

KRF-V7772D VR-3080 SERVICE MANUAL

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KRF-V7772D/VR-3080

CONTENTS / ACCESSORIES

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Accessories

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



Battery cover(A09-1115-08)

Batteries



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



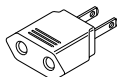
AM Antenna Base



FM Antenna
(T90-0841-05)



AC plug adapter
(E03-0115-05)



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

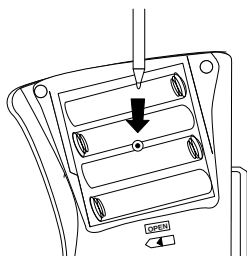
(Present only for regions where use is necessary.)

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)

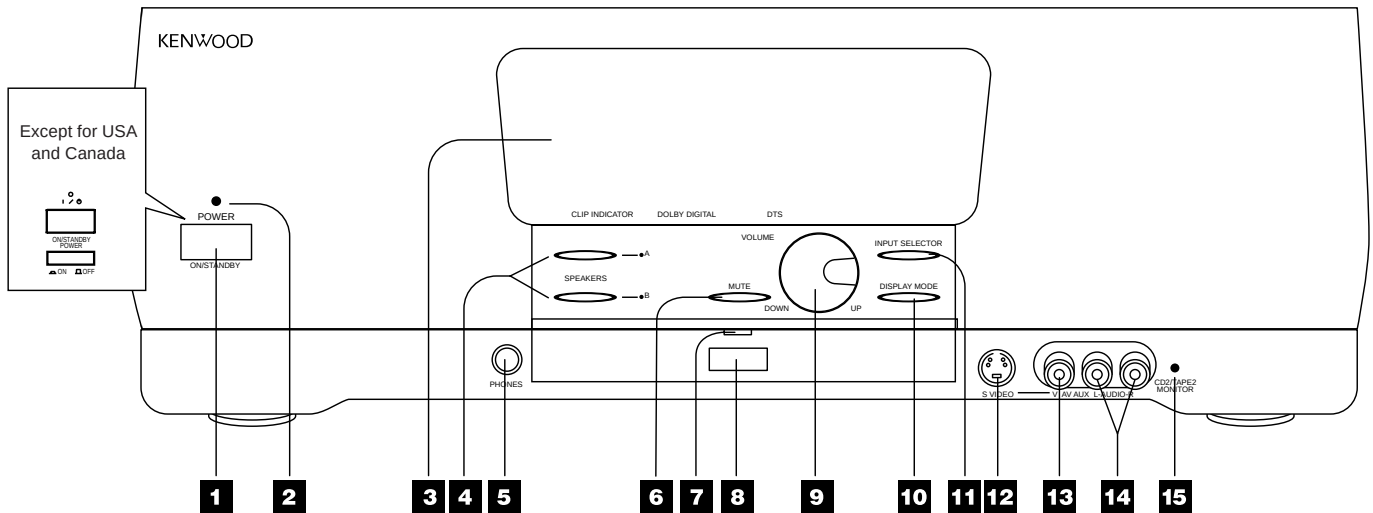
1. Turn the receiver off.
2. Unplug the receiver.
3. Plug it back in while pressing and holding the Power button (you may need someone else to help you do this)
4. Continue to hold the Power button for more than 1 second.

(For Other Countries)

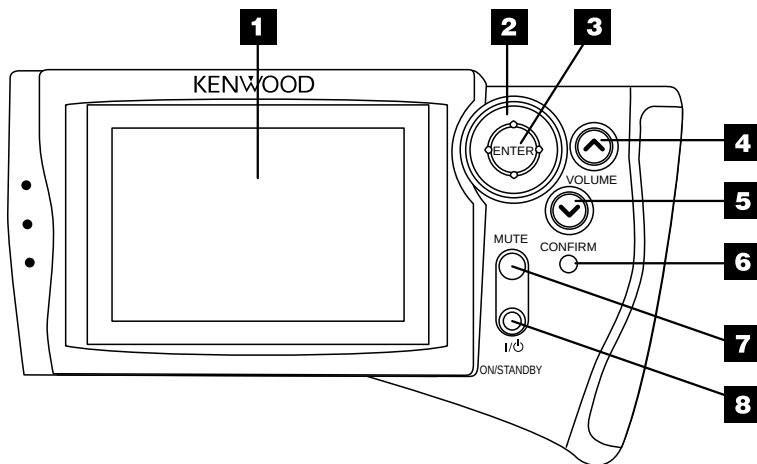
1. Turn the receiver off. (The Power button is OFF position.)
2. Press ON/STANDBY button while pressing and holding the Power button.
3. Continue to hold the Power button for more than 1 second.

KRF-V7772D/VR-3080

CONTROLS



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



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).

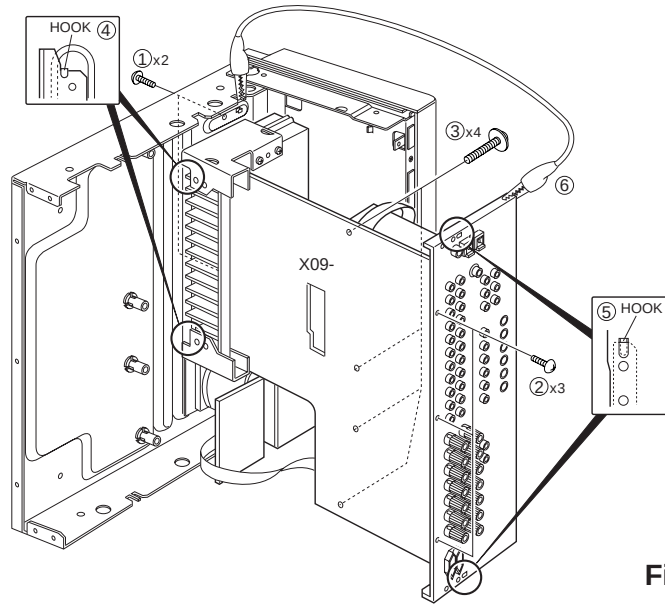


Fig. 1

[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).

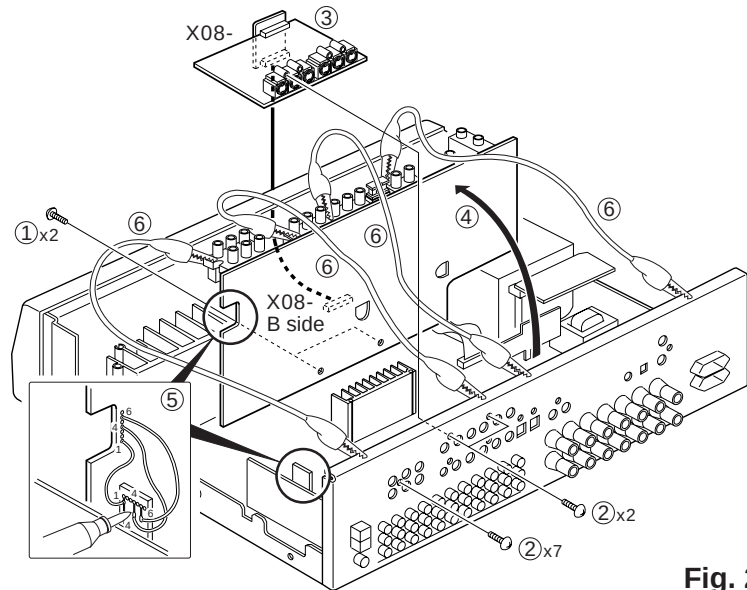


Fig. 2

[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).

