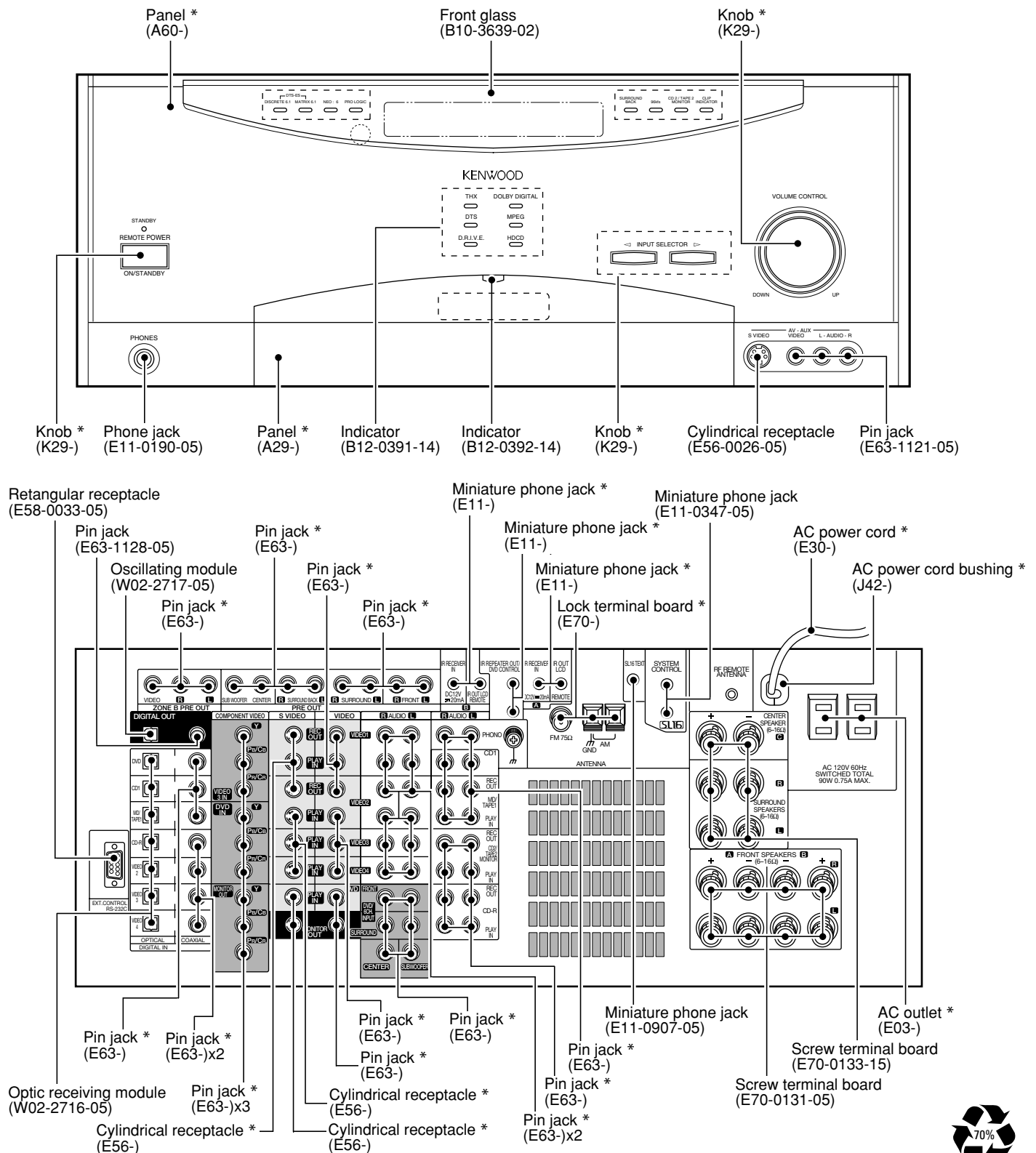


KRF-X7775D/X7775D-S VR-5080/5090 SERVICE MANUAL

KENWOOD

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CONTENTS / ACCESSORIES

Contents

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Accessories

Remote control unit

(A70-1453-05): RC-R0913...KP1K1P2
 (A70-1454-05): RC-R0914...M1X1Y1V
 (A70-1455-05): RC-0915.....E1E2

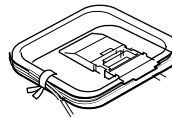


Battery cover(A09-1166-08)

Batteries



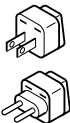
AM Loop Antenna (T90-0852-05)



FM Antenna (T90-0855-05)

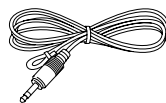


AC plug adaptor *..... (1)



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

Antenna ass'y (T90-0850-15) U.S.A. only



* Refer to parts list.



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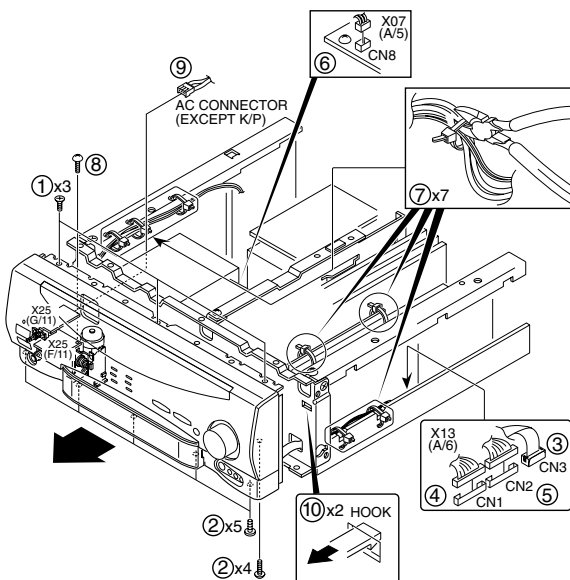
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DISASSEMBLY FOR REPAIR

How to Remove the Front Panel

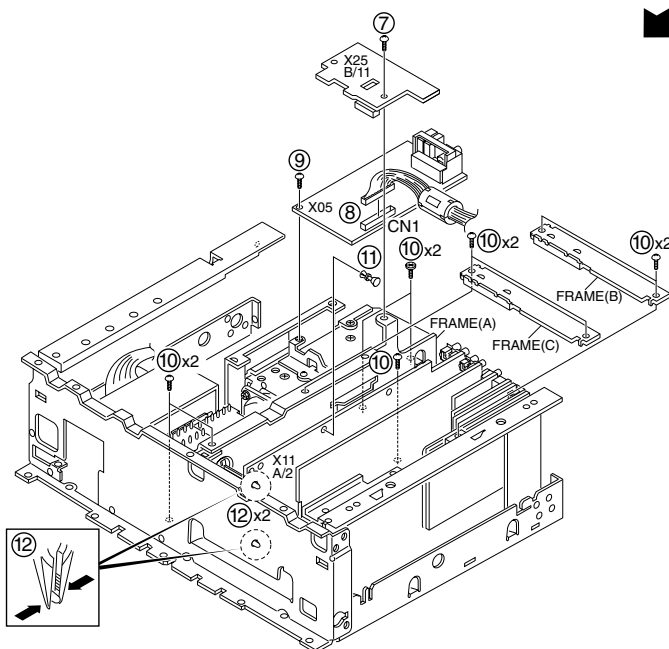
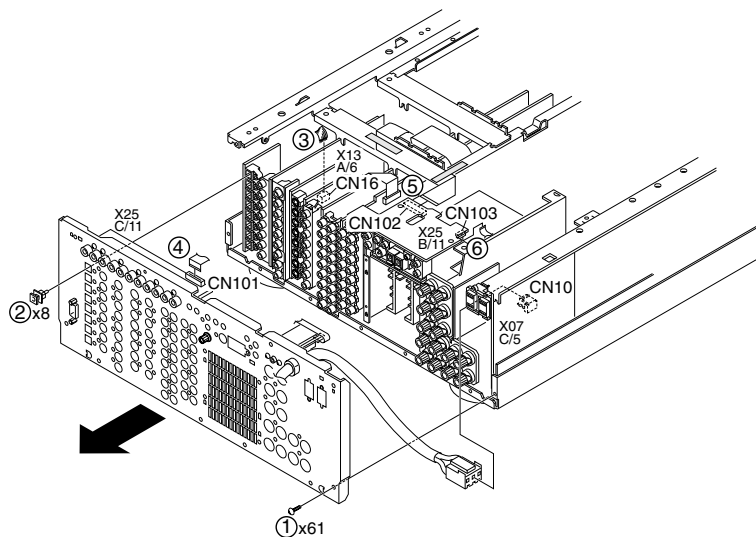
1. How to Remove the Front Panel

