

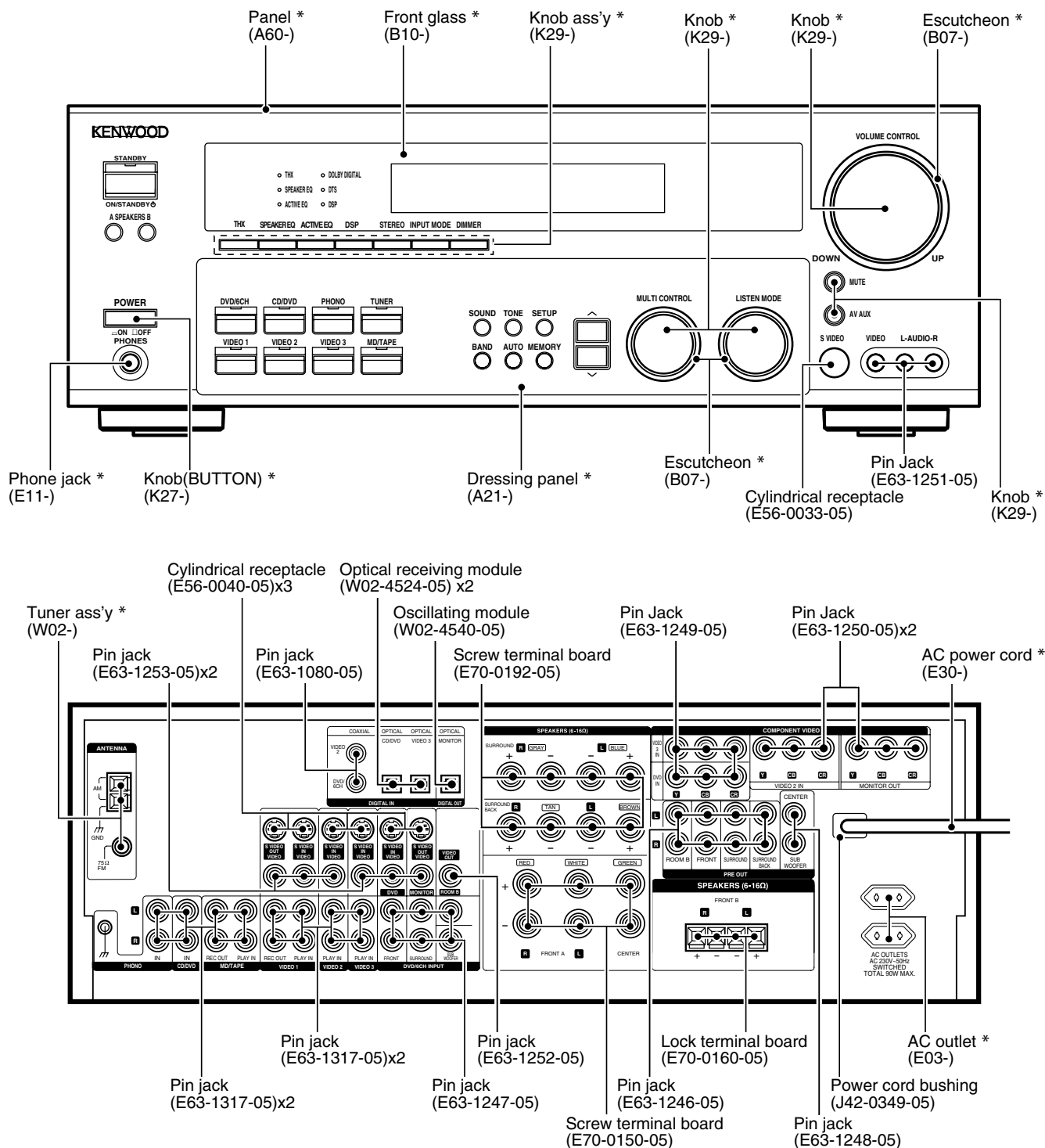
KRF-X9080D/X9080D-S

VR-8070/8070-S/8060-S

SERVICE MANUAL

KENWOOD

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B51-5916-00 (K/K) 933



Illust. is KRF-X9080D.

* Refer to parts list on page 44.



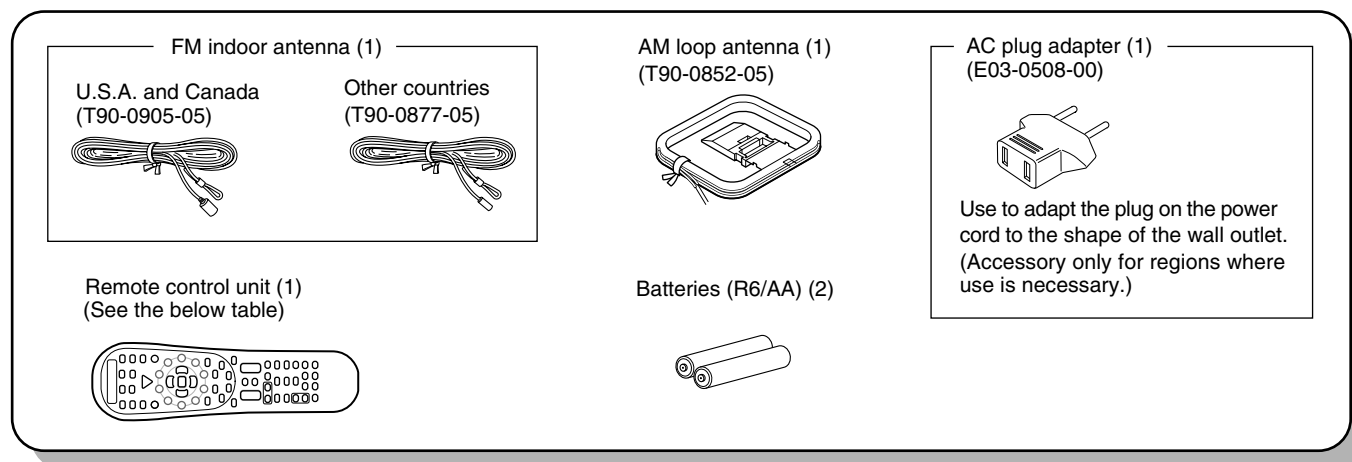
KRF-X9080D/VR-8070/8060

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CONTENTS

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ACCESSORIES



REMOTE CONTROL vs MODEL

MODEL	PARTS #	REMOTE CONTROL #	DESTINATION
VR-8070	A70-1659-05	RC-R0827	K1P1
VR-8070-S			K2P2
KRF-X9080D	A70-1620-05	RC-R0820	Y1
KRF-X9080D-S			X1
KRF-X9080D	A70-1621-05	RC-R0821	E1
KRF-X9080D-S			E2
VR-8060-S	A70-1622-05	RC-R0822	K3P3

CAUTIONS

Resetting the Microcomputer

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

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

For the U.S.A. and Canada

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

For other countries

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

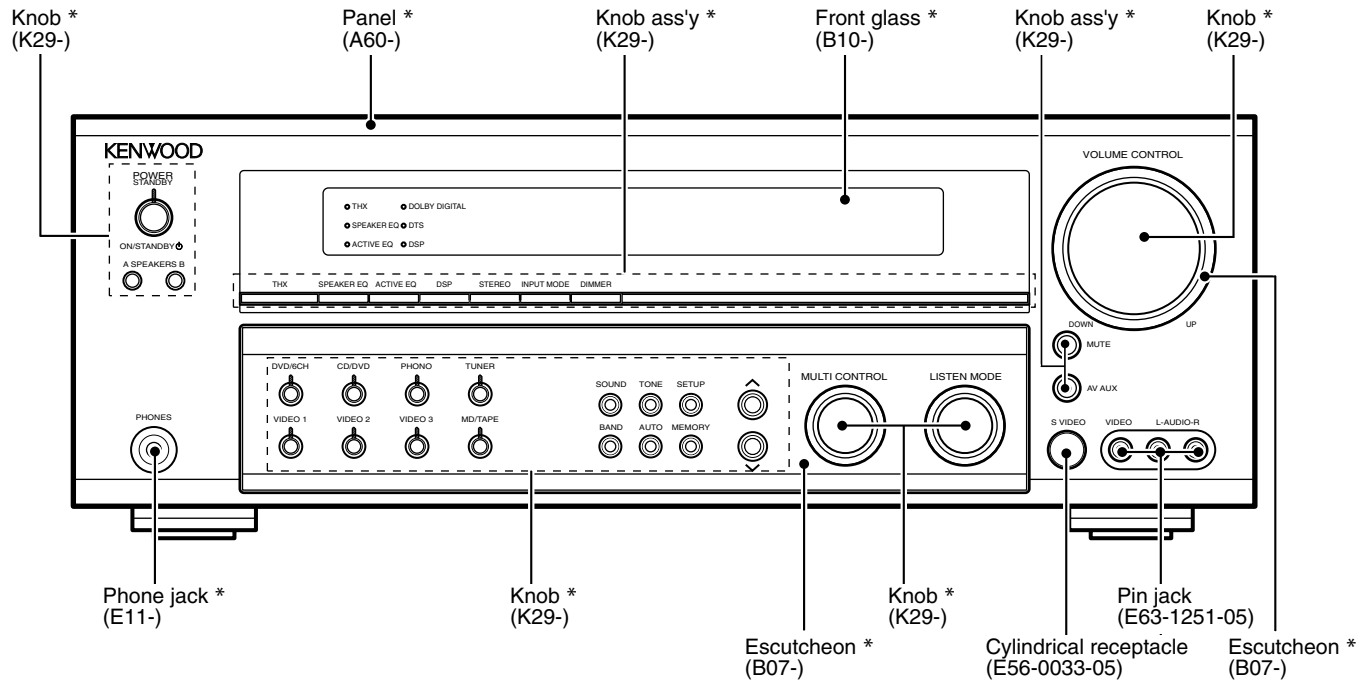
Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 1 day.

- Power mode
- Input selector settings
- Picture output
- Speaker ON/OFF
- Volume level
- BASS, TREBLE, INPUT level
- TONE ON/OFF
- LOUDNESS ON/OFF
- Dimmer level
- MD/TAPE settings
- Listen mode setting
- Speaker settings
- Distance setting
- Input mode setting
- Sound mode settings
- Broadcast band
- Frequency setting
- Preset stations
- Tuning mode
- ACTIVE EQ mode
- SPEAKER EQ mode

KRF-X9080D/VR-8070/8060

EXTERNAL VIEW



Illust. is VR-8070.

* Refer to parts list on page 44.

KRF-X9080D/VR-8070/8060

ADJUSTMENT

KRF-X9080D/X9080D-S, VR-8070/8070-S

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT SETTINGS	ALIGNMENT POINTS	FIG.
AUDIO SECTION		SPEAKER : A					
<1>	IDLE CURRENT	-	CN11, FL ch. CN10, FR ch. CN14, SL ch. CN13, SR ch. CN12, C ch. CN15, SBL ch. X09(A/4) CN706, SBR ch. X13(F/6)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) VR6(SBL) X09(A/4) VR702(SBR) X13(F/6)	Adjust every potentiometer 10 minutes later after turned the power on.	

VR-8060-S

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AUDIO SECTION		SPEAKER : A					
<1>	IDLE CURRENT	-	CN11, FL ch. CN10, FR ch. CN14, SL ch. CN13, SR ch. CN12, C ch. CN15, SW ch. X09(A/5)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) VR6(SUB WOOFER) X09(A/5)	Adjust every potentiometer 10 minutes later after turned the power on.	

Idling Current Adjustment

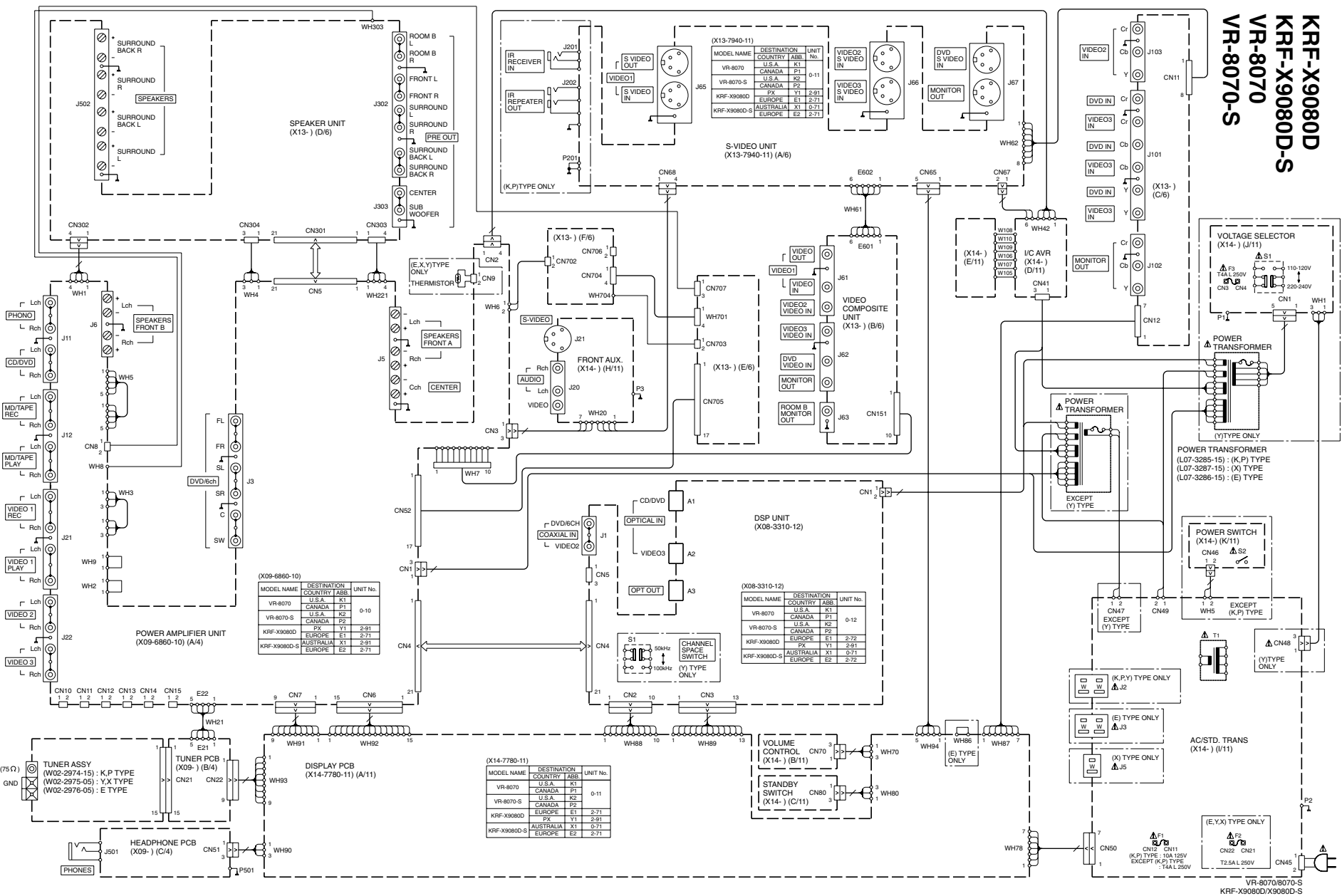
All power amplifier stage need idling current adjustment after the installation of TRAIT transistor.

1. Connect a voltmeter to CN11 with the correct polarity as indicated by the PCB silk print.
2. Adjust the preset, VR1 to get 8.8mV (Idling current = 20mA) at the voltmeter reading.
3. Repeat step 1 and 2 for all other channels.

KRF-X9080D/VR-8070/8060

INTERCONNECTION DIAGRAM

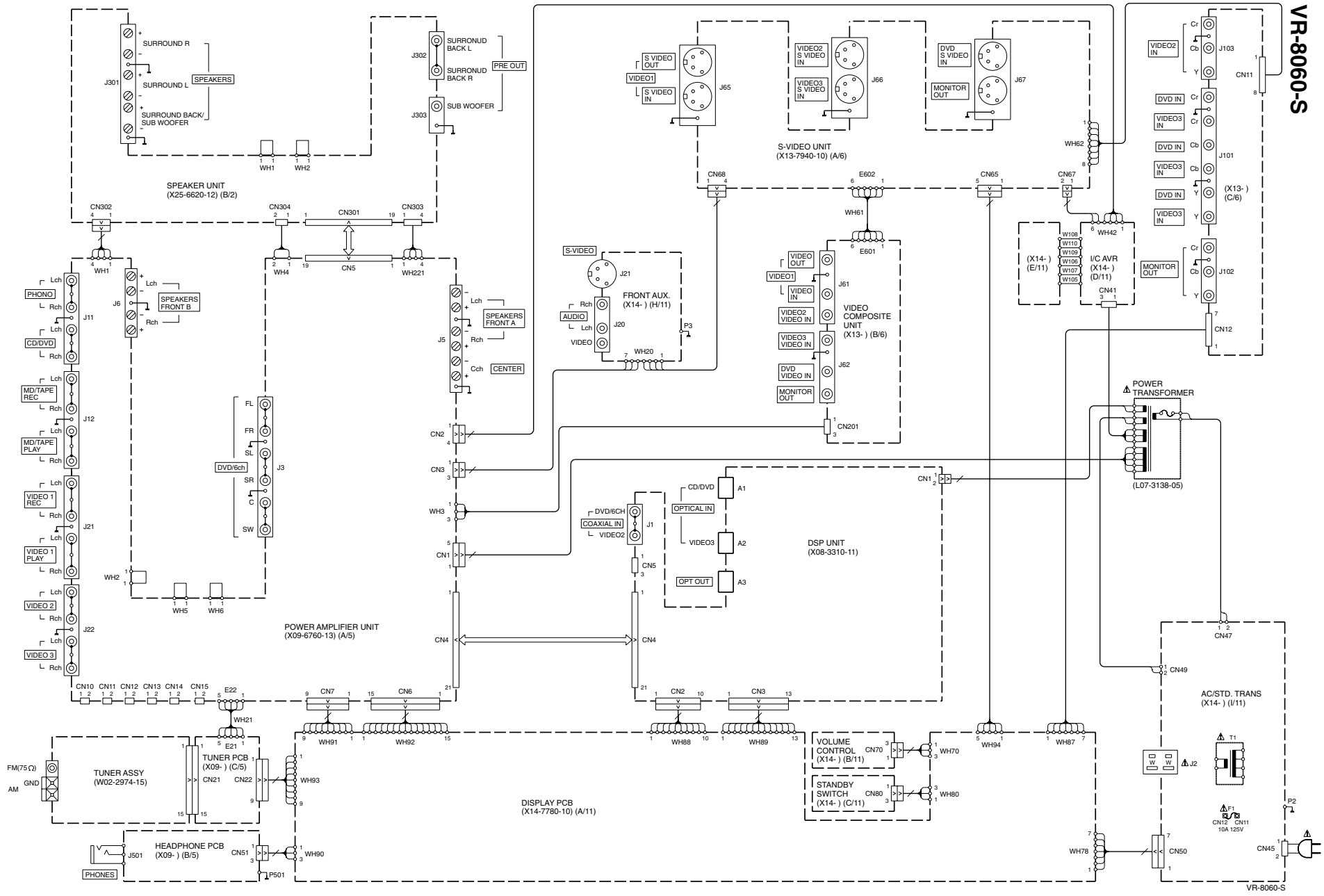
KRF-X9080D
KRF-X9080D-S
VR-8070
VR-8070-S



KRF-X9080D/VR-8070/8060

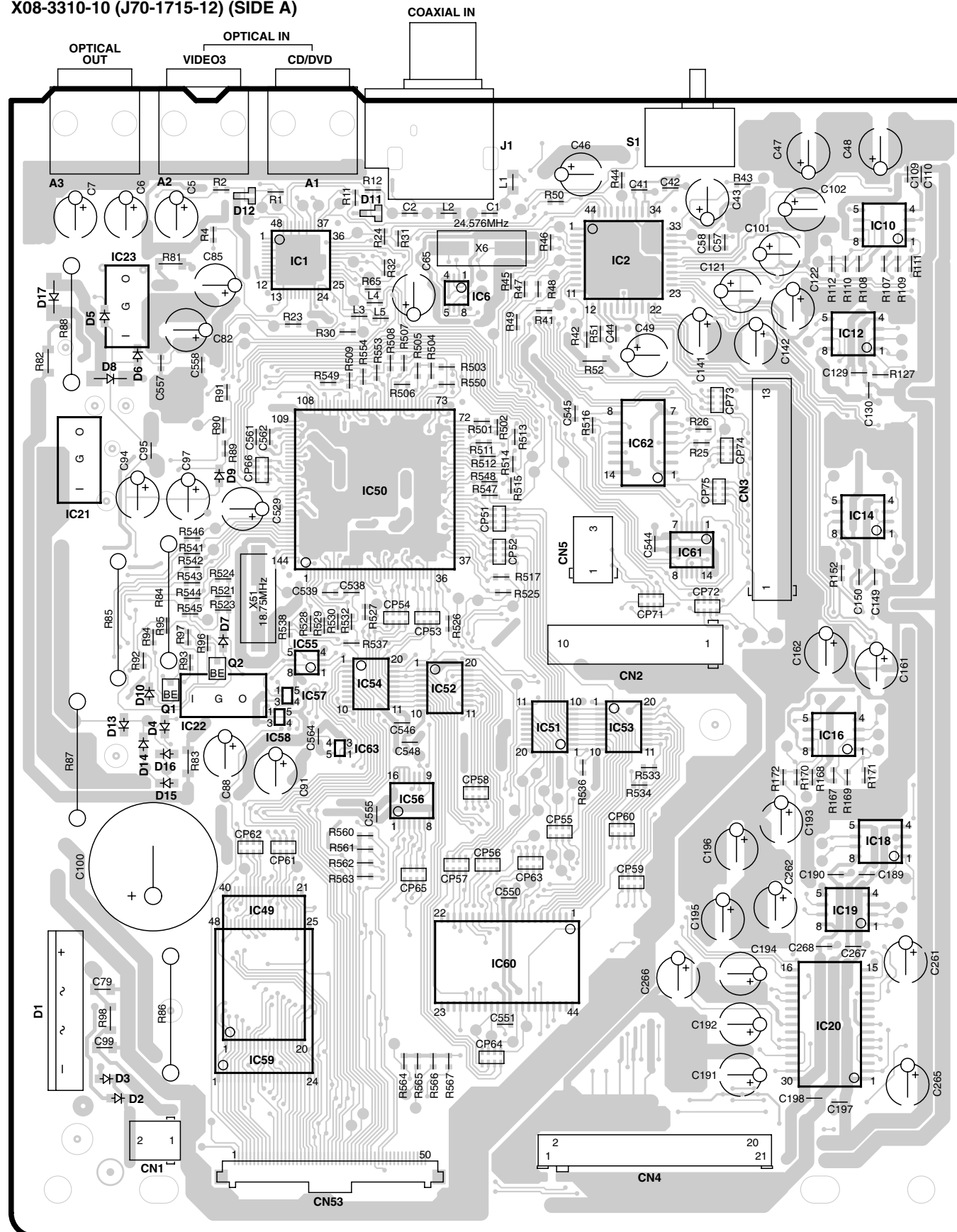
INTERCONNECTION DIAGRAM

VR-8060-S

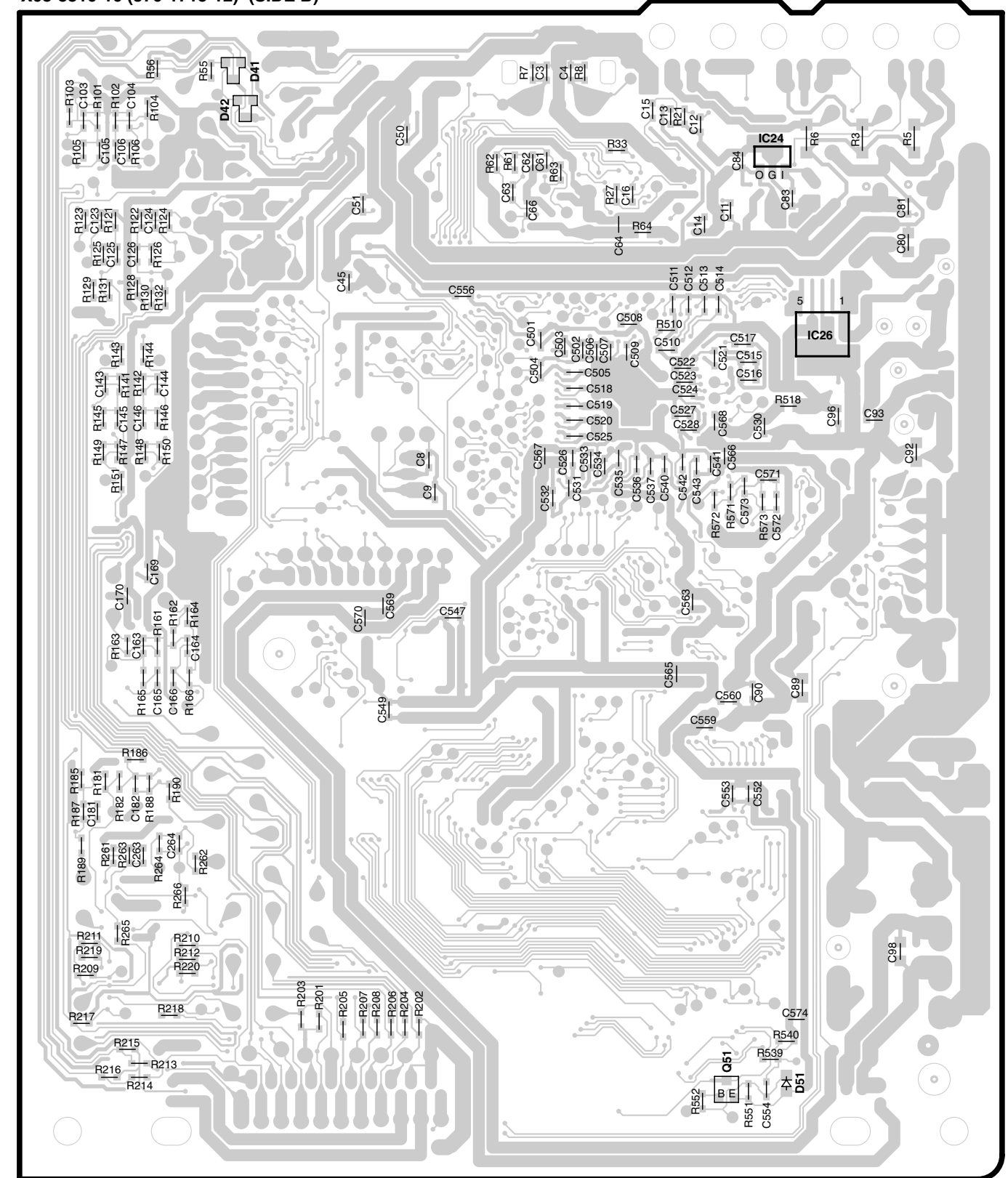


PC BOARD (Component side view)

