R	75	J 1/10W
R597			RK73FB2A474J	CHIP R	470K	J 1/10W
R598,599			RK73FB2A750J	CHIP R	75	J 1/10W
R601-604			RK73FB2A750J	CHIP R	75	J 1/10W
R605			RK73FB2A2R2J	CHIP R	2.2	J 1/10W

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R606-610			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R611			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R612			RK73FB2A393J	CHIP R 39K J 1/10W		
R613			RK73FB2A100J	CHIP R 10 J 1/10W		
R614			RK73FB2A181J	CHIP R 180 J 1/10W		
R615,616			RK73FB2A470J	CHIP R 47 J 1/10W		
R617			RK73FB2A750J	CHIP R 75 J 1/10W		
R618			RK73FB2A104J	CHIP R 100K J 1/10W		
R619			RD14NB2E4R7J	RD 4.7 J 1/4W		
R621			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R622			RK73FB2A393J	CHIP R 39K J 1/10W		
R623			RK73FB2A100J	CHIP R 10 J 1/10W		
R626			RK73FB2A470J	CHIP R 47 J 1/10W		
R627			RK73FB2A103J	CHIP R 10K J 1/10W		
R628			RK73FB2A104J	CHIP R 100K J 1/10W		
R629			RK73FB2A750J	CHIP R 75 J 1/10W		
R630			RK73FB2A104J	CHIP R 100K J 1/10W		
R631			RD14NB2E1R0J	RD 1 J 1/4W		
R632			RK73FB2A473J	CHIP R 47K J 1/10W		
R633-637			RK73FB2A101J	CHIP R 100 J 1/10W		
R638			RD14NB2E100J	RD 10 J 1/4W		
R641			RK73FB2A474J	CHIP R 470K J 1/10W		
R642,643			RK73FB2A750J	CHIP R 75 J 1/10W		
R644			RK73FB2A474J	CHIP R 470K J 1/10W		
R645,646			RK73FB2A750J	CHIP R 75 J 1/10W		
R647			RK73FB2A474J	CHIP R 470K J 1/10W		
R648,649			RK73FB2A750J	CHIP R 75 J 1/10W		
R650			RK73FB2A474J	CHIP R 470K J 1/10W		
R651,652			RK73FB2A750J	CHIP R 75 J 1/10W		
R653			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R654			RK73FB2A393J	CHIP R 39K J 1/10W		
R655			RK73FB2A100J	CHIP R 10 J 1/10W		
R656			RK73FB2A221J	CHIP R 220 J 1/10W		
R657			RK73FB2A750J	CHIP R 75 J 1/10W		
R658			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R659			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R660			RK73FB2A393J	CHIP R 39K J 1/10W		
R661			RK73FB2A100J	CHIP R 10 J 1/10W		
R662			RK73FB2A221J	CHIP R 220 J 1/10W		
R663			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R664			RK73FB2A104J	CHIP R 100K J 1/10W		
R665			RK73FB2A750J	CHIP R 75 J 1/10W		
R666			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R669			RD14NB2E3R3J	RD 3.3 J 1/4W		
R670			RD14NB2E100J	RD 10 J 1/4W		
R671			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R672			RK73FB2A393J	CHIP R 39K J 1/10W		
R673			RK73FB2A100J	CHIP R 10 J 1/10W		
R674			RK73FB2A181J	CHIP R 180 J 1/10W		
R675,676			RK73FB2A470J	CHIP R 47 J 1/10W		
R677			RK73FB2A750J	CHIP R 75 J 1/10W		
R678			RK73FB2A104J	CHIP R 100K J 1/10W		
R679			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R680			RK73FB2A393J	CHIP R 39K J 1/10W		
R681			RK73FB2A100J	CHIP R 10 J 1/10W		