1. Remove the screws (①X3) on top of the panel.
2. Remove the screws (②X9) located at the bottom of the panel.
3. Disconnect the cable (③) and connectors (④,⑤) on the X13 A/6.
4. Disconnect the connector (⑥) on the X07 A/5.
5. Cut the tie band (⑦X7) as shown in the figure.
6. Remove the screw (⑧X1) on the X25 F/11.
7. Disconnect the connector (⑨) on the X25 G/11.(Except K/P type)
8. Remove the hooks (⑩X2) on the sub panel.
9. Remove the front panel in the direction of arrow.



Disassembling the Rear Panel and How to Replace the Power Transistor

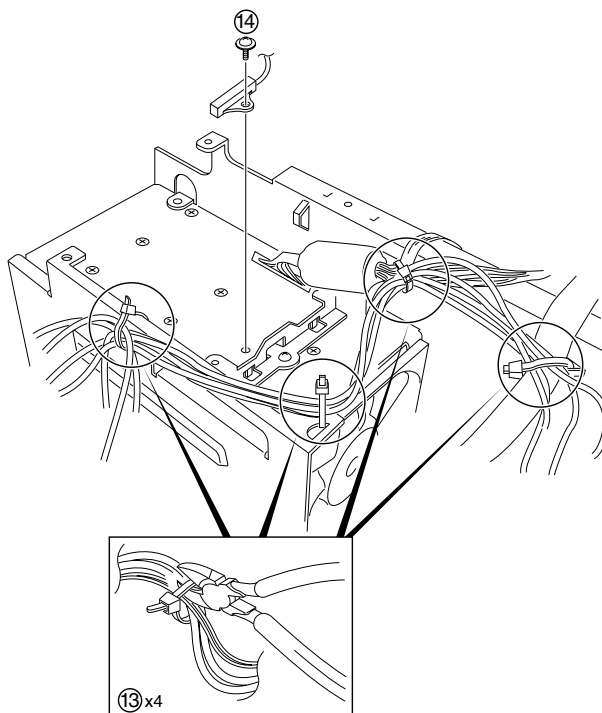
1. Disconnect the CN10 on the X07 C/5.
2. Remove all of screws (①X61) and digital caps (②X8) on the rear panel.
(The number of screws and caps are vary according to the models).
3. Disconnect the cable CN16 (③) on the X13 A/6.
4. Disconnect the flexible cables CN101(④) on the X25 C/11, CN102 (⑤) and * CN103 (⑥) on the X25 B/11.
* (K/P type only).
5. Remove the rear panel in the direction of arrow.
6. Remove the screw (⑦), then remove the X25 B/11.



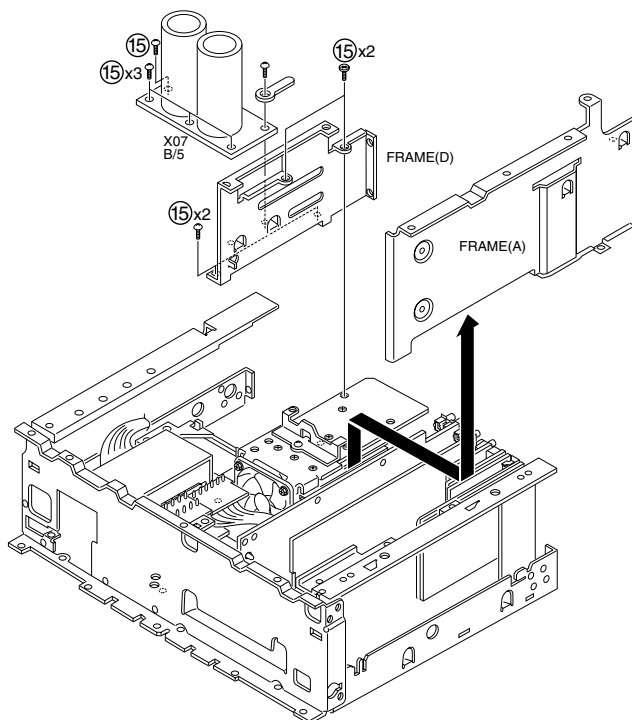
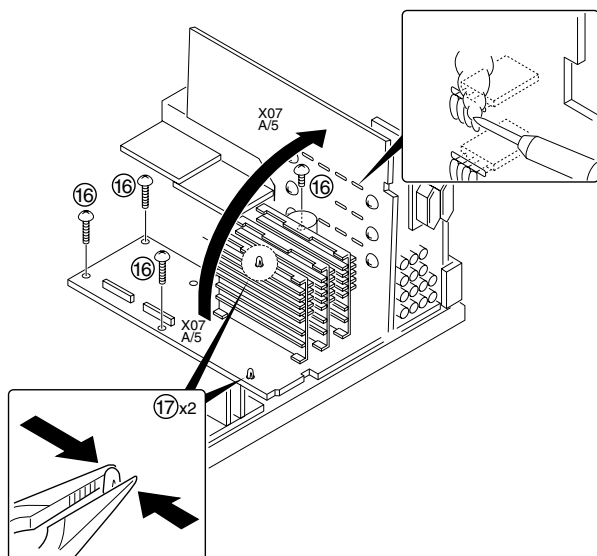
7. To remove the tuner unit, disconnect the CN1 (⑧) and remove a screw (⑨).
8. Remove the screws (⑩X9) on the frames (A/B/C), push rivet (⑪) and PC support (⑫x2) on the X11 A/2.

DISASSEMBLY FOR REPAIR

9. To remove the frame A rearward, cut the tie bands (13X4) on the frames.
10. Remove a screw (14), then remove a thermostat.