X08-3310-10 (J70-1715-12) (SIDE A)



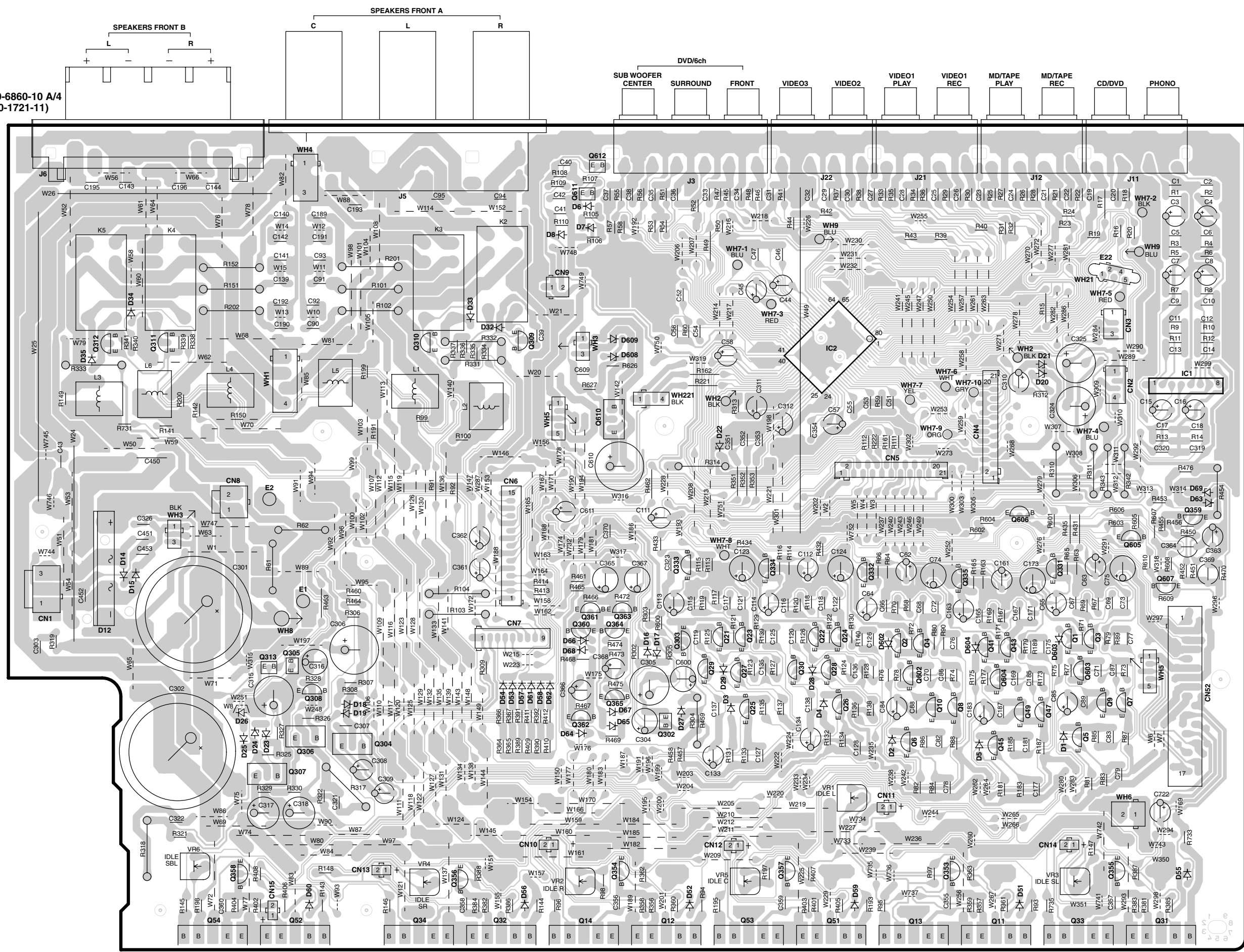
X08-3310-10 (J70-1715-12) (SIDE B)



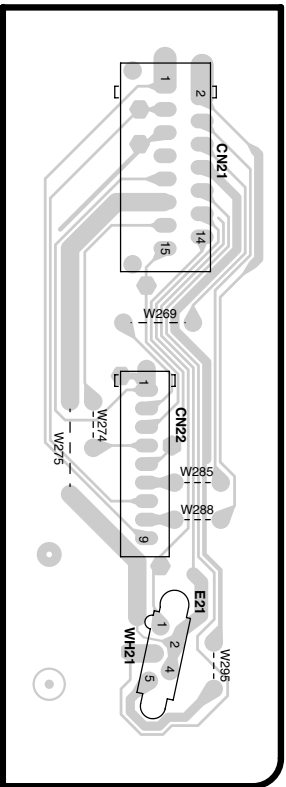
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

X09-6860-10 A/4
(J70-1721-11)

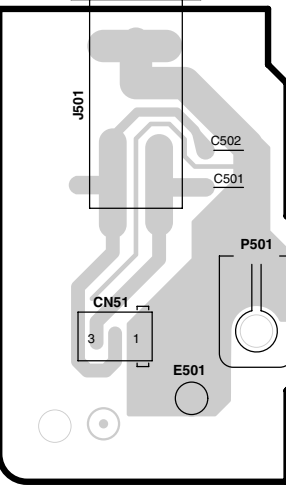


X09 B/4

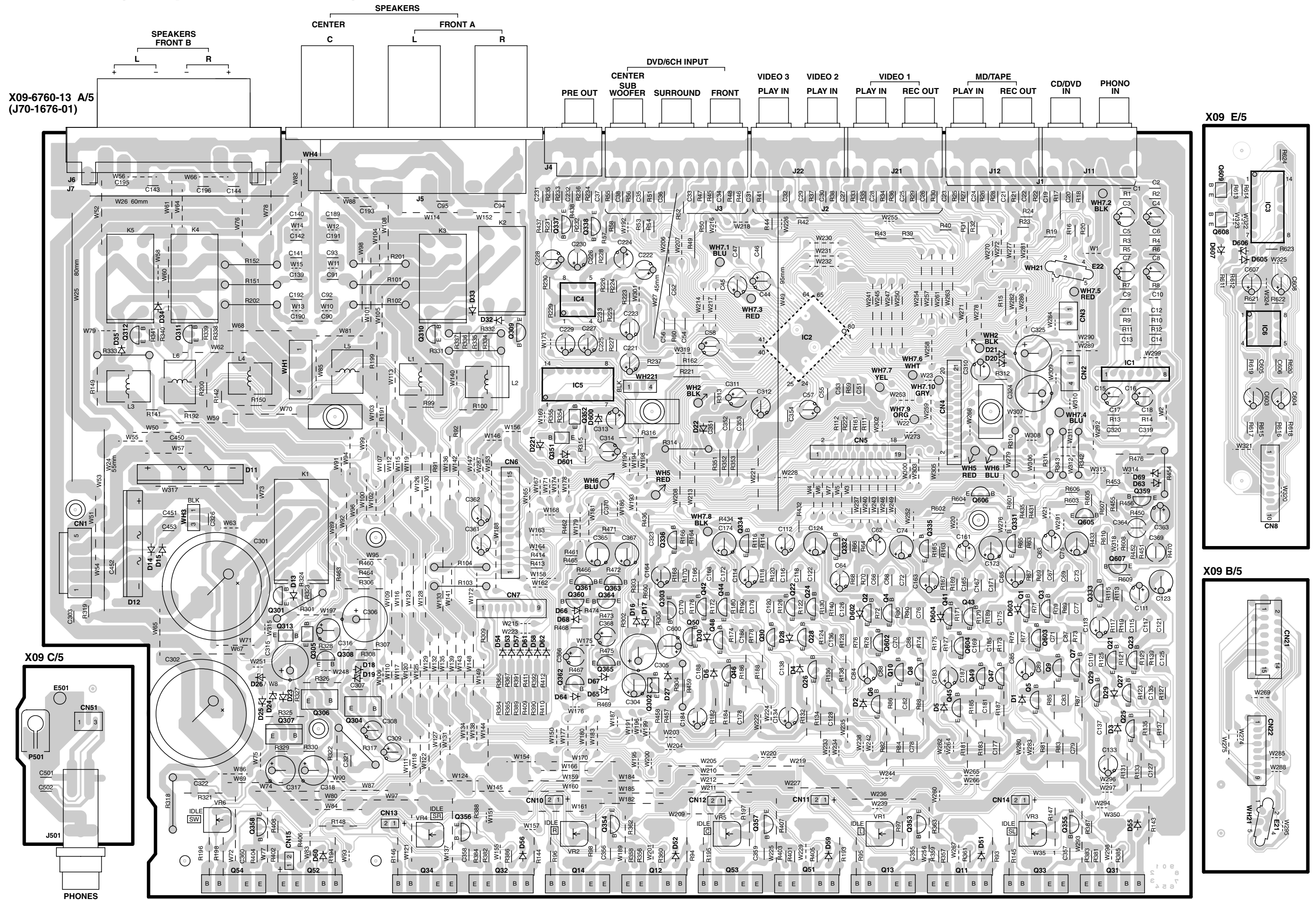


PHONES

X09 C/4

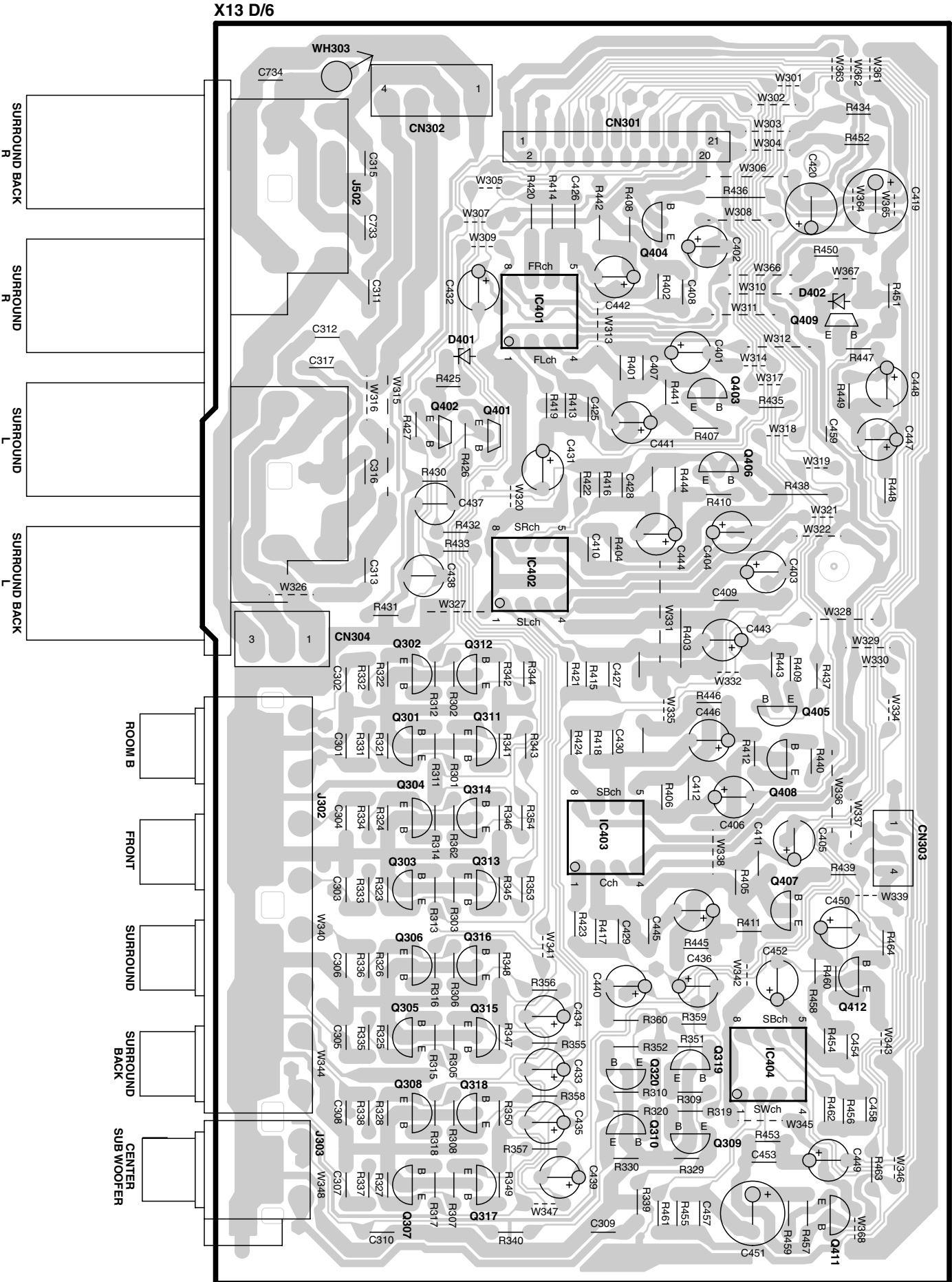
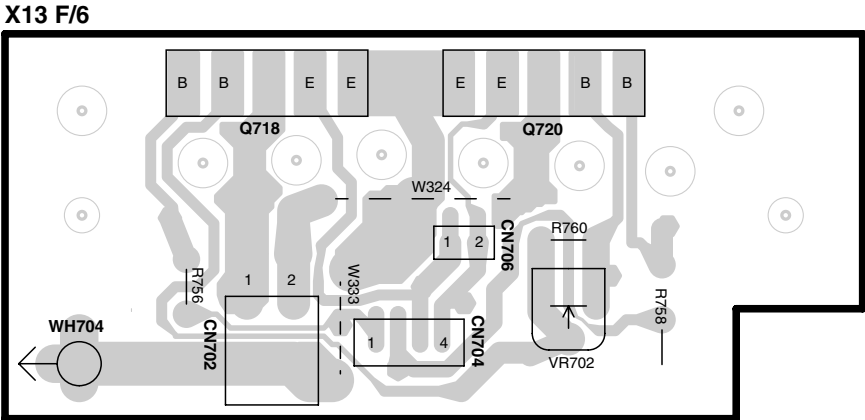
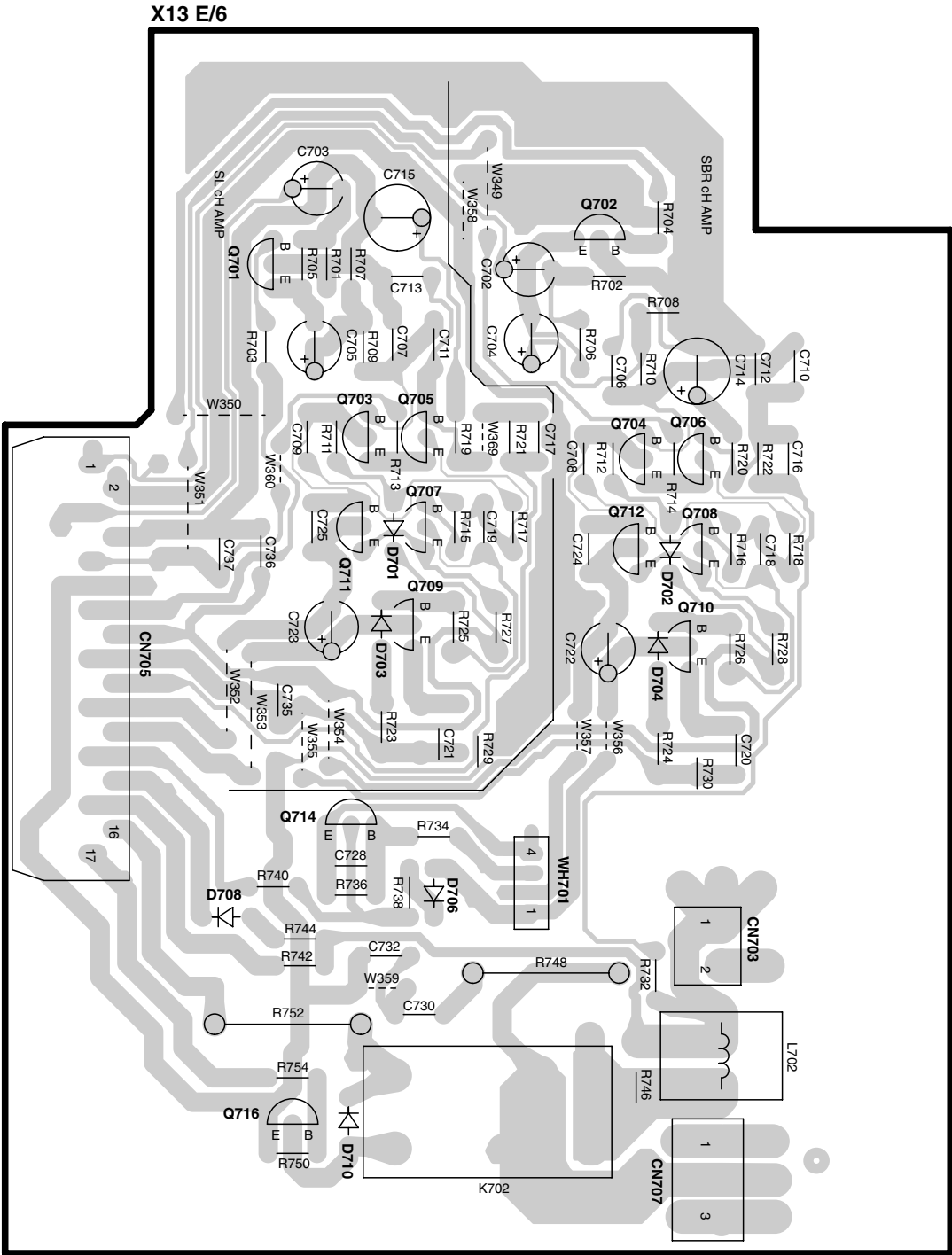


PC BOARD (Component side view)



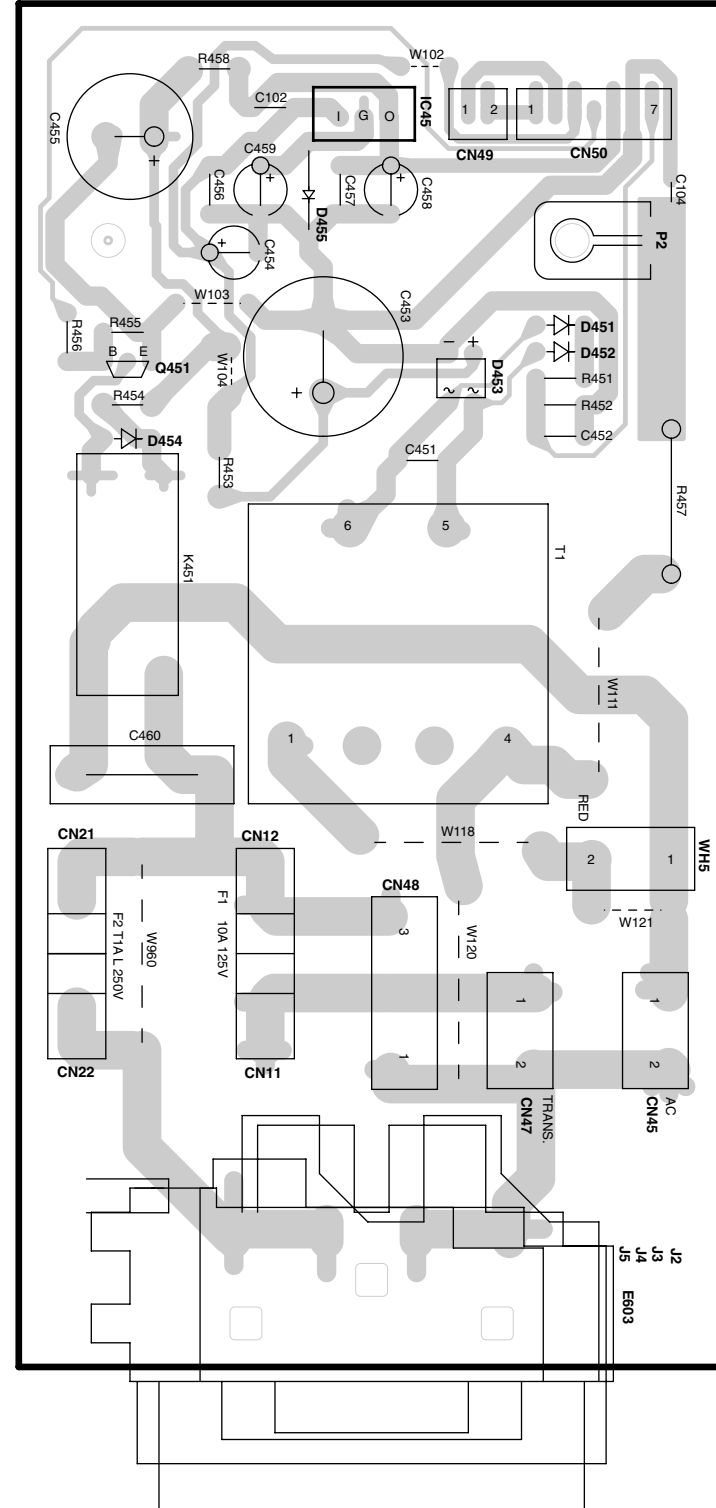
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

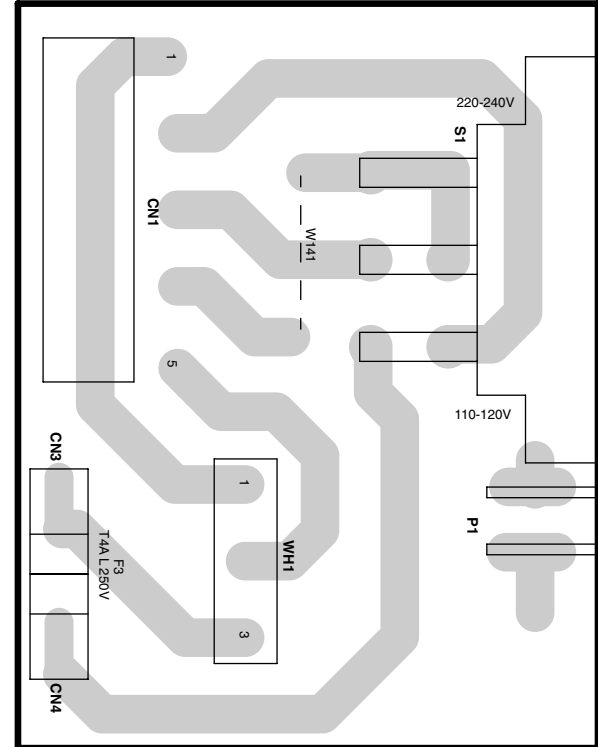


PC BOARD(Component side view)

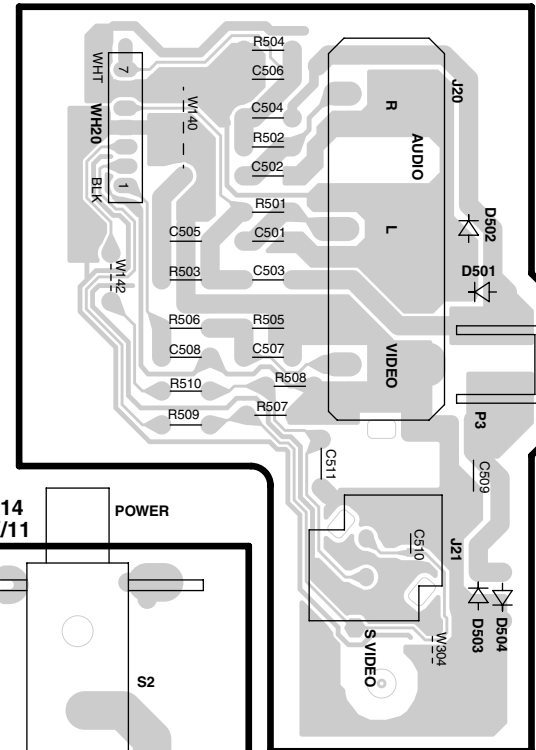
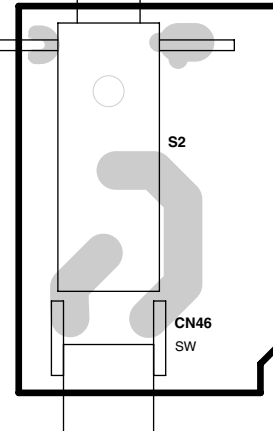
X14 I/11