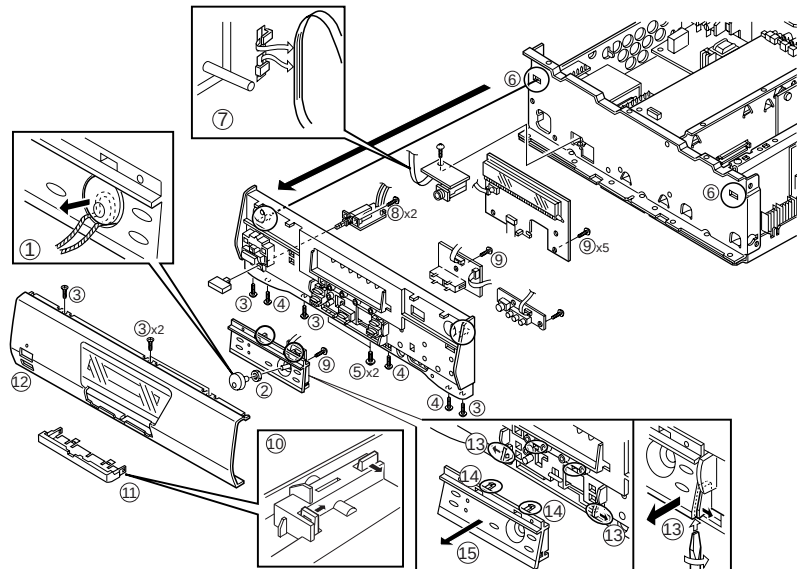


Fig. 3

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.

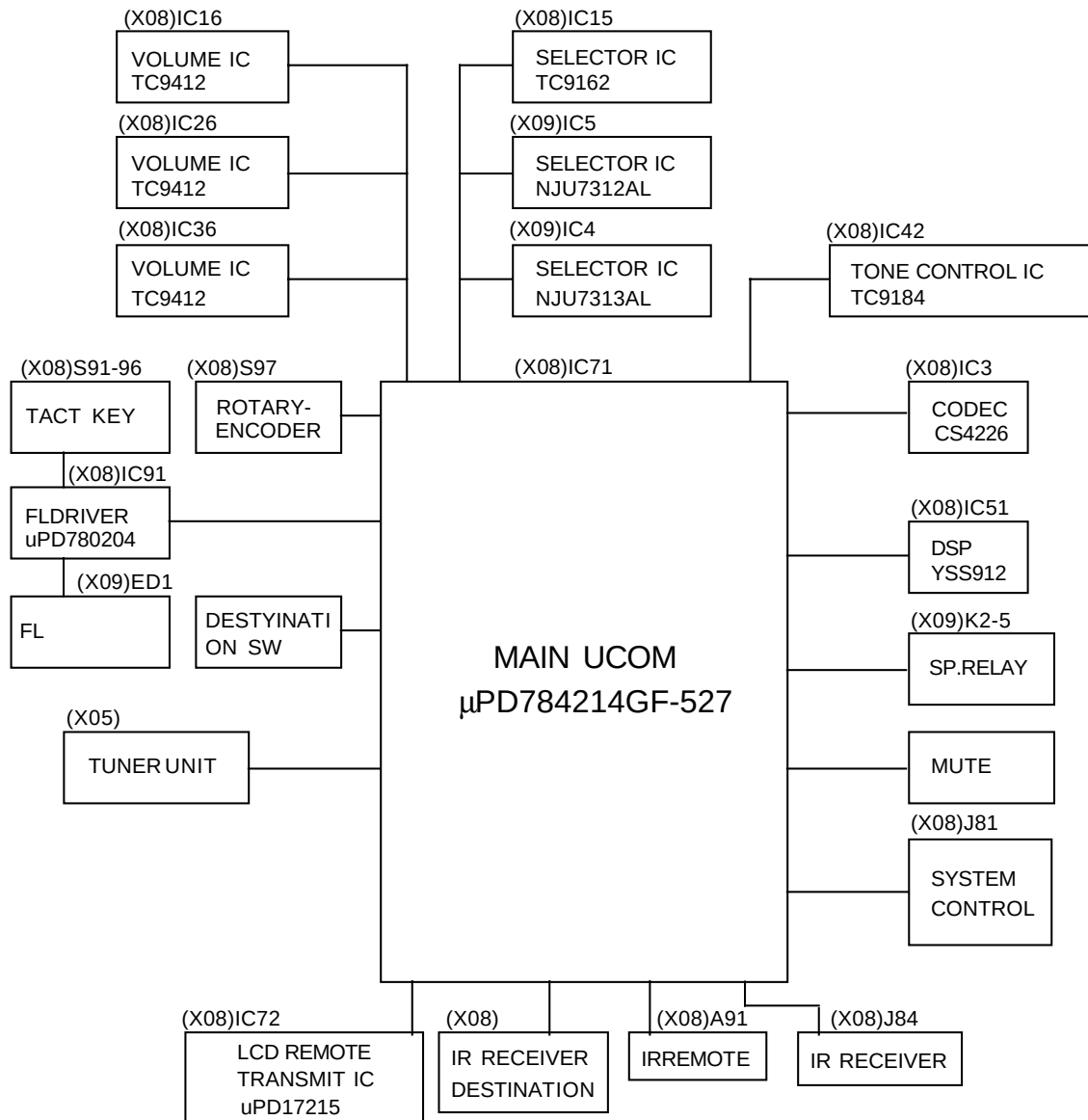
KRF-V7772D/VR-3080

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

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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

KRF-V7772D/VR-3080

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)

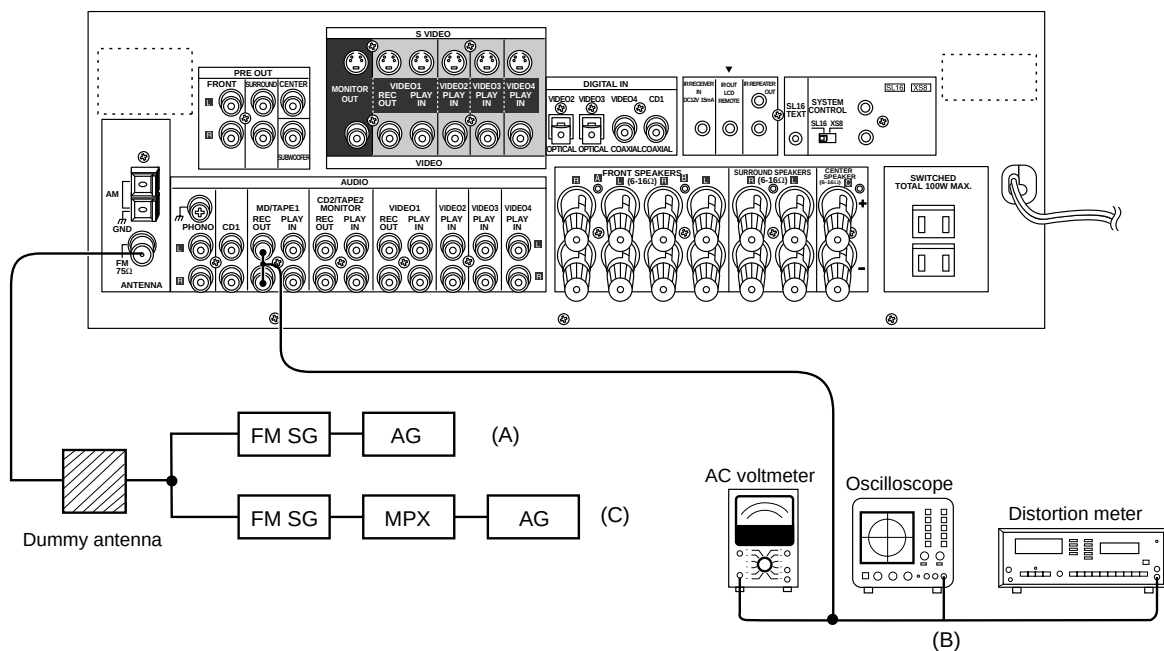
AC -3/MPEG Data Stream input	EXIST	NON
AC -3,MPEG,dts(DVD)	H	L