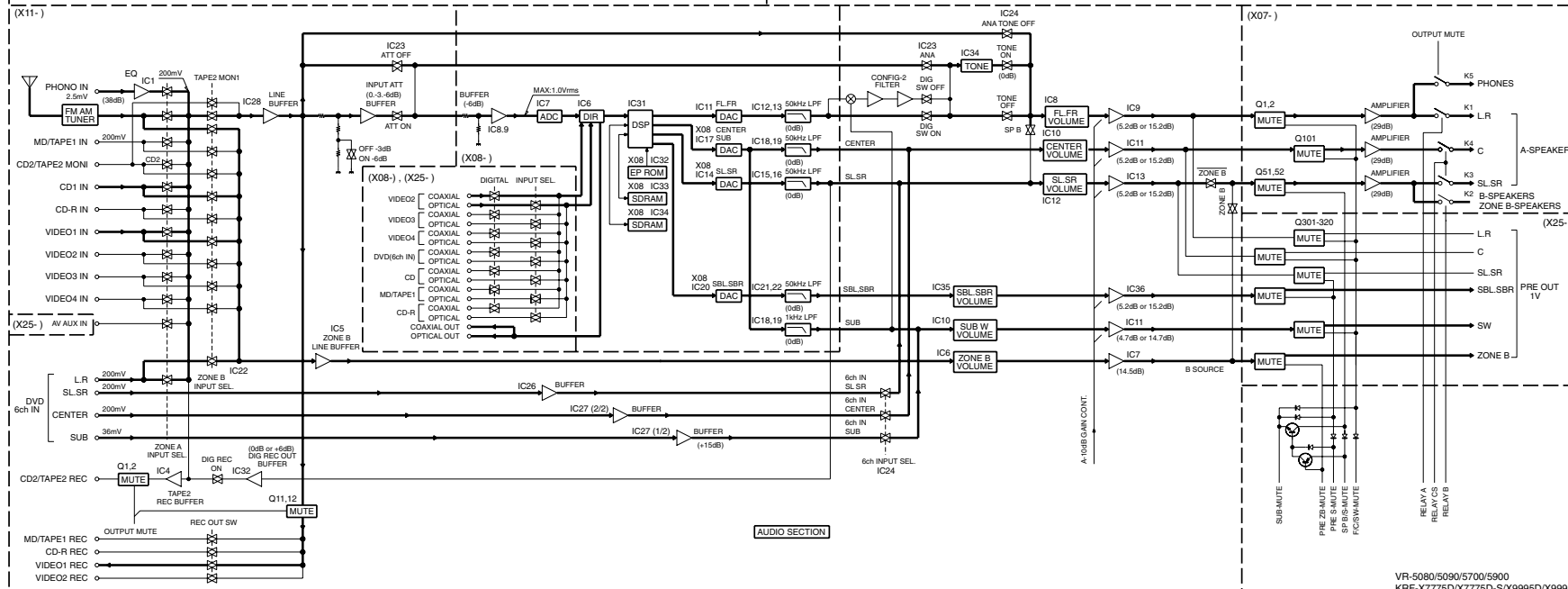
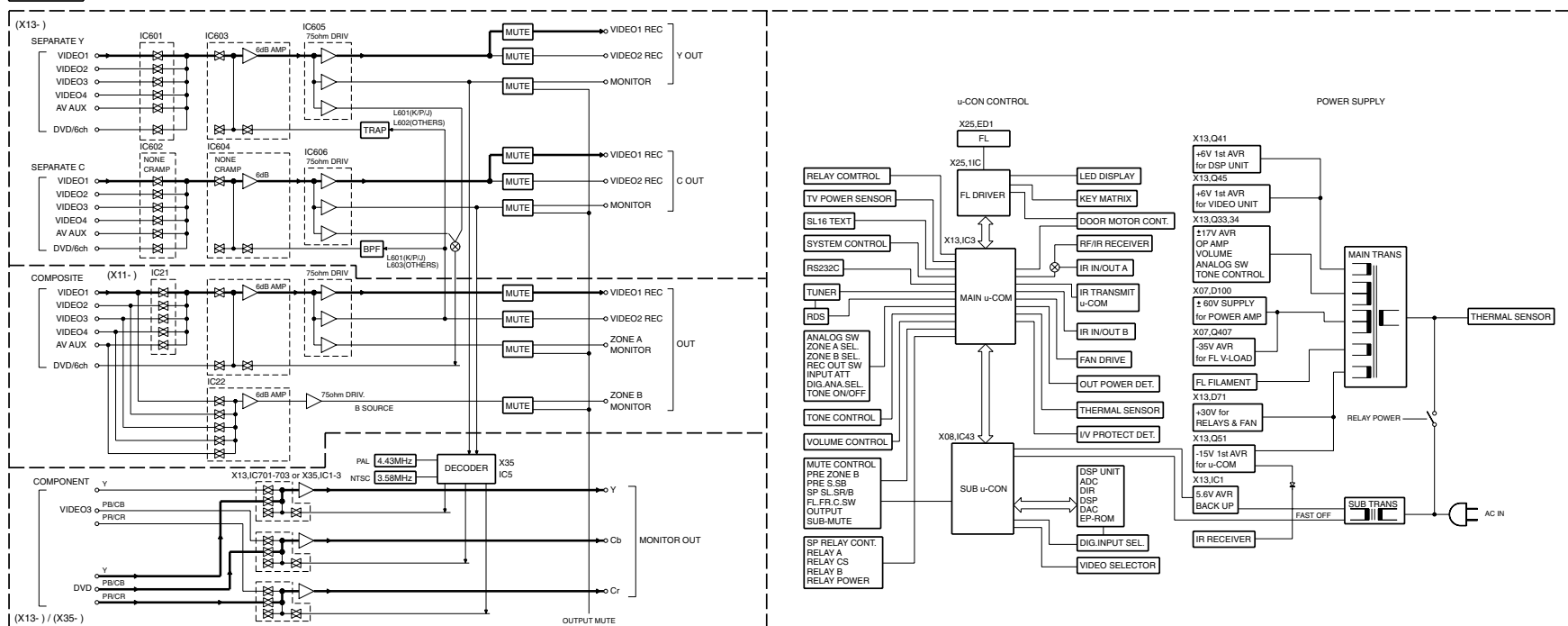


11. Remove the screws (15X8), then remove a frame (D), and X07 B/5.
12. To remove a power amplifier unit (X07 A/5), remove the screws (16x4), and a PC support (17x2).
13. Set up the X07 A/5 in the direction of arrow as shown in the figure.
14. Replace the defective transistor.



BLOCK DIAGRAM

VIDEO SECTION



VR-5080/5090/5700/5900
KRF-X7775D/X7775D-S/X9995D/X9995D-S

CIRCUIT DESCRIPTION

1. Initialization

1-1 The Initial Setting

- Insert the power cord to AC wall outlet by pressing the "ON/STANDBY" key.