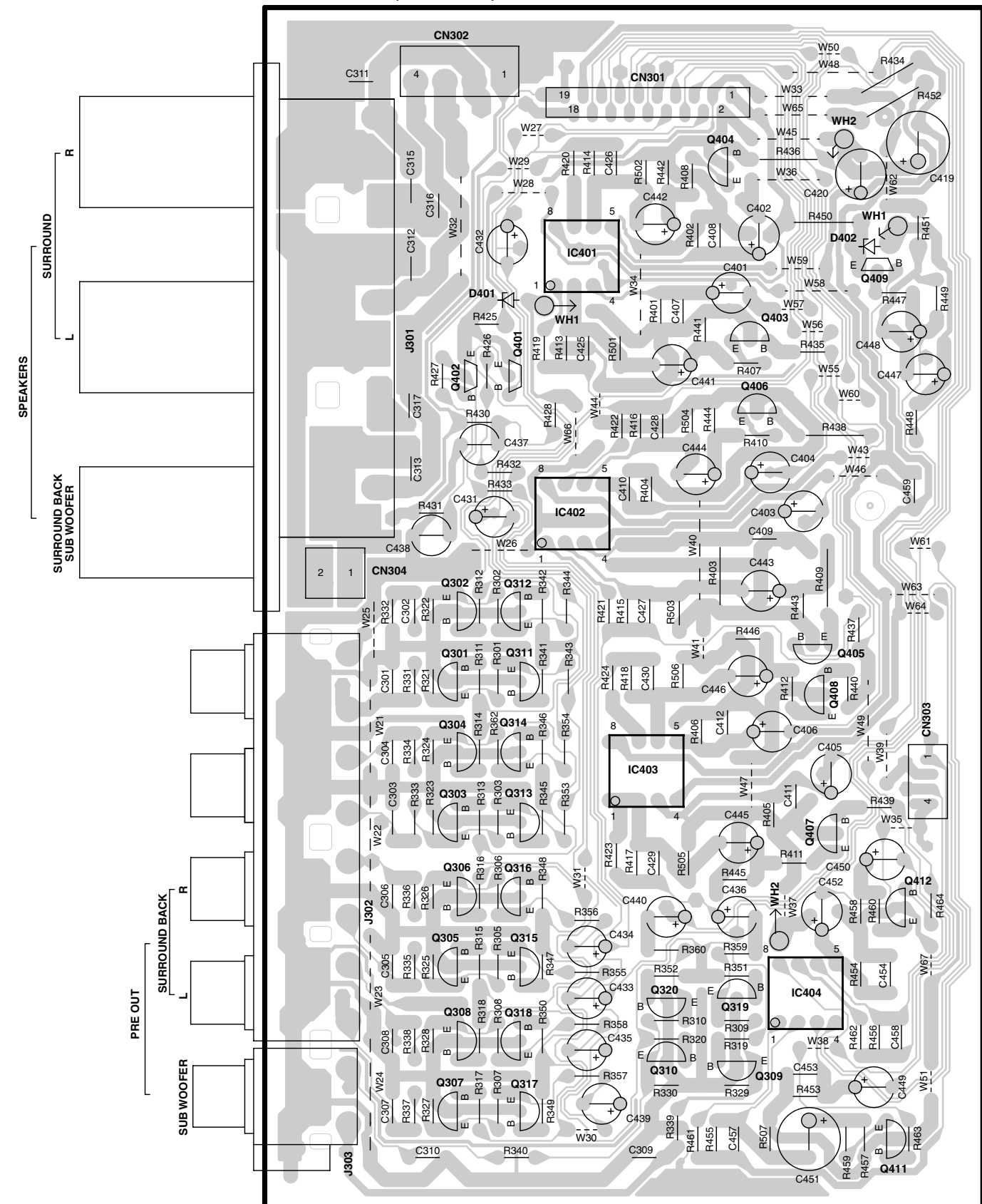
X14 J/11



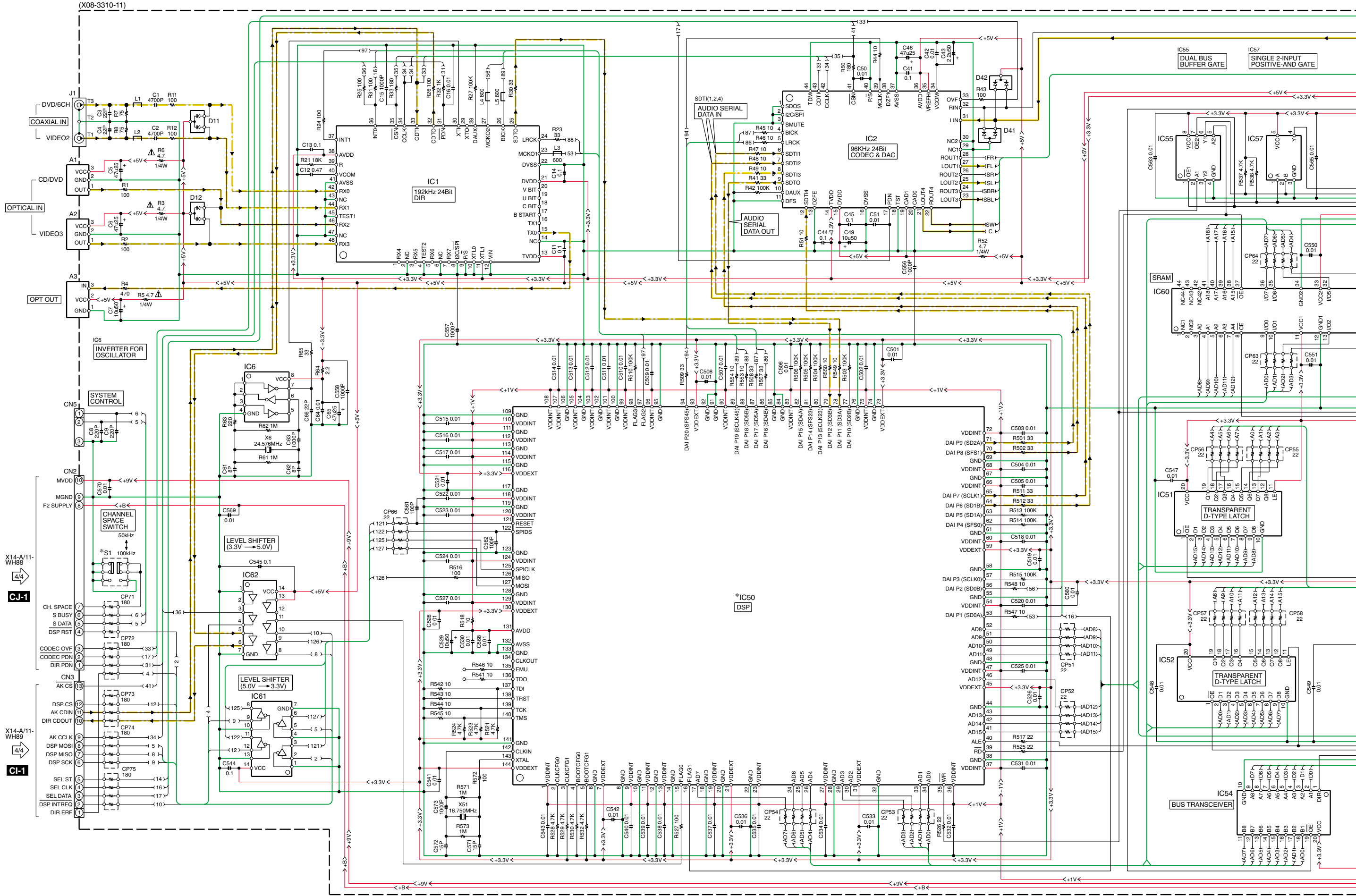
X14 H/11

X14
K/11

X25-6620-12 B/2 (J70-1704-32)



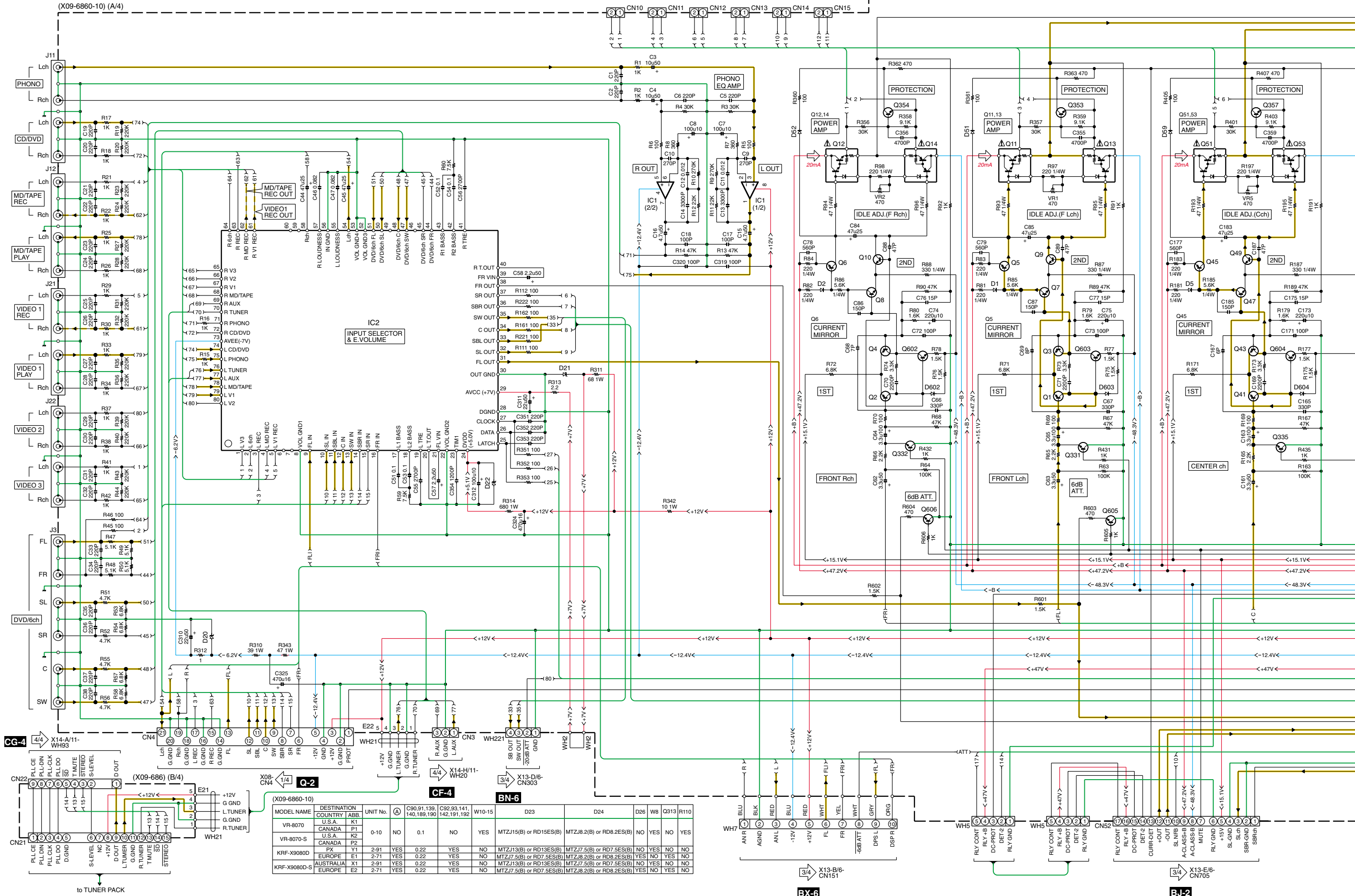
KRF-X9080D/VR-8070/8060



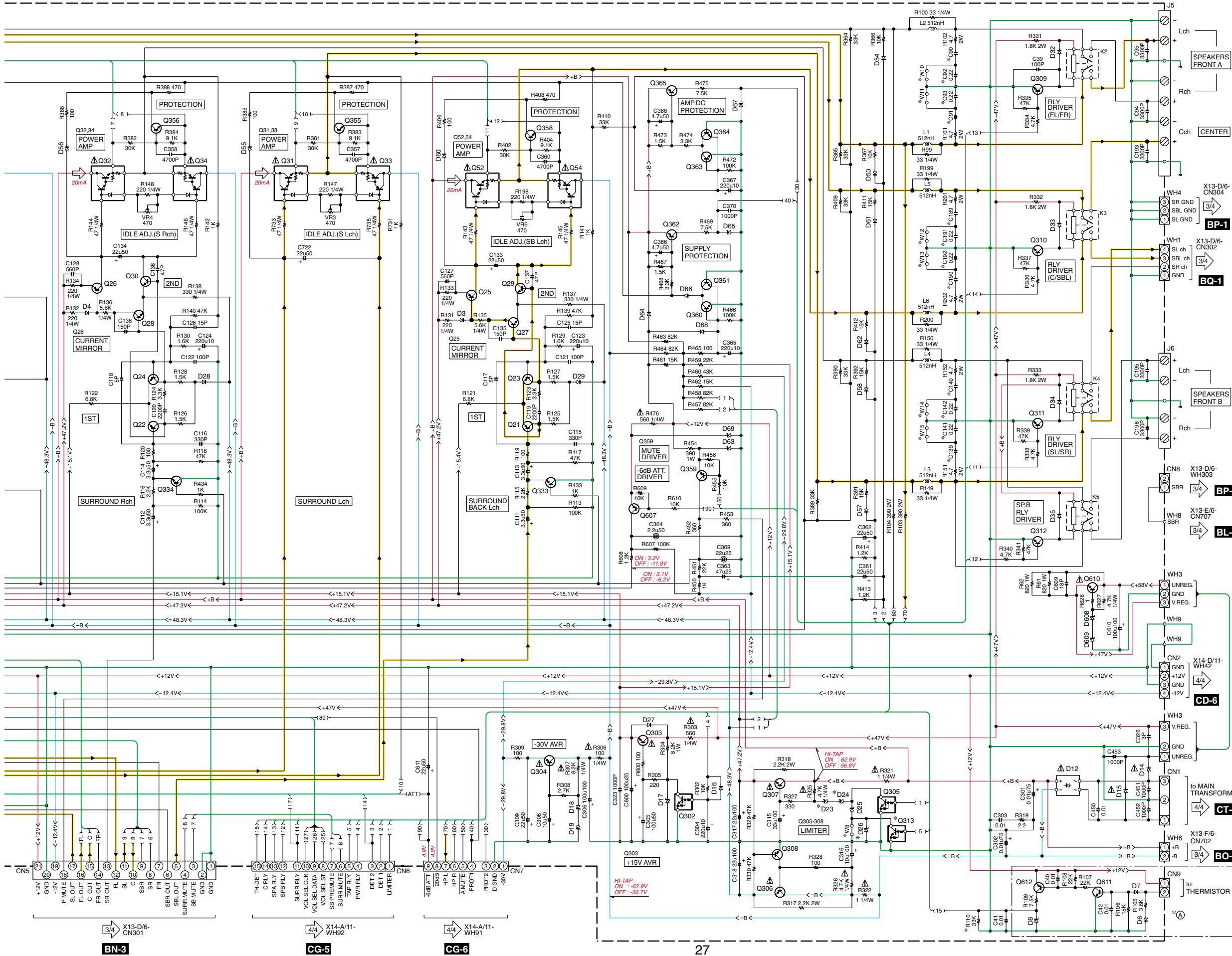
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



KRF-X9080D/VR-8070/8060



(X09-6860-10) (A/4)



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.

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(X09-686) (D/4)

IC1 : NJM4580L
IC2 : M61516FP

Q1-4,21-24,41,43,308,359,
362,365,607 : 2SA992(F,E)
Q5,6,25,26,45 : 2SA1123(R,S)
Q7-10,27-30,47,49 : 2SC2531(R,S)
Q11,12,31,32,51,52 : TRAIT3N
Q13,14,33,34,53,54 : TRAIT3P
Q302 : UN4219 or DTC113ZSA

Q303 : 2SC3940A(R,S)
Q304,306 : 2SB1640
Q305,313 : UN421N
Q307 : 2SD2525
Q309-312 : KTC3200
Q331-335,605,606 : 2SC2878(B)
Q353-358,360,361,363,364 : 2SC1845(F,E)
602-604 : 2SD2012
Q610 : 2SC1740S(Q,R) or KTC3199(Y,GR)
Q611 : 2SA933A(S,Q,R) or KTA1267(Y,GR)

D1-6,16,28,29,32-35,53,54,57,58,
61,62,64,66,68,602-604 : 1SS133 or HSS104A
D7,22 : MTZJ5.1(B)
D8,26,63,65,67,69 : RD5.1ES(B)
D12 : MTZJ3.9(B)
D14,15 : RD3.9ES(B)
D17,19 : TSPO3G-B or DSB420F03
D18 : MTZJ16(B) or RD16ES(B)
D20 : MTZJ15(B) or RD15ES(B)
D21 : MTZJ6.2(B) or RD6.2ES(B)
D23 : MTZJ6.8(B) or RD6.8ES(B)
D24 : *
D25,608 : MTZJ30(B) or RD30ES(B)
D27,51,52,55,56,59,60 : 1SS244
D609 : MTZJ20(B) or RD20ES(B)

D16,16,28,29,32-35,53,54,57,58,
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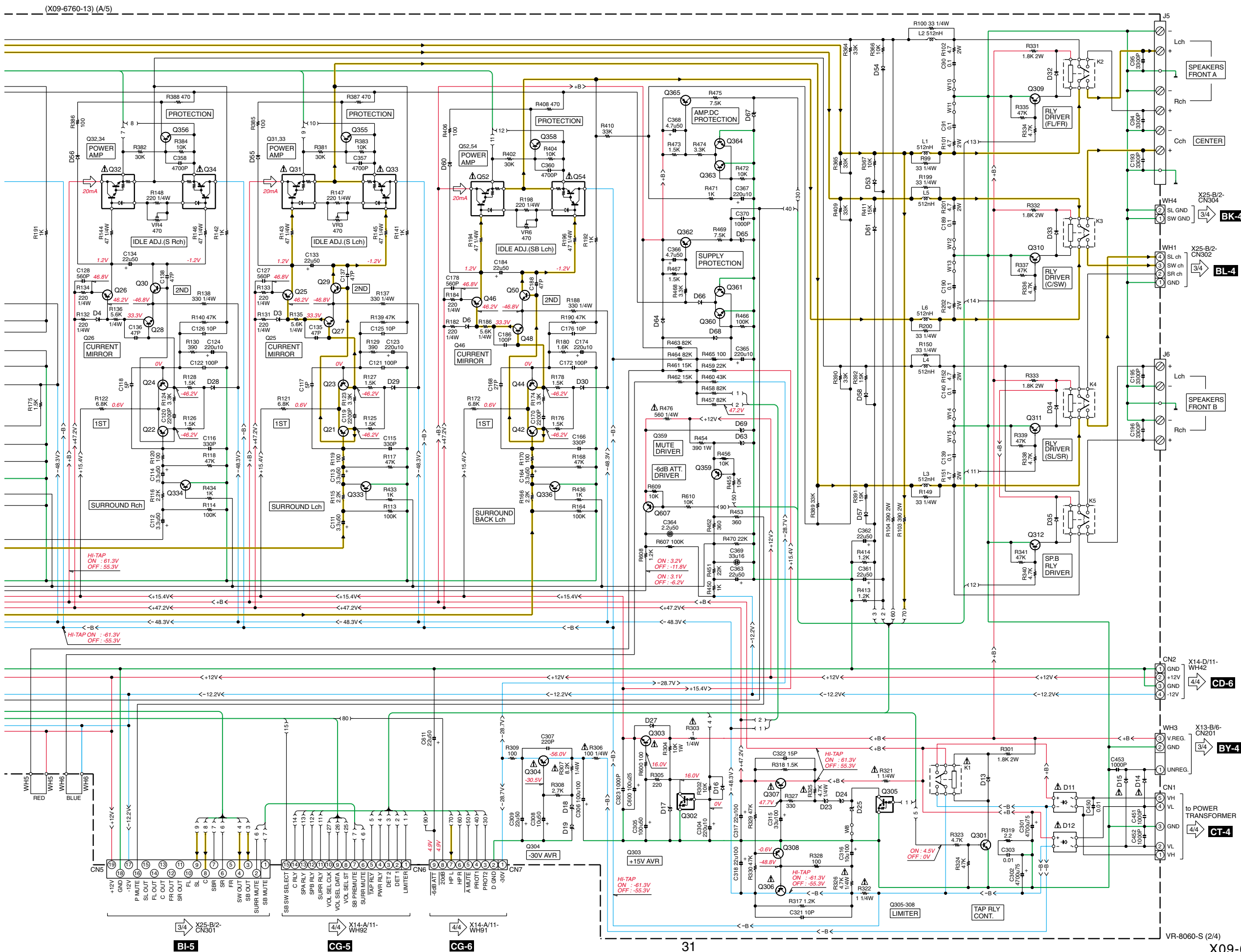
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D24 : *
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VR-8070 (2/4)
KRF-X9080D (2/4)

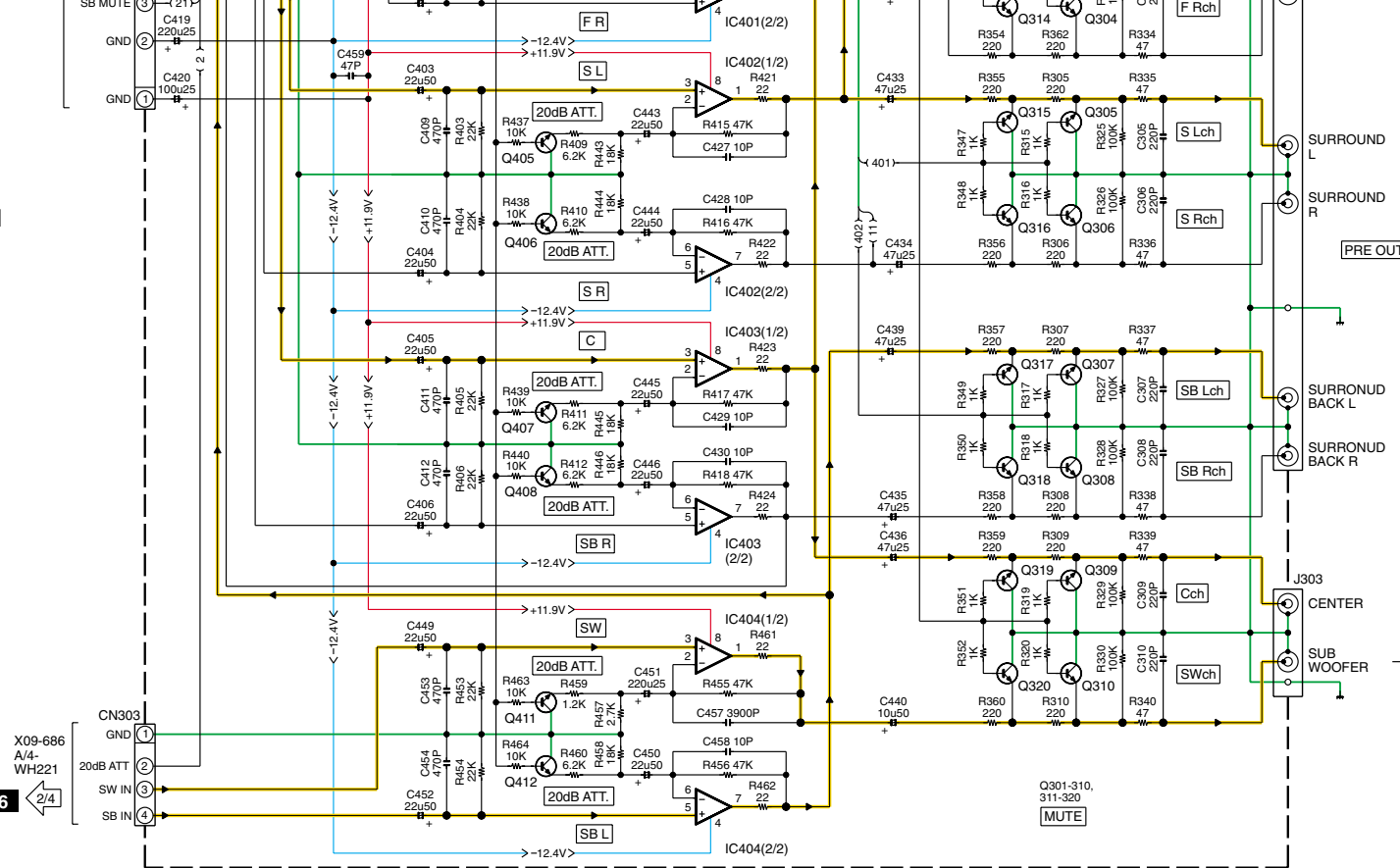
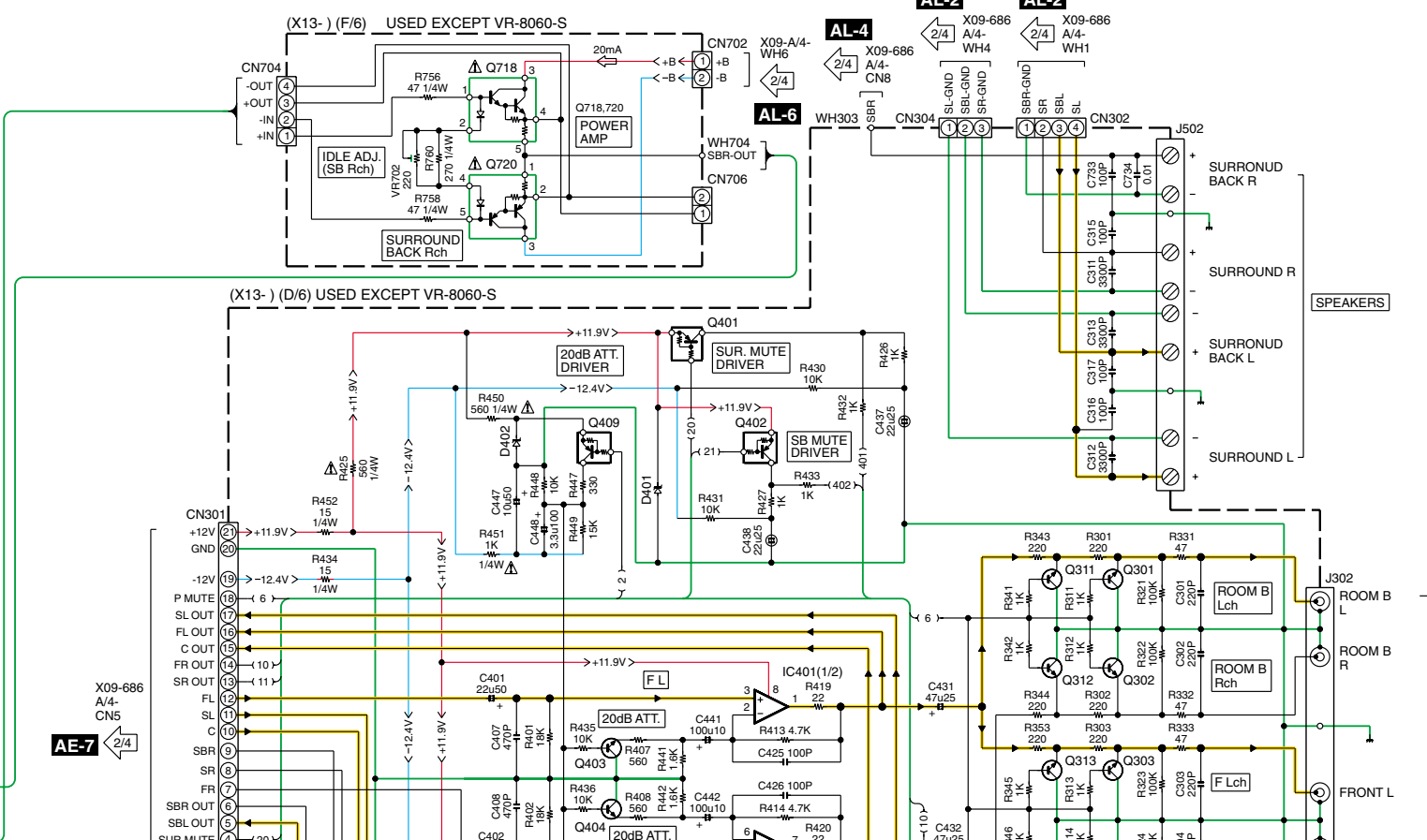
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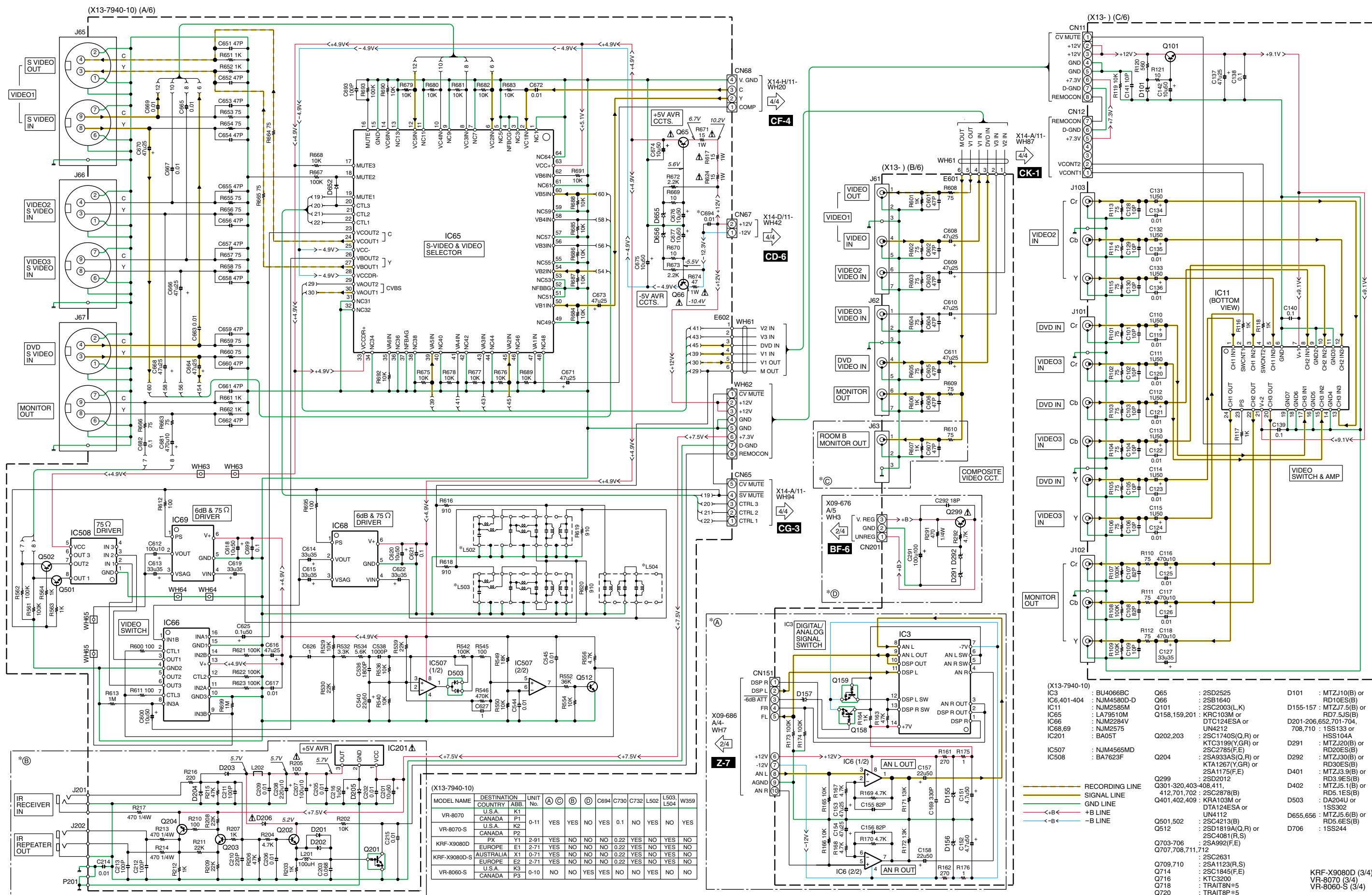