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



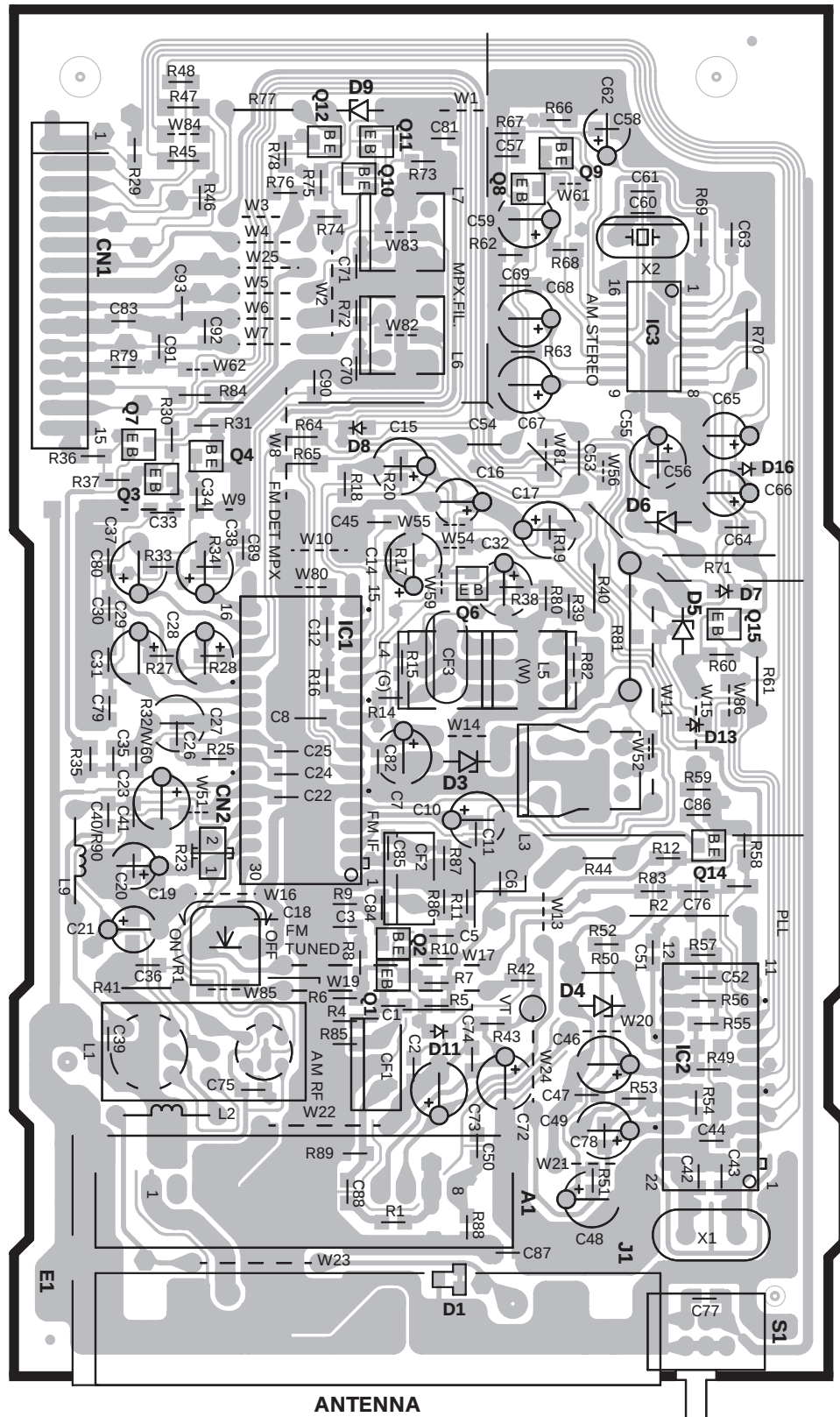
WIRING DIAGRAM



PC BOARD (Component side view)

TUNER UNIT

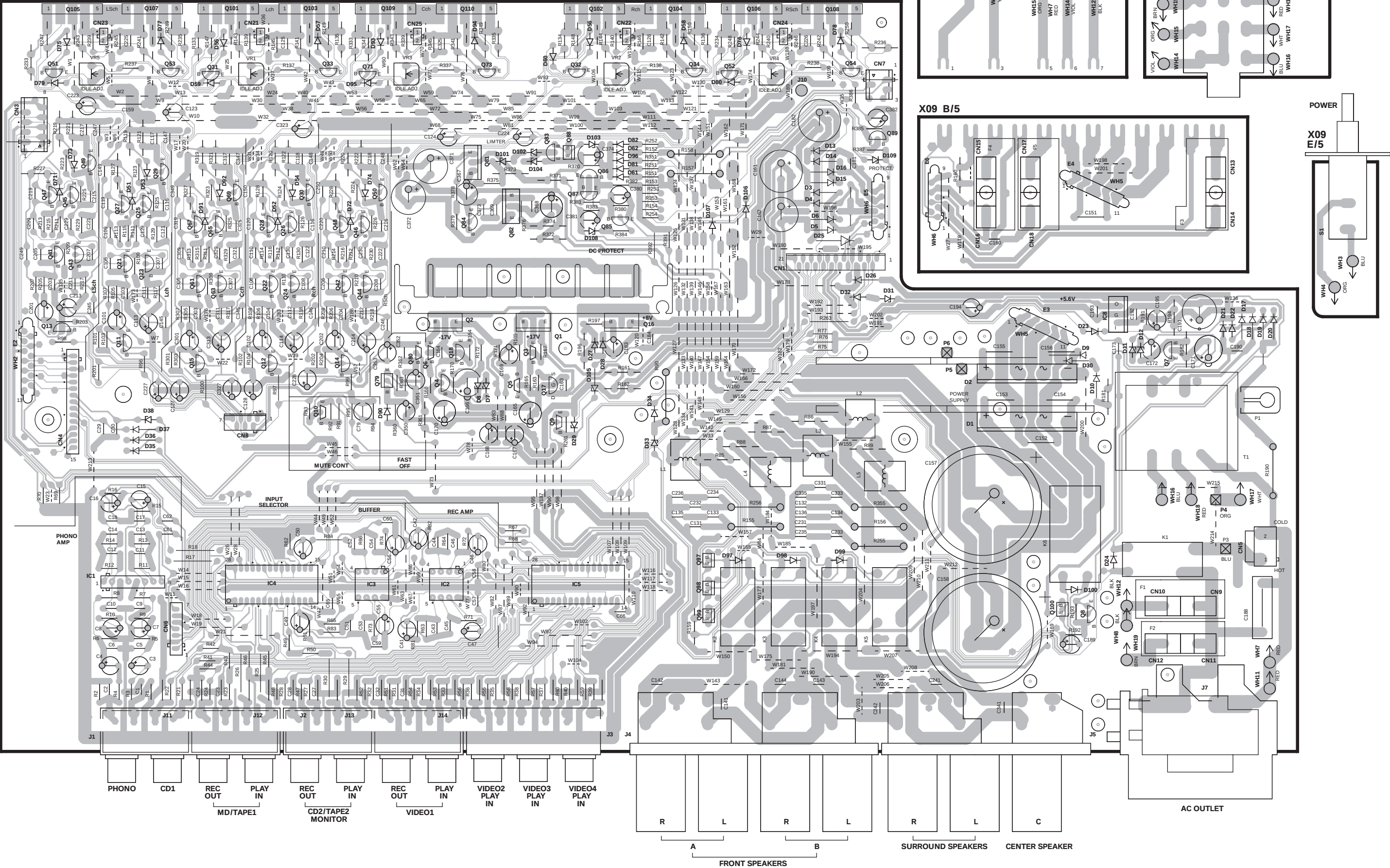
X05-5030-10 (J70-1284-01)



1	
2	
3	
4	
5	
6	
7	

PC BOARD (Component side view)

AUDIO UNIT
X09-6270-10 A/5 (J70-1293-01)