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R682			RD14NB2E100J	RD 10 J 1/4W		
R684			RK73FB2A470J	CHIP R 47 J 1/10W		
R685			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R686			RK73FB2A104J	CHIP R 100K J 1/10W		
R687			RK73FB2A750J	CHIP R 75 J 1/10W		
R688			RK73FB2A104J	CHIP R 100K J 1/10W		
R701			RK73FB2A103J	CHIP R 10K J 1/10W		
R702			RK73FB2A473J	CHIP R 47K J 1/10W		
R703			RK73FB2A103J	CHIP R 10K J 1/10W		
R704			RK73FB2A473J	CHIP R 47K J 1/10W		
R706			RK73FB2A473J	CHIP R 47K J 1/10W		
R708,709			RK73FB2A473J	CHIP R 47K J 1/10W		
R710-714			RK73FB2A333J	CHIP R 33K J 1/10W		
R715			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R716			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R717			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R718-728			RK73FB2A473J	CHIP R 47K J 1/10W		
R729,730			RK73FB2A221J	CHIP R 220 J 1/10W		
R732,733			RK73FB2A221J	CHIP R 220 J 1/10W		
R735,736			RK73FB2A221J	CHIP R 220 J 1/10W		
R737-739			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R740			RK73FB2A473J	CHIP R 47K J 1/10W		
R741,742			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R743			RK73FB2A103J	CHIP R 10K J 1/10W		
R744-747			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R748,749			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R750			RK73FB2A471J	CHIP R 470 J 1/10W		
R751,752			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R753,754			RK73FB2A103J	CHIP R 10K J 1/10W		
R755			RK73FB2A473J	CHIP R 47K J 1/10W		
R756-767			RK73FB2A101J	CHIP R 100 J 1/10W		
R768			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R769			RK73FB2A103J	CHIP R 10K J 1/10W		
R770			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R771			RK73FB2A103J	CHIP R 10K J 1/10W		
R772			RK73FB2A103J	CHIP R 10K J 1/10W		
R773			RK73FB2A101J	CHIP R 100 J 1/10W		
R774			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R775,776			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R777			RK73FB2A471J	CHIP R 470 J 1/10W		
R780-787			RK73FB2A101J	CHIP R 100 J 1/10W		
R788,789			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R790,791			RK73FB2A101J	CHIP R 100 J 1/10W		
R796,797			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R800			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R801			RK73FB2A821J	CHIP R 820 J 1/10W		
R802			RK73FB2A103J	CHIP R 10K J 1/10W		
R803			RK73FB2A104J	CHIP R 100K J 1/10W		
R804			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R805			RK73FB2A103J	CHIP R 10K J 1/10W		
R806			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R807			RK73FB2A103J	CHIP R 10K J 1/10W		
R811-813			RD14NB2E4R7J	RD 4.7 J 1/4W		
R814			RK73FB2A332J	CHIP R 3.3K J 1/10W		
			RK73FB2A471J	CHIP R 470 J 1/10W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R815			RK73FB2A473J	CHIP R 47K J 1/10W		
R816,817			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R818			RK73FB2A333J	CHIP R 33K J 1/10W		
R819			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R820			RK73FB2A333J	CHIP R 33K J 1/10W		
R851,852			RK73FB2A104J	CHIP R 100K J 1/10W		
R853,854			RK73FB2A331J	CHIP R 330 J 1/10W		
R855,856			RK73FB2A104J	CHIP R 100K J 1/10W		
R857			RK73FB2A331J	CHIP R 330 J 1/10W		
R858			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R859,860			RK73FB2A104J	CHIP R 100K J 1/10W		
R861			RK73FB2A473J	CHIP R 47K J 1/10W		KPY
R862,863			RK73FB2A102J	CHIP R 1.0K J 1/10W		KPY
R864			RK73FB2A103J	CHIP R 10K J 1/10W		KPY
R865			RD14NB2E471J	RD 470 J 1/4W		KPY
R866			RK73FB2A223J	CHIP R 22K J 1/10W		KPY
R867,868			RK73FB2A102J	CHIP R 1.0K J 1/10W		KPY
R869			RK73FB2A472J	CHIP R 4.7K J 1/10W		KPY
R870			RK73FB2A103J	CHIP R 10K J 1/10W		KPY
R871			RK73FB2A102J	CHIP R 1.0K J 1/10W		KPY
R872			RK73FB2A101J	CHIP R 100 J 1/10W		KPY
R873			RK73FB2A104J	CHIP R 100K J 1/10W		KPY
R876			RK73FB2A272J	CHIP R 2.7K J 1/10W		KPY
R877			RK73FB2A123J	CHIP R 12K J 1/10W		KPY
R878			RK73FB2A101J	CHIP R 100 J 1/10W		KPY
R879			RK73FB2A102J	CHIP R 1.0K J 1/10W		KPY
R880			RK73FB2A223J	CHIP R 22K J 1/10W		KPY
R881,882			RD14NB2E471J	RD 470 J 1/4W		KPY
R883			RK73FB2A102J	CHIP R 1.0K J 1/10W		KPY
R898-900			RD14NB2E100J	RD 10 J 1/4W		KPY
R901-906			RK73FB2A471J	CHIP R 470 J 1/10W		
R907			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R908			RK73FB2A100J	CHIP R 10 J 1/10W		
R909-916			RK73FB2A103J	CHIP R 10K J 1/10W		
R917			RK73FB2A333J	CHIP R 33K J 1/10W		
R918,919			RK73FB2A221J	CHIP R 220 J 1/10W		
R920,921			RK73FB2A101J	CHIP R 100 J 1/10W		
R922			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R923,924			RK73FB2A101J	CHIP R 100 J 1/10W		
R925			RK73FB2A471J	CHIP R 470 J 1/10W		
R926			RK73FB2A105J	CHIP R 1.0M J 1/10W		
R927-945			RK73FB2A473J	CHIP R 47K J 1/10W		
R946-980			RK73FB2A474J	CHIP R 470K J 1/10W		
R981			RD14NB2E100J	RD 10 J 1/4W		
R982-997			RK73FB2A474J	CHIP R 470K J 1/10W		
W1			R92-0670-05	CHIP R 0 OHM		
S1	1B		S31-2132-05	SLIDE SWITCH		
S91 -96	2A,2B		S70-0031-05	TACT SWITCH		
S97	2A		T99-0606-05	ROTARY ENCODER		
D1 ,2			DA204U	DIODE		
D1 ,2			MA143A	DIODE		
D1 ,2			1SS302	DIODE		
D41			DA204U	DIODE		