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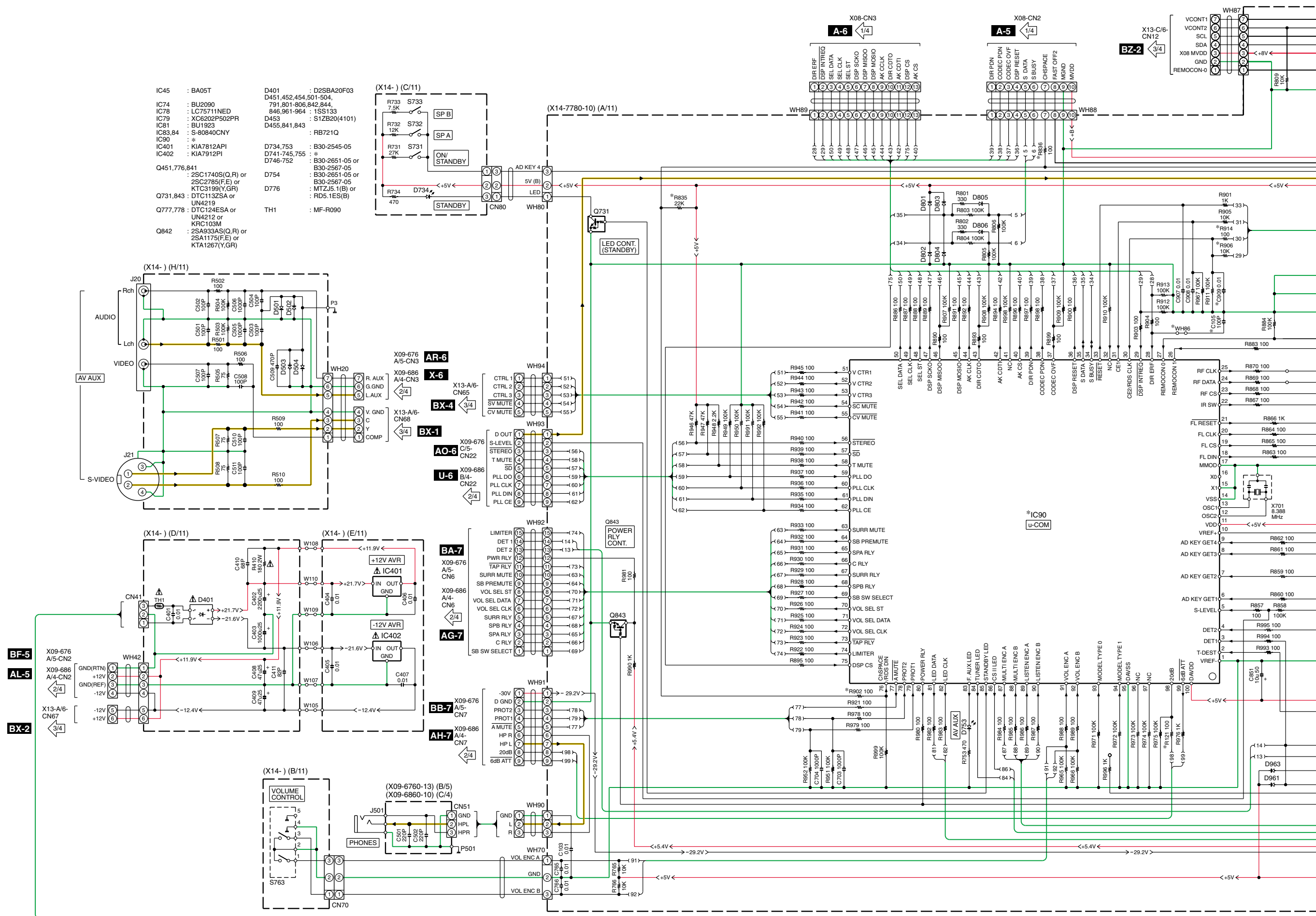


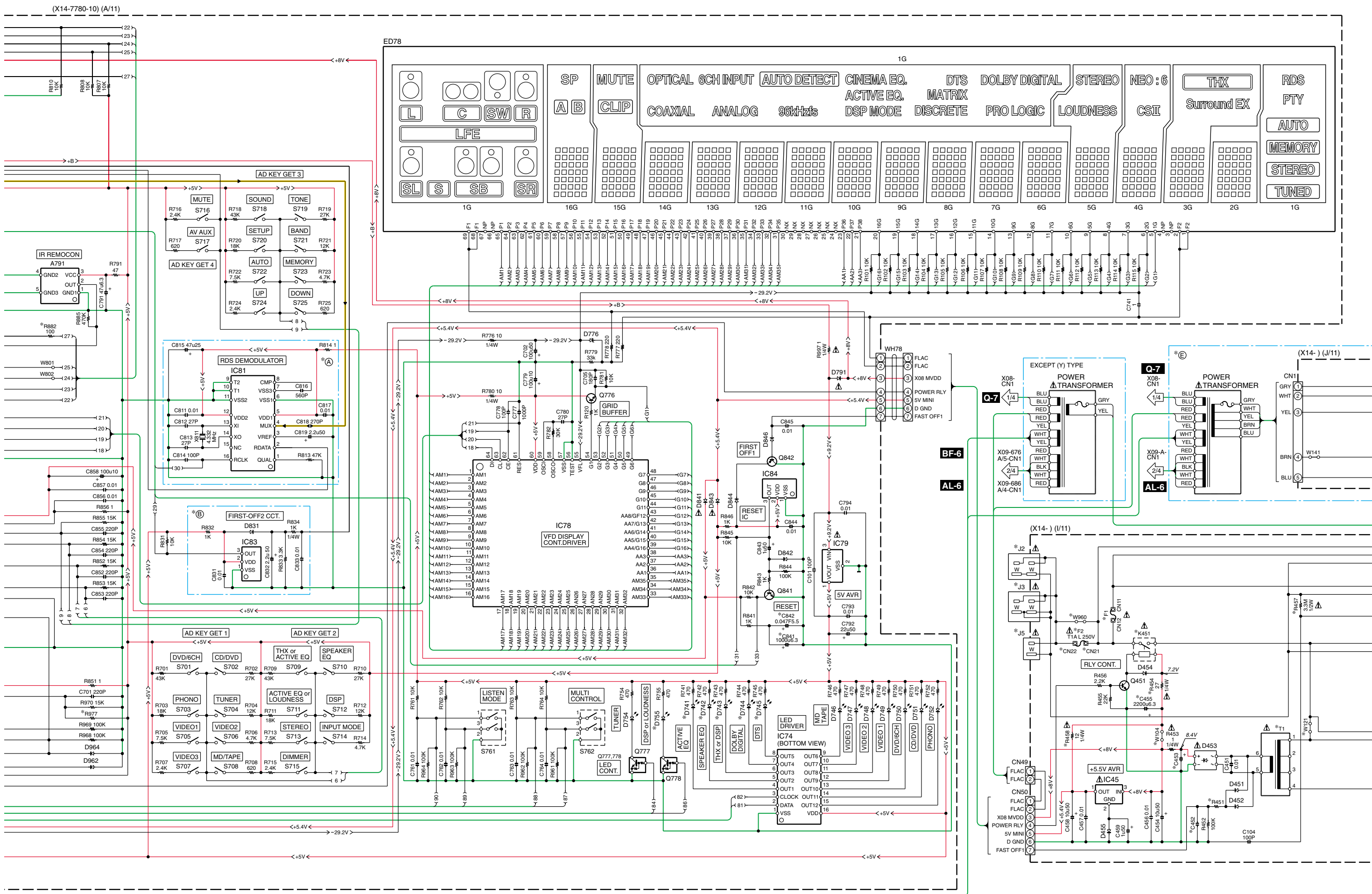


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KRF-X9080D/VR-8070/8060

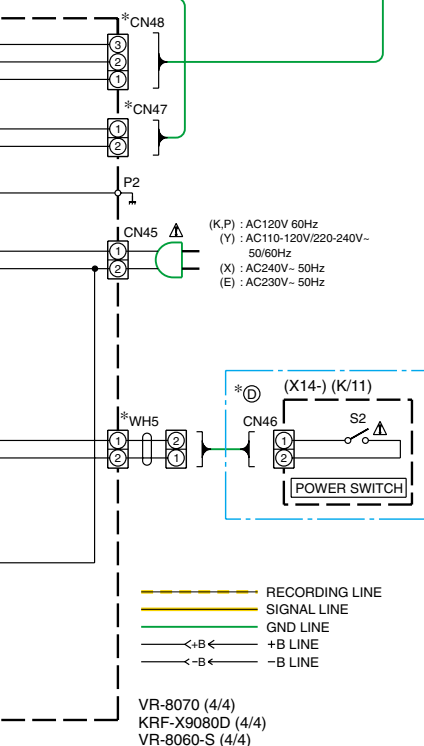
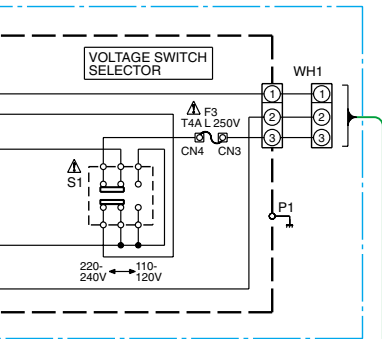
1-1	2-1	3-1	4-1	5-1
1-2	2-2	3-2	4-2	5-2
1-3	2-3	3-3	4-3	5-3
1-4	2-4	3-4	4-4	5-4
1-5	2-5	3-5	4-5	5-5
1-6	2-6	3-6	4-6	5-6
1-7	2-7	3-7	4-7	5-7

ANODE CONNECTION

	1G	2G	3G	4G	5G	6-14G	15G	16G
P1		1-1	1-1	1-1	1-1	1-1	1-1	1-1
P2		2-1	2-1	2-1	2-1	2-1	2-1	2-1
P3		3-1	3-1	3-1	3-1	3-1	3-1	3-1
P4		4-1	4-1	4-1	4-1	4-1	4-1	4-1
P5		5-1	5-1	5-1	5-1	5-1	5-1	5-1
P6		1-2	1-2	1-2	1-2	1-2	1-2	1-2
P7		2-2	2-2	2-2	2-2	2-2	2-2	2-2
P8		3-2	3-2	3-2	3-2	3-2	3-2	3-2
P9		4-2	4-2	4-2	4-2	4-2	4-2	4-2
P10		5-2	5-2	5-2	5-2	5-2	5-2	5-2
P11		1-3	1-3	1-3	1-3	1-3	1-3	1-3
P12		2-3	2-3	2-3	2-3	2-3	2-3	2-3
P13		3-3	3-3	3-3	3-3	3-3	3-3	3-3
P14		4-3	4-3	4-3	4-3	4-3	4-3	4-3
P15		5-3	5-3	5-3	5-3	5-3	5-3	5-3
P16		1-4	1-4	1-4	1-4	1-4	1-4	1-4
P17		2-4	2-4	2-4	2-4	2-4	2-4	2-4
P18	OPTICAL	3-4	3-4	3-4	3-4	3-4	3-4	3-4
P19	COAXIAL	4-4	4-4	4-4	4-4	4-4	4-4	4-4
P20	6CH INPUT	5-4	5-4	5-4	5-4	5-4	5-4	5-4
P21	ANALOG	1-5	1-5	1-5	1-5	1-5	1-5	1-5
P22	AUTO DETECT	2-5	2-5	2-5	2-5	2-5	2-5	2-5
P23		3-5	3-5	3-5	3-5	3-5	3-5	3-5
P24	CINEMA EQ	4-5	4-5	4-5	4-5	4-5	4-5	4-5
P25	ACTIVE EQ	5-5	5-5	5-5	5-5	5-5	5-5	5-5
P26	DSP MODE	1-6	1-6	1-6	1-6	1-6	1-6	1-6
P27	DTX	2-6	2-6	2-6	2-6	2-6	2-6	2-6
P28	MATRIX	3-6	3-6	3-6	3-6	3-6	3-6	3-6
P29	DISCRETE	4-6	4-6	4-6	4-6	4-6	4-6	4-6
P30	DOLBY DIGITAL	5-6	5-6	5-6	5-6	5-6	5-6	5-6
P31	PRO LOGIC	1-7	1-7	1-7	1-7	1-7	1-7	1-7
P32		2-7	2-7	2-7	2-7	2-7	2-7	2-7
P33	RDS	3-7	3-7	3-7	3-7	3-7	3-7	3-7
P34	PTY	4-7	4-7	4-7	4-7	4-7	4-7	4-7
P35	AUTO	5-7	5-7	5-7	5-7	5-7	5-7	5-7
P36	MEMORY	—	THX	NEO:6	LOUDNESS	—	MUTE	SP
P37	STEREO	—	Surround EX	CSX	STEREO	—	CLIP	A
P38	TUNED	—	—	—	—	—	—	B

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.



(X14-7780-10)

MODEL NAME	DESTINATION		UNIT No.	A	B	E	D	C105	C452	C453	C455, 909	C841	C842	CN21 22	CN47	CN48	D741-745, 755
	COUNTRY	ABB															
VR-8060-S	U.S.A.	K3	0-10	NO	NO	NO	NO	0.1	3300u16	NO	YES	NO	NO	YES	NO	B30-2545-05	
VR-8070	CANADA	P3															
VR-8070-S	U.S.A.	K1	0-11	NO	NO	NO	NO	0.1	3300u16	NO	YES	NO	NO	YES	NO	B30-2545-05	
	CANADA	P1															
KRF-X9080D	U.S.A.	K2	2-71	YES	NO	YES	YES	0.039	3300u25	NO	NO	YES	YES	YES	NO	B30-2651-05	
	EUROPE	E2															
KRF-X9080D-S	AUSTRALIA	X1	0-71	NO	NO	YES	NO	0.047	3300u25	NO	NO	YES	YES	YES	NO	B30-2545-05	
	EUROPE	E2															

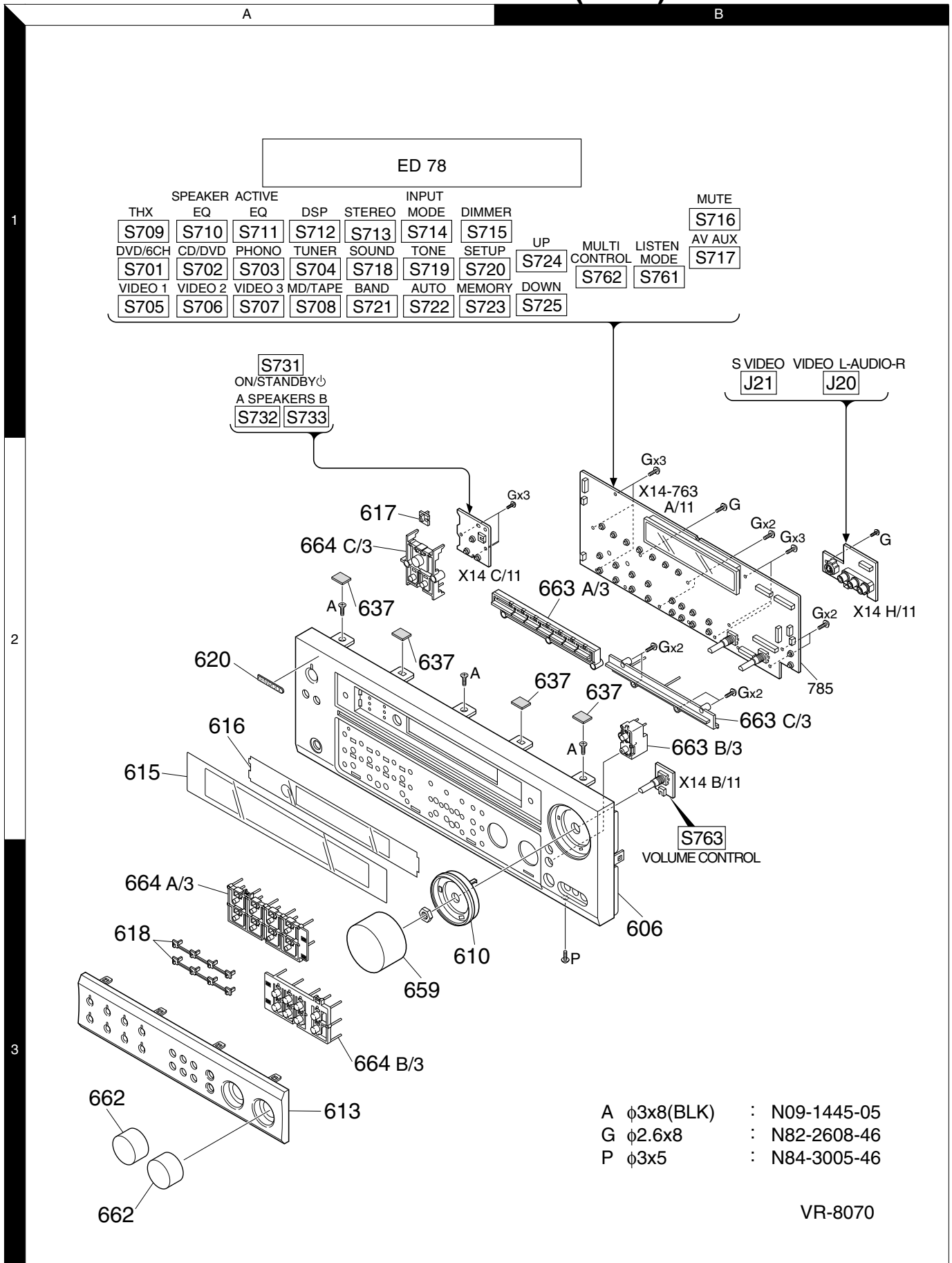
(X14-7780-10)

MODEL NAME	DESTINATION COUNTRY ABB.	UNIT No.	F1	F2	IC90	J2	J3	J5	K451	P1	R121	R451	R454	R457
VR-8060-S	U.S.A. K3	0-10	125V 10A	NO	MN101C49HNJ2	YES	NO	NO	S76-0107-05	NO	NO	39K	27	YES
VR-8070	CANADA P3													
VR-8070-S	U.S.A. K1	0-11	125V 10A	NO	MN101C49HNK	YES	NO	NO	S76-0107-05	NO	YES	39K	27	YES
VR-8070-S	CANADA P1													
KRF-X9080D	U.S.A. K2	2-71	250V T4AL	YES	MN101C49HNK	NO	YES	NO	S76-0110-05	NO	YES	130K	27	NO
KRF-X9080D-S	EUROPE E1	2-91	250V T4AL	YES	MN101C49HNK	YES	NO	NO	S76-0110-05	YES	YES	18K	15	NO
KRF-X9080D-S	AUSTRALIA X1	0-71	250V T4AL	YES	MN101C49HNK	NO	NO	YES	S76-0110-05	NO	YES	150K	27	NO
KRF-X9080D-S	EUROPE E2	2-71	250V T4AL	YES	MN101C49HNK	NO	YES	NO	S76-0110-05	NO	YES	130K	27	NO

(X14-7780-10)

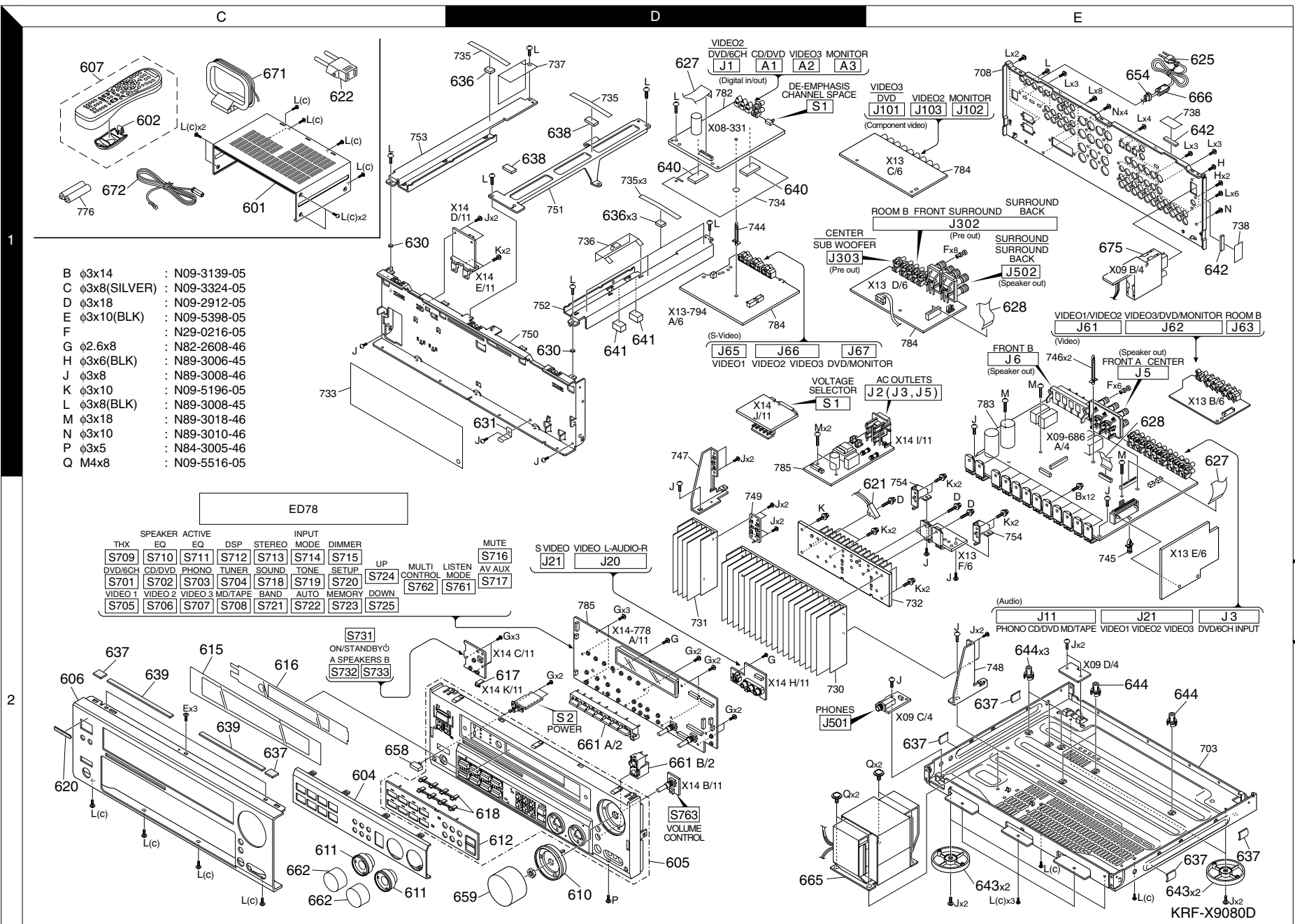
MODEL NAME	DESTINATION COUNTRY ABB.	UNIT No.	R458, 836	R831, 835, 906	R882	R902	R914	R977	T1	W104	W121	W960	WH5	WH86
VR-8060-S	U.S.A. K3	0-10	NO	NO	NO	NO	NO	NO	L07-2809-05	YES	YES	YES	NO	NO
VR-8070	CANADA P3													
VR-8070-S	U.S.A. K1	0-11	NO	NO	YES	NO	NO	NO	L07-2809-05	YES	YES	YES	NO	NO
VR-8070-S	CANADA P1													
KRF-X9080D	U.S.A. K2	2-71	NO	NO	NO	YES	YES	27K	L07-2761-05	YES	NO	NO	YES	YES
KRF-X9080D-S	EUROPE E1	2-91	YES	YES	NO	YES	NO	12K	L07-2805-05	NO	NO	NO	YES	NO
KRF-X9080D-S	AUSTRALIA X1	0-71	NO	YES	NO	YES	NO	4.7K	L07-2758-05	YES	NO	NO	YES	NO
KRF-X9080D-S	EUROPE E2	2-71	NO	NO	NO	YES	YES	27K	L07-2761-05	YES	NO	NO	YES	YES