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

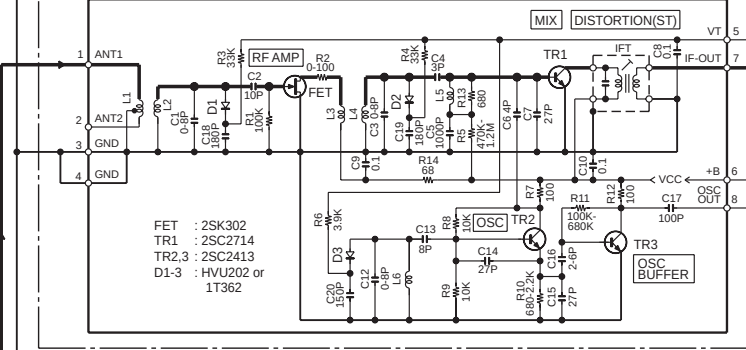
D1 : DA204U or
MA143A or
1SS302
D3,6 : RD8.2ES(B2) or
MTZ2.8.2(B) or
D4 : RD5.1ES(B2) or
MTZJ5.1(B) or
D5 : RD2.7ES(B2) or
MTZJ2.7(B) or
D7,8,13,16 : MA111
D9 : RD3.3ES(B2) or
MTZJ3.3(B) or
A1 : *

SIGNAL LINE
GND LINE
+B LINE
-B LINE

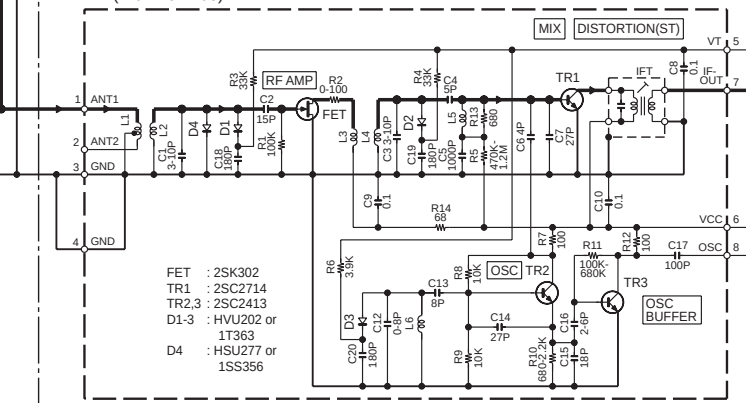
TUNER UNIT (X05-503X-XX)

CN2
VREF
T.METER

(K,P,Y,M,X) TYPE
A1 (W02-2622-05)



(J) TYPE
A1 (W02-2621-05)



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
JAPAN	J	0-01	NO	YES	4.7K	NO	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.

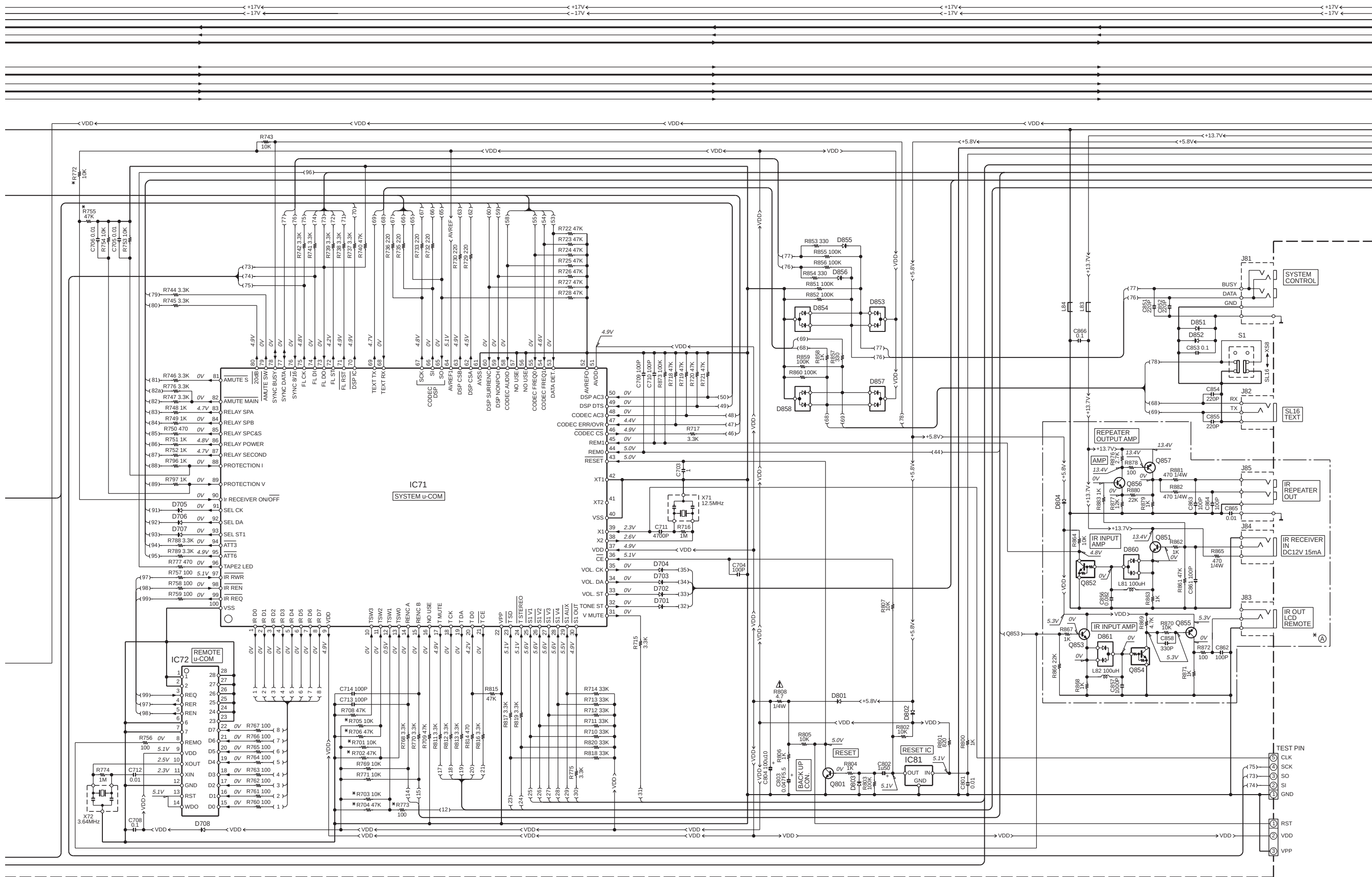
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