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D41			MA143A	DIODE		
D41			1SS302	DIODE		
D61			MA111	DIODE		
D101			DA204U	DIODE		
D101			MA143A	DIODE		
D101			1SS302	DIODE		
D452,453			U1BC44	DIODE		
D501,502			MA111	DIODE		
D591,592			DA204U	DIODE		
D591,592			MA143A	DIODE		
D591,592			1SS302	DIODE		
D611			MA111	DIODE		
D651			MA111	DIODE		
D701-707			MA111	DIODE		
D708			U1BC44	DIODE		
D801,802			U1BC44	DIODE		
D803			MA111	DIODE		
D804			U1BC44	DIODE		
D851,852			MA111	DIODE		
D853			DAN202U	DIODE		
D853			MA142WK	DIODE		
D853			1SS301	DIODE		
D854			DAP202U	DIODE		
D854			MA142WA	DIODE		
D854			1SS300	DIODE		
D855,856			MA111	DIODE		
D857			DAN202U	DIODE		
D857			MA142WK	DIODE		
D857			1SS301	DIODE		
D858			DAP202U	DIODE		
D858			MA142WA	DIODE		
D858			1SS300	DIODE		
D860,861			DA204U	DIODE		
D860,861			MA143A	DIODE		
D860,861			1SS302	DIODE		
D909			U1BC44	DIODE		
D910,911			UDZ3.3B	ZENER DIODE		
D912			UDZ5.6B	ZENER DIODE		
ED1			16-MT-62GK	INDICATOR TUBE		
IC1	2B		NJM4565MD	IC(OP AMP X2)		
IC3			CS4226KQG	MOS-IC		
IC5			TA7805SB	ANALOGUE IC		
IC6			TC74HCU04AF	IC(HEX INVERTER SMD)		
IC7			TC74HC123AF	MOS-IC		
IC11-13			NJM4565MD	IC(OP AMP X2)		
IC15			TC9162AF	MOS-IC		
IC16			TC9412AF	MOS-IC		
IC17			NJM4565MD	IC(OP AMP X2)		
IC21			NJM4565MD	IC(OP AMP X2)		
IC26			TC9412AF	MOS-IC		
IC27			NJM4565MD	IC(OP AMP X2)		
IC31,32			NJM4565MD	IC(OP AMP X2)		
IC36			TC9412AF	MOS-IC		
IC37			NJM4565MD	IC(OP AMP X2)		
IC41			NJM4565MD	IC(OP AMP X2)		

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IC42 IC51 IC52 IC52 IC54		*	TC9184AP YSS912 CY7C1009-15VC W241024AJ-15 L88M33T	MOS-IC MOS-IC MEMORY IC MEMORY IC ANALOGUE IC		
IC55,56 IC57 IC61 IC62 IC65,66		*	TC7WU04FU TC7S00F BA7626F TA78057SB BA7626F	MOS-IC IC(2CH NAND GATE) ANALOGUE IC ANALOGUE IC ANALOGUE IC		
IC71 IC72 IC81 IC91 Q1 -4		*	UPD784214GF527 UPD17215GT-737 S-80740AL-A4 UPD780204-038 2SC4213(B)	MI-COM IC MI-COM IC IC(VOLTAGE DETECTOR) MI-COM IC TRANSISTOR		
Q11 Q11 Q151-156 Q251-256 Q351-356			DTA124EUA UN5112 2SC4213(B) 2SC4213(B) 2SC4213(B)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q451 Q451 Q452 Q452 Q453			DTC143TUA UN5216 DTA113ZUA UN5119 DTC143TUA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q453 Q454 Q454 Q455 Q455			UN5216 DTA113ZUA UN5119 DTC143TUA UN5216	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q456 Q456 Q457 Q457 Q458			DTA113ZUA UN5119 DTC143TUA UN5216 DTA113ZUA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q458 Q459 Q459 Q460 Q460			UN5119 DTC143TUA UN5216 DTA113ZUA UN5119	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q461 Q461 Q462 Q462 Q501			DTC143TUA UN5216 DTA113ZUA UN5119 DTC124EUA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q501 Q571,572 Q571,572 Q611,612 Q611,612			UN5212 2SC3940A(R,S) 2SD863(E,F) 2SC4081(R,S) 2SC4116(Y,GR)	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q621,622 Q621,622 Q623 Q631 Q631			2SC4081(R,S) 2SC4116(Y,GR) 2SC4213(B) DTA124EUA UN5112	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q641,642 Q641,642 Q643 Q651-654 Q651-654			2SC4081(R,S) 2SC4116(Y,GR) 2SC4213(B) 2SC4081(R,S) 2SC4116(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q655 Q801 Q801 Q851 Q851			2SC4213(B) 2SC4081(R,S) 2SC4116(Y,GR) 2SC4081(R,S) 2SC4116(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		KPY KPYP
Q852 Q852 Q853 Q853 Q854			DTC124EUA UN5212 2SC4081(R,S) 2SC4116(Y,GR) DTC124EUA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		KPY KPYP KPYP KPYP KPYP
Q854 Q855 Q855 Q856 Q856			UN5212 2SA1576A(R,S) 2SA1586(Y,GR) 2SC4081(R,S) 2SC4116(Y,GR)	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		KPY KPYP KPYP KPYP KPYP
Q857 Q857 Q901-907 Q901-907 Q911			2SA1576A(R,S) 2SA1586(Y,GR) DTC124EUA UN5212 2SC4097(Q,R)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		KPY KPYP
A1 ,2 A91	1B 2B		W02-1181-05 W02-2571-05	OPTIC RECEIVING MODULE OPTIC RECEIVING MODULE		
AUDIO (X09-6270-10)						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CC45FSL1H390JM CE04KW1H100M CC45FSL1H221JM CE04KW1A101M CC45FSL1H221JM	CERAMIC ELECTRO CERAMIC ELECTRO CERAMIC	39PF 10UF 220PF 100UF 220PF	J 50WV J 10WV J
C11 ,12 C13 ,14 C15 ,16 C17 ,18 C23 ,24			CQ93FMG1H123J CQ93FMG1H332J CE04KW1V4R7M CC45FSL1H101JM C91-0749-05	MYLAR MYLAR ELECTRO CERAMIC CERAMIC	0.012UF 3300PF 4.7UF 100PF 220PF	J J 35WV J K
C27 ,28 C29 ,30 C31 ,32 C41 ,42 C43 ,44			C91-0749-05 CK45FB1H102KMU C91-0749-05 CE04KW1H3R3M CC45FSL1H221JM	CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC	220PF 1000PF 220PF 3.3UF 220PF	K K K 50WV J
C45 ,46 C47 ,48 C49 ,50 C51 ,52 C53 ,54			CC45FSL1H101JM CE04KW1E470M CE04KW1H3R3M CK45FB1H471KMU CC45FSL1H101JM	CERAMIC ELECTRO ELECTRO CERAMIC CERAMIC	100PF 47UF 3.3UF 470PF 100PF	J 25WV 50WV K J
C55 ,56 C57 -60 C61 C62 C65 ,66			CE04KW1E470M CC45FSL1H101JM CK45FF1H103ZMU CC45FSL1H101JM CC45FSL1H331JM	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	47UF 100PF 0.010UF 100PF 330PF	25WV J Z J J
C79			CE04HW1A220M	NP-ELEC	22UF	10WV