EXPLODED VIEW (UNIT)



KRF-X9080D/MR-8070/8060

EXPLODED VIEW (UNIT)



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①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
KRF-X9080D/VR-8070/VR-8060						
601	1C	*	A01-3935-01	METALLIC CABINET	K1P1	
601	1C	*	A01-3936-01	METALLIC CABINET	7K2P2	
601	1C	*	A01-3937-01	METALLIC CABINET	Y1E1	
601	1C	*	A01-3938-01	METALLIC CABINET	X1E2	
602	1C		A09-1274-08	BATTERY COVER		
604	2C		A21-3982-12	DRESSING PANEL	Y1E1	
604	2C		A21-3983-12	DRESSING PANEL	X1E2	
605	2D		A22-1873-01	SUB PANEL ASSY	Y1E1	
605	2D		A22-1874-01	SUB PANEL ASSY	X1E2	
606	2B	*	A60-2378-01	PANEL	7	
606	2B	*	A60-2383-11	PANEL	K1P1	
606	2B	*	A60-2384-11	PANEL	K2P2	
606	2C	*	A60-2408-02	PANEL	Y1E1	
606	2C	*	A60-2409-02	PANEL	X1E2	
607	1C		A70-1620-05	REMOTE CONTROLLER ASSY	Y1X1	
607	1C		A70-1621-05	REMOTE CONTROLLER ASSY	E1E2	
607	1C	*	A70-1622-05	REMOTE CONTROLLER ASSY	7	
607	1C	*	A70-1659-05	REMOTE CONTROLLER ASSY	9	
-		*	B60-5453-00	INST. MANUAL (EN)	9	
-		*	B60-5454-00	INST. MANUAL EN,FR,GE,NE,IT,ES	E1E2	
-		*	B60-5455-00	INST. MANUAL (EN)	Y1X1	
-		*	B60-5457-00	INST. MANUAL (FR)	P1P2	
-		*	B60-5470-00	INST. MANUAL (EN)	7	
-		*	B60-5471-00	INST. MANUAL (FR)	P3	
-		*	B60-5472-00	INST. MANUAL (TC)	Y1	
610	2D		B07-2606-03	ESCUTCHEON	E1	
610	3A,2D		B07-2606-03	ESCUTCHEON	K1P1Y1	
610	2D		B07-2607-03	ESCUTCHEON	X1E2	
610	3A		B07-2607-03	ESCUTCHEON	7K2P2	
611	2C		B07-2608-03	ESCUTCHEON	Y1E1	
611	2C		B07-2609-03	ESCUTCHEON	X1E2	
612	2D		B07-2619-13	ESCUTCHEON	Y1E1	
612	2D		B07-2620-13	ESCUTCHEON	X1E2	
613	3A		B07-2689-01	ESCUTCHEON	K1P1	
613	3A	*	B07-2690-01	ESCUTCHEON	7K2P2	
615	2A	*	B10-5508-02	FRONT GLASS	K2P2	
615	2A	*	B10-5509-02	FRONT GLASS	K11P1	
615	2A	*	B10-5510-02	FRONT GLASS	7	
615	2C	*	B10-5513-02	FRONT GLASS	E1	
615	2C	*	B10-5525-02	FRONT GLASS	E2	
615	2C	*	B10-5528-02	FRONT GLASS	X1	
615	2C	*	B10-5529-02	FRONT GLASS	Y1	
616	2A		B11-1598-03	COLOR FILTER	7	
616	2A,2C	*	B11-1600-03	COLOR FILTER	89	
617	2D		B12-0440-04	INDICATOR	8	
617	2A		B12-0484-14	INDICATOR	79	
618	2D		B12-0442-04	INDICATOR	8	
618	3A		B12-0486-03	INDICATOR	79	
620	2A,2C		B43-0336-04	BADGE		
622	1C		E03-0508-05	AC PLUG ADAPTER	Y1	
625	1E		E30-2717-05	AC POWER CORD	X1	
625	1E		E30-2941-05	AC POWER CORD	79	

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625	1E	*	E30-2942-05	AC POWER CORD	E1E2	
625	1E	*	E30-7312-05	AC POWER CORD	Y1	
627	1D,1E		E35-3216-05	FLAT CABLE (21P,180MM)		
628	1E		E35-3675-05	FLAT CABLE (19P,220MM)	7	
628	1E	*	E35-3694-05	FLAT CABLE (21P,220MM)	89	
630	1C,1D		F29-0134-04	INSULATING WASHER		
631	1D		G02-1748-04	FLAT SPRING	8	
636	1D		G11-2416-04	CUSHION		
637	2C,2E		G11-2885-04	CUSHION		
638	1D		G11-2886-04	CUSHION	8	
639	2C		G11-2887-04	CUSHION		
640	1D		G11-2916-04	CUSHION		
641	1D		G11-2958-04	CUSHION	89	
642	1E	*	G11-2959-04	CUSHION	79	
-			H10-7888-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-7890-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		*	H50-4912-24	ITEM CARTON CASE	K1P1	
-		*	H50-4913-24	ITEM CARTON CASE	K2P2	
-		*	H50-4914-04	ITEM CARTON CASE	E1	
-		*	H50-4915-04	ITEM CARTON CASE	E2	
-		*	H50-4916-04	ITEM CARTON CASE	X1	
-		*	H50-4917-04	ITEM CARTON CASE	Y1	
-		*	H50-4918-14	ITEM CARTON CASE	7	
643	2E		J02-1532-03	FOOT		
644	2E		J19-3751-04	UNIT HOLDER		
654	1E		J42-0349-05	POWER CORD BUSHING		
658	2C		K27-2384-04	BUTTON KNOB	Y1E1	
658	2C		K27-2481-04	BUTTON KNOB	X1E2	
659	3A		K29-8104-04	KNOB	7	
659	3A,2D		K29-8267-04	KNOB	K1P1Y1	
659	3A		K29-8268-04	KNOB	K2P2	
659	2D		K29-8268-04	KNOB	X1E2	
659	2D		K29-8269-04	KNOB	E1	
661	2D		K29-8136-03	KNOB ASSY	Y1E1	
661	2D		K29-8137-03	KNOB ASSY	X1E2	
662	2C		K29-8271-04	KNOB	Y1E1	
662	2C		K29-8272-04	KNOB	X1E2	
662	3A		K29-8352-14	KNOB	K1P1	
662	3A		K29-8353-04	KNOB	7K2P2	
663	2B		K29-8358-13	KNOB ASSY	K1P1	
663	2B	*	K29-8362-03	KNOB ASSY	7K2P2	
664	2A,3A		K29-8364-11	KNOB	K1P1	
664	2A,3A	*	K29-8365-01	KNOB	7K2P2	
665	2D		L07-3138-05	POWER TRANSFORMER	7	
665	2D	*	L07-3285-15	POWER TRANSFORMER	9	
665	2D	*	L07-3286-15	POWER TRANSFORMER	E1E2	
665	2D	*	L07-3287-15	POWER TRANSFORMER	X1	
665	2D	*	L07-3288-15	POWER TRANSFORMER	Y1	
666	1E		L92-0579-05	FERRITE CORE	E1E2	

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KRF-X9080D/VR-8070/8060 PARTS LIST

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3

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671	1C		T90-0893-05	LOOP ANTENNA		
672	1C		T90-0877-05	LEAD WIRE ANTENNA	8	
672	1C		T90-0905-05	LEAD WIRE ANTENNA	79	
621	2E		DP40203SG270	THERMISTOR	8	
675	1E		W02-2974-15	TUNER ASSY	79	
675	1E		W02-2975-05	TUNER ASSY	Y1X1	
675	1E		W02-2976-05	TUNER ASSY	E1E2	
SURROUND (X08-3310-11)						
C1 ,2			CK73GB1H472K	CHIP C	4700PF	K
C3 ,4			CC73GCH1H220J	CHIP C	22PF	J
C5 ,6			CE04KW1E470M	ELECTRO	47UF	25WV
C7			CE04KW1H100M	ELECTRO	10UF	50WV
C8 ,9			CC73GCH1H221J	CHIP C	220PF	J
C11			CK73GB1C104K	CHIP C	0.10UF	K
C12			CK73GB1A474K	CHIP C	0.47UF	K
C13 ,14			CK73GB1C104K	CHIP C	0.10UF	K
C15			CK73GB1H102K	CHIP C	1000PF	K
C16			CK73GB1H103K	CHIP C	0.010UF	K
C41			CK73GB1C104K	CHIP C	0.10UF	K
C42			CK73GB1H103K	CHIP C	0.010UF	K
C43			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C44 ,45			CK73GB1C104K	CHIP C	0.10UF	K
C46			CE04KW1E470M	ELECTRO	47UF	25WV
C47 ,48			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C49			CE04KW1H100M	ELECTRO	10UF	50WV
C50 ,51			CK73GB1H103K	CHIP C	0.010UF	K
C57 ,58			CC73GSL1H471J	CHIP C	470PF	J
C61 ,62			CC73GCH1H080D	CHIP C	8.0PF	D
C63			CK73GB1H102K	CHIP C	1000PF	K
C64			CK73GB1C563K	CHIP C	0.056UF	K
C65			CE04KW1E470M	ELECTRO	47UF	25WV
C66			CC73GCH1H220J	CHIP C	22PF	J
C79			CK73FB1H103K	CHIP C	0.010UF	K
C80			CK73FB1E104K	CHIP C	0.10UF	K
C81			CK73GB1C104K	CHIP C	0.10UF	K
C82			CE04KW1H100M	ELECTRO	10UF	50WV
C83 ,84			CK73GB1C104K	CHIP C	0.10UF	K
C85			CE04KW1H100M	ELECTRO	10UF	50WV
C88			CE04KW1H100M	ELECTRO	10UF	50WV
C89			CK73FB1E104K	CHIP C	0.10UF	K
C90			CK73GB1C104K	CHIP C	0.10UF	K
C91			CE04KW1H100M	ELECTRO	10UF	50WV
C92			CK73FB1E104K	CHIP C	0.10UF	K
C93			CK73GB1C104K	CHIP C	0.10UF	K
C94			CE04KW1H100M	ELECTRO	10UF	50WV
C95			CK73FB1C105K	CHIP C	1.0UF	K
C96			CK73GB1C104K	CHIP C	0.10UF	K
C97			CE04KW1A101M	ELECTRO	100UF	10WV
C98			CK73FB1E104K	CHIP C	0.10UF	K
C99			CK73FB1H103K	CHIP C	0.010UF	K
C100			CE04KW1C472M	ELECTRO	4700UF	16WV
C101 ,102			CE04KW1H100M	ELECTRO	10UF	50WV
C103-106			CK73GB1H182K	CHIP C	1800PF	K

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C109			CC73GCH1H101J	CHIP C	100PF	J
C110			CK73GB1H103K	CHIP C	0.010UF	K
C121,122			CE04KW1H100M	ELECTRO	10UF	50WV
C123,124			CK73GB1H222K	CHIP C	2200PF	K
C125,126			CK73GB1H821K	CHIP C	820PF	K
C129			CC73GCH1H101J	CHIP C	100PF	J
C130			CK73GB1H103K	CHIP C	0.010UF	K
C141,142			CE04KW1H100M	ELECTRO	10UF	50WV
C143-146			CK73GB1H182K	CHIP C	1800PF	K
C149			CC73GCH1H101J	CHIP C	100PF	J
C150			CK73GB1H103K	CHIP C	0.010UF	K
C161,162			CE04KW1H100M	ELECTRO	10UF	50WV
C163			CK73GB1H182K	CHIP C	1800PF	K
C164			CK73GB1H822K	CHIP C	8200PF	K
C165			CK73GB1H182K	CHIP C	1800PF	K
C166			CK73GB1H822K	CHIP C	8200PF	K
C169			CC73GCH1H101J	CHIP C	100PF	J
C170			CK73GB1H103K	CHIP C	0.010UF	K
C181,182			CC73GCH1H220J	CHIP C	22PF	J
C189			CC73GCH1H101J	CHIP C	100PF	J
C190			CK73GB1H103K	CHIP C	0.010UF	K
C191-196			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C197			CC73GCH1H102J	CHIP C	1000PF	J
C198			CC73GCH1H101J	CHIP C	100PF	J
C261,262			CE04KW1H100M	ELECTRO	10UF	50WV
C263,264			CC73GCH1H220J	CHIP C	22PF	J
C265,266			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C267			CC73GCH1H101J	CHIP C	100PF	J
C268			CK73GB1H103K	CHIP C	0.010UF	K
C501-528			CK73GB1H103K	CHIP C	0.010UF	K
C529			CE04KW1H100M	ELECTRO	10UF	50WV
C530-543			CK73GB1H103K	CHIP C	0.010UF	K
C544,545			CK73GB1C104K	CHIP C	0.10UF	K
C546-553			CK73GB1H103K	CHIP C	0.010UF	K
C554			CK73GB1C104K	CHIP C	0.10UF	K
C555			CK73GB1H103K	CHIP C	0.010UF	K
C556-558			CK73GB1H102K	CHIP C	1000PF	K
C560			CK73GB1H103K	CHIP C	0.010UF	K
C561,562			CC73GCH1H101J	CHIP C	100PF	J
C563-565			CK73GB1H103K	CHIP C	0.010UF	K
C567-570			CK73GB1H103K	CHIP C	0.010UF	K
C571,572			CC73GCH1H150J	CHIP C	15PF	J
C573			CK73GB1H102K	CHIP C	1000PF	K
C574			CK73GB1H103K	CHIP C	0.010UF	K
CN1			E40-3246-05	PIN ASSY		
CN2			E40-3254-05	PIN ASSY		
CN3			E40-3257-05	PIN ASSY		
CN4			E40-8484-05	FLAT CABLE CONNECTOR		
CN5			E40-3247-05	PIN ASSY		
J1			E63-1080-05	PIN JACK		
L1 ,2			L92-0510-05	CHIP FERRITE		
L3 -5			L92-0578-05	CHIP FERRITE		
X6			L77-2419-05	CRYSTAL RESONATOR(24.576MHZ)		
X51			L77-2420-05	CRYSTAL RESONATOR(18.75MHZ)		

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KRF-X9080D/VR-8070/8060
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CP51-66			R90-1033-05	MULTI-COMP 22 X4		
CP71-75			R90-0728-05	MULTI-COMP 180 X4		
R1 ,2			RK73GB1J101J	CHIP R 100 J 1/16W		
R3			R92-1946-05	METAL GLAZE 4.7 J 1/4W		
R4			RK73GB1J471J	CHIP R 470 J 1/16W		
R5 ,6			R92-1946-05	METAL GLAZE 4.7 J 1/4W		
R7 ,8			RK73GB1J750J	CHIP R 75 J 1/16W		
R11 ,12			RK73GB1J101J	CHIP R 100 J 1/16W		
R21			RK73GB1J183J	CHIP R 18K J 1/16W		
R23			RK73GB1J330J	CHIP R 33 J 1/16W		
R24 -26			RK73GB1J101J	CHIP R 100 J 1/16W		
R27			RK73GB1J104J	CHIP R 100K J 1/16W		
R30			RK73GB1J330J	CHIP R 33 J 1/16W		
R31			RK73GB1J101J	CHIP R 100 J 1/16W		
R32			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R33			RK73GB1J181J	CHIP R 180 J 1/16W		
R41			RK73GB1J330J	CHIP R 33 J 1/16W		
R42			RK73GB1J104J	CHIP R 100K J 1/16W		
R43			RK73GB1J101J	CHIP R 100 J 1/16W		
R44 -49			RK73GB1J100J	CHIP R 10 J 1/16W		
R50			RK73GB1J181J	CHIP R 180 J 1/16W		
R51			RK73GB1J100J	CHIP R 10 J 1/16W		
R52			R92-1946-05	METAL GLAZE 4.7 J 1/4W		
R55 ,56			RK73GB1J471J	CHIP R 470 J 1/16W		
R61 ,62			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R63			RK73GB1J221J	CHIP R 220 J 1/16W		
R64			RK73FB2A2R2J	CHIP R 2.2 J 1/10W		
R65			RK73GB1J330J	CHIP R 33 J 1/16W		
R81			R92-1960-05	METAL GLAZE 2.2 J 1/4W		
R82 ,83			R92-1918-05	CHIP R 0.33 J 1/4W		
R84			RS14KB3D680J	FL-PROOF RS 68 J 2W		
R85			RS14KB3D560J	FL-PROOF RS 56 J 2W		
R86			RS14KB3D3R3J	FL-PROOF RS 3.3 J 2W		
R86			RS14KB3D3R9J	FL-PROOF RS 3.9 J 2W		
R87			RS14KB3D3R3J	FL-PROOF RS 3.3 J 2W		
R88			RS14KB3D2R2J	FL-PROOF RS 2.2 J 2W		
R89			RK73GB1J202J	CHIP R 2.0K J 1/16W		
R90 ,91			RK73GB1J103J	CHIP R 10K J 1/16W		
R92			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R93			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R94			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R95			RK73GB1J473J	CHIP R 47K J 1/16W		
R96 ,97			RK73GB1J221J	CHIP R 220 J 1/16W		
R98			R92-1918-05	CHIP R 0.33 J 1/4W		
R101,102			RK73GB1J104J	CHIP R 100K J 1/16W		
R103,104			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R105,106			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R107,108			RK73GB1J103J	CHIP R 10K J 1/16W		
R109,110			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R111,112			RK73GB1J221J	CHIP R 220 J 1/16W		
R121,122			RK73GB1J104J	CHIP R 100K J 1/16W		
R123,124			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R125,126			RK73GB1J911J	CHIP R 910 J 1/16W		
R127,128			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R129,130			RK73GB1J562J	CHIP R 5.6K J 1/16W		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R131,132			RK73GB1J221J	CHIP R 220 J 1/16W		
R141,142			RK73GB1J104J	CHIP R 100K J 1/16W		
R143,144			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R145,146			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R147,148			RK73GB1J103J	CHIP R 10K J 1/16W		
R149,150			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R151,152			RK73GB1J221J	CHIP R 220 J 1/16W		
R161,162			RK73GB1J104J	CHIP R 100K J 1/16W		
R163			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R164			RK73GB1J273J	CHIP R 27K J 1/16W		
R165			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R166			RK73GB1J183J	CHIP R 18K J 1/16W		
R167,168			RK73GB1J103J	CHIP R 10K J 1/16W		
R169			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R170			RK73GB1J912J	CHIP R 9.1K J 1/16W		
R171,172			RK73GB1J221J	CHIP R 220 J 1/16W		
R181,182			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R185-188			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R189,190			RK73GB1J101J	CHIP R 100 J 1/16W		
R201-208			RK73GB1J104J	CHIP R 100K J 1/16W		
R209-212			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R213,214			RK73GB1J432J	CHIP R 4.3K J 1/16W		
R215,216			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R217,218			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R219,220			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R261-264			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R265,266			RK73GB1J101J	CHIP R 100 J 1/16W		
R501,502			RK73GB1J330J	CHIP R 33 J 1/16W		
R503-506			RK73GB1J104J	CHIP R 100K J 1/16W		
R507-509			RK73GB1J330J	CHIP R 33 J 1/16W		
R510			RK73GB1J104J	CHIP R 100K J 1/16W		
R511,512			RK73GB1J330J	CHIP R 33 J 1/16W		
R513-515			RK73GB1J104J	CHIP R 100K J 1/16W		
R516			RK73GB1J101J	CHIP R 100 J 1/16W		
R517			RK73GB1J220J	CHIP R 22 J 1/16W		
R518			RK73FB2A100J	CHIP R 10 J 1/10W		
R521			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R523,524			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R525,526			RK73GB1J220J	CHIP R 22 J 1/16W		
R527			RK73GB1J101J	CHIP R 100 J 1/16W		
R528-530			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R532-534			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R536			RK73GB1J103J	CHIP R 10K J 1/16W		
R537-540			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R541-550			RK73GB1J100J	CHIP R 10 J 1/16W		
R551			RK73GB1J104J	CHIP R 100K J 1/16W		
R552			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R553,554			RK73GB1J100J	CHIP R 10 J 1/16W		
R560-567			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R571			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R572			RK73GB1J101J	CHIP R 100 J 1/16W		
R573			RK73GB1J105J	CHIP R 1.0M J 1/16W		
S1			S62-0034-05	SLIDE SWITCH	Y1	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D1 D2 ,3 D4 D5 D6 ,7			D2SBA20F03 MA111 MA111 UDZ5.6B UDZ3.9B	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D8 D9 D10 D11 ,12 D13 -16			1SR154-400 UDZ3.9B UDZ5.1B DAN202U MA111	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D17 D41 D42 D51 IC1			1SR154-400 DAP202U DAN202U MA111 AK4114VQ	DIODE DIODE DIODE DIODE MOS-IC		
IC2 IC2 IC2 IC6 IC10			AK4529-VQ AK4628-VQ AK4628A-VQ TC7WU04FU NJM4565M	MOS-IC MOS-IC MOS-IC MOS-IC ANALOGUE IC		
IC10 IC12 IC12 IC14 IC14			NJM4565MD NJM4565M NJM4565MD NJM4565M NJM4565MD	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC		
IC16 IC16 IC18 IC18 IC18			NJM4565M NJM4565MD NJM4565M NJM4565MD NJM5532MD	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	7 7 89	
IC19 IC19 IC19 IC19 IC20			NJM4565M NJM4565M NJM4565M NJM4565MD NJU7311AM	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC		
IC21,22 IC23 IC24 IC26 IC50		*	BA033T BA05T XC6201P332PR SI-3010KM ADSST-AVR-1040	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC	89	
IC50 IC51-53 IC51-53 IC54 IC54			ADSST-AVR-1050 SN74LVC573APWR TC74LCX573FT SN74LVC245APWR TC74LCX245FT	MOS-IC MOS-IC MOS-IC MOS-IC MOS-IC	7	
IC55 IC56 IC57 IC57 IC58			SN74LVC2G125T3 SN74LVC139APWR SN74LVC1G08DC3 TC7SA08FU SN74LVC1G32DC3	MOS-IC MOS-IC MOS-IC MOS-IC MOS-IC		
IC59 IC59 IC60 IC61 IC62		*	A29L800TV70KB0 A29L800TV70KC1 K6R4008V1DUC10 TC74VHC125FT TC74HCT7007AF	ROM IC ROM IC SRAM IC MOS-IC MOS-IC	7 89	

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IC63 Q1 Q2 Q51			SN74LVC1G32DC3 2SB1218A(Q,R) 2SD1819A(Q,R) 2SC4081(R,S)	MOS-IC TRANSISTOR TRANSISTOR TRANSISTOR		
A1 ,2 A3		*	W02-4524-05 W02-4540-05	OPTIC RECEIVING MODULE OSCILLATING MODULE		
AUDIO (X09-6860-10) KRF-X9080D/VR-8070						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CC45FSL1H221J CE04KW1H100M CC45FSL1H221J CE04KW1A101M CC45FSL1H271J	CERAMIC ELECTRO CERAMIC ELECTRO CERAMIC	220PF 10UF 220PF 100UF 270PF	J 50WV J 10WV J
C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 -38			CQ93FMG1H123J CK45FB1H332K CE04KW1H4R7M CC45FSL1H101J CC45FSL1H221J	MYLAR CERAMIC ELECTRO CERAMIC CERAMIC	0.012UF 3300PF 4.7UF 100PF 220PF	J K 50WV J J
C39 C40 C41 C42 C44 ,45			CC45FSL1H101J CK45FF1H103Z CK45FF1H103Z CK45FF1H103Z CE04KW1E470M	CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO	100PF 0.010UF 0.010UF 0.010UF 47UF	J Z Z Z 25WV
C46 ,47 C51 -54 C55 ,56 C57 ,58 C62 ,63			CQ93FMG1H823J C91-1573-05 CQ93FMG1H272J CE04KW1H2R2M CE04KW1H3R3M	MYLAR MP-C MYLAR ELECTRO ELECTRO	0.082UF 0.10UF 2700PF 2.2UF 3.3UF	J J J 50WV 50WV
C64 ,65 C66 ,67 C68 C69 C70 ,71			CE04KW2A3R3M CC45FSL1H331J CC45FCH1H070D CC45FCH1H080D CK45FB1H222K	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	3.3UF 330PF 7.0PF 8.0PF 2200PF	100WV J D D K
C72 ,73 C74 ,75 C76 ,77 C78 ,79 C84 ,85			CC45FSL1H101J CE04KW1A221M CC45FCH1H150J CK45FB1H561K CE04KW1E470M	CERAMIC ELECTRO CERAMIC CERAMIC ELECTRO	100PF 220UF 15PF 560PF 47UF	J 10WV J K 25WV
C86 ,87 C88 ,89 C90 -93 C90 ,91 C94 ,95			CC45FSL1H151J CC45FSL2H470J C91-1577-05 C91-1573-05 CK45FB1H332K	CERAMIC CERAMIC MP-C MP-C CERAMIC	150PF 47PF 0.22UF 0.10UF 3300PF	J J J J K
C111-114 C115,116 C117,118 C119,120 C121,122			CE04KW1H3R3M CC45FSL1H331J CC45FCH1H050C CK45FB1H222K CC45FSL1H101J	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	3.3UF 330PF 5.0PF 2200PF 100PF	50WV J C K J
C123,124 C125,126 C127,128 C133,134			CE04KW1A221M CC45FCH1H150J CK45FB1H561K CE04KW1H220M	ELECTRO CERAMIC CERAMIC ELECTRO	220UF 15PF 560PF 22UF	10WV J K 50WV