2. Destination List of Tuner

0 : Pull down, 1: Pull up

SET TYPE	TYPE	BAND	RECEIVING FREQUENCY RANGE	CHANNEL SPACE	IF	PLL
K, P, R	K1 1700	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz-1700kHz	10kHz	+450kHz	10kHz
Y, M, I, C, V	K2 1610	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz-1610kHz	10kHz	+450kHz	10kHz
K, P	K4 1700 RBDS	FM	87.5MHz-108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz-1700kHz	10kHz	+450kHz	10kHz
Y, M, I, C, V, E, X, H	E1	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz-1602kHz	9kHz	+450kHz	9kHz
E, T	E3 RDS	FM	87.5MHz-108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz-1602kHz	9kHz	+450kHz	9kHz

3. Conditions according to the models or destination

3-1 Distinction of Destination

: u-com (X13,IC3) Port 54

Type	Voltage : Max 5.0V
K2	0~0.52
K1	1.61~2.49
K4(RBDS)	2.51~3.39
E3(RDS)	3.41~4.45
E1	4.47~5.00

3-2 Distinction of Models : u-com (X13,IC3) Port 53

Models	*	Voltage : Max 5.0V
VR-5080	NO	0~0.37
VR-5090	YES	0.39~1.10
VR-5700	YES	1.12~1.84
VR-5900-S	YES	1.86~2.49
KRF-X9995D/D-S	YES	2.51~3.14
KRF-X7775D/D-S	YES	3.16~3.88
KRF-X9995D-S (M/X TYPE)	NO	3.90~4.61
KRF-X7775D-S (M/X/V TYPE)	NO	4.63~5.00

* Switching of RF or Front IR and Rear IR Receiver Terminal.

4. Tuner Preset Memory

P.ch	K1	K2	K4	E1	E3	P.ch	K1	K2	K4	E1	E3
1	FM 98.3M	FM 98.3M	FM 98.3M	FM 98.3M	FM 98.3M	21	AM 530K	AM 530K	AM 530K	AM 531K	AM 531K
2	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	22	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
3	FM 89.1M	FM 89.1M	FM 89.1M	FM 89.1M	FM 89.1M	23	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
4	FM 108.0M	FM 108.0M	FM 108.0M	FM 108.0M	FM 108.0M	24	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
5	FM 90.0M	FM 90.0M	FM 90.0M	FM 90.0M	FM 90.0M	25	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
6	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	26	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
7	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	27	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
8	AM 1610K	FM 87.5M	AM 1610K	FM 87.5M	FM 87.5M	28	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
9	AM 1700K	AM 1610K	AM 1700K	AM 1602K	AM 1602K	29	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
10	AM 1000K	AM 1000K	AM 1000K	AM 999K	AM 999K	30	FM 106.0M	FM 106.0M	FM 106.0M	FM 106.0M	FM 106.0M
11	AM 630K	AM 630K	AM 630K	AM 630K	AM 630K	31	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
12	AM 1440K	AM 1440K	AM 1440K	AM 1440K	AM 1440K	32	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
13	FM 106.0M	FM 106.0M	FM 106.0M	FM 106.0M	FM 106.0M	33	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
14	AM 530K	AM 530K	AM 530K	AM 531K	AM 531K	34	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
15	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	35	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
16	FM 98.0M	FM 98.0M	FM 98.0M	FM 98.0M	FM 98.0M	36	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
17	FM 98.5M	FM 98.5M	FM 98.5M	FM 98.5M	FM 98.5M	37	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
18	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	38	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M	FM 87.5M
19	AM 990K	AM 990K	AM 990K	AM 990K	AM 990K	39	FM 108.0M	FM 108.0M	FM 108.0M	FM 108.0M	FM 108.0M
20	FM 97.4M	FM 97.4M	FM 97.4M	FM 97.7M	FM 97.7M	40	AM 1000K	AM 1000K	AM 1000K	AM 945K	AM 945K

CIRCUIT DESCRIPTION

5. Test Mode

5-1 Setting Method of the Test Mode

- Turn on the power supply while pressing the "INPUT SELECTOR DOWN" key, to make a set in test mode.

5-2 Canceling the Test Mode

- The system is initialized and the test mode is cancelled if unplug the AC power cord from an AC power wall outlet.

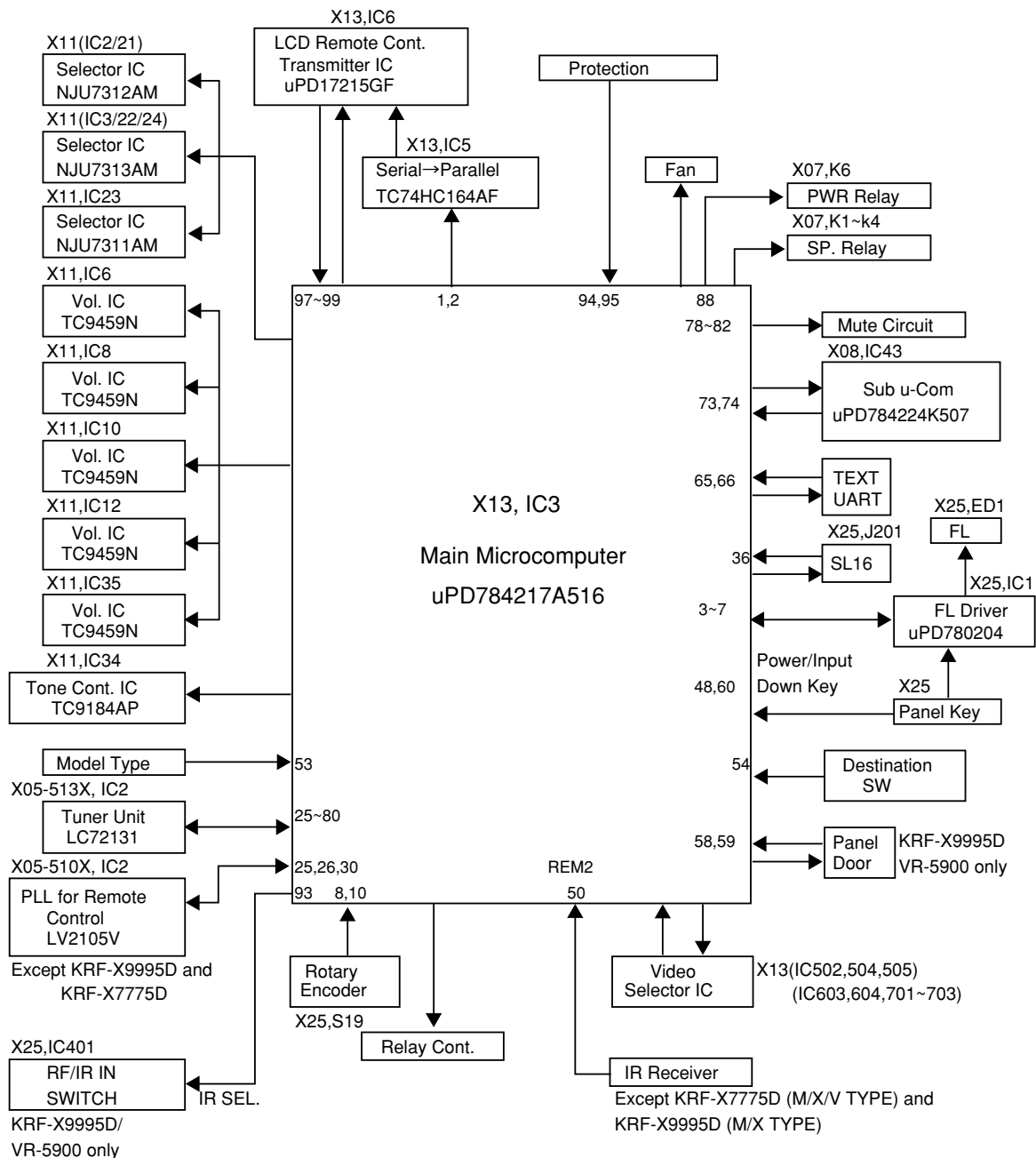
5-3 Contents of the Test Mode

* The following operation is available when the FL is all lighting up mode only.