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C101,102 C103,104 C105-108 C109,110 C111,112			CE04KW1V220M CK45FSL1H151JM CC45FSL1H101JM CK45FB1H332KMU CC45FSL1H221JM	ELECTRO 22UF 35WV CERAMIC 150PF J CERAMIC 100PF J CERAMIC 3300PF K CERAMIC 220PF J		
C113,114 C115,116 C117,118 C119,120 C121,122			CE04KW1E470M CK45FF1H103ZMU CC45FSL1H151JM CC45FSL2H470J CC45FSL1H180JM	ELECTRO 47UF 25WV CERAMIC 0.010UF Z CERAMIC 150PF J CERAMIC 47PF J CERAMIC 18PF J		
C123,124 C125,126 C127,128 C129,130 C131,132			CE04KW1H100M CK45FF1H103ZMU CE04KW1V220M CC45FSL2H470J CQ93FMG1H104J	ELECTRO 10UF 50WV CERAMIC 0.010UF Z ELECTRO 22UF 35WV CERAMIC 47PF J MYLAR 0.10UF J	KP	
C133-136 C141-144 C145,146 C147-150 C151-156			CF92FV1H224J CK45FF1H472ZMU CC45FSL1H101JM CC45FSL2H470J CK45FE2H103PMM	MF-C 0.22UF J CERAMIC 4700PF Z CERAMIC 100PF J CERAMIC 47PF J CERAMIC 0.010UF P	YMX	
C157,158 C159 C160 C161 C162		*	C90-3856-05 CK45FE2H103PMM CK45FF1H103ZMU CE04KW1V102M CE04KW1V471M	ELECTRO 8200UF 71WV CERAMIC 0.010UF P CERAMIC 0.010UF Z ELECTRO 1000UF 35WV ELECTRO 470UF 35WV		
C163,164 C165 C166 C167,168 C169			CK45FB1H102KMU CE04KW1E101M CE04KW1E221M CE04KW1E470M CE04KW1H100M	CERAMIC 1000PF K ELECTRO 100UF 25WV ELECTRO 220UF 25WV ELECTRO 47UF 25WV ELECTRO 10UF 50WV		
C170 C171 C172 C173 C181			CE04KW1E101M CE04KW1J470M CE04KW1H100M CK45FB1H102KMU CK45FF1H473ZMU	ELECTRO 100UF 25WV ELECTRO 47UF 63WV ELECTRO 10UF 50WV CERAMIC 1000PF K CERAMIC 0.047UF Z		
C182 C183 C184 C188 C189			CE04KW1E222M CE04KW1E470M CK45FB1H102KMU C91-1488-05 CE04KW1V220M	ELECTRO 2200UF 25WV ELECTRO 47UF 25WV CERAMIC 1000PF K MF 6800PF 250VAC ELECTRO 22UF 35WV		
C190 C191 C192,193 C194 C195			CK45FF1H103ZMU CE04KW1E471M CQ93FMG1H104J CE04KW1E470M CE04KW1H3R3M	CERAMIC 0.010UF Z ELECTRO 470UF 25WV MYLAR 0.10UF J ELECTRO 47UF 25WV ELECTRO 3.3UF 50WV		
C201,202 C203,204 C205-208 C209,210 C211,212			CE04KW1V220M CC45FSL1H151JM CC45FSL1H101JM CK45FB1H332KMU CC45FSL1H221JM	ELECTRO 22UF 35WV CERAMIC 150PF J CERAMIC 100PF J CERAMIC 3300PF K CERAMIC 220PF J		
C213,214 C215,216 C217,218 C219,220 C221,222			CE04KW1E470M CK45FF1H103ZMU CC45FSL1H151JM CC45FSL2H470J CC45FSL1H180JM	ELECTRO 47UF 25WV CERAMIC 0.010UF Z CERAMIC 150PF J CERAMIC 47PF J CERAMIC 18PF J		