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KRF-X9080D/VR-8070/8060

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C135,136 C137,138 C139-142 C139,140 C161			CC45FSL1H151J CC45FSL2H470J C91-1577-05 C91-1573-05 CE04KW1H3R3M	CERAMIC 150PF J CERAMIC 47PF J MP-C 0.22UF J MP-C 0.10UF J ELECTRO 3.3UF 50WV	8 9	
C163 C165 C167 C169 C171			CE04KW2A3R3M CC45FSL1H331J CC45FCH1H060D CK45FB1H222K CC45FSL1H101J	ELECTRO 3.3UF 100WV CERAMIC 330PF J CERAMIC 6.0PF D CERAMIC 2200PF K CERAMIC 100PF J		
C173 C175 C177 C183 C185			CE04KW1A221M CC45FCH1H150J CK45FB1H561K CE04KW1E470M CC45FSL1H151J	ELECTRO 220UF 10WV CERAMIC 15PF J CERAMIC 560PF K ELECTRO 47UF 25WV CERAMIC 150PF J		
C187 C189-192 C189,190 C193 C195,196			CC45FSL2H470J C91-1577-05 C91-1573-05 CK45FB1H332K CK45FB1H332K	CERAMIC 47PF J MP-C 0.22UF J MP-C 0.10UF J CERAMIC 3300PF K CERAMIC 3300PF K	8 9	
C301,302 C303 C304 C305 C306			C90-5771-05 CQ93FMG1H103J CE04KW1A221M CE04KW1H101M CE04KW2A101M	ELECTRO 10000UF 75WV MYLAR 0.010UF J ELECTRO 220UF 10WV ELECTRO 100UF 50WV ELECTRO 100UF 100WV		
C308 C309-311 C312 C315 C316			CE04KW1H100M CE04KW1H220M CE04KW1A101M CE04DW2A330M CE04KW2A100M	ELECTRO 10UF 50WV ELECTRO 22UF 50WV ELECTRO 100UF 10WV ELECTRO 33UF 100WV ELECTRO 10UF 100WV		
C317,318 C319,320 C323 C324,325 C326		*	CE04KW2A220M CC45FSL1H101J CK45FB1H102K CE04DW1C471M CC45FCH1H030C	ELECTRO 22UF 100WV CERAMIC 100PF J CERAMIC 1000PF K ELECTRO 470UF 16WV CERAMIC 3.0PF C		
C351-353 C354 C355-360 C361,362 C363			CC45FSL1H221J CQ93FMG1H122J CK45FF1H472Z CE04KW1H220M CE04KW1E470M	CERAMIC 220PF J MYLAR 1200PF J CERAMIC 4700PF Z ELECTRO 22UF 50WV ELECTRO 47UF 25WV		
C364 C365 C366 C367 C368			CE04HW1H2R2M CE04KW1A221M CE04KW1H4R7M CE04KW1A221M CE04KW1H4R7M	NP-ELEC 2.2UF 50WV ELECTRO 220UF 10WV ELECTRO 4.7UF 50WV ELECTRO 220UF 10WV ELECTRO 4.7UF 50WV		
C369 C370 C450 C451-453 C501,502			CE04HW1E220M CK45FB1H102K CK45FE2H103P CK45FB2H102K CC45FSL1H221J	NP-ELEC 22UF 25WV CERAMIC 1000PF K CERAMIC 0.010UF P CERAMIC 1000PF K CERAMIC 220PF J		
C600 C609 C610 C611 C722			CE04KW1E101M CC45FCH1H180J CE04KW2A101M CE04KW1H220M CE04KW1H220M	ELECTRO 100UF 25WV CERAMIC 18PF J ELECTRO 100UF 100WV ELECTRO 22UF 50WV ELECTRO 22UF 50WV		

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CN1 CN2 CN3 CN4 ,5 CN6		*	E41-1010-05 E41-0929-05 E41-0928-05 E40-8484-05 E41-0940-05	PIN ASSY PIN ASSY PIN ASSY FLAT CABLE CONNECTOR PIN ASSY		
CN7 CN8 CN9 CN10-15 CN21		*	E41-0934-05 E41-1009-05 E41-0927-05 E40-4871-05 E40-8429-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY SOCKET FOR PIN ASSY	8	
CN22 CN51 CN52 J3 J5			E41-0934-05 E41-0928-05 E40-4669-05 E63-1247-05 E70-0150-05	PIN ASSY PIN ASSY PIN ASSY PIN JACK SCREW TERMINAL BOARD		
J6 J11 ,12 J21 ,22 J501 J501			E70-0160-05 E63-1317-05 E63-1317-05 E11-0190-05 E11-0271-05	LOCK TERMINAL BOARD PIN JACK PIN JACK PHONE JACK (3P) PHONE JACK (METAL SLEEVE)		
WH1 WH2 WH3 WH4 WH5		*	E35-3240-15 E35-3247-05 E35-3672-05 E35-3656-05 E35-3654-05	WIRING HARNESS WIRING HARNESS WIRING HARNESS WIRING HARNESS WIRING HARNESS		
WH6 WH7 WH8 WH9 WH21		*	E35-3655-05 E35-3676-05 E35-3695-05 E35-3392-05 E82-5515-04	WIRING HARNESS WIRING HARNESS WIRING HARNESS WIRING HARNESS FINISHED WIRE		
WH221		*	E35-3678-05	WIRING HARNESS		
L1 -6			L39-0085-05	PHASE COMPENSATION COIL		
R61 ,62 R81 -84 R85 ,86 R87 ,88 R93 -96			RS14KB3A821J RD14NB2E221J RD14NB2E562J RD14NB2E331J RD14NB2E470J	FL-PROOF RS 820 J 1W RD 220 J 1/4W RD 5.6K J 1/4W RD 330 J 1/4W RD 47 J 1/4W		
R97 ,98 R99 ,100 R101,102 R103,104 R131-134			RD14NB2E221J RD14NB2E330J RS14KB3D4R7J RS14KB3D391J RD14NB2E221J	RD 220 J 1/4W RD 33 J 1/4W FL-PROOF RS 4.7 J 2W FL-PROOF RS 390 J 2W RD 220 J 1/4W		
R135,136 R137,138 R143-146 R147,148 R149,150			RD14NB2E562J RD14NB2E331J RD14NB2E470J RD14NB2E221J RD14NB2E330J	RD 5.6K J 1/4W RD 330 J 1/4W RD 47 J 1/4W RD 220 J 1/4W RD 33 J 1/4W		
R151,152 R181 R183 R185 R187			RS14KB3D4R7J RD14NB2E221J RD14NB2E221J RD14NB2E562J RD14NB2E331J	FL-PROOF RS 4.7 J 2W RD 220 J 1/4W RD 220 J 1/4W RD 5.6K J 1/4W RD 330 J 1/4W		
R193			RD14NB2E470J	RD 47 J 1/4W		

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R195			RD14NB2E470J	RD 47 J 1/4W		
R197,198			RD14NB2E221J	RD 220 J 1/4W		
R199,200			RD14NB2E330J	RD 33 J 1/4W		
R201,202			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
△ R303			RD14NB2E561J	RD 560 J 1/4W		
△ R304			RS14KB3A822J	FL-PROOF RS 8.2K J 1W		
△ R306			RD14NB2E101J	RD 100 J 1/4W		
R307			RD14NB2E822J	RD 8.2K J 1/4W		
R310			RS14KB3A390J	FL-PROOF RS 39 J 1W		
R311			RS14KB3A680J	FL-PROOF RS 68 J 1W		
R314			RS14KB3A681J	FL-PROOF RS 680 J 1W		
R317			RS14KB3D152J	FL-PROOF RS 1.5K J 2W		
R318			RS14KB3D222J	FL-PROOF RS 2.2K J 2W		
△ R321,322			RD14NB2E1R0J	RD 1 J 1/4W		
△ R325,326			RD14NB2E472J	RD 4.7K J 1/4W		
R331-333			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
R342			RS14KB3A100J	FL-PROOF RS 10 J 1W		
R343			RS14KB3A470J	FL-PROOF RS 47 J 1W		
R454			RS14KB3A391J	FL-PROOF RS 390 J 1W		
△ R476			RD14NB2E561J	RD 560 J 1/4W		
R627			RD14NB2E472J	RD 4.7K J 1/4W		
R733			RD14NB2E470J	RD 47 J 1/4W		
R735			RD14NB2E470J	RD 47 J 1/4W		
VR1 -6			S76-0032-05	SEMI FIXED VARIABLE RESISTOR		
K2 -5			S76-0098-05	MAGNETIC RELAY		
D1 -5			HSS104A	DIODE		
D1 -5			1SS133	DIODE		
D6			HSS104A	DIODE	8	
D6			1SS133	DIODE	8	
D7			MTZJ5.1(B)	ZENER DIODE	8	
D7			RD5.1ES(B)	ZENER DIODE	8	
D8			MTZJ3.9(B)	ZENER DIODE	8	
D8			RD3.9ES(B)	ZENER DIODE	8	
△ D12			D5SBA20F03	DIODE		
△ D12			TS6P03G-B	DIODE		
△ D14 ,15			S5688B	DIODE		
D16			HSS104A	DIODE		
D16			1SS133	DIODE		
D17			MTZJ16(B)	ZENER DIODE		
D17			RD16ES(B)	ZENER DIODE		
D18			MTZJ15(B)	ZENER DIODE		
D18			RD15ES(B)	ZENER DIODE		
D19			MTZJ16(B)	ZENER DIODE		
D19			RD16ES(B)	ZENER DIODE		
D20			MTZJ6.2(B)	ZENER DIODE		
D20			RD6.2ES(B)	ZENER DIODE		
D21			MTZJ6.8(B)	ZENER DIODE		
D21			RD6.8ES(B)	ZENER DIODE		
D22			MTZJ5.1(B)	ZENER DIODE		
D22			RD5.1ES(B)	ZENER DIODE		
D23			MTZJ13(B)	ZENER DIODE	Y1X1	
D23			MTZJ15(B)	ZENER DIODE	9	
D23			MTZJ7.5(B)	ZENER DIODE	E1E2	
D23			RD13ES(B)	ZENER DIODE	Y1X1	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D23			RD15ES(B)	ZENER DIODE		
D23			RD7.5ES(B)	ZENER DIODE		
D24			MTZJ7.5(B)	ZENER DIODE		
D24			MTZJ8.2(B)	ZENER DIODE		
D24			RD7.5ES(B)	ZENER DIODE		
D24			RD8.2ES(B)	ZENER DIODE		
D25			MTZJ30(B)	ZENER DIODE		
D25			RD30ES(B)	ZENER DIODE		
D26			MTZJ3.9(B)	ZENER DIODE		
D26			RD3.9ES(B)	ZENER DIODE		
D27			1SS244	DIODE		
D28 ,29			HSS104A	DIODE		
D28 ,29			1SS133	DIODE		
D32 ,35			HSS104A	DIODE		
D32 -35			1SS133	DIODE		
D51 ,52			1SS244	DIODE		
D53 ,54			HSS104A	DIODE		
D53 ,54			1SS133	DIODE		
D55 ,56			1SS244	DIODE		
D57 ,58			HSS104A	DIODE		
D57 ,58			1SS133	DIODE		
D59 ,60			1SS244	DIODE		
D61 ,62			HSS104A	DIODE		
D61 ,62			1SS133	DIODE		
D63			MTZJ3.9(B)	ZENER DIODE		
D63			RD3.9ES(B)	ZENER DIODE		
D64			HSS104A	DIODE		
D64			1SS133	DIODE		
D65			MTZJ3.9(B)	ZENER DIODE		
D65			RD3.9ES(B)	ZENER DIODE		
D66			HSS104A	DIODE		
D66			1SS133	DIODE		
D67			MTZJ3.9(B)	ZENER DIODE		
D67			RD3.9ES(B)	ZENER DIODE		
D68			HSS104A	DIODE		
D68			1SS133	DIODE		
D69			MTZJ3.9(B)	ZENER DIODE		
D69			RD3.9ES(B)	ZENER DIODE		
D602-604			HSS104A	DIODE		
D602-604			1SS133	DIODE		
D608			MTZJ30(B)	ZENER DIODE		
D608			RD30ES(B)	ZENER DIODE		
D609			MTZJ20(B)	ZENER DIODE		
D609			RD20ES(B)	ZENER DIODE		
IC1			NJM4580L	ANALOGUE IC		
IC2			M61516FP	ANALOGUE IC		
Q1 -4			2SA992(F,E)	TRANSISTOR		
Q5 ,6			2SA1123(R,S)	TRANSISTOR		
Q7 -10			2SC2631(R,S)	TRANSISTOR		
△ Q11 ,12			TRAIT3KN	TRANSISTOR		
△ Q13 ,14			TRAIT3KP	TRANSISTOR		
Q21 -24			2SA992(F,E)	TRANSISTOR		
Q25 ,26			2SA1123(R,S)	TRANSISTOR		
Q27 -30			2SC2631(R,S)	TRANSISTOR		
△ Q31 ,32			TRAIT3KN	TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ Q33 ,34 Q41 Q43 Q45 Q47			TRAIT3KP 2SA992(F,E) 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q49 △ Q51 ,52 △ Q53 ,54 Q302 Q302			2SC2631(R,S) TRAIT3KN TRAIT3KP DTC113ZSA UN4219	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
△ Q303 △ Q304 Q305 △ Q306 △ Q307			2SC3940A(R,S) 2SB1640 UN421N 2SB1640 2SD2525	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q308 Q309-312 Q313 Q331-335 Q353-358			2SA992(F,E) KTC3200 UN421N 2SC2878(B) 2SC1845(F,E)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	E1E2	
Q359 Q360,361 Q362 Q363,364 Q365			2SA992(F,E) 2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q602-604 Q605,606 Q607 △ Q610 Q611			2SC1845(F,E) 2SC2878(B) 2SA992(F,E) 2SD2012 KTC3199(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	8	
Q611 Q612 Q612			2SC1740S(Q,R) KTA1267(Y,GR) 2SA933AS(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR	8 8 8	
AUDIO (X09-6760-13) VR-8060						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CC45FSL1H221J CE04LW1H100M CC45FSL1H221J CE04LW1A101M CC45FSL1H271J	CERAMIC ELECTRO CERAMIC ELECTRO CERAMIC	220PF 10UF 220PF 100UF 270PF	J 50WV J 10WV J
C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 -38			CQ93FMG1H123J CK45FB1H332K CE04LW1H4R7M CC45FCH1H101J CC45FSL1H221J	MYLAR CERAMIC ELECTRO CERAMIC CERAMIC	0.012UF 3300PF 4.7UF 100PF 220PF	J J 50WV J J
C44 ,45 C46 ,47 C51 -54 C55 ,56 C57 ,58			CE04LW1E470M CQ93FMG1H823J C91-1573-05 CQ93FMG1H272J CE04LW1H2R2M	ELECTRO MYLAR MP-C MYLAR ELECTRO	47UF 0.082UF 0.10UF 2700PF 2.2UF	25WV J J J 50WV
C62 -65 C66 ,67 C68 C69 C70 ,71			CE04KW1H3R3M CC45FSL1H331J CC45FCH1H070D CC45FCH1H080D CK45FB1H222K	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	3.3UF 330PF 7.0PF 8.0PF 2200PF	50WV J D D K

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C72 ,73 C74 ,75 C76 ,77 C78 ,79 C82 ,83			CC45FCH1H101J CE04KW1E101M CC45FCH1H100D CK45FB1H561K CC45FCH1H100D	CERAMIC ELECTRO CERAMIC CERAMIC CERAMIC	100PF 100UF 10PF 560PF 10PF	J 25WV D K D
C84 ,85 C86 ,87 C88 ,89 C90 ,91 C94 ,95			CE04KW1H220M CC45FSL1H470J CC45FSL2H470J C91-1573-05 CK45FB1H332K	ELECTRO CERAMIC CERAMIC MP-C CERAMIC	22UF 47PF 47PF 0.10UF 3300PF	50WV J J J K
C111,112 C113,114 C115,116 C117,118 C119,120			CE04KW1H3R3M CE04LW1H3R3M CC45FSL1H331J CC45FCH1H050C CK45FB1H222K	ELECTRO ELECTRO CERAMIC CERAMIC CERAMIC	3.3UF 3.3UF 330PF 5.0PF 2200PF	50WV 50WV J C K
C121,122 C123,124 C125,126 C127,128 C133,134			CC45FCH1H101J CE04KW1A221M CC45FCH1H100D CK45FB1H561K CE04LW1H220M	CERAMIC ELECTRO CERAMIC CERAMIC ELECTRO	100PF 220UF 10PF 560PF 22UF	J 10WV D K 50WV
C135,136 C137,138 C139,140 C161 C163			CC45FSL1H470J CC45FSL2H470J C91-1573-05 CE04KW1H3R3M CE04KW1H3R3M	CERAMIC CERAMIC MP-C ELECTRO ELECTRO	47PF 47PF 0.10UF 3.3UF 3.3UF	J J J 50WV 50WV
C164 C165,166			CE04LW1H3R3M CC45FSL1H331J	ELECTRO CERAMIC	3.3UF 330PF	50WV J
C167 C168 C169,170 C171,172 C173			CC45FCH1H060D CC45FSL1H270J CK45FB1H222K CC45FCH1H101J CE04KW1E101M	CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO	6.0PF 27PF 2200PF 100PF 100UF	D J K J 25WV
C174 C175,176 C177,178 C181 C183			CE04KW1A221M CC45FCH1H100D CK45FB1H561K CC45FCH1H100D CE04KW1H220M	ELECTRO CERAMIC CERAMIC CERAMIC ELECTRO	220UF 10PF 560PF 10PF 22UF	10WV D K D 50WV
C184 C185 C186 C187,188 C189,190			CE04LW1H220M CC45FSL1H470J CC45FSL1H101J CC45FSL2H470J C91-1573-05	ELECTRO CERAMIC CERAMIC CERAMIC MP-C	22UF 47PF 100PF 47PF 0.10UF	50WV J J J J
C193 C195,196 C227,228 C301,302 C303			CK45FB1H332K CK45FB1H332K CE04LW1H220M C90-5775-05 CQ93FMG1H103J	CERAMIC CERAMIC ELECTRO ELECTRO MYLAR	3300PF 3300PF 22UF 4700UF 0.010UF	K K 50WV 75WV J
C304 C305 C306 C307 C308			CE04LW1A221M CE04KW1H101M CE04LW2A101M CC45FSL1H221J CE04LW1H100M	ELECTRO ELECTRO ELECTRO CERAMIC ELECTRO	220UF 100UF 100UF 220PF 10UF	10WV 50WV 100WV J 50WV
C309 C310,311 C312			CE04LW1H220M CE04KW1H220M CE04LW1A101M	ELECTRO ELECTRO ELECTRO	22UF 22UF 100UF	50WV 50WV 10WV

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C313,314 C315			CE04LW1E470M CE04LW2A330M	ELECTRO 47UF 25WV ELECTRO 33UF 100WV		
C316 C317,318 C319,320 C321 C322			CE04LW2A100M CE04KW2A220M CC45FCH1H101J CC45FCH1H100D CC45FCH1H150J	ELECTRO 10UF 100WV ELECTRO 22UF 100WV CERAMIC 100PF J CERAMIC 10PF D CERAMIC 15PF J		
C323 C324,325 C351-353 C354 C355-360			CK45FB1H102K CE04DW1C471M CC45FSL1H221J CQ93FMG1H122J CK45FF1H472Z	CERAMIC 1000PF K ELECTRO 470UF 16WV CERAMIC 220PF J MYLAR 1200PF J CERAMIC 4700PF Z		
C361 C362,363 C364 C365 C366			CE04KW1H220M CE04LW1H220M CE04HW1H2R2M CE04KW1A221M CE04LW1H4R7M	ELECTRO 22UF 50WV ELECTRO 22UF 50WV NP-ELEC 2.2UF 50WV ELECTRO 220UF 10WV ELECTRO 4.7UF 50WV		
C367 C368 C369 C370 C450			CE04KW1A221M CE04LW1H4R7M CE04HW1C330M CK45FB1H102K CK45FE2H103P	ELECTRO 220UF 10WV ELECTRO 4.7UF 50WV NP-ELEC 33UF 16WV CERAMIC 1000PF K CERAMIC 0.010UF P		
C451-453 C501,502 C600 C611			CK45FB2H102K CC45FSL1H221J CE04KW1E101M CE04KW1H220M	CERAMIC 1000PF K CERAMIC 220PF J ELECTRO 100UF 25WV ELECTRO 22UF 50WV		
CN1 CN1 CN2 CN3 CN4			E40-3912-05 E40-8361-05 E40-3248-05 E40-3247-05 E40-8484-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY FLAT CABLE CONNECTOR		
CN5 CN6 CN7 CN10-15 CN21			E40-8483-05 E40-3259-05 E40-3253-05 E40-4871-05 E40-8429-05	FLAT CABLE CONNECTOR PIN ASSY PIN ASSY PIN ASSY SOCKET FOR PIN ASSY		
CN22 CN51 J3 J5 J6			E40-3253-05 E40-3247-05 E63-1247-05 E70-0150-05 E70-0160-05	PIN ASSY PIN ASSY PIN JACK SCREW TERMINAL BOARD LOCK TERMINAL BOARD		
J11 ,12 J21 ,22 J501 J501 WH1			E63-1317-05 E63-1317-05 E11-0190-05 E11-0271-05 E35-3240-15	PIN JACK PIN JACK PHONE JACK (3P) PHONE JACK (METAL SLEEVE) WIRING HARNESS		
WH2 WH3 WH3 WH4 WH4		*	E35-3247-05 E35-3305-15 E35-3508-05 E35-3391-05 E35-3507-05	WIRING HARNESS WIRING HARNESS WIRING HARNESS WIRING HARNESS WIRING HARNESS		
WH5 WH5 WH6 WH6		*	E35-3393-05 E35-3511-05 E35-3392-05 E35-3510-05	WIRING HARNESS WIRING HARNESS WIRING HARNESS WIRING HARNESS		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
WH21		*	E82-5515-04	FINISHED WIRE		
WH221		*	E35-3678-05	WIRING HARNESS		
L1 -6			L39-0085-05	PHASE COMPENSATION COIL		
R81 -84 R85 ,86 R87 ,88 R93 -96 R97 ,98			RD14NB2E221J RD14NB2E562J RD14NB2E331J RD14NB2E470J RD14NB2E221J	RD 220 J 1/4W RD 5.6K J 1/4W RD 330 J 1/4W RD 47 J 1/4W RD 220 J 1/4W		
R99 ,100 R101,102 R103,104 R131-134 R135,136			RD14NB2E330J RS14KB3D4R7J RS14KB3D391J RD14NB2E221J RD14NB2E562J	RD FL-PROOF RS 33 J 1/4W RD FL-PROOF RS 4.7 J 2W RD FL-PROOF RS 390 J 2W RD 220 J 1/4W RD 5.6K J 1/4W		
R137,138 R143-146 R147,148 R149,150 R151,152			RD14NB2E331J RD14NB2E470J RD14NB2E221J RD14NB2E330J RS14KB3D4R7J	RD 330 J 1/4W RD 47 J 1/4W RD 220 J 1/4W RD 33 J 1/4W RD FL-PROOF RS 4.7 J 2W		
R181-184 R185,186 R187,188 R193-196 R197,198			RD14NB2E221J RD14NB2E562J RD14NB2E331J RD14NB2E470J RD14NB2E221J	RD 220 J 1/4W RD 5.6K J 1/4W RD 330 J 1/4W RD 47 J 1/4W RD 220 J 1/4W		
R199,200			RD14NB2E330J	RD 33 J 1/4W		
R201,202 R301 R303 R304 R306			RS14KB3D4R7J RS14KB3D182J RD14NB2E1R0J RS14KB3A103J RD14NB2E101J	FL-PROOF RS 4.7 J 2W FL-PROOF RS 1.8K J 2W RD 1 J 1/4W FL-PROOF RS 10K J 1W RD 100 J 1/4W		
R307 R310,311 R314 R315,316 R317			RD14NB2E822J RS14KB3A680J RS14KB3A681J RD14NB2E100J RS14KB3D122J	RD 8.2K J 1/4W FL-PROOF RS 68 J 1W FL-PROOF RS 680 J 1W RD 10 J 1/4W FL-PROOF RS 1.2K J 2W		
R318 R321,322 R325,326 R331-333 R342			RS14KB3D152J RD14NB2E1R0J RD14NB2E472J RS14KB3D182J RS14KB3A100J	FL-PROOF RS 1.5K J 2W RD 1 J 1/4W RD 4.7K J 1/4W FL-PROOF RS 1.8K J 2W FL-PROOF RS 10 J 1W		
R343 R454 R476 VR1 -6			RS14KB3A470J RS14KB3A391J RD14NB2E561J R32-0032-05	FL-PROOF RS 47 J 1W FL-PROOF RS 390 J 1W RD 560 J 1/4W SEMI FIXED VARIABLE RESISTOR		
K1 K2 -5			S76-0134-05 S76-0045-15	MAGNETIC RELAY MAGNETIC RELAY		
D1 -6 D1 -6 D11 ,12 D11 ,12 D13			HSS104A 1SS133 D5SBA20F03 TS6P03G-B HSS104A	DIODE DIODE DIODE DIODE DIODE		
D13 D14 ,15			1SS133 1SR139-400	DIODE DIODE		