Key	Operation	Display
SOUND	Set up the RF frequency to 428MHz.	RF BAND
LISTEN MODE	Set up the RF frequency to 422MHz.	RF BAND
THX	Indicated the tuner destination in the FL.	EX. TYPE E1
MEMORY	Changed the dimmer off/1/2 cyclically.	ALL FL Light ON

6. Main Microcomputer: uPD784217A516 (X13, IC3)

6-1 Main Microcomputer Periphery block diagram



CIRCUIT DESCRIPTION

6-2 Port Description of Main Microcomputer : uPD784217A516 (X13, IC3)

Port No.	Port Name	I/O	Function
1	REM DA	O	IR transmitter IC(X13,IC5) control data output.
2	REM CK	O	IR transmitter IC(X13,IC5) control clock output.
3	FL CLK	O	Clock output to FL driver.
4	FL DIN	I	Data input from FL driver.
5	FL DOUT	O	Data output to FL driver.
6	FL STB	O	Strobe output to FL driver.
7	FL RST	O	Reset output to FL driver.
8	ENC B	I	Input port of volume encoder.
9	VDD	-	+5V power supply.
10	ENC A	I	Input port of volume encoder.
11	SEL CLK	O	Clock output to selector IC.
12	SEL DATA	O	Data output to selector IC.
13~15	SEL STB1~3	O	Strobe (1~3) output to selector IC.
16	TONE CLK	O	Clock output to tone control / selector IC.
17	TONE DATA	O	Data output to tone control / selector IC.
18	TONE STB	O	Strobe output to tone control IC.
19	VOL CLK	O	Clock output to volume IC.
20	VOL DATA	O	Data output to volume IC.
21	VOL STB2	O	Strobe 2 output to volume IC.
22	TEST/VPP	-	Connected to GND.
23	STEREO	I	Tuner stereo signal detection port.
24	SD	I	Tuner SD signal detection port.
25	RF PLL CLK	O	Clock output to PLL (LC72131) IC. * Clock output to PLL IC (LV2105V) for RF remote controller. * Except KRF-X7775D/9995D
26	RF PLL DATA	O	Data output to PLL(LC72131) IC. * Data output to PLL IC (LV2105V) for RF remote controller. * Except KRF-X7775D/9995D
27	PLL DO	I	Data input from PLL (LC72131)IC.
28	PLL CE	O	Chip enable to PLL (LC72131) IC.
29	T MUTE	O	Mute control to tuner.
30	RF PLL CE	O	PLL (LV2105V)CE for RF remote controller. (VR series only)
31~33	P MACRO A~C	O	Output port for perfect macro (A~C). (Refer to 7-6)
34	TV SENS	I	Detection port of TV signal. (Refer to 7-7)
35	VOL STB1	O	Strobe 1 output to volume IC.
36	S DATA	I/O	SL16 data input/output.
37	VDD	-	+5V power supply
38	X2	-	Crystal resonator (12.5MHz) connection.
39	X1	-	Crystal resonator (12.5MHz) connection.
40	VSS	-	Connected to GND.
41	XT2	-	Unused.
42	XT1	-	Unused.
43	RESET	I	Reset signal input for main microcomputer.
44	CE	I	Detection port of chip enable.
45	S BUSY	I/O	Busy signal input/output.
46	232C DET	I	Detection port of RS232C communication. (Except KRF-X7775D)
47	RDS CLK	I	Clock input of RDS demodulator IC. (E/T type only)
48	POWER KEY IN	I	Detection port for power key.
49	REM1	I	Remote control signal input 1 (front panel).
50	REM2	I	Remote control signal input 2 (IR receiver). Except KRF-X7775D (X/M/V)and KRF-X9995D (M/X)

CIRCUIT DESCRIPTION

Port No.	Port Name	I/O	Function
51	VDD	-	+5V power supply
52	AVREF	-	Reference voltage input.
53	MODEL SEL	I	Discrimination port for model type.
54	DSW0	I	Detection port for tuner destination SW 0.
55	THERM SW	I	Detection port for thermal switch. (Refer to 7-1)
56	S LEVEL	I	RDS signal level input. (E/T type only)
57	RDS DATA	I	Data input of RDS demodulator IC. (E/T type only)
58	CLOSE SENS	I	Detection port of close sensor for panel door. (Refer to 7-3) (KRF-X9995D/VR-5900 only)
59	OPEN SENS	I	Detection port of open sensor for panel door. (Refer to 7-3) (KRF-X9995D/VR5900 only)
60	INPUT DOWN KEY IN	I	Detection port of input down key.
61	AVSS	-	Connected to GND.
62	P MACRO IN	I	Input port of perfect macro. (Refer to 7-7)
63	RELAY CONT	O	Relay control output. (Refer to 7-4)
64	AVREF1	-	Reference voltage input.
65	1394/TEXT RX	I	CD TEXT UTRA communication data input.
66	1394/TEXT TX	O	CD TEXT UTRA communication data output.
67	SUB RESET	O	Reset signal output to sub microcomputer.
68	RS RX1	I	RS232C communication data input 1. (Except KRF-X7775D)
69	RS TX1	O	RS232C communication data output 1. (Ditto)
70	RS RX2	I	RS232C communication data input 2. (Ditto)
71	RS TX2	O	RS232C communication data output 2. (Ditto)
72	LED	O	Control port for pro logic2 led.
73	SDT	I	Communication data input from sub microcomputer.
74	MDT	O	Communication data output to sub microcomputer.
75	MCK	O	Clock output to sub microcomputer.
76	MREQ	O	Communication master request.
77	SREQ	I	Communication slave request.
78	F/CSW MUTE	O	Mute control port for room A.
79	PRE S/B MUTE	O	Mute control port for pre out surround.
80	SP S/B MUTE	O	Mute control port for S/B speakers.
81	PRE ZB MUTE	O	Mute control port for pre out B (zone B).
82	V/RECMUTE	O	Mute control port for video rec out.
83	10dB GAIN	O	Switching port for +10dB amplifier.
84	RELAY CS	O	Mute control port for center/surround speakers.
85	RELAY B	O	Relay control port for speaker B.
86	RELAY A	O	Relay control port for speaker A.
87	RELAY TR	O	Switching port for transformer tap.
88	POWER	O	Power relay control port.
* 89	FAN H/L	O	Control port for fan motor (H/L).
* 90	FAN ON/OFF	O	Control port for fan motor (on/off).
* 91	10W	I	10W detection port for fan control.
* 92	1W	I	1W detection port for fan control.
93	IR SELECT	O	RF/IR IN switch control. (Refer to 7-5), KRF-X9995D/VR-5900 only
94	V PROT	I	Detection port of protection signal.
95	I PROT	I	Detection port of protection signal.
96	STBY LED	O	Control port for standby led.
97	REM RWR	I	RWR from LCD remote controller.
98	REM ENB	I	Chip enable from LCD remote controller.
99	REM REQ	O	Request to LCD remote controller.
100	VSS	-	GND

* Refer to 7-1

CIRCUIT DESCRIPTION

7. Description of the Circuit Control

7-1 Fan Control (X13,IC3)