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C223,224 C225,226 C227,228 C229,230 C231,232			CE04KW1H100M CK45FF1H103ZMU CE04KW1V220M CC45FSL2H470J CQ93FMG1H104J	ELECTRO 10UF 50WV CERAMIC 0.010UF Z ELECTRO 22UF 35WV CERAMIC 47PF J MYLAR 0.10UF J	KP	
C233-236 C241,242 C245,246 C247-250 C301			CF92FV1H224J CK45FF1H472ZMU CC45FSL1H101JM CC45FSL2H470J CE04KW1V220M	MF-C 0.22UF J CERAMIC 4700PF Z CERAMIC 100PF J CERAMIC 47PF J ELECTRO 22UF 35WV	YMX	
C303 C305 C307 C309 C311			CC45FSL1H151JM CC45FSL1H101JM CC45FSL1H101JM CK45FB1H332KMU CC45FSL1H221JM	CERAMIC 150PF J CERAMIC 100PF J CERAMIC 100PF J CERAMIC 3300PF K CERAMIC 220PF J		
C313 C315 C317 C319 C321			CE04KW1E470M CK45FF1H103ZMU CC45FSL1H151JM CC45FSL2H470J CC45FSL1H180JM	ELECTRO 47UF 25WV CERAMIC 0.010UF Z CERAMIC 150PF J CERAMIC 47PF J CERAMIC 18PF J		
C323 C325 C327 C329 C331			CE04KW1H100M CK45FF1H103ZMU CE04KW1V220M CC45FSL2H470J CQ93FMG1H104J	ELECTRO 10UF 50WV CERAMIC 0.010UF Z ELECTRO 22UF 35WV CERAMIC 47PF J MYLAR 0.10UF J	KP	
C333 C335 C341 C345 C347			CF92FV1H224J CF92FV1H224J CK45FF1H472ZMU CC45FSL1H101JM CC45FSL2H470J	MF-C 0.22UF J MF-C 0.22UF J CERAMIC 4700PF Z CERAMIC 100PF J CERAMIC 47PF J	YMX YMX	
C349 C350 C351 C352 C353			CC45FSL2H470J CE04KW1V220M CE04KW1E470M CK45FB1H102KMU CE04KW1E470M	CERAMIC 47PF J ELECTRO 22UF 35WV ELECTRO 47UF 25WV CERAMIC 1000PF K ELECTRO 47UF 25WV		
C367,368 C369 C371,372 C373 C374			CE04KW2A100M CK45FF1H103ZMU CE04KW2A470M CK45FF1H103ZMU CE04KW1E101M	ELECTRO 10UF 100WV CERAMIC 0.010UF Z ELECTRO 47UF 100WV CERAMIC 0.010UF Z ELECTRO 100UF 25WV		
C380 C381 C382			CE04KW1V4R7M CE04KW1A101M CE04KW1V4R7M	ELECTRO 4.7UF 35WV ELECTRO 100UF 10WV ELECTRO 4.7UF 35WV		
CN1 CN3 CN4 CN5 CN6			E40-8405-05 E40-4233-05 E40-9848-05 E40-4245-05 E40-9840-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY PIN ASSY PIN ASSY		
CN7 CN8 CN21-25 J1 ,2 J3 J4		*	E40-4293-05 E40-8373-05 E40-4871-05 E63-0141-15 E63-0139-15 E70-0095-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY PHONO JACK PHONO JACK SCREW TERMINAL BOARD		

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PARTS LIST

KRF-V7772D/VR-3080

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Δ J5	1C		E70-0096-05	SCREW TERMINAL BOARD		
Δ J7	1C		E03-0148-05	AC OUTLET		KPY
Δ J7	1C		E03-0149-05	AC OUTLET		M
Δ J7	1C		E03-0325-05	AC OUTLET		X
Δ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		X
Δ F1			F50-0077-05	FUSE(5X20)		KP
Δ F1 ,2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		YM
Δ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)		YMX
Δ F3 -5			F50-0072-05	FUSE(5X20)		KP
Δ F4 ,5			F05-1623-05	FUSE (SEMKO) (250V T1.6AL)		YMX
CN9 -18			J13-0075-05	FUSE CLIP		YM
CN9 -18		*	J13-0092-05	FUSE CLIP		YM
CN9 ,10			J13-0075-05	FUSE CLIP		KPX
CN9 ,10		*	J13-0092-05	FUSE CLIP		KPX
CN13-18			J13-0075-05	FUSE CLIP		KPX
CN13-18		*	J13-0092-05	FUSE CLIP		KPX
E10			J11-0808-05	WIRE CLAMPER		
L1 -5			L39-0085-05	PHASE COMPENSATION COIL		
Δ T1			L07-2320-05	POWER TRANSFORMER		KP
Δ T1			L07-2321-05	POWER TRANSFORMER		YM
Δ T1			L07-2322-05	POWER TRANSFORMER		X
R85 -89			RD14NB2E220J	RD 22 J 1/4W		
Δ R90			RS14KB3D562J	FL-PROOF RS 5.6K J 2W		
R119-122			RD14NB2E221J	RD 220 J 1/4W		
R127,128			RD14NB2E121J	RD 120 J 1/4W		
R133-136			RD14NB2E470J	RD 47 J 1/4W		
R141-144			RD14NB2E332J	RD 3.3K J 1/4W		
R147-150			RD14NB2E101J	RD 100 J 1/4W		
R155,156			RS14KB3D3R3J	FL-PROOF RS 3.3 J 2W		
R157,158			RS14KB3D561J	FL-PROOF RS 560 J 2W		
Δ R159			RD14NB2E270J	RD 27 J 1/4W		KPX
Δ R159			RD14NB2E680J	RD 68 J 1/4W		YM
Δ R160			RD14NB2E3R3J	RD 3.3 J 1/4W		
Δ R161,162			RD14NB2E1R0J	RD 1 J 1/4W		
Δ R181			RD14NB2E220J	RD 22 J 1/4W		
Δ R182			RD14NB2E222J	RD 2.2K J 1/4W		
Δ R190			R92-1844-05	CARBON 3.3M J 1/2W		KP
Δ R194			RD14NB2E1R0J	RD 1 J 1/4W		
R196			RD14NB2E391J	RD 390 J 1/4W		
R219-222			RD14NB2E221J	RD 220 J 1/4W		
R227,228			RD14NB2E121J	RD 120 J 1/4W		
R233-236			RD14NB2E470J	RD 47 J 1/4W		
R241-244			RD14NB2E332J	RD 3.3K J 1/4W		
R247-250			RD14NB2E101J	RD 100 J 1/4W		
R255,256			RS14KB3D3R3J	FL-PROOF RS 3.3 J 2W		
R319			RD14NB2E221J	RD 220 J 1/4W		
R321			RD14NB2E221J	RD 220 J 1/4W		
R327			RD14NB2E121J	RD 120 J 1/4W		
R333			RD14NB2E470J	RD 47 J 1/4W		
R335			RD14NB2E470J	RD 47 J 1/4W		
R341			RD14NB2E332J	RD 3.3K J 1/4W		
R343			RD14NB2E332J	RD 3.3K J 1/4W		
R347			RD14NB2E101J	RD 100 J 1/4W		