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D16			HSS104A	DIODE		
D16			1SS133	DIODE		
D17			MTZJ16(B)	ZENER DIODE		
D17			RD16ES(B)	ZENER DIODE		
D18			MTZJ15(B)	ZENER DIODE		
D18			RD15ES(B)	ZENER DIODE		
D19			MTZJ16(B)	ZENER DIODE		
D19			RD16ES(B)	ZENER DIODE		
D20 ,21			MTZJ6.8(B)	ZENER DIODE		
D20 ,21			RD6.8ES(B)	ZENER DIODE		
D22			MTZJ5.1(B)	ZENER DIODE		
D22			RD5.1ES(B)	ZENER DIODE		
D23			MTZJ10(B)	ZENER DIODE		
D23			RD10ES(B)	ZENER DIODE		
D24			MTZJ15(B)	ZENER DIODE		
D24			RD15ES(B)	ZENER DIODE		
D25			MTZJ24(B)	ZENER DIODE		
D25			RD24ES(B)	ZENER DIODE		
D27			1SS244	DIODE		
D28 -30			HSS104A	DIODE		
D28 -30			1SS133	DIODE		
D32 -35			HSS104A	DIODE		
D32 -35			1SS133	DIODE		
D51 ,52			1SS244	DIODE		
D53 ,54			HSS104A	DIODE		
D53 ,54			1SS133	DIODE		
D55 ,56			1SS244	DIODE		
D57 ,58			HSS104A	DIODE		
D57 ,58			1SS133	DIODE		
D59 ,60			1SS244	DIODE		
D61			HSS104A	DIODE		
D61			1SS133	DIODE		
D63			MTZJ3.9(B)	ZENER DIODE		
D63			RD3.9ES(B)	ZENER DIODE		
D64			HSS104A	DIODE		
D64			1SS133	DIODE		
D65			MTZJ3.9(B)	ZENER DIODE		
D65			RD3.9ES(B)	ZENER DIODE		
D66			HSS104A	DIODE		
D66			1SS133	DIODE		
D67			MTZJ3.9(B)	ZENER DIODE		
D67			RD3.9ES(B)	ZENER DIODE		
D68			HSS104A	DIODE		
D68			1SS133	DIODE		
D69			MTZJ3.9(B)	ZENER DIODE		
D69			RD3.9ES(B)	ZENER DIODE		
D221			MTZJ11(B)	ZENER DIODE		
D221			RD11ES(B)	ZENER DIODE		
D602-604			HSS104A	DIODE		
D602-604			1SS133	DIODE		
IC1			NJM4580L	ANALOGUE IC		
IC2			M61516FP	ANALOGUE IC		
IC5			LC4966	MOS-IC		
Q1 -4			2SA992(F,E)	TRANSISTOR		
Q5 ,6			2SA1123(R,S)	TRANSISTOR		
Q7 -10			2SC2631(R,S)	TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Δ Q11 ,12			TRAIT3KN	TRANSISTOR		
Δ Q13 ,14			TRAIT3KP	TRANSISTOR		
Q21 -24			2SA992(F,E)	TRANSISTOR		
Q25 ,26			2SA1123(R,S)	TRANSISTOR		
Q27 -30			2SC2631(R,S)	TRANSISTOR		
Δ Q31 ,32			TRAIT3KN	TRANSISTOR		
Δ Q33 ,34			TRAIT3KP	TRANSISTOR		
Δ Q41 -44			2SA992(F,E)	TRANSISTOR		
Q45 ,46			2SA1123(R,S)	TRANSISTOR		
Q47 -50			2SC2631(R,S)	TRANSISTOR		
Δ Q51 ,52			TRAIT3KN	TRANSISTOR		
Δ Q53 ,54			TRAIT3KP	TRANSISTOR		
Q301			KTC3200	TRANSISTOR		
Q302			DTC113ZSA	DIGITAL TRANSISTOR		
Q302			UN4219	DIGITAL TRANSISTOR		
Q303			2SC3940A(R,S)	TRANSISTOR		
Δ Q304			2SB1640	TRANSISTOR		
Q305			UN421N	DIGITAL TRANSISTOR		
Δ Q306			2SB1640	TRANSISTOR		
Δ Q307			2SD2525	TRANSISTOR		
Q308			2SA992(F,E)	TRANSISTOR		
Q309-312			KTC3200	TRANSISTOR		
Q331-336			2SC2878(B)	TRANSISTOR		
Q351			UN421N	DIGITAL TRANSISTOR		
Q352			DTC124ESA	DIGITAL TRANSISTOR		
Q352			UN4212	DIGITAL TRANSISTOR		
Q353-358			2SC1845(F,E)	TRANSISTOR		
Q359			2SA992(F,E)	TRANSISTOR		
Q360,361			2SC1845(F,E)	TRANSISTOR		
Q362			2SA992(F,E)	TRANSISTOR		
Q363,364			2SC1845(F,E)	TRANSISTOR		
Q365			2SA992(F,E)	TRANSISTOR		
Q602-604			2SC1845(F,E)	TRANSISTOR		
Q605,606			2SC2878(B)	TRANSISTOR		
Q607			2SA992(F,E)	TRANSISTOR		
SUB (X13-7940-10)						
C101-106			CC45FCH1H100D	CERAMIC	10PF	D
C107,108			CC45FSL1H820J	CERAMIC	82PF	J
C109			CC45FCH1H100D	CERAMIC	10PF	D
C110-115			CE04KW1H010M	ELECTRO	1.0UF	50WV
C116-118			CE04KW1A471M	ELECTRO	470UF	10WV
C119-126			CK45FF1H103Z	CERAMIC	0.010UF	Z
C127			CE04KW1V330M	ELECTRO	33UF	35WV
C128-130			CC45FCH1H100D	CERAMIC	10PF	D
C131-133			CE04KW1H010M	ELECTRO	1.0UF	50WV
C134-136			CK45FF1H103Z	CERAMIC	0.010UF	Z
C137			CE04KW1E470M	ELECTRO	47UF	25WV
C138-140			CQ93FMG1H104J	MYLAR	0.10UF	J
C141			CC45FCH1H100D	CERAMIC	10PF	D
C142			CE04KW1H100M	ELECTRO	10UF	50WV
C151,152			CE04KW1H4R7M	ELECTRO	4.7UF	50WV
C153,154			CE04KW1E470M	ELECTRO	47UF	25WV
C155,156			CC45FSL1H820J	CERAMIC	82PF	J
C157,158			CE04KW1H220M	ELECTRO	22UF	50WV
C169			CK73GB1H331K	CHIP C	330PF	K
C201			CE04KW1H100M	ELECTRO	10UF	50WV
						89
						89
						89
						89
						9

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C202			CK45FF1H103Z	CERAMIC 0.010UF Z	9	
C203			CQ93FMG1H683J	MYLAR 0.068UF J	9	
C205,206			CK45FF1H103Z	CERAMIC 0.010UF Z	9	
C207			CE04KW1A101M	ELECTRO 100UF 10WV	9	
C208			CE04KW1A221M	ELECTRO 220UF 10WV	9	
C209			CK45FF1H103Z	CERAMIC 0.010UF Z	9	
C210			CC45FSL1H221J	CERAMIC 220PF J	9	
C211-213			CC45FSL1H101J	CERAMIC 100PF J	9	
C214,215			CK45FF1H103Z	CERAMIC 0.010UF Z	9	
C216			CE04KW1H010M	ELECTRO 1.0UF 50WV	9	
C291			CE04KW2A101M	ELECTRO 100UF 100WV	7	
C292			CC73GCH1H180J	CHIP C 18PF J	7	
C301-310			CC45FSL1H221J	CERAMIC 220PF J	89	
C311-313			CK45FB1H332K	CERAMIC 3300PF K	89	
C315-317			CC45FSL1H101J	CERAMIC 100PF J	89	
C401-406			CE04KW1H220M	ELECTRO 22UF 50WV	89	
C407-412			CK45FB1H471K	CERAMIC 470PF K	89	
C419			CE04KW1E221M	ELECTRO 220UF 25WV	89	
C420			CE04KW1E101M	ELECTRO 100UF 25WV	89	
C425,426			CC45FSL1H101J	CERAMIC 100PF J	89	
C427-430			CC45FCH1H100D	CERAMIC 10PF D	89	
C431-436			CE04KW1E470M	ELECTRO 47UF 25WV	89	
C437,438			CE04HW1E220M	NP-ELEC 22UF 25WV	89	
C439			CE04KW1E470M	ELECTRO 47UF 25WV	89	
C440			CE04KW1H100M	ELECTRO 10UF 50WV	89	
C441,442			CE04KW1A101M	ELECTRO 100UF 10WV	89	
C443-446			CE04KW1H220M	ELECTRO 22UF 50WV	89	
C447			CE04KW1H100M	ELECTRO 10UF 50WV	89	
C448			CE04KW2A3R3M	ELECTRO 3.3UF 100WV	89	
C449,450			CE04KW1H220M	ELECTRO 22UF 50WV	89	
C451			CE04KW1E221M	ELECTRO 220UF 25WV	89	
C452			CE04KW1H220M	ELECTRO 22UF 50WV	89	
C453,454			CK45FB1H471K	CERAMIC 470PF K	89	
C457			CQ93FMG1H392J	MYLAR 3900PF J	89	
C458			CC45FCH1H100D	CERAMIC 10PF D	89	
C459			CC73GCH1H470J	CHIP C 47PF J	89	
C536			CK73GB1H182K	CHIP C 1800PF K		
C538			CK73GB1H102K	CHIP C 1000PF K		
C540			CE04KW1H220M	ELECTRO 22UF 50WV		
C544,545			CK73GB1H103K	CHIP C 0.010UF K		
C600			CE04KW1H100M	ELECTRO 10UF 50WV		
C601-606			CC45FSL1H470J	CERAMIC 47PF J	89	
C607			CC45FSL1H470J	CERAMIC 47PF J		
C608-611			CE04KW1E470M	ELECTRO 47UF 25WV		
C612			CE04KW1A101M	ELECTRO 100UF 10WV		
C613-615			CE04KW1V330M	ELECTRO 33UF 35WV		
C616			CE04KW1E470M	ELECTRO 47UF 25WV		
C617			CK73GB1H103K	CHIP C 0.010UF K		
C618			CE04KW1H100M	ELECTRO 10UF 50WV		
C619			CE04KW1V330M	ELECTRO 33UF 35WV		
C620			CE04KW1H100M	ELECTRO 10UF 50WV		
C621			CK73GF1H104Z	CHIP C 0.10UF Z		
C622			CE04KW1V330M	ELECTRO 33UF 35WV		
C625			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C626,627			CK73FF1C105Z	CHIP C 1.0UF Z		

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C651-662			CC45FSL1H470J	CERAMIC 47PF J		
C663			CK45FF1H103Z	CERAMIC 0.010UF Z		
C664			CE04KW1E470M	ELECTRO 47UF 25WV		
C665			CK45FF1H103Z	CERAMIC 0.010UF Z		
C666			CE04KW1E470M	ELECTRO 47UF 25WV		
C667			CK45FF1H103Z	CERAMIC 0.010UF Z		
C668			CE04KW1E470M	ELECTRO 47UF 25WV		
C669			CK45FF1H103Z	CERAMIC 0.010UF Z		
C670,671			CE04KW1E470M	ELECTRO 47UF 25WV		
C672			CK45FF1H103Z	CERAMIC 0.010UF Z		
C673			CE04KW1E470M	ELECTRO 47UF 25WV		
C674-677			CE04KW1H100M	ELECTRO 10UF 50WV		
C681			CE04KW1A471M	ELECTRO 470UF 10WV		
C682			CK73GB1C104K	CHIP C 0.10UF K		
C693			CC45FSL1H101J	CERAMIC 100PF J		
C694			CK45FF1H103Z	CERAMIC 0.010UF Z	79	
C699			CK73GF1H104Z	CHIP C 0.10UF Z		
C702-705			CE04KW1H3R3M	ELECTRO 3.3UF 50WV	89	
C706,707			CC45FSL1H331J	CERAMIC 330PF J	89	
C708,709			CK45FB1H222K	CERAMIC 2200PF K	89	
C710,711			CC45FCH1H050C	CERAMIC 5.0PF C	89	
C712			CC45FSL1H221J	CERAMIC 220PF J	89	
C713			CC45FSL1H101J	CERAMIC 100PF J	89	
C714,715			CE04KW1A221M	ELECTRO 220UF 10WV	89	
C716,717			CC45FCH1H150J	CERAMIC 15PF J	89	
C718,719			CC45FSL1H151J	CERAMIC 150PF J	89	
C720			CK45FB1H102K	CERAMIC 1000PF K	89	
C721			CK45FB1H561K	CERAMIC 560PF K	89	
C722			CE04KW1H220M	ELECTRO 22UF 50WV	89	
C724,725			CC45FSL2H470J	CERAMIC 47PF J	89	
C728			CK45FF1H472Z	CERAMIC 4700PF Z	89	
C730			C91-1573-05	MP-C 0.10UF J	9	
C730			C91-1577-05	MP-C 0.22UF J	8	
C732			C91-1577-05	MP-C 0.22UF J	8	
C733			CC45FSL1H101J	CERAMIC 100PF J	89	
C734			CK45FF1H103Z	CERAMIC 0.010UF Z	89	
CN11		*	E41-0947-05	PIN ASSY		
CN12		*	E41-0932-05	PIN ASSY		
CN65		*	E41-0930-05	PIN ASSY		
CN67		*	E41-0927-05	PIN ASSY		
CN68		*	E41-0929-05	PIN ASSY		
CN151		*	E41-0949-05	PIN ASSY	89	
CN201		*	E41-0928-05	PIN ASSY	7	
CN301		*	E40-8484-05	FLAT CABLE CONNECTOR	89	
CN302		*	E41-1011-05	PIN ASSY	89	
CN303		*	E41-0929-05	PIN ASSY	89	
CN304		*	E41-1010-05	PIN ASSY	89	
CN702		*	E41-1018-05	PIN ASSY	89	
CN703		*	E41-1009-05	PIN ASSY	89	
CN704		*	E41-0929-05	PIN ASSY	89	
CN705		*	E40-4671-15	SOCKET FOR PIN ASSY	89	
CN706		*	E40-4871-05	PIN ASSY	89	
CN707		*	E41-1010-05	PIN ASSY	89	
J61 ,62			E63-1253-05	PIN JACK		

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J63 J65 -67 J101 J102,103 J201			E63-1252-05 E56-0040-05 E63-1249-05 E63-1250-05 E11-0389-05	PIN JACK CYLINDRICAL RECEPTACLE PIN JACK PIN JACK 3.5D PHONE JACK(3.5 STEREO BL)	89 9	
J202 J302 J303 J502 WH61			E11-0291-05 E63-1246-05 E63-1248-05 E70-0192-05 E82-6522-04	3.5D PHONE JACK(2P) PIN JACK PIN JACK SCREW TERMINAL BOARD FINISHED WIRE	9 89 89 89 89	
WH62 WH63 WH64 WH65 WH303		*	E35-3653-05 E35-3705-05 E35-3706-05 E35-3707-05 E35-3696-05	WIRING HARNESS WIRING HARNESS WIRING HARNESS WIRING HARNESS WIRING HARNESS	 89	
WH701 WH704		*	E35-3659-05 E35-3658-05	WIRING HARNESS WIRING HARNESS	89 89	
L201 L202 L502 L503 L504			L40-1011-58 L92-0017-05 L76-0018-05 L76-0019-05 L79-1262-05	SMALL FIXED INDUCTOR(100UH,K) FERRITE CORE DELAY LINE DELAY LINE LC FILTER	9 9 79 8 8	
L702			L39-0085-05	PHASE COMPENSATION COIL	89	
Δ R205 R213,214 R217 R291 R292			RD14BB2C101J RD14NB2E471J RD14NB2E471J RD14NB2E471J RK73GB1J472J	RD 100 J 1/6W RD 470 J 1/4W RD 470 J 1/4W RD 470 J 1/4W CHIP R 4.7K J 1/16W	9 9 9 7 7	
Δ R425 R434 Δ R450 Δ R451 R452			RD14NB2E561J RD14NB2E150J RD14NB2E561J RD14NB2E102J RD14NB2E150J	RD 560 J 1/4W RD 15 J 1/4W RD 560 J 1/4W RD 1.0K J 1/4W RD 15 J 1/4W	89 89 89 89 89	
R529 R530 R532 R534 R536			RK73GB1J103J RK73GB1J223J RK73GB1J332J RK73GB1J562J RK73GB1J103J	CHIP R 10K J 1/16W CHIP R 22K J 1/16W CHIP R 3.3K J 1/16W CHIP R 5.6K J 1/16W CHIP R 10K J 1/16W	 	
R539 R540 R542 R545 R546			RK73GB1J223J RK73GB1J103J RK73GB1J104J RK73GB1J101J RK73GB1J474J	CHIP R 22K J 1/16W CHIP R 10K J 1/16W CHIP R 100K J 1/16W CHIP R 100 J 1/16W CHIP R 470K J 1/16W	 	
R549 R550 R552 R554 R556			RK73GB1J183J RK73GB1J103J RK73GB1J363J RK73GB1J103J RK73GB1J472J	CHIP R 18K J 1/16W CHIP R 10K J 1/16W CHIP R 36K J 1/16W CHIP R 10K J 1/16W CHIP R 4.7K J 1/16W	 	
R561,562 R563,564 R600 R611,612 R613			RK73GB1J104J RK73GB1J102J RK73GB1J101J RK73GB1J101J RK73GB1J105J	CHIP R 100K J 1/16W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 1.0M J 1/16W	 	

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Δ R617 R621-623 Δ R624 R667 Δ R671			RS14KB3A150J RK73GB1J104J RS14KB3A150J RK73GB1J104J RS14KB3A150J	FL-PROOF RS 15 J 1W CHIP R 100K J 1/16W FL-PROOF RS 15 J 1W CHIP R 100K J 1/16W FL-PROOF RS 15 J 1W	 	
Δ R674 R695 R699 R723,724 R725,726			RS14KB3A470J RK73GB1J101J RK73GB1J105J RD14NB2E221J RD14NB2E562J	FL-PROOF RS 47 J 1W CHIP R 100 J 1/16W CHIP R 1.0M J 1/16W RD 220 J 1/4W RD 5.6K J 1/4W	 89 89	
R727,728 R729,730 R746 R748 R752			RD14NB2E331J RD14NB2E221J RD14NB2E330J RS14KB3D4R7J RS14KB3D182J	RD 330 J 1/4W RD 220 J 1/4W RD 33 J 1/4W FL-PROOF RS 4.7 J 2W FL-PROOF RS 1.8K J 2W	89 89 89 89 89	
R756 R758 R760 VR702 W1 -10 W70 -76 K702			RD14NB2E470J RD14NB2E470J RD14NB2E271J R32-0030-05 R92-1252-05 R92-1252-05 S76-0098-05	RD 47 J 1/4W RD 47 J 1/4W RD 270 J 1/4W SEMI FIXED VARIABLE RESISTOR CHIP R 0 OHM J 1/6W CHIP R 0 OHM J 1/6W MAGNETIC RELAY	89 89 89 89 89	
D101 D101 D155-157 D155-157 D201-205 Δ D201-205 Δ D206 D206 D291 D292			MTZJ10(B) RD10ES(B) MTZJ7.5(B) RD7.5JS(B) HSS104A 1SS133 HSS104A 1SS133 MTZJ20(B) MTZJ30(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE DIODE DIODE ZENER DIODE ZENER DIODE	 89 89 9 9 9 9 7 7	
D401 D401 D402 D402 D503			MTZJ3.9(B) RD3.9ES(B) MTZJ5.1(B) RD5.1ES(B) DA204U	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE	 89 89 89 89	
D503 D652 D652 D655,656 D655,656			1SS302 HSS104A 1SS133 MTZJ5.6(B) RD5.6ES(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	 	
D701-704 D701-704 D706 D708 D708			HSS104A 1SS133 1SS244 HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE	89 89 89 89 89	
D710 D710 IC3 IC6 IC11			HSS104A 1SS133 BU4066BC NJM4580D-D NJM2585M	DIODE DIODE ANALOGUE IC IC(OP AMP X2) ANALOGUE IC	89 89 89 89 89	
IC65		*	LA79510M	ANALOGUE IC		

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△ IC66		*	NJM2284V	ANALOGUE IC		
△ IC68,69		*	NJM2575	ANALOGUE IC	9	
△ IC201			BA05T	ANALOGUE IC	89	
△ IC401-404			NJM4580D-D	IC(OP AMP X2)		
△ IC507			NJM4565M	ANALOGUE IC		
△ IC508			BA7623F	ANALOGUE IC		
△ Q65			2SD2525	TRANSISTOR		
△ Q66			2SB1640	TRANSISTOR		
△ Q101			2SC2003(L,K)	TRANSISTOR		
△ Q158,159			DTC124ESA	DIGITAL TRANSISTOR	89	
Q158,159			KRC103M	DIGITAL TRANSISTOR	89	
Q158,159			UN4212	DIGITAL TRANSISTOR	89	
Q201			DTC124ESA	DIGITAL TRANSISTOR	9	
Q201			KRC103M	DIGITAL TRANSISTOR	9	
Q201			UN4212	DIGITAL TRANSISTOR	9	
Q202,203			KTC3199(Y,GR)	TRANSISTOR	9	
Q202,203			2SC1740S(Q,R)	TRANSISTOR	9	
Q202,203			2SC2785(F,E)	TRANSISTOR	9	
Q204			KTA1267(Y,GR)	TRANSISTOR	9	
Q204			2SA1175(F,E)	TRANSISTOR	9	
△ Q204			2SA933AS(Q,R)	TRANSISTOR	9	
△ Q299			2SD2012	TRANSISTOR	7	
Q301-320			2SC2878(B)	TRANSISTOR	89	
Q401,402			DTA124ESA	DIGITAL TRANSISTOR	89	
Q401,402			KRA103M	DIGITAL TRANSISTOR	89	
Q401,402			UN4112	DIGITAL TRANSISTOR	89	
Q403-408			2SC2878(B)	TRANSISTOR	89	
Q409			DTA124ESA	DIGITAL TRANSISTOR	89	
Q409			KRA103M	DIGITAL TRANSISTOR	89	
Q409			UN4112	DIGITAL TRANSISTOR	89	
Q411,412			2SC2878(B)	TRANSISTOR	89	
Q501,502			2SC4213(B)	TRANSISTOR		
Q512			2SC4081(R,S)	TRANSISTOR		
Q512			2SD1819A(Q,R)	TRANSISTOR		
Q701,702			2SC2878(B)	TRANSISTOR	89	
Q703-706			2SA992(F,E)	TRANSISTOR	89	
Q707,708			2SC2631(R,S)	TRANSISTOR	89	
Q709,710			2SA1123(R,S)	TRANSISTOR	89	
Q711,712			2SC2631(R,S)	TRANSISTOR	89	
Q714			2SC1845(F,E)	TRANSISTOR	89	
△ Q716			KTC3200	TRANSISTOR	89	
△ Q718			TRAIT8N*5	TRANSISTOR	89	
△ Q720			TRAIT8P*5	TRANSISTOR	89	
DISPLAY (X14-7780-10)						
D734			B30-2545-05	LED(RED3(160))		
D741-745			B30-2545-05	LED(RED3(160))	79Y1X1	
D741-752			B30-2651-05	LED(RED,D3,40DEG.)	E1E2	
D746-752			B30-2567-05	LED(RED(80) HI-BR)		
D746-752			B30-2651-05	LED(RED,D3,40DEG.)	79Y1X1	
D753			B30-2545-05	LED(RED3(160))		
D754			B30-2567-05	LED(RED(80) HI-BR)		
D754			B30-2651-05	LED(RED,D3,40DEG.)		
D755			B30-2545-05	LED(RED3(160))	79Y1X1	
D755			B30-2651-05	LED(RED,D3,40DEG.)	E1E2	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C101			CC45FSL1H101J	CERAMIC	100PF	J
C103			CK73GB1H103K	CHIP C	0.010UF	K
C104			CC73GCH1H101J	CHIP C	100PF	J
C105			CC45FCH1H101J	CERAMIC	100PF	J
C401			CK45FE2H103P	CERAMIC	0.010UF	P
C402			CE04KW1E222M	ELECTRO	2200UF	25WV
C403			CE04KW1E102M	ELECTRO	1000UF	25WV
C404-407			CK73GB1H103K	CHIP C	0.010UF	K
C408,409			CE04KW1E470M	ELECTRO	47UF	25WV
C410			CC73GCH1H680J	CHIP C	68PF	J
C411			CC73GCH1H820J	CHIP C	82PF	J
C451			CK45FF1H103Z	CERAMIC	0.010UF	Z
C452			CQ93FMG1H104J	MYLAR	0.10UF	J
C452			CQ93FMG1H393J	MYLAR	0.039UF	J
C452			CQ93FMG1H473J	MYLAR	0.047UF	J
C452			CQ93FMG1H683J	MYLAR	0.068UF	J
C453			CE04KW1C332M	ELECTRO	3300UF	16WV
C453			CE04KW1E332M	ELECTRO	3300UF	25WV
C454			CE04LW1H100M	ELECTRO	10UF	50WV
C455			CE04LW0J222M	ELECTRO	2200UF	6.3WV
C456,457			CK45FF1H103Z	CERAMIC	0.010UF	Z
C458			CE04LW1H100M	ELECTRO	10UF	50WV
C459			CE04LW1H010M	ELECTRO	1.0UF	50WV
C501-504			CC45FCH1H101J	CERAMIC	100PF	J
C505,506			CK45FB1H102K	CERAMIC	1000PF	K
C507,508			CC45FCH1H101J	CERAMIC	100PF	J
C509			CK45FB1H471K	CERAMIC	470PF	K
C510			CC73GCH1H101J	CHIP C	100PF	J
C511			CC45FCH1H101J	CERAMIC	100PF	J
C701			CC73GCH1H221J	CHIP C	220PF	J
C702			CE04LW1H101M	ELECTRO	100UF	50WV
C703,704			CC73GCH1H102J	CHIP C	1000PF	J
C705			CC73GCH1H181J	CHIP C	180PF	J
C741			CK73EF1E105Z	CHIP C	1.0UF	Z
C761,762			CK73GB1H103K	CHIP C	0.010UF	K
C763,764			CK45FF1H103Z	CERAMIC	0.010UF	Z
C765,766			CK73GB1H103K	CHIP C	0.010UF	K
C777			CK45FB1H102K	CERAMIC	1000PF	K
C778			CC45FCH1H101J	CERAMIC	100PF	J
C779			CE04LW1A101M	ELECTRO	100UF	10WV
C780			CC73GCH1H270J	CHIP C	27PF	J
C791			CE04RW0J470M	ELECTRO	47UF	6.3WV
C792			CE04LW1H220M	ELECTRO	22UF	50WV
C793,794			CK45FF1H103Z	CERAMIC	0.010UF	Z
C811			CK45FF1H103Z	CERAMIC	0.010UF	Z
C812,813			CC45FCH1H270J	CERAMIC	27PF	J
C814			CC45FCH1H101J	CERAMIC	100PF	J
C815			CE04LW1E470M	ELECTRO	47UF	25WV
C816			CK45FB1H561K	CERAMIC	560PF	K
C817			CK45FF1H103Z	CERAMIC	0.010UF	Z
C818			CC45FSL1H271J	CERAMIC	270PF	J
C819			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C831			CK45FF1H103Z	CERAMIC	0.010UF	Z
C832			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C833			CK45FF1H103Z	CERAMIC	0.010UF	Z