Fan	10W(91Pin)	1W(92Pin)	THERMAL SW(55Pin)	FAN ON/OFF(90Pin)	FAN H/L(89Pin)
FAN STOP	H	H	L	0	1
FAN LOW SPEED	H	L	L	1	1
FAN HI SPEED	L	L	L	1	0
FAN LOW SPEED	H	H	H	1	1
	H	L	H	1	1
FAN HI SPEED	L	L	H	1	0

7-2 Door Open/Close Control : FL Driver(X25,IC1)

KRF-X9995D/VR-5900 only

	DOOR OUT1(42Pin)	DOOR OUT2(41Pin)
OPEN	1	0
CLOSE	0	1
STOP	0	0
BREAK	1	1

7-3 Open Close Sensor(X13,IC3 : Main u-com)

KRF-X9995D/VR-5900 only

	OPEN SENS(59Pin)	CLOSE SENS(58Pin)
END OF OPEN ACTION	0	1
END OF CLOSE ACTION	1	0

7-4 Relay Control : X13,IC3(Main u-com)

SELECTOR	RELAY CONT.(63Pin)
PHONO	0
TUNER	
CD1	
MD/TAPE1	
CD-R	
CD2/TAPE2 MONITOR	1
VIDEO1	
VIDEO2	
VIDEO3	
VIDEO4	
DVD	
AV/AUX	

7-5 IR Remote Control

		X25,IC401 RF IN (7Pin)	X25,IC401 IR IN (6Pin)	IR SELECT X13,IC3 (93Pin)
WITH RF VERSION	RF ON	X	O	0
	RF OFF	O	X	1
WITHOUT RF VERSION	FRONT IR ON	X	O	0
	FRONT IR OFF	O	X	1

7-6 P Macro Video Switch(X13,IC505)

SELECTOR	P MACRO A(3Pin)	P Macro B(4Pin)	P Macro C(5Pin)
VIDEO1	0	0	0
VIDEO2	0	1	0
VIDEO3	1	0	0
VIDEO4	1	1	0
DVD	0	0	1

7-7 Video/TV Detection : X13,IC3

Video Detection

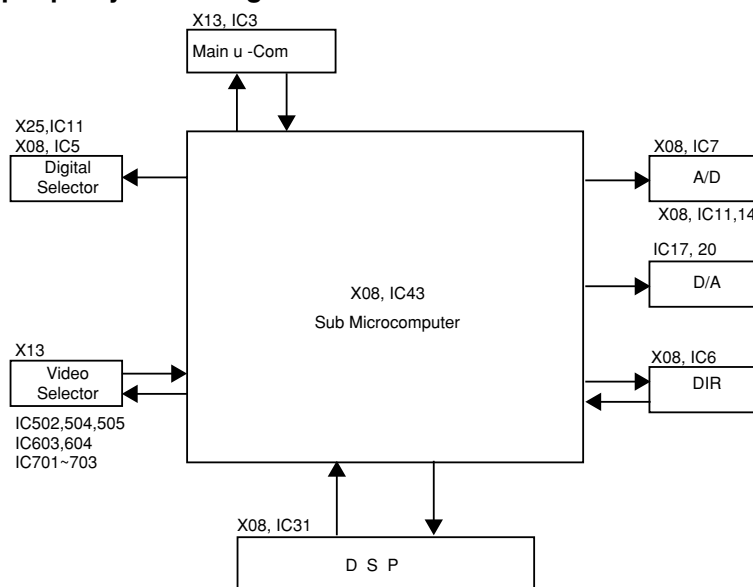
Video Signal	P Macro IN(62Pin)
Yes	H
No	L

TV Detection

TV POWER	TV SENS.(34Pin)
ON	H
OFF	L

8. Sub microcomputer: uPD784224K507(X08, IC43)

8-1 Sub microcomputerperiphery block diagram



CIRCUIT DESCRIPTION

8-2 Port Description of Sub Microcomputer : uPD784224K507 (X08,IC43)

Port No.	Port Name	I/O	Function	ACTIVE	
				H	L
1	ERF	I	D.I.R. (X08, IC6) error flag.		
2	FS96 DET	I	96KHz fs detection. H : fs>88.1kHz detection		
3	AUTO	I	Non-PCM detection. H : Non-PCM detection		
4	AVSS	-	GND		
5	DIR PD	O	Power down for D.I.R. (X08, IC6). L : DIR power down and reset		
6	DIR CS	O	Chip select for D.I.R. (X08, IC6). L : Chip selection		
7	AVREF	-	Reference voltage.		
8	DIR DIN	I	Data input from D.I.R. (X08, IC6).		
9	DIR DOUT	O	Data output for D.I.R. (X08, IC6).		
10	DIR CLK	O	Clock output for D.I.R. (X08, IC6).		
11	D MUTE	O	Mute signal output for D.I.R. (X08, IC6).		Data mute
12	DAC PD	O	Power down for D/A converter (X08, IC11/14/17/20).		Power down
13	DAC 96K	O	Double speed sampling mode for D/A converter speed mode (X08, IC11/14/17/20). H : Double		
14	DAC MUTE	O	Mute signal output for D/A converter (X08, IC11/14/17/20).	Mute	
15	ADC RST	O	Reset signal output for A/D converter (X08, IC7).		Reset
16	MDT	I	Main microcomputer master data.		
17	SDT	O	Sub microcomputer data output.		
18	MCK	I	Main microcomputer control data clock		
19	MREQ	I	Main microcomputer master request.		
20	SREQ	O	Main microcomputer slave request.		
21	REC 6dB	O	Rec gain control when HD CD +6dB.	+6dB on	
22~24	DSEL A~C	O	Control port for digital input selector (A~C).		
25	DSP POWER	O	Power supply for DSP/DAC/ADC/DIR.		
26	DSP RESET	O	Reset signal output for DSP.		
27~32	DSP D0~D5	I/O	DSP control data.		
33	VSS	-	GND		
34,35	DSP D6,7	I/O	DSP control data.		
36	DSP REQ	O	DSP communication request.		Request
37	DSP ACK	I	Input port of command data reading from DSP.		Ack.
38	DSP BUSY	I	DSP status busy.	Busy	
39	DSP WRT	O	DSP Write	Data write	Data read
40	DTS DET	I	DSP DTS detection.	DTS	
41	PCM ZERO	I	PCM zero data detection.	PCM 0	
42	HD CD DET	I	DSP HD CD sync. Detection.	HD CD	
43	HD CD 6dB DET	I	DSP HD CD +6dB detection. (KPCM)	+6dB	
44	OVER LEVEL	I	DSP over level detection.	Over level	
45	PCM MUTE	O	DSP mute control (PCM).		Fixed
46	DRIVE	O	DSP D.R.I.V.E. /HD CD control (PCM).		D.R.I.V.E./ HD CD ON
47	SUB MUTE	O	Sub microcomputer analog mute.		Mute on
48~50	C ROOMB(C/B/A)	O	Zone B video selector control.		
51,52	YC SEL(B, A)	O	Zone A video selector control.		
53~59	C ROOMA(A~G)	O	Zone A video selector control.		
60	RESET	I	Reset signal input.		
61	YC MUTE	O	Zone A video selector (Y/C) mute control.		
62	FSC CTRL	O	Zone A video selector FSC control.		
63	VSEL	O	Zone A video selector control.		
64	CTRL A2	O	Zone A video selector control A2.		
65	CTRL B	O	Zone A video selector control B.		
66	CTRL A	O	Zone A video selector control A.		