Y05-3850-10

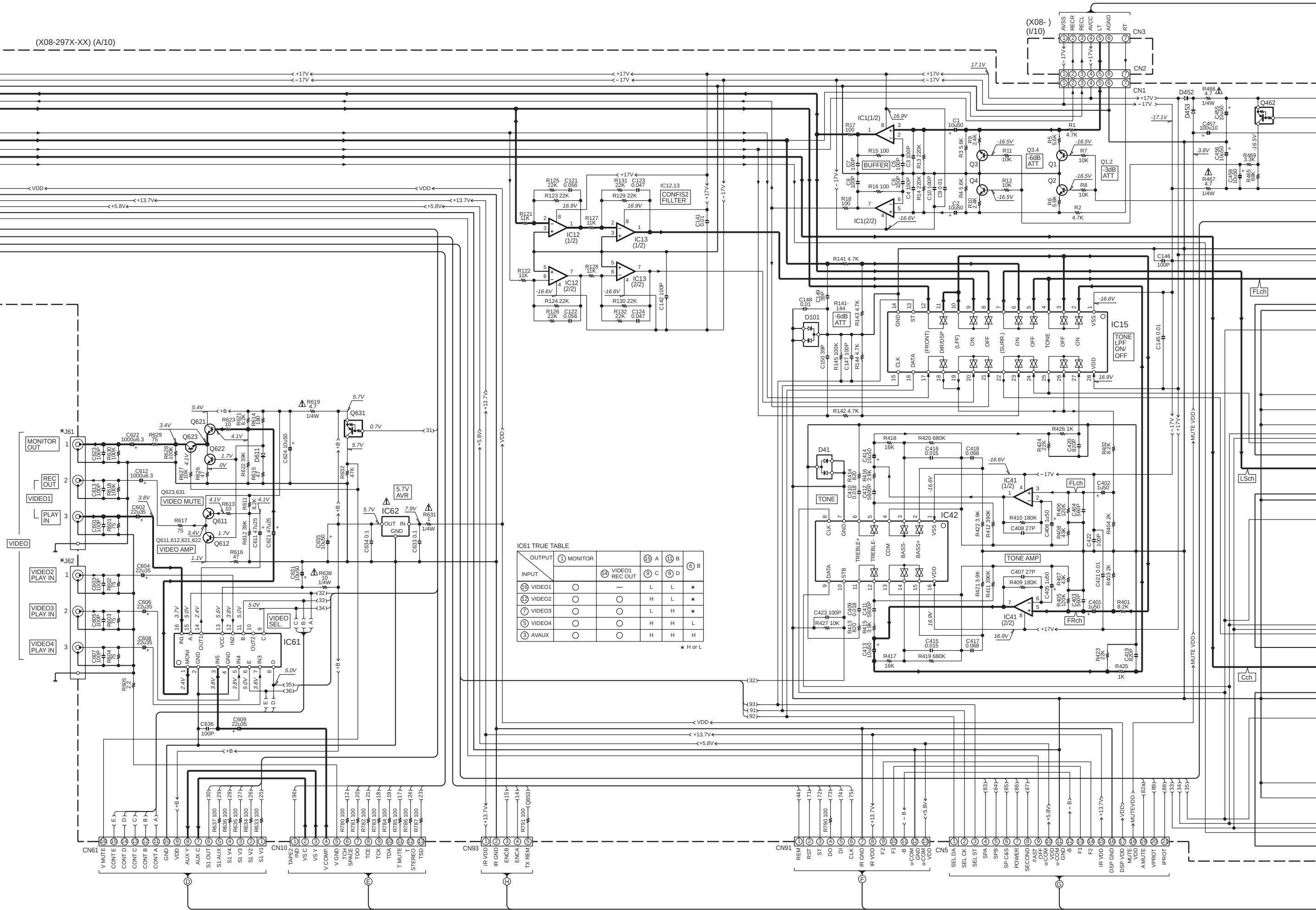
KRF-V7772D/VR-3080

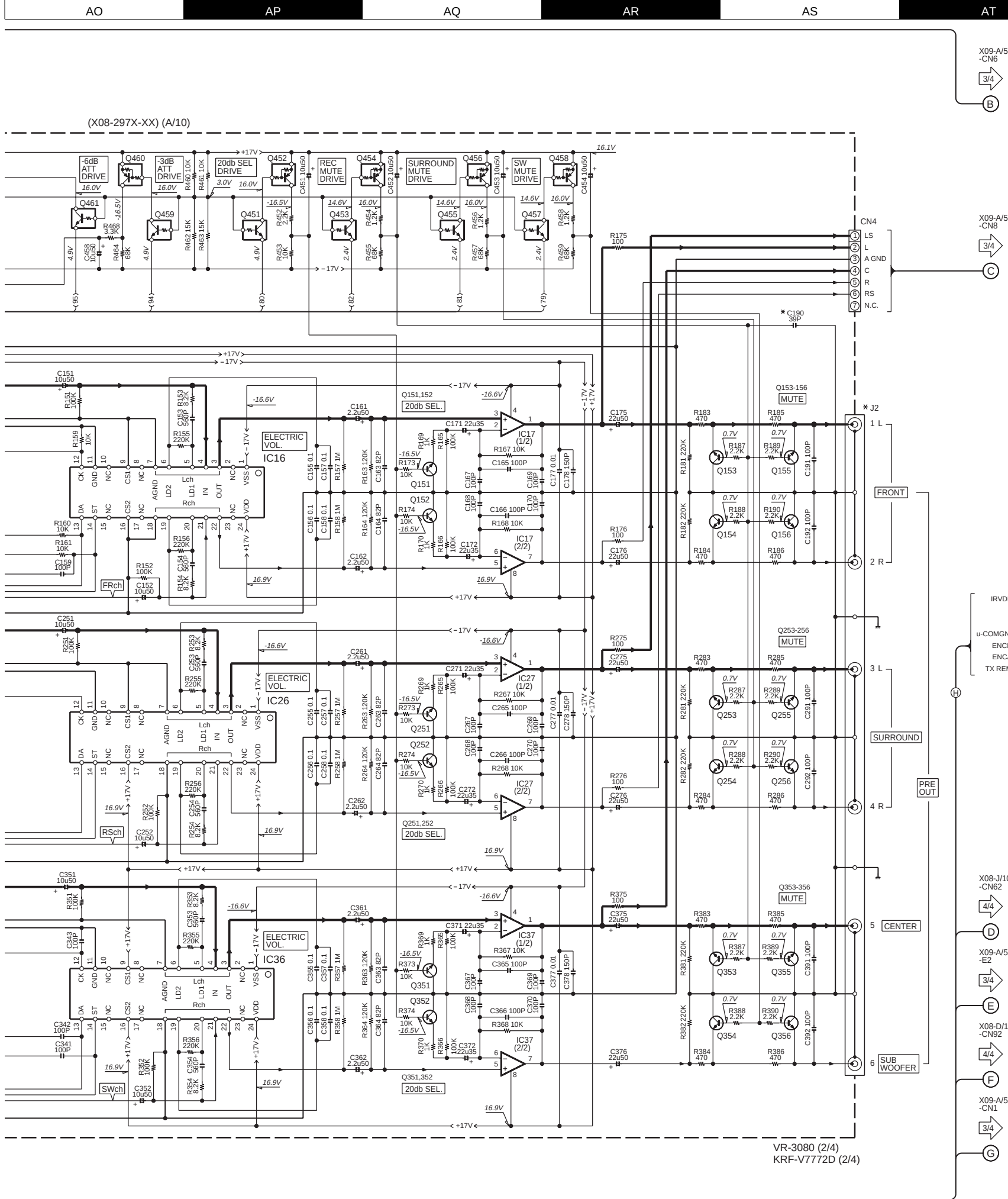
KENWOOD

VR-3080 (1/4)
KRF-V7772D (1/4)



(X08-297X-XX) (A/10)





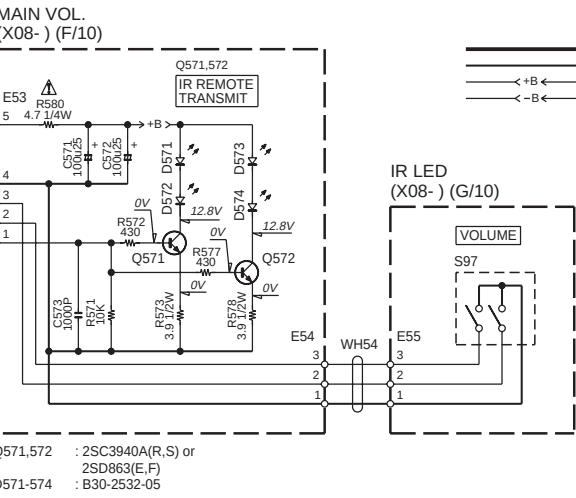
VR-3080 (X08-2970-10)