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R349			RD14NB2E101J	RD 100 J 1/4W		
R355			RS14KB3D3R3J	FL-PROOF RS 3.3 J 2W		
Δ R361			RD14NB2E220J	RD 22 J 1/4W		
Δ R371,372			RD14NB2E1R0J	RD 1 J 1/4W		
R373,374			RD14NB2E272J	RD 2.7K J 1/4W		
VR1 -5			R32-0030-05	SEMI FIXED VARIABLE RESISTOR		
Δ K1			S76-0077-05	MAGNETIC RELAY		
K2 -5			S76-0076-05	MAGNETIC RELAY		
Δ K6			S76-0063-05	MAGNETIC RELAY		
Δ S1	2A		S40-1066-05	PUSH SWITCH (POWER TYPE)		YMX
Δ S2	1C		S31-3010-05	SLIDE SWITCH		YM
Δ D1 ,2			D5SBA20F03	DIODE		
Δ D1 ,2			RBV-602LFA	DIODE		
Δ D3 -6			S5688B	DIODE		
Δ D3 -6			1SR139-400	DIODE		
Δ D7 ,8			MTZJ8.2(B)	ZENER DIODE		
D7 ,8			RD8.2ES(B2)	ZENER DIODE		
D9 ,10			S5688B	DIODE		
D9 ,10			1SR139-400	DIODE		
D11 ,12			MTZJ18(B)	ZENER DIODE		
D11 ,12			RD18ES(B2)	ZENER DIODE		
Δ D13 -20			S5688B	DIODE		
Δ D13 -20			1SR139-400	DIODE		
Δ D21 -24			HSS104	DIODE		
Δ D21 -24			1SS133	DIODE		
D25 ,26			S5688B	DIODE		
D25 ,26			1SR139-400	DIODE		
D27			MTZJ8.2(B)	ZENER DIODE		
D27			RD8.2ES(B2)	ZENER DIODE		
D28			HSS104	DIODE		
D28			1SS133	DIODE		
D29			MTZJ18(B)	ZENER DIODE		
D29			RD18ES(B2)	ZENER DIODE		
D31			MTZJ2.7(B)	ZENER DIODE		
D31			RD2.7ES(B2)	ZENER DIODE		
D32			HSS104	DIODE		
D32			1SS133	DIODE		
D33			MTZJ4.7(B)	ZENER DIODE		
D33			RD4.7ES(B2)	ZENER DIODE		
D34			HSS104	DIODE		
D34			1SS133	DIODE		
D35 -37			S5688B	DIODE		
D35 -37			1SR139-400	DIODE		
D38			MTZJ2.7(B)	ZENER DIODE		
D38			RD2.7ES(B2)	ZENER DIODE		
D39			HSS104	DIODE		
D39			1SS133	DIODE		
D51 -54			HSS104	DIODE		
D51 -54			1SS133	DIODE		
D55 ,56		*	1SS244	DIODE		
D57 -62			HSS104	DIODE		
D57 -62			1SS133	DIODE		
D71 -74			HSS104	DIODE		
D71 -74			1SS133	DIODE		