CIRCUIT DESCRIPTION

Port No.	Port Name	I/O	Function	ACTIVE	
				H	L
67	VSS	-	GND		
68	VDD	-	Power supply (+3.3V).		
69	X2	-	Crystal resonator (6MHz) connection.		
70	X1	I	Crystal resonator (6MHz) connection.		
71	TEST	-	Pull down port.		
72	XT2	-	Unused.		
73	XT1	-	GND		
74	VDD	-	Power supply (+3.3V).		
75	AVDD	-	Power supply (+3.3V).		
76	NC	-	Unused.		
77	C DET	I	Zone A component signal detection.		Detection
78	Y DET	I	Zone A S-terminal signal detection.		Detection
79	CK DET	I	Zone A color killer detection.		
80	OPT DET	I	Optical digital input detection.		

9. Description of the Circuit Control

* The number in the () is pin number of sub microcomputer.

9-1 Digital Selector

• VR-5700/5900/5090/KRF-X9995D(for OPT and COAX)

INPUT	DSEL A(Pin22)	DSEL B(Pin23)	DSEL C(Pin24)
CD1	L	H	L
MD/TAPE1	H	H	L
CD-R	L	L	H
VIDEO2	H	L	H
VIDEO3	L	H	H
VIDEO4	H	H	H
DVD	H	L	L
OTHERS	L	L	L

• VR-5080/KRF-X7775D

INPUT	DSEL A (Pin22)	DSEL B (Pin23)	DSEL C (Pin24)
CD1(OPT)	L	H	L
VIDEO2(COAX)	L	H	L
VIDEO3(COAX)	H	H	L
DVD(OPT/COAX)	H	L	L
OTHERS	L	L	L

9-2 Video Selector

(BA7649AF,BA7611AF,BA7612F,BA7613F)

① VSEL

INPUT	VSEL(Pin63)
VIDEO1	L
VIDEO2	L
VIDEO3	L
VIDEO4	L
AV-AUX	L
DVD	H
V MUTE	L

② Y C Select

② -1 Y Detect(Pin78) = H

INPUT	Y C SEL A (Pin52)	Y C SEL B (Pin51)
VIDEO1	L	H
VIDEO2	L	H
VIDEO3	L	H
VIDEO4	L	H
AV-AUX	L	H
DVD	H	L
V MUTE	H	H

③ CTRL A, CTRL A2, CTRL B

③ -1 C Detect(Pin77) = L

VR-5900/5090/KRF-X9995D

② -2 Y Detect(Pin78) = L

INPUT	Y C SEL A (Pin52)	Y C SEL B (Pin51)
VIDEO1	L	L
VIDEO2	L	L
VIDEO3	L	L
VIDEO4	L	L
AV-AUX	L	L
DVD	L	L
V MUTE	H	H

INPUT	CTRL A (Pin66)	CTRL A2 (Pin64)	CTRL B (Pin65)
VIDEO1	L	L	H
VIDEO2	L	L	H
VIDEO3	L	L	L
VIDEO4	L	L	H
AV-AUX	L	L	H
DVD	H	H	L
V MUTE	H	H	H

CIRCUIT DESCRIPTION

③ -2 C Detect(Pin77) = H

• CK DET(Pin79) = L

VR-5900/5090/KRF-X9995D

INPUT	CTRL A (Pin66)	CTRL A2 (Pin64)	CTRL B (Pin65)
VIDEO1	L	L	H
VIDEO2	L	L	H
VIDEO3	L	L	H
VIDEO4	L	L	H
AV-AUX	L	L	H
DVD	L	L	H
V MUTE	H	H	H

③ -3 CK DET(Pin79) = H

VR-5900/5090/KRF-X9995D

INPUT	CTRL A (Pin66)	CTRL A2 (Pin64)	CTRL B (Pin65)
VIDEO1	L	H	H
VIDEO2	L	H	H
VIDEO3	L	H	H
VIDEO4	L	H	H
AV-AUX	L	H	H
DVD	L	H	H
V MUTE	H	H	H

④ CPST A(Pin53~59)

④ -1 Y Detect(Pin78) = H

INPUT	CPST AA (Pin59)	CPST AB (Pin58)	CPST AC (Pin57)	CPST AD (Pin56)	CPST AE (Pin55)	CPST AF (Pin54)	CPST AG (Pin53)
VIDEO1	L	L	L	L	L	L	L
VIDEO2	H	H	H	H	L	L	L
VIDEO3	L	H	L	L	L	L	L
VIDEO4	L	H	H	L	L	L	L
AV-AUX	H	L	L	L	L	L	L
DVD	L	H	L	L	H	L	L
V MUTE	L	H	L	L	H	H	H

④ -2 Y Detect(Pin78) = L

INPUT	CPST AA (Pin59)	CPST AB (Pin58)	CPST AC (Pin57)	CPST AD (Pin56)	CPST AE (Pin55)	CPST AF (Pin54)	CPST AG (Pin53)
VIDEO1	L	L	L	L	L	L	H
VIDEO2	H	H	H	H	L	L	H
VIDEO3	L	H	L	L	L	L	H
VIDEO4	L	H	H	L	L	L	H
AV-AUX	H	L	L	L	L	L	H
DVD	L	H	L	L	H	H	L
V MUTE	L	H	L	L	H	H	H

⑤ CPST B(Pin48~50)

INPUT	CPST BA (Pin50)	CPST BB (Pin49)	CPST BC (Pin48)
VIDEO1	L	L	L
VIDEO2	L	H	L
VIDEO3	H	L	L
VIDEO4	H	H	L
DVD	L	H	H

10. Key Matrix

* The number in the () is pin number of FL driver (X25,IC1).