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PARTS LIST

KRF-X9080D/VR-8070/8060

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C841			CE04EW0J102M	ELECTRO 1000UF 6.3WV	79	
C842			C90-1826-05	BACKUP-C 0.047F 5.5WV	8	
C843			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C844			CK45FF1H103Z	CERAMIC 0.010UF Z		
C845			CK73GB1H103K	CHIP C 0.010UF K		
C851			CE04LW1H100M	ELECTRO 10UF 50WV		
C852-855			CC45FSL1H221J	CERAMIC 220PF J		
C856,857			CK45FF1H103Z	CERAMIC 0.010UF Z		
C858			CE04LW1A101M	ELECTRO 100UF 10WV		
C907			CK73GB1H103K	CHIP C 0.010UF K		
C908			CK45FF1H103Z	CERAMIC 0.010UF Z	Y1	
C909			CK73GB1H103K	CHIP C 0.010UF K		
CN1			E40-8386-05	PIN ASSY	Y1	
CN41			E40-3261-05	PIN ASSY		
CN45			E40-4245-05	PIN ASSY		
CN46			E40-4632-05	PIN ASSY	8	
CN47			E40-4245-05	PIN ASSY	X1E1E2	
CN47			E40-4245-05	PIN ASSY	79	
CN48			E40-4428-05	PIN ASSY	Y1	
CN49			E40-3246-05	PIN ASSY		
CN50			E40-3251-05	PIN ASSY		
CN70			E40-3261-05	PIN ASSY		
Δ CN80			E40-3261-05	PIN ASSY	79Y1	
Δ J2			E03-0396-05	AC OUTLET	E1E2	
Δ J3			E03-0398-05	AC OUTLET	X1	
Δ J5			E03-0325-05	AC OUTLET		
Δ J20			E63-1251-05	PIN JACK		
J21			E56-0033-05	CYLINDRICAL RECEPTACLE		
WH1		*	E35-2554-05	WIRING HARNESS	Y1	
WH5		*	E35-2167-05	WIRING HARNESS	8	
WH20		*	E35-3159-15	WIRING HARNESS		
WH20		*	E35-3445-05	WIRING HARNESS		
WH20		*	E35-3521-05	WIRING HARNESS		
WH42		*	E35-3158-25	WIRING HARNESS		
WH42		*	E35-3444-05	WIRING HARNESS		
WH42		*	E35-3525-05	WIRING HARNESS		
WH70		*	E35-2560-05	WIRING HARNESS		
WH70		*	E35-3513-05	WIRING HARNESS		
WH78		*	E35-3149-15	WIRING HARNESS		
WH78		*	E35-3435-05	WIRING HARNESS		
WH78		*	E35-3519-05	WIRING HARNESS		
WH80		*	E35-3251-05	WIRING HARNESS		
WH80		*	E35-3446-05	WIRING HARNESS		
WH80		*	E35-3516-05	WIRING HARNESS		
WH86		*	E35-3405-05	LEAD WIRE		
WH87		*	E35-3150-15	WIRING HARNESS		
WH87		*	E35-3436-05	WIRING HARNESS		
WH87		*	E35-3520-05	WIRING HARNESS		
WH88		*	E35-3151-15	WIRING HARNESS		
WH88		*	E35-3437-05	WIRING HARNESS		
WH88		*	E35-3512-05	WIRING HARNESS		
WH89		*	E35-3152-15	WIRING HARNESS		
WH89		*	E35-3438-05	WIRING HARNESS		
WH89		*	E35-3524-05	WIRING HARNESS		

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WH90		*	E35-3345-05	WIRING HARNESS		
WH90		*	E35-3447-05	WIRING HARNESS		
WH90		*	E35-3527-05	WIRING HARNESS		
WH91		*	E35-3154-25	WIRING HARNESS		
WH91		*	E35-3440-05	WIRING HARNESS		
WH91		*	E35-3517-05	WIRING HARNESS		
WH92		*	E35-3153-15	WIRING HARNESS		
WH92		*	E35-3439-05	WIRING HARNESS		
WH92		*	E35-3518-05	WIRING HARNESS		
WH93		*	E35-3155-25	WIRING HARNESS		
WH93		*	E35-3441-05	WIRING HARNESS		
WH93		*	E35-3523-05	WIRING HARNESS		
WH94		*	E35-3156-15	WIRING HARNESS		
WH94		*	E35-3442-05	WIRING HARNESS		
WH94		*	E35-3526-05	WIRING HARNESS		
Δ F1			F05-4025-05	FUSE (SEMKO) (250V T4A L)	8	
Δ F1			F50-0078-05	FUSE(5X20)	79	
Δ F2			F06-1022-05	FUSE (SEMKO) (250V T1AL)	8	
Δ F3			F05-4025-05	FUSE (SEMKO) (250V T4A L)	Y1	
CN3 ,4			J13-0075-05	FUSE CLIP	Y1	
CN11,12			J13-0075-05	FUSE CLIP		
CN21,22			J13-0075-05	FUSE CLIP	8	
Δ T1			L07-2758-05	POWER TRANSFORMER	X1	
Δ T1			L07-2761-05	POWER TRANSFORMER	E1E2	
Δ T1			L07-2805-05	POWER TRANSFORMER	Y1	
Δ T1			L07-2809-05	POWER TRANSFORMER	79	
X701			L78-0725-05	RESONATOR (8.38MHZ)		
X811			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	E1E2	
R120			RK73GB1J102J	CHIP R 1.0K J 1/16W		
Δ R410			RS14KB3D181J	FL-PROOF RS 180 J 2W		
Δ R453			RD14NB2E1R0J	RD 1 J 1/4W		
Δ R454			RD14NB2E150J	RD 15 J 1/4W	Y1	
Δ R454			RD14NB2E270J	RD 27 J 1/4W	X1E1E2	
Δ R454			RD14NB2E270J	RD 27 J 1/4W		
Δ R457			R92-1844-05	CARBON 3.3M J 1/2W	79	
Δ R458			RD14NB2E120J	RD 12 J 1/4W	79	
R776			RD14NB2E100J	RD 10 J 1/4W	Y1	
R779			RK73GB1J333J	CHIP R 33K J 1/16W		
R780			RD14NB2E100J	RD 10 J 1/4W		
R782			RK73GB1J303J	CHIP R 30K J 1/16W		
R801,802			RK73GB1J331J	CHIP R 330 J 1/16W		
R803			RK73GB1J104J	CHIP R 100K J 1/16W		
R805			RK73GB1J104J	CHIP R 100K J 1/16W		
R807,808			RK73GB1J103J	CHIP R 10K J 1/16W		
R834			RD14NB2E102J	RD 1.0K J 1/4W	Y1	
R894			RK73GB1J101J	CHIP R 100 J 1/16W		
R896-898			RK73GB1J101J	CHIP R 100 J 1/16W		
R910,911			RK73GB1J104J	CHIP R 100K J 1/16W		
R922-924			RK73GB1J101J	CHIP R 100 J 1/16W		
R926			RK73GB1J101J	CHIP R 100 J 1/16W		
R935			RK73GB1J101J	CHIP R 100 J 1/16W		
R938,939			RK73GB1J101J	CHIP R 100 J 1/16W		
R951,952			RK73GB1J104J	CHIP R 100K J 1/16W		

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KRF-X9080D/VR-8070/8060
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R967-969 R970 R971, 972 R977 R977			RK73GB1J104J RK73GB1J153J RK73GB1J104J RK73GB1J123J RK73GB1J273J	CHIP R 100K J 1/16W CHIP R 15K J 1/16W CHIP R 100K J 1/16W CHIP R 12K J 1/16W CHIP R 27K J 1/16W	Y1 E1E2	
R977 R993 R997 W999			RK73GB1J472J RK73GB1J101J RD14NB2E1R0J R92-0679-05	CHIP R 4.7K J 1/16W CHIP R 100 J 1/16W RD 1 J 1/4W CHIP R 0 OHM	X1	
Δ K451 Δ K451 Δ S1 Δ S2 S701-725			S76-0107-05 S76-0110-05 S62.1.5 S68-0142-05 S70-0086-05	MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH PUSH SWITCH TACT SWITCH	79 8 Y1 8	
S731-733			S70-0086-05	TACT SWITCH		
S761,762 S763			T99-0663-05 T99-0664-05	ROTARY ENCODER ROTARY ENCODER		
Δ D401 Δ D451,452 Δ D453 D454 D455			D2SBA20F03 1SS133 S1ZB20(4101) 1SS133 RB721Q	DIODE DIODE DIODE DIODE DIODE		
D501-504 D776 D776 D791 D801-806			1SS133 MTZJ5.1(B) RD5.1ES(B) 1SS133 1SS133	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
Δ D831 Δ D841 Δ D842 Δ D843 D844			1SS133 RB721Q 1SS133 RB721Q 1SS133	DIODE DIODE DIODE DIODE DIODE	Y1	
D846 D961-964 ED78 Δ IC45 IC74			1SS133 1SS133 HNA-16MM36T BA05T BU2090	DIODE DIODE FLUORESCENT INDICATOR TUBE ANALOGUE IC ANALOGUE IC		
Δ IC78 Δ IC79 IC81 IC83 IC84			LC75711NED XC6202P502PR BU1923 S-80840CNY S-80840CNY	MOS-IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	E1E2 Y1	
Δ IC90 Δ IC90 Δ IC401 Δ IC402 Q451		*	MN101C49HNJ2 MN101C49HNK KIA7812API KIA7912PI KTC3199(Y,GR)	MICROCONTROLLER IC MICROCONTROLLER IC ANALOGUE IC ANALOGUE IC TRANSISTOR	7 89	
Q451 Q451 Q731 Q731 Q776			2SC1740S(Q,R) 2SC2785(F,E) DTC113ZSA UN4219 KTC3199(Y,GR)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q776			2SC1740S(Q,R)	TRANSISTOR		

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Q776 Q777,778 Q777,778 Q777,778 Q841			2SC2785(F,E) DTC124ESA KRC103M UN4212 KTC3199(Y,GR)	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q841 Q841 Q842 Q842 Q842			2SC1740S(Q,R) 2SC2785(F,E) KTA1267(Y,GR) 2SA1175(F,E) 2SA933AS(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q843 Q843 TH1			DTC113ZSA UN4219 MF-R090	DIGITAL TRANSISTOR DIGITAL TRANSISTOR THERMISTOR		
A791			W02-2769-05	ELECTRIC CIRCUIT MODULE		
SUB (X25-6620-12) VR-8060						
C305,306 C310 C311-313 C315-317 C406			CC45FSL1H221J CC45FSL1H221J CK45FB1H332K CC45FSL1H101J CE04KW1H220M	CERAMIC 220PF J CERAMIC 220PF J CERAMIC 3300PF K CERAMIC 100PF J ELECTRO 22UF 50WV		
C412 C419 C420 C430 C433,434			CC45FSL1H221J CE04KW1E221M CE04KW1E101M CC45FCH1H100D CE04KW1E470M	CERAMIC 220PF J ELECTRO 220UF 25WV ELECTRO 100UF 25WV CERAMIC 10PF D ELECTRO 47UF 25WV		
C438 C440 C446 C449 C450			CE04HW1E220M CE04KW1E470M CE04KW1H220M CE04KW1H220M CE04KW1H4R7M	NP-ELEC 22UF 25WV ELECTRO 47UF 25WV ELECTRO 22UF 50WV ELECTRO 22UF 50WV ELECTRO 4.7UF 50WV		
C451 C452 C453,454 C457 C458			CE04KW1E221M CE04KW1H220M CC45FSL1H221J CQ93FMG1H392J CC45FCH1H100D	ELECTRO 220UF 25WV ELECTRO 22UF 50WV CERAMIC 220PF J MYLAR 3900PF J CERAMIC 10PF D		
C459			CC45FSL1H470J	CERAMIC 47PF J		
CN301 CN302 CN303 CN304 J301			E40-8483-05 E40-4101-05 E40-3248-05 E40-4248-05 E70-0150-05	FLAT CABLE CONNECTOR PIN ASSY PIN ASSY PIN ASSY SCREW TERMINAL BOARD		
J302 J303 WH1 WH1 WH2		*	E63-0133-15 E63-1146-05 E35-3390-05 E35-3514-05 E35-3247-05	PIN JACK PIN JACK WIRING HARNESS WIRING HARNESS WIRING HARNESS		
Δ R425 R434 R452			RD14NB2E561J RD14GB2E150J RD14GB2E150J	RD 560 J 1/4W FL-PROOF RD 15 J 1/4W FL-PROOF RD 15 J 1/4W		
D401 D401 IC403 IC404			MTZJ3.9(B) RD3.9ES(B) NJM4580D-D NJM4565D-D	ZENER DIODE ZENER DIODE IC(OP AMP X2) IC(OP AMP X2)		

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PARTS LIST

KRF-X9080D/VR-8070/8060

KRF-X9080D/VR-8070/8060

PARTS LIST

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Q305,306 Q310 Q315,316 Q320 Q402 Q402 Q402			2SC2878(B) 2SC2878(B) 2SC2878(B) 2SC2878(B) DTA124ESA KRA103M UN4112	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		

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Model Name	Model #		ABB.	Surround	Audio	Sub	Display	Sub
VR-8070	Y05-4940-10	K	K1	X08-3310-12	X09-6860-10	X13-7940-11	X14-7780-11	-
VR-8070	Y05-4941-01	P	P1	X08-3310-12	X09-6860-10	X13-7940-11	X14-7780-11	-
VR-8070-S	Y05-4940-11	K	K2	X08-3310-12	X09-6860-10	X13-7940-11	X14-7780-11	-
VR-8070-S	Y05-4941-02	P	P2	X08-3310-12	X09-6860-10	X13-7940-11	X14-7780-11	-
KRF-X9080D	Y05-4942-91	y	Y1	X08-3312-91	X09-6862-91	X13-7942-91	X14-7782-91	-
KRF-X9080D-S	Y05-4940-71	x	X1	X08-3310-71	X09-6862-91	X13-7940-71	X14-7780-71	-
KRF-X9080D	Y05-4942-71	E	E1	X08-3312-72	X09-6862-71	X13-7942-71	X14-7782-71	-
KRF-X9080D-S	Y05-4942-72	E	E2	X08-3312-72	X09-6862-71	X13-7942-71	X14-7782-71	-
VR-8060-S	Y05-4940-12	K	K3	X08-3310-11	X09-6760-13	X13-7940-10	X14-7780-10	X25-6620-12
VR-8060-S	Y05-4940-13	P	P3	X08-3310-11	X09-6760-13	X13-7940-10	X14-7780-10	X25-6620-12

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
		X	P	-	-	E	-	-	-
VR-8070	9	-	P1	-	-	-	-	-	-
VR-8070-S	9	-	P2	-	-	-	-	-	-
KRF-X9080D	8	-	-	-	-	E1	-	-	-
KRF-X9080D-S	8	X1	-	-	-	E2	-	-	-
VR-8060	7	-	P3	-	-	-	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
		-	Y	-	-	-	K	-	
VR-8070	9	-	-	-	-	-	K1	-	-
VR-8070-S	9	-	-	-	-	-	K2	-	-
KRF-X9080D	8	-	Y1	-	-	-	-	-	-
KRF-X9080D-S	8	-	-	-	-	-	-	-	-
VR-8060	7	-	-	-	-	-	K3	-	-

KRF-X9080D/VR-8070/8060

SPECIFICATIONS

KRF-X9080D/X9080D-S(For Europe)

AUDIO section

Rated power output during STEREO operation

DIN/IEC (20 Hz ~ 20kHz, 0.09 % T.H.D. at 6 Ω)	100 W + 100 W
(1 kHz, 10 % T.H.D. at 6 Ω)	150 W + 150 W

Effective power output during SURROUND operation

FRONT (20 Hz ~ 20 kHz, 0.09 % T.H.D. at 6 Ω one channel driven)	100 W + 100 W
(1 kHz, 10 % T.H.D. at 6 Ω one channel driven)	150 W + 150 W
CENTER (20 Hz ~ 20 kHz, 0.09 % T.H.D. at 6 Ω one channel driven)	100 W
(1 kHz, 10 % T.H.D. at 6 Ω one channel driven)	150 W
SURROUND (20 Hz ~ 20 kHz, 0.7 % T.H.D. at 6 Ω one channel driven)	100 W + 100 W
(1 kHz, 10 % T.H.D. at 6 Ω one channel driven)	150 W + 150 W
SURROUND BACK (20 Hz ~ 20 kHz, 0.7 % T.H.D. at 6 Ω one channel driven)	100 W + 100 W
(1 kHz, 10 % T.H.D. at 6 Ω one channel driven)	150 W + 150 W

Total harmonic distortion 0.009 % (1 kHz, 50 W, 6 Ω)

Frequency response

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	10 Hz ~ 100 kHz, 0 dB ~ -3.0 dB
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PHONO 'RIAA' response 40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB

Maximum input level

PHONO (MM)	40 mV, 1 % T.H.D. at 1 kHz
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Signal to noise ratio (IHF'66)

PHONO (MM)	75 dB
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	95 dB

Loudness control

VOLUME at -30 dB level	+6 dB (100 Hz)
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Input sensitivity / impedance

PHONO (MM)	4 mV / 47 kΩ
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	300 mV / 47 kΩ

Output level / impedance

TAPE REC	300 mV / 1 kΩ
PRE OUT (FRONT CHANNEL)	1 V / 500 Ω
PRE OUT (CENTER CHANNEL)	1 V / 500 Ω
PRE OUT (SURROUND CHANNEL)	1 V / 500 Ω
PRE OUT (SURROUND BACK CHANNEL)	1 V / 500 Ω
PRE OUT (SUBWOOFER)	1 V / 500 Ω

Tone control

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

DIGITAL AUDIO section

Sampling frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input level / impedance / wave length

Optical	-15 dBm ~ -24 dBm, 660 nm ±30 nm
Coaxial	0.5 Vp-p / 75 Ω

Output level / impedance / wave length

Optical	-21 dBm ~ -15 dBm, 660 nm ±30 nm
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VIDEO section

VIDEO inputs / outputs

VIDEO (composite)	1 Vp-p / 75 Ω
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S VIDEO inputs / outputs

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

COMPONENT VIDEO inputs/ outputs

COMPONENT VIDEO (luminance signal)	1 Vp-p / 75 Ω
COMPONENT VIDEO (CB/CR-signal)	0.7 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108.0 MHz

Usable sensitivity

MONO 1.3 μV (75 Ω)/ 13.2 dBf (40 kHz dev, S/N 26 dB)

STEREO 45 μV (75 Ω)/ 42.1 dBf (40 + 6 kHz dev, S/N 46 dB)

Total harmonic distortion (DIN at 1 kHz)

MONO (1 kHz, 40 kHz dev) 0.2% (65.2 dBf input)

STEREO (1 kHz, 40 + 6 kHz dev) 0.8% (65.2 dBf input)

Signal to noise ratio (DIN weighted at 1 kHz)

MONO 65 dB (65.2 dBf input)

STEREO 60 dB (65.2 dBf input)

Stereo separation (1 kHz) 36 dB

Selectivity (DIN ±300 kHz) 64 dB

Frequency response (30 Hz ~ 15 kHz) +0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

Usable sensitivity (30% mod, S/N 20 dB) 16 μV / (600 μV/m)

Signal to noise ratio (30% mod, 400 Hz)

..... 50 dB (60 dBμV EMF input)

GENERAL

Power consumption 330 W

Standby Power consumption less than 1.5W

AC outlet

SWITCHED (total 90 W max.)

Dimensions W : 440 mm (17-5/16")

H : 159 mm (6-1/4")

D : 392 mm (15-7/16")

Weight (Net) 12.0 kg (26.5 lb)

Notes

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

KRF-X9080D/VR-8070/8060

SPECIFICATIONS

KRF-X9080D/X9080D-S(For other countries)

AUDIO section

Rated power output during STEREO operation	
DIN/IEC (20 Hz ~ 20kHz, 0.09 % T.H.D. at 8 Ω)	100 W + 100 W
(1 kHz, 10 % T.H.D. at 8 Ω)	130 W + 130 W
Effective power output during SURROUND operation	
FRONT	
(20 Hz ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
(1 kHz, 10 % T.H.D. at 8 Ω one channel driven)	130 W + 130 W
CENTER	
(20 Hz ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W
(1 kHz, 10 % T.H.D. at 8 Ω one channel driven)	130 W
SURROUND	
(20 Hz ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
(1 kHz, 10 % T.H.D. at 8 Ω one channel driven)	130 W + 130 W
SURROUND BACK	
(20 Hz ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven)	100W + 100 W
(1 kHz, 10 % T.H.D. at 8 Ω one channel driven)	130 W + 130 W
Total harmonic distortion	
..... 0.009 % (1 kHz, 50 W, 8 Ω)	
Frequency response	
(CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	10 Hz ~ 100 kHz, 0 dB ~ -3.0 dB
PHONO 'RIAA' response	40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB
Maximum input level	
PHONO (MM)	40 mV, 1 % T.H.D. at 1 kHz
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	95 dB
Loudness control	
VOLUME at -30 dB level	+6 dB (100 Hz)
Input sensitivity / impedance	
PHONO (MM)	4 mV / 47 kΩ
(CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	300 mV / 47 kΩ
Output level / impedance	
TAPE REC	300 mV / 1 kΩ
PRE OUT (FRONT CHANNEL)	1 V / 500 Ω
PRE OUT (CENTER CHANNEL)	1 V / 500 Ω
PRE OUT (SURROUND CHANNEL)	1 V / 500 Ω
PRE OUT (SURROUND BACK CHANNEL)	1 V / 500 Ω
PRE OUT (SUBWOOFER)	1 V / 500 Ω
Tone control	
BASS	±10 dB (at 100 Hz)
TREBLE	±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency	32 kHz, 44.1 kHz, 48 kHz, 96 kHz
Input level / impedance / wave length	
Optical	-15 dBm ~ -24 dBm, 660 nm ±30 nm
Coaxial	0.5 Vp-p / 75 Ω
Output level / impedance / wave length	
Optical	-21 dBm ~ -15 dBm, 660 nm ±30 nm

VIDEO section

VIDEO inputs / outputs	
VIDEO (composite)	1 Vp-p / 75 Ω
S VIDEO inputs / outputs	
S VIDEO (luminance signal)	1 Vp-p / 75 Ω
S VIDEO (chrominance signal)	0.286 Vp-p / 75 Ω
COMPONENT VIDEO inputs/ outputs	
COMPONENT VIDEO (luminance signal)	1 Vp-p / 75 Ω
COMPONENT VIDEO (CB/CR-signal)	0.7 Vp-p / 75 Ω

FM tuner section

Tuning frequency range	87.5 MHz ~ 108.0 MHz
Usable sensitivity	
MONO	1.6 μV (75 Ω)/ 15.2 dBf (75 kHz dev, SINAD 30 dB)
50dB quieting sensitivity	
STEREO	28 μV (75 Ω)/ 40.2 dBf (75 kHz dev)
Total harmonic distortion	
MONO (1 kHz, 75 kHz dev)	0.5% (65 dBf input)
STEREO (1 kHz, 67.5 + 67.5 kHz dev)	0.7% (65 dBf input)
Signal to noise ratio	
MONO (1 kHz, 75 kHz dev)	75 dB (65 dBf input)
STEREO (1 kHz, 67.5 + 67.5 kHz dev)	68 dB (65 dBf input)
Stereo separation (1 kHz)	40 dB
Selectivity (±400 kHz)	50 dB
Frequency response (30 Hz ~ 15 kHz)	+0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range (9 kHz step)	531 kHz ~ 1,602 kHz
(10 kHz step)	530 kHz ~ 1,610 kHz
Usable sensitivity (30% mod, S/N 20 dB)	16 μV / (600 μV/m)
Signal to noise ratio (30% mod, 400 Hz)	
.....	50 dB (60 dBμV EMF input)

GENERAL

Power consumption	300 W
Standby Power consumption	less than 1.5W
AC outlet	
SWITCHED	(total 90 W max.)
Dimensions	
W	440 mm(17-5/16")
H	159 mm (6-1/4")
D	392 mm (15-7/16")
Weight (Net)	12.1 kg (26.7 lb)

KRF-X9080D/VR-8070/8060

SPECIFICATIONS

VR-8070/8070-S, VR-8060-S

AUDIO section

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

VR-8070/8070-S	
FRONT (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
CENTER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W
SURROUND (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
SURROUND BACK (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
VR-8060-S	
FRONT (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
CENTER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W
SURROUND (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
SURROUND BACK/SUBWOOFER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W
Total harmonic distortion	0.009 % (1 kHz, 50 W, 8 Ω)
Frequency response	
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	10 Hz ~ 100 kHz, 0 dB ~ -3.0 dB
PHONO 'RIAA' response	40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB
Maximum input level	
PHONO (MM)	40 mV, 1 % T.H.D. at 1 kHz
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	95 dB
Loudness control	
VOLUME at -30 dB level	+6 dB (100 Hz)
Input sensitivity / impedance	
VR-8070/8070-S	
PHONO (MM)	4 mV / 47 k Ω
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	300 mV / 47 k Ω
VR-8060-S	
PHONO (MM)	6 mV / 47 k Ω
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	500 mV / 47 k Ω
Output level / impedance	
VR-8070/8070-S	
TAPE REC	300 mV / 1 k Ω
PRE OUT (FRONT CHANNEL)	1 V / 500 Ω
PRE OUT (CENTER CHANNEL)	1 V / 500 Ω
PRE OUT (SURROUND CHANNEL)	1 V / 500 Ω
PRE OUT (SURROUND BACK CHANNEL)	1 V / 500 Ω
PRE OUT (SUBWOOFER)	1 V / 500 Ω

VR-8060-S	
TAPE REC	500 mV / 1 k Ω
PRE OUT (SURROUND BACK CHANNEL)	1 V / 1 k Ω
PRE OUT (SUBWOOFER)	1 V / 1 k Ω
Tone control	
Optical	-15 dBm ~ -24 dBm, 660 nm $\pm$ 30 nm
Coaxial	0.5 Vp-p / 75 Ω
Output level / impedance / wave length	
Optical	-21 dBm ~ -15 dBm, 660 nm $\pm$ 30 nm

VIDEO section

VIDEO inputs / outputs	
VIDEO (composite)	1 Vp-p / 75 Ω
S VIDEO inputs / outputs	
S VIDEO (luminance signal)	1 Vp-p / 75 Ω
S VIDEO (chrominance signal)	0.286 Vp-p / 75 Ω
COMPONENT VIDEO inputs / outputs	
COMPONENT VIDEO (luminance signal)	1 Vp-p / 75 Ω
COMPONENT VIDEO (CB/CR-signal)	0.7 Vp-p / 75 Ω

FM tuner section

Tuning frequency range	87.5 MHz ~ 108.0 MHz
Usable sensitivity (MONO)	1.3 μ V (75 Ω) / 13.2 dBf (75 kHz dev, SINAD 30 dB)
50 dB quieting sensitivity	STEREO 28 μ V (75 Ω) / 40.2 dBf (75 kHz dev)
Total harmonic distortion	
MONO (1 kHz, 75 kHz dev)	0.5% (65 dBf input)
STEREO (1 kHz, 67.5 + 67.5 kHz dev)	0.7% (65 dBf input)
Signal to noise ratio	
MONO (1 kHz, 75 kHz dev)	75 dB (65 dBf input)
STEREO (1 kHz, 67.5 + 67.5 kHz dev)	68 dB (65 dBf input)
Stereo separation (1 kHz)	40 dB
Selectivity ($\pm$ 400 kHz)	70 dB
Frequency response (30 Hz ~ 15 kHz)	+0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range	10 kHz step 530 kHz ~ 1,700 kHz
Usable sensitivity (30% mod, S/N 20 dB)	16 μ V / (600 μ V/m)
Signal to noise ratio (30% mod, 400 Hz)	50 dB (60 dB μ V EMF input)

GENERAL

Power consumption	3.4 A
Standby Power consumption	less than 1 W
AC outlet	
SWITCHED	(total 150 W, 1.25 A max.)
Dimensions	
W	440 mm (17-5/16")
H	159 mm (6-1/4")
D	392 mm (15-7/16")
Weight (Net)	
VR-8070/8070-S	11.7 kg (25.8 lb)
VR-8060-S	11 kg (24.3 lb)