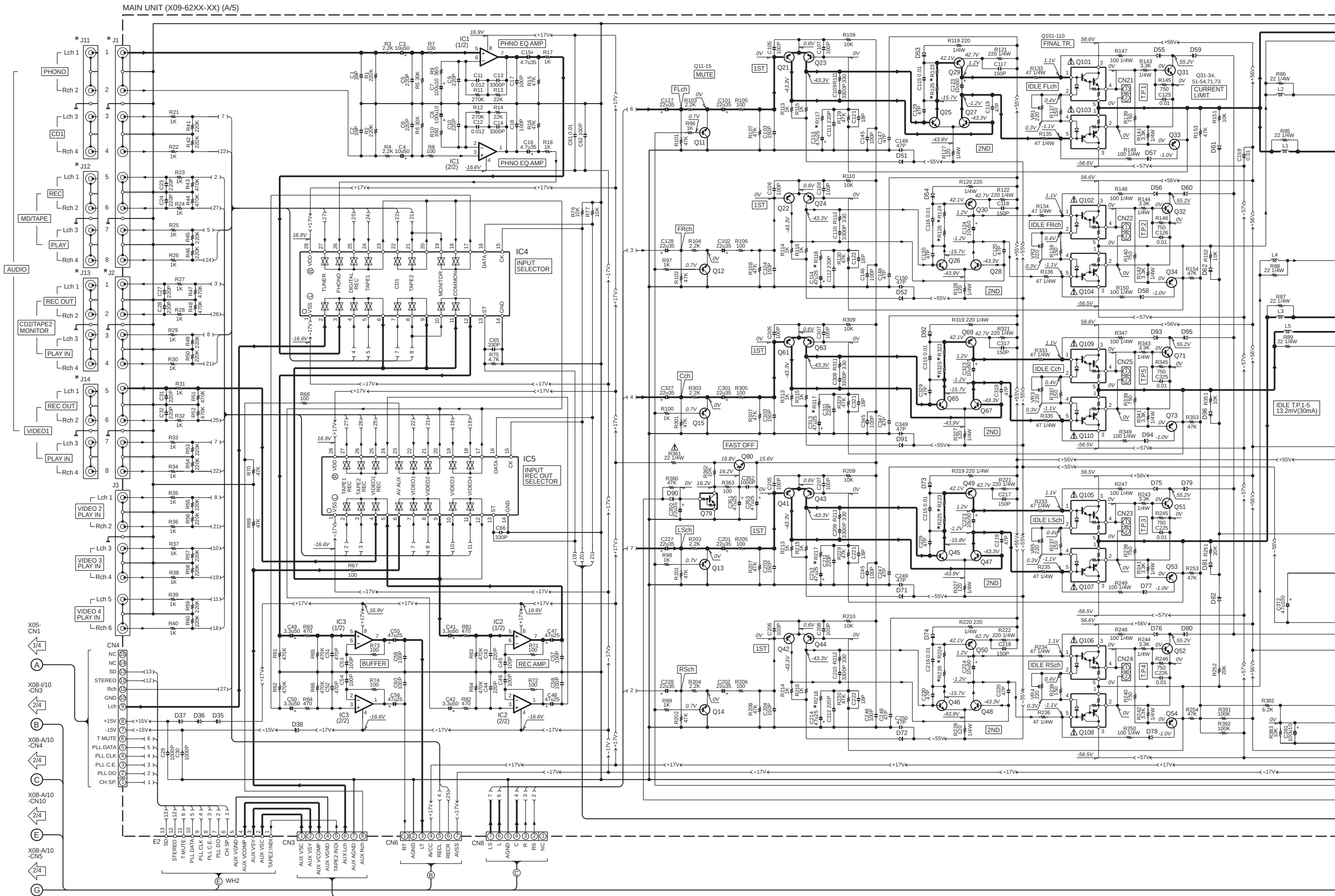
DESTINATION	COUNTRY	ABB.	UNIT No.	Ⓐ	R701,703,705,755,773	R702,704,706,772	C190	J1	J2	J61,62
U.S.A.	K	0-10	YES	NO	YES	NO	NO	E63-1028-05	E63-1084-05	E63-0162-05
CANADA	P	0-10	YES	NO	YES	NO	NO	E63-1028-05	E63-1084-05	E63-0162-05

KRF-V7772D (X08-297X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	Ⓐ	R701	R702	R703	R704	R705	R706	R755	R772	R773	C190	J1	J2	J61,62
PX	Y	2-91	YES	YES	NO	YES	NO	NO	YES	NO	YES	YES	YES	NO	E63-1028-05	E63-1084-05	E63-0162-05
GENERAL MARKET	M	0-21	NO	YES	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	E63-1069-05	E63-1085-05	E63-0139-05
AUSTRALIA	X	0-71	NO	YES	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	E63-1069-05	E63-1085-05	E63-0139-05
JAPAN	J	0-01	NO	YES	NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	E63-1069-05	E63-1085-05	E63-0139-05

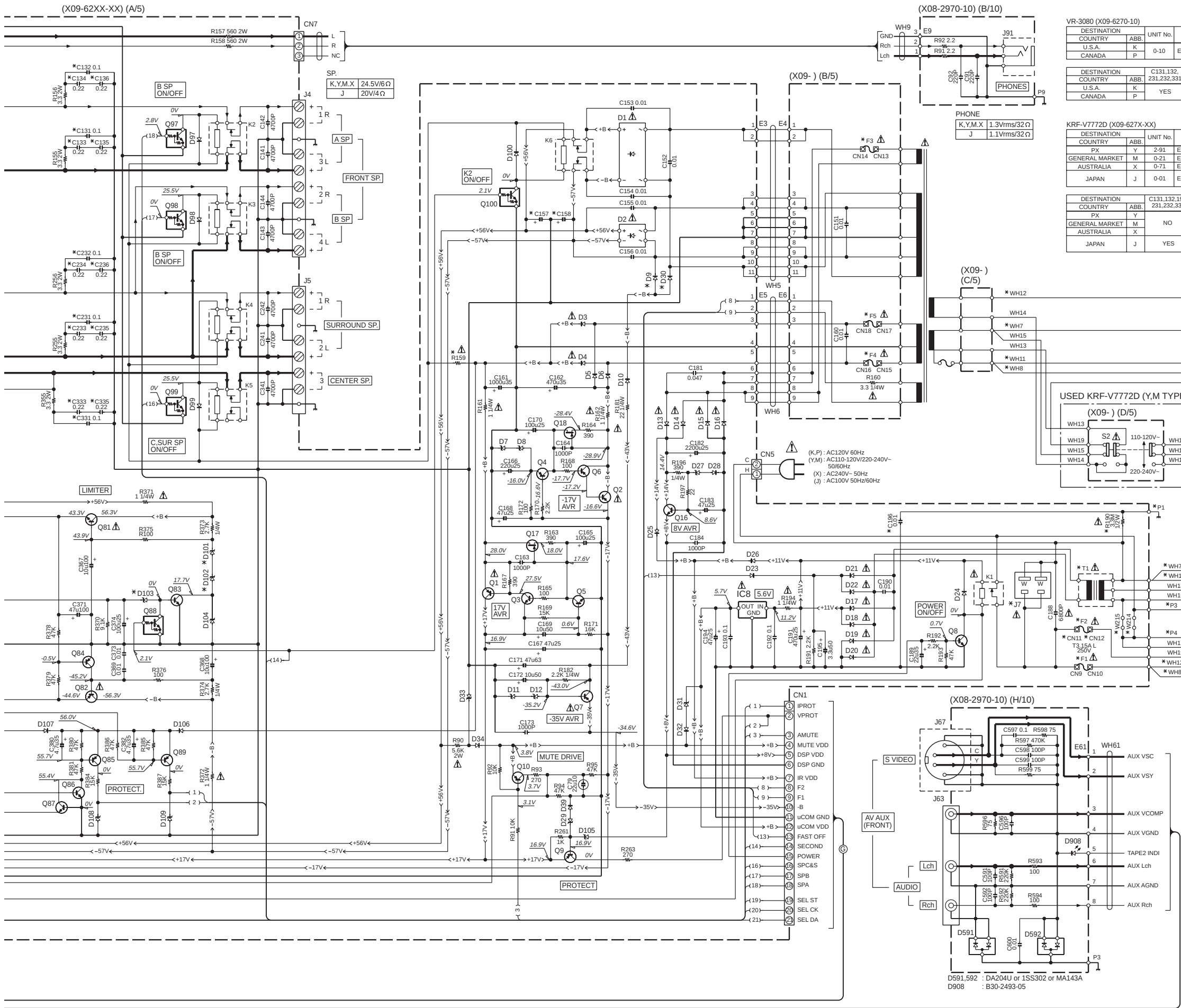
IC1,11-13,17,21,27,31,32,37,41 : NJM4565MD	Q1-4,151-156,251-256,351-356,623 : 2SC4213(B)
IC3 : CS4226KQG	Q11,631 : UN5112 or DTA124EUA
IC5 : TA7805SB	Q451,453,455,457,459,461 : UN5216 or DTC143TUA
IC6 : TC74HC04AF	Q452,454,456,458,460,462 : UN5119 or DTA113ZUA
IC7 : TC74HC123AF	Q501,852,854 : UN5212 or DTC124EUA
IC15 : TC9162AF	Q611,612,621,622,801,851,853,856 : 2SC4081(R,S) or 2SC4116(Y,GR)
IC16,26,36 : TC9412AF	Q855,857 : 2SA1576A(R,S) or 2SA1586(Y,GR)
IC42 : TC9184AP	
IC51 : YSS912	
IC52 : W241024AJ-15 or CY7C1009-15VC	
IC54 : L88M33T	D1,2,41,101,860,861 : DA204U or 1SS302 or MA143A
IC55,56 : TC7WU04FU	D61,501,502,611,701-707,803,851,852,855,856 : MA111
IC57 : TC7500F	D452,453,708,801,802,804 : U1BC44
IC61 : BA7626F	D853,857 : DAN202U or 1SS301 or MA142WK
IC62 : TA78057SB	D854,858 : DAP202U or 1SS300 or MA142WA
IC71 : UPD784214GF527	
IC72 : UPD17215GT-737	
IC81 : S-80740AL-A4	A1,2 : W02-1181-05