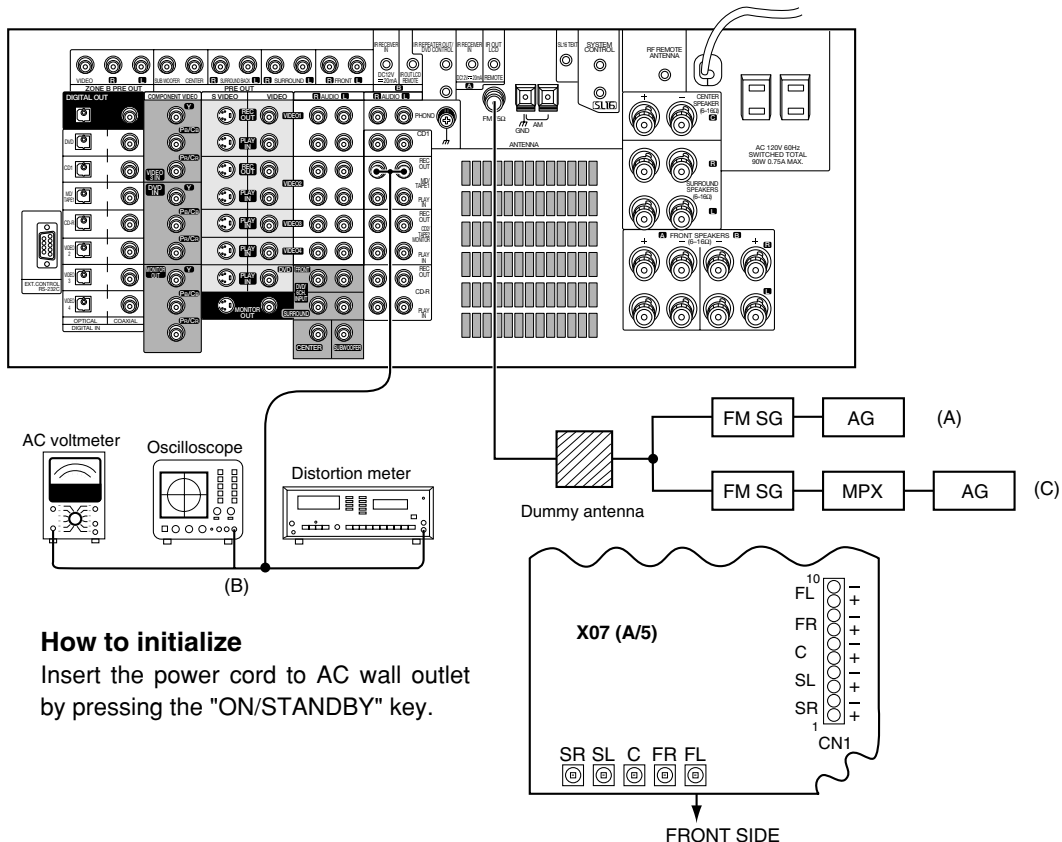
* KRF-X9995D/VR-5900 only

	Key	
Key 1(Pin26)	INPUT UP	* OPEN/CLOSE
Key 2(Pin27)	AUTO	BAND
Key 3(Pin28)	P. CALL UP	MEMORY
Key 4(Pin29)	P. CALL DOWN	MULTI CONT. UP
Key 5(Pin30)	SOUND/SET UP	MULTI CONT. DOWN
Key 6(Pin31)	LISTEN MODE	THX
Key 7(Pin32)	INPUT MODE	CD2/TAPE2 MONI.
Key 8(Pin33)	SPEAKER A	SPEAKER B

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION : SELECTOR : FM *Adjust NO.1 and NO.2 repeatedly.							
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	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X05-)	Minimum distortion	
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 FRONT END : A1) (X05-)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 30dBf (ANT. input)	—	MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
AUDIO SECTION SPEAKER : A PREOUT : OFF PROLOGIC : ON							
<1>	IDLE CURRENT	—	Connect a DC voltmeter across each T.P. CN1(⑨, ⑩) FLch CN1(⑤, ⑥) Cch CN1(⑦, ⑧) FRch CN1(①, ②) SRch CN1(③, ④) SRch X07(A/5)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) X07(A/5)	Adjust every potentiometer 10 minutes later after turned the power on.	

SYSTEM CONNECTIONS



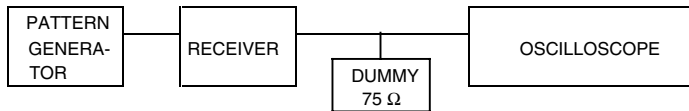
ADJUSTMENT

Adjustment of Sub Color and Contrast (X35, VR1, VR2)

Except KRF-X7775D/VR-5080

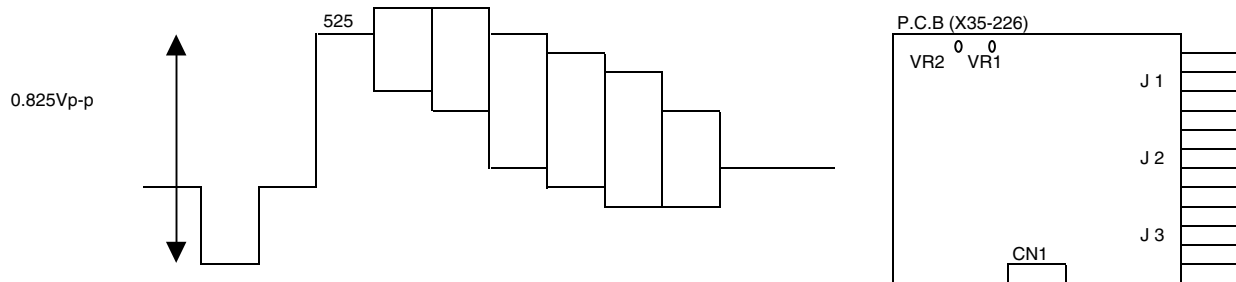
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	ALIGNMENT POINTS	ALIGNMENT FOR	FIG.
1	SUB COLOR	PAL 75% COLOR BAR (NO SET UP)	Connect a component video output(Y) to oscilloscope with 75Ω.	VR2	(Adjust an amplitude of video signal.) 0.825Vp - p	FIG.1
2	CONTRAST	PAL 75% COLOR BAR (NO SET UP)	Connect a component video output(Cb,Cr) to oscilloscope with 75Ω.	VR1	(Adjust an amplitude of video signal.) ±0.525Vp - p	FIG.2

INSTRUMENTS CONNECTION

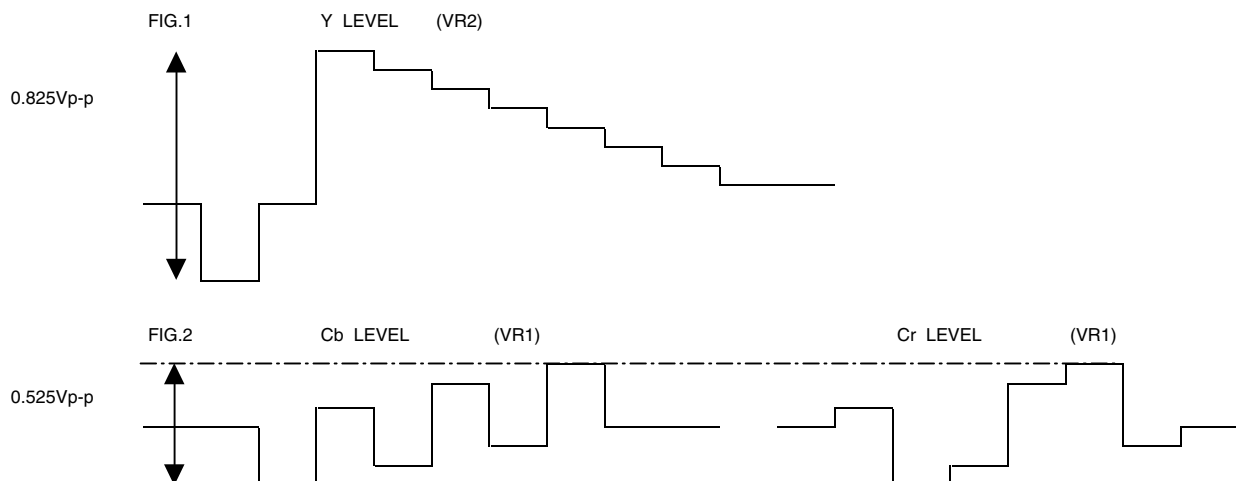


INPUT SIGNAL : 75% COLOR BAR SIGNAL

PARAMETER		WHITE	YELLOW	CYAN	GREEN	MAGENTA	RED	BLUE
LUMINANCE LEVEL	mV	525	465	368	308	217	157	60
	IRE							
CHROMA LEVEL	mV	0	470	664	620	620	664	470
	IRE							
CHROMA PHASE (deg)	+V		167	283	241	61	103	347
	-V		193	77	119	299	257	13



ADJUSTMENT OUTPUT SIGNAL :