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KRF-V7772D/VR-3080

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D75 ,76 D77 -82 D77 -82 D90 -92 D90 -92		* *	1SS244 HSS104 1SS133 HSS104 1SS133	DIODE DIODE DIODE DIODE DIODE		
D93 D94 -100 D94 -100 D101,102 D101,102			1SS244 HSS104 1SS133 MTZJ13(B) RD13ES(B2)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D103 D103 D104 D104 D105			MTZJ8.2(B) RD8.2ES(B2) MTZJ18(B) RD18ES(B2) MTZJ13(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D105 D106,107 D106,107 D108,109 D108,109			RD13ES(B2) HSS104 1SS133 MTZJ4.7(B) RD4.7ES(B2)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
IC1 IC2 ,3 IC4 IC5 IC8			NJM4580L-D NJM4565D-D NJU7313AL NJU7312AL TA78057S	ANALOGUE IC IC(OP AMP X2) ANALOGUE IC ANALOGUE IC ANALOGUE IC		
Q1 ,2 Q3 Q3 Q4 Q5			2SB1370(E,F) 2SC2458(Y,GR) 2SC3311A(Q,R) 2SA992(F,E) 2SC2458(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q5 Q6 Q6 Q7 Q8			2SC3311A(Q,R) 2SA1048(Y,GR) 2SA1309A(Q,R) 2SA1534A(R,S) 2SC2003(L,K)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q9 ,10 Q9 ,10 Q11 -15 Q16 Q17 ,18			2SA1048(Y,GR) 2SA1309A(Q,R) 2SC2878(B) 2SD2061(E,F) 2SK246(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET		
Q21 -24 Q25 -28 Q29 ,30 Q31 ,32 Q33 ,34			2SA992(F,E) 2SC2631(R,S) 2SA1123(R,S) 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q41 -44 Q45 -48 Q49 ,50 Q51 ,52 Q53 ,54			2SA992(F,E) 2SC2631(R,S) 2SA1123(R,S) 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q61 Q63 Q65 Q67 Q69			2SA992(F,E) 2SA992(F,E) 2SC2631(R,S) 2SC2631(R,S) 2SA1123(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q71 Q73 Q79 Q79 Q80			2SC1845(F,E) 2SA992(F,E) DTC124ESA UN4212 2SC2458(Y,GR)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q80 Q81 Q82 Q83 Q84 ,85			2SC3311A(Q,R) 2SC3944A 2SA1535A 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q86 ,87 Q88 Q88 Q89 Q97 -100			2SC1845(F,E) DTC113ZSA UN4219 2SA992(F,E) DTC113ZSA	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q97 -100 Q101,102 Q103,104 Q105,106 Q107,108			UN4219 TRAIT5N*5 TRAIT5P*5 TRAIT5N*5 TRAIT5P*5	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q109 Q110			TRAIT5N*5 TRAIT5P*5	TRANSISTOR TRANSISTOR		

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KRF-V7772D/VR-3080

SPECIFICATIONS

KRF-V7772D

Audio Section

Rated Output Power during stereo operation

For US Military:

100 watts per channel minimum RMS, both channels driven, at 6 Ω from 20Hz to 20kHz with no more than 0.05% total harmonic distortion (FTC).

For Other Countries:

63Hz ~ 12.5kHz, 0.7% T.H.D. , 6 Ω (DIN/IEC)
..... 100W + 100 W
100 watts per channel minimum RMS, both channels driven, at 6 Ω from 20Hz to 20kHz with no more than 0.05% total harmonic distortion (FTC).

Effective Output Power during stereo operation

For Other Countries:

1kHz, 10% T.H.D. , at 6 Ω 150W + 150 W

Effective Output Power during surround operation

For US Military:

Front
1kHz, 0.09% T.H.D. at 6 Ω 100W + 100 W
Center
1kHz, 0.09% T.H.D. at 6 Ω 100W
Surround
1kHz, 0.09% T.H.D. at 6 Ω 100W + 100W

For Other Countries:

Front
1kHz, 0.09% T.H.D. at 6 Ω one channel driven
..... 100W + 100 W
1kHz, 10% T.H.D. at 6 Ω one channel driven
..... 120W + 120 W
Center
1kHz, 0.09% T.H.D. at 6 Ω one channel driven 100W
1kHz, 10% T.H.D. at 6 Ω one channel driven 120W
Surround
1kHz, 0.09% T.H.D. at 6 Ω one channel driven
..... 100W + 100W
1kHz, 10% T.H.D. at 6 Ω one channel driven
..... 120W + 120W

Total Harmonic Distortion 0.007% (1kHz, 50 W, 6 Ω)

Frequency Response (IHF'78)

CD 5Hz~90kHz, +0.5dB, -3dB

Signal to Noise Ratio (IHF '66)

Phono (MM) 75dB
CD 93dB

Input Sensitivity / Impedance

Phono (MM) 2.5mV / 47k Ω
CD 200 mV / 47k Ω

Output Level / Impedance

Tape Rec 200mV / 2.2k Ω
Pre Out (Front, Center, Surround, Subwoofer) 1V / 1k Ω

Tone Control

Bass $\pm$ 7dB (at 100Hz)
Treble $\pm$ 7dB (at 10kHz)

Loudness Control

Volume at -40dB level +7dB (100Hz), +4dB (10kHz)

Digital Audio Section

Sampling Frequency 32kHz, 44.1kHz, 48kHz

Input Level / Impedance / Wavelength

Optical -15dBm~-21dBm, 660nm $\pm$ 30nm
Coaxial 0.5Vp-p / 75 Ω

Video Section

Video Inputs / Outputs

Video (composite) 1Vp-p / 75 Ω
S Video (luminance signal) 1Vp-p / 75 Ω
(chrominance signal) 0.286Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range 87.5MHz~108MHz

Usable Sensitivity (Mono)

..... 1.6 μ V (75 Ω) / 15.2dBf (75kHz dev., sinad 30dB)

50dB Quieting Sensitivity

Stereo 31.6 μ V (75 Ω) / 41.2dBf

Total Harmonic Distortion (1kHz)

Mono 0.3% (65dBf input)

Stereo 0.7% (65dBf input)

Signal to Noise Ratio (1kHz, 75kHz DEV.)