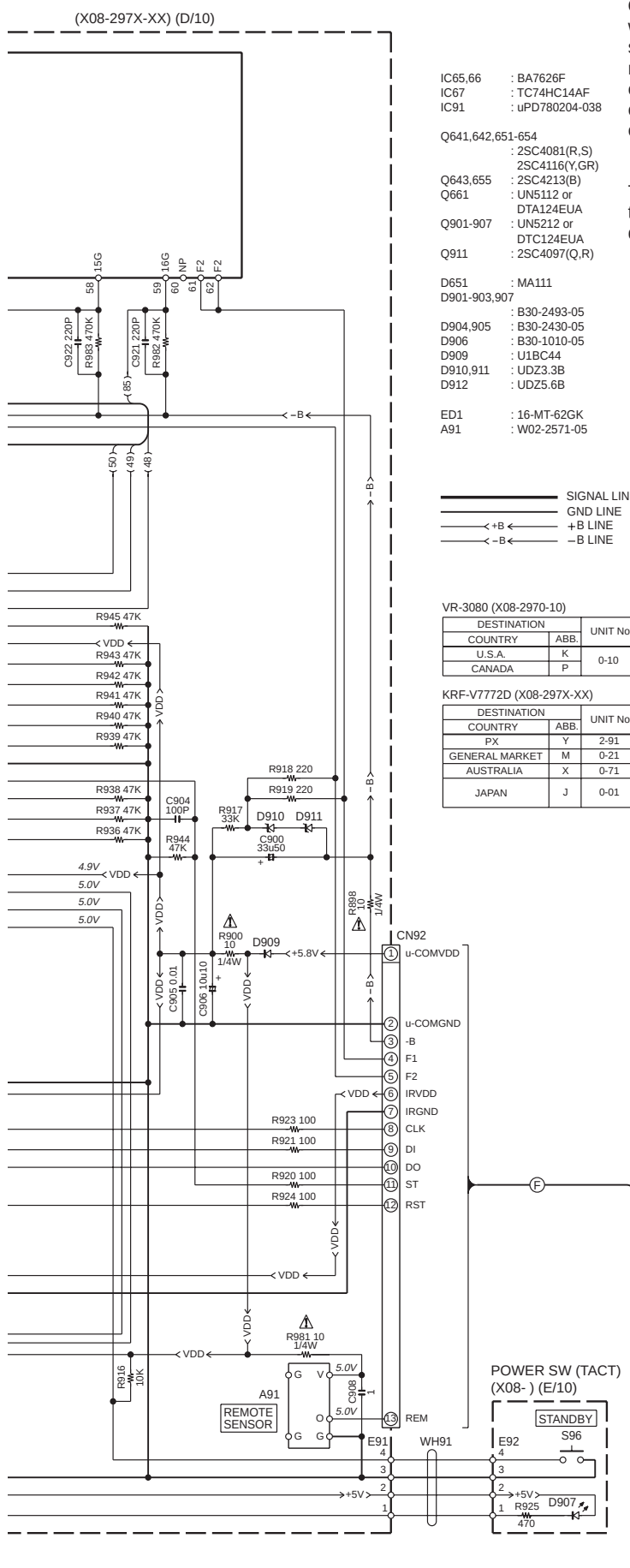




CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, 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 with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

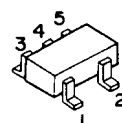




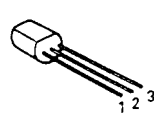
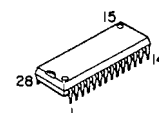
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, 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 with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

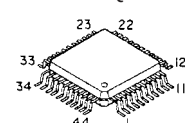
TC7S00F



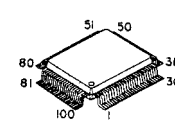
S-80740AL-A4

NJU7312AL
NJU7313AL

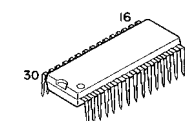
CS4226KQG



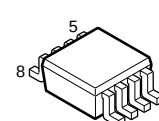
YSS912



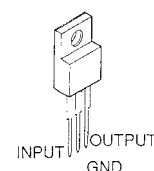
LA1837



TC7WU04FU



TA78057S



L88M33T

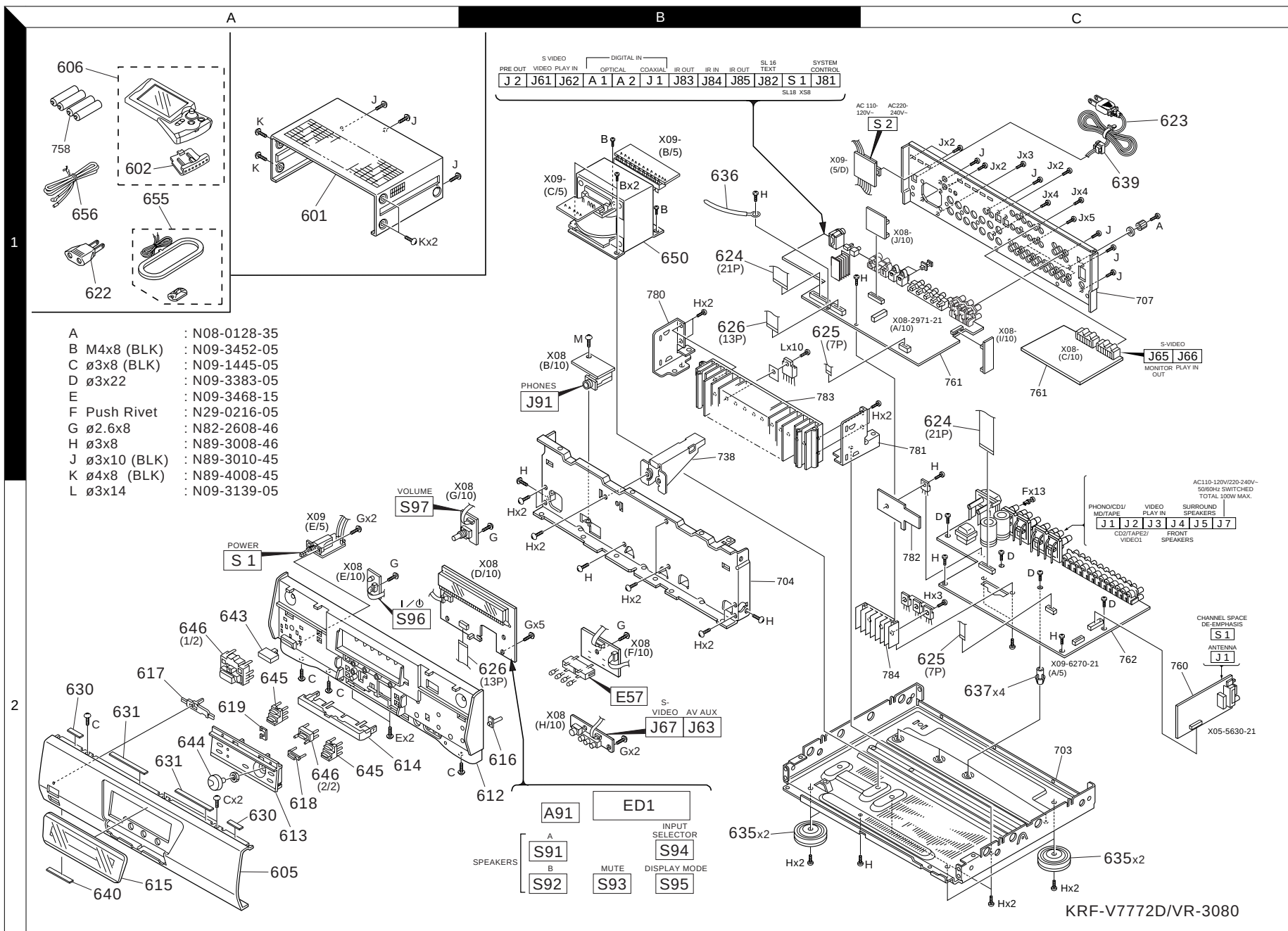


VR-3080 (4/4)
 KRF-V7772D (4/4)