Mono 75dB (65dBf input)

Stereo 68dB (65dBf input)

Stereo Separation (1kHz) 38dB

Selectivity (+400kHz) 50dB

Frequency Response 30Hz~15kHz, +0.5dB, -3.0dB

AM Tuner Section

Tuning Frequency Range

9kHz step 531kHz~1,602kHz

10kHz step 530kHz~1,610kHz

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

..... 16 μ V / (600 μ V/m)

IR In/Out Section(For US Military Only)

IR Receiver In Terminal

Maximum Output Current 15mA

Operating Voltage 12V

Output Impedance 470 Ω

IR Out LCD Remote Terminal

Maximum Output Current 15mA

Operating Voltage 5V

Output Impedance 470 Ω

IR Repeater Control Terminal

Maximum Output Current 15mA

Operating Voltage 12V

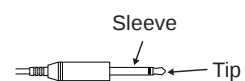
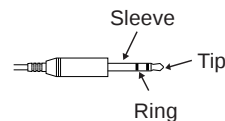
Output Impedance 470 Ω

SHAPE OF PLUG TO BE CONNECTED:

IR Receiver In and IR Out LCD Remote	IR Repeater Out
---	-----------------

Stereo mini plug

Mono mini plug



IR IN/OUT SPECIFICATION:

Terminal	IR Receiver In	IR OUT LCD REMOTE
To Tip	Signal	Signal
To Ground	Ground	
To Sleeve	+12V	Ground

General

Power consumption 300W

AC outlet

Switched 2 (total 100W max.)

Dimensions W: 440mm

..... H: 162mm

..... D: 391mm

Weight (Net) 11.5kg

KRF-V7772D/VR-3080

SPECIFICATIONS

VR-3080

Audio Section

Rated Output Power during stereo operation
100 watts per channel minimum RMS, both channels
driven, at 6 Ω from 20Hz to 20kHz with no more than 0.05%
total harmonic distortion (FTC).

Effective Output Power during surround operation

Front	
1kHz, 0.09% T.H.D. at 6 Ω	100W + 100 W
Center	
1kHz, 0.09% T.H.D. at 6 Ω	100W
Surround	
1kHz, 0.09% T.H.D. at 6 Ω	100W + 100W

Total Harmonic Distortion 0.007% (1kHz, 50 W, 6 Ω)

Frequency Response (IHF'78)

CD	5Hz~90kHz, +0.5dB, -3dB
----------	-------------------------

Signal to Noise Ratio (IHF '66)

Phono (MM)	75dB
CD	93dB

Input Sensitivity / Impedance

Phono (MM)	2.5mV / 47k Ω
CD	200 mV / 47k Ω

Output Level / Impedance

Tape Rec	200mV / 2.2k Ω
Pre Out (Front, Center, Surround, Subwoofer)	1V / 1k Ω

Tone Control

Bass	$\pm$ 7dB (at 100Hz)
Treble	$\pm$ 7dB (at 10kHz)

Loudness Control

Volume at -40dB level	+7dB (100Hz), +4dB (10kHz)
-----------------------------	----------------------------

Digital Audio Section

Sampling Frequency 32kHz, 44.1kHz, 48kHz

Input Level / Impedance / Wavelength

Optical	-15dBm~21dBm, 660nm $\pm$ 30nm
Coaxial	0.5Vp-p / 75 Ω

Video Section

Video Inputs / Outputs

Video (composite)	1Vp-p / 75 Ω
S Video (luminance signal)	1Vp-p / 75 Ω
(chrominance signal)	0.286Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range 87.5MHz~108MHz

Usable Sensitivity (Mono)

.....	1.6 μ V (75 Ω) / 15.2dBf (75kHz dev., sinad 30dB)
-------	---

50dB Quieting Sensitivity

Stereo	31.6 μ V (75 Ω) / 41.2dBf
--------------	---------------------------------------

Total Harmonic Distortion (1kHz)

Mono	0.3% (65dBf input)
Stereo	0.7% (65dBf input)

Signal to Noise Ratio (1kHz, 75kHz DEV.)

Mono	75dB (65dBf input)
Stereo	68dB (65dBf input)

Stereo Separation (1kHz) 38dB

Selectivity (+400kHz) 70dB

Frequency Response 30Hz~15kHz, +0.5dB, -3.0dB

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on General market(M) 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.

AM Tuner Section

Tuning Frequency Range

10kHz step	530kHz~1,700kHz
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Usable Sensitivity (30% mod., S/N 20dB)

.....	16 μ V / (600 μ V/m)
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Signal to Noise Ratio (30% mod. 1 mV input) 50dB

IR In/Out Section

IR Receiver In Terminal

Maximum Output Current	15mA
Operating Voltage	12V
Output Impedance	470 Ω

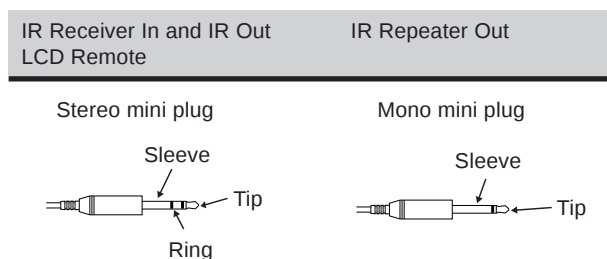
IR Out LCD Remote Terminal

Maximum Output Current	15mA
Operating Voltage	5V
Output Impedance	470 Ω

IR Repeater Control Terminal

Maximum Output Current	15mA
Operating Voltage	12V
Output Impedance	470 Ω

SHAPE OF PLUG TO BE CONNECTED:



IR IN/OUT SPECIFICATION:

Terminal	IR Receiver In	IR OUT LCD REMOTE
To Tip	Signal	Signal
To Ground	Ground	
To Sleeve	+12V	Ground

General

Power consumption 2.8A

AC outlet

Switched	2 (total 100W, 0.83 A max.)
----------------	-----------------------------

Dimensions

W : 440mm	(17-5/16")
H : 162mm	(6-3/8")
D : 391mm	(15-3/8")

Weight (Net) 10.7kg (23.6lb)

KENWOOD CORPORATION

14-6,Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150-8501 Japan

KENWOOD SERVICE CORPORATION

P.O BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.