KRF-V7772D/VR-3080

Y05-3850-10

KENWOOD



* New Parts

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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		

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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

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PARTS LIST

KRF-V7772D/VR-3080

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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
C78			CK73FB1H223K	CHIP C	0.022UF	K
C79 ,80			CK73FB1H102K	CHIP C	1000PF	K
C79 ,80			CK73FB1H122K	CHIP C	1200PF	K
C79 ,80			CK73FB1H152K	CHIP C	1500PF	K
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		
CF1 ,2			L72-0596-05	CERAMIC FILTER		
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
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
R30			RK73FB2A561J	CHIP R	560	J 1/10W
R31			RK73FB2A473J	CHIP R	47K	J 1/10W
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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④

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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	
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		
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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PARTS LIST

KRF-V7772D/VR-3080

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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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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		
Δ R47 ,48			RD14NB2E3R9J	RD 3.9 J 1/4W		
Δ R49			RD14NB2E2R2J	RD 2.2 J 1/4W		
Δ 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		
Δ 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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Ref. No	Add-ress	New Parts	Parts No.	Description				Desti-nation	Re-marks
R165,166 R167,168 R169,170 R173,174 R175,176			RK73FB2A104J RK73FB2A103J RK73FB2A102J RK73FB2A103J RK73FB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 10K 1.0K 10K 100	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R181,182 R183-186 R187-190 R201,202 R205,206			RK73FB2A224J RK73FB2A471J RK73FB2A222J RK73FB2A332J RK73FB2A392J	CHIP R CHIP R CHIP R CHIP R CHIP R	220K 470 2.2K 3.3K 3.9K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R207,208 R209,210 R211,212 R251,252 R253,254			RK73FB2A182J RK73FB2A223J RK73FB2A101J RK73FB2A104J RK73FB2A822J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.8K 22K 100 100K 8.2K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R255,256 R257,258 R263,264 R265,266 R267,268			RK73FB2A224J RK73FB2A105J RK73FB2A124J RK73FB2A104J RK73FB2A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	220K 1.0M 120K 100K 10K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R269,270 R273,274 R275,276 R281,282 R283-286			RK73FB2A102J RK73FB2A103J RK73FB2A101J RK73FB2A224J RK73FB2A471J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 10K 100 220K 470	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R287-290 R301 R302-304 R305,306 R307			RK73FB2A222J RK73FB2A222J RK73FB2A472J RK73FB2A104J RK73FB2A122J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K 2.2K 4.7K 100K 1.2K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R308,309 R310 R311 R312 R313,314			RK73FB2A103J RK73FB2A153J RK73FB2A223J RK73FB2A822J RK73FB2A221J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 15K 22K 8.2K 220	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R315 R316 R318 R319,320 R351,352			RK73FB2A101J RK73FB2A103J RK73FB2A472J RK73FB2A101J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 10K 4.7K 100 100K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R353,354 R355,356 R357,358 R363,364 R365,366			RK73FB2A822J RK73FB2A224J RK73FB2A105J RK73FB2A124J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	8.2K 220K 1.0M 120K 100K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R367,368 R369,370 R373,374 R375 R381,382			RK73FB2A103J RK73FB2A102J RK73FB2A103J RK73FB2A101J RK73FB2A224J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 1.0K 10K 100 220K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R383-386 R387-390 R401,402 R403,404 R405,406			RK73FB2A471J RK73FB2A222J RK73FB2A822J RK73FB2A202J RK73FB2A124J	CHIP R CHIP R CHIP R CHIP R CHIP R	470 2.2K 8.2K 2.0K 120K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		

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

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

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D41 D41 D61 D101 D101			MA143A 1SS302 MA111 DA204U MA143A	DIODE DIODE DIODE DIODE DIODE		
D101 D452,453 D501,502 D591,592 D591,592			1SS302 U1BC44 MA111 DA204U MA143A	DIODE DIODE DIODE DIODE DIODE		
D591,592 D611 D651 D701-707 D708			1SS302 MA111 MA111 MA111 U1BC44	DIODE DIODE DIODE DIODE DIODE		
D801,802 D803 D804 D851,852 D853			U1BC44 MA111 U1BC44 MA111 DAN202U	DIODE DIODE DIODE DIODE DIODE	KPY	
D853 D853 D854 D854 D854			MA142WK 1SS301 DAP202U MA142WA 1SS300	DIODE DIODE DIODE DIODE DIODE		
D855,856 D857 D857 D857 D858			MA111 DAN202U MA142WK 1SS301 DAP202U	DIODE DIODE DIODE DIODE DIODE		
D858 D858 D860,861 D860,861 D860,861			MA142WA 1SS300 DA204U MA143A 1SS302	DIODE DIODE DIODE DIODE DIODE	KPY KPY KPY	
D909 D910,911 D912 ED1 IC1	2B		U1BC44 UDZ3.3B UDZ5.6B 16-MT-62GK NJM4565MD	DIODE ZENER DIODE ZENER DIODE INDICATOR TUBE IC(OP AMP X2)		
IC3 IC5 IC6 IC7 IC11-13			CS4226KQG TA7805SB TC74HCU04AF TC74HC123AF NJM4565MD	MOS-IC ANALOGUE IC IC(HEX INVERTER SMD) MOS-IC IC(OP AMP X2)		
IC15 IC16 IC17 IC21 IC26			TC9162AF TC9412AF NJM4565MD NJM4565MD TC9412AF	MOS-IC MOS-IC IC(OP AMP X2) IC(OP AMP X2) MOS-IC		
IC27 IC31,32 IC36 IC37 IC41			NJM4565MD NJM4565MD TC9412AF NJM4565MD NJM4565MD	IC(OP AMP X2) IC(OP AMP X2) MOS-IC IC(OP AMP X2) IC(OP AMP X2)		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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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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 KPY
Q852 Q852 Q853 Q853 Q854			DTC124EUA UN5212 2SC4081(R,S) 2SC4116(Y,GR) DTC124EUA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		KPY KPY KPY KPY KPY
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 KPY KPY KPY KPY
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 KPY
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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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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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.

22

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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		

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

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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
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		

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.

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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		

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)
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KRF-V7772D/VR-3080

PARTS LIST

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

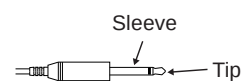
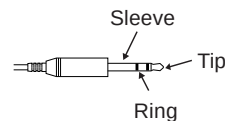
Output Impedance 470 Ω

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)
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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

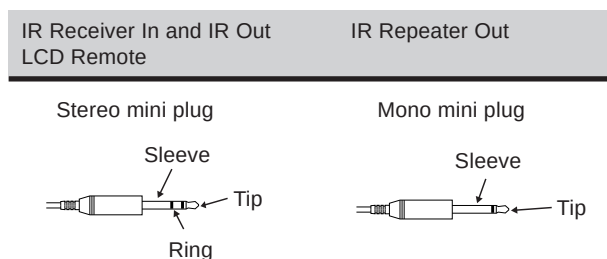
IR Out LCD Remote Terminal

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.)
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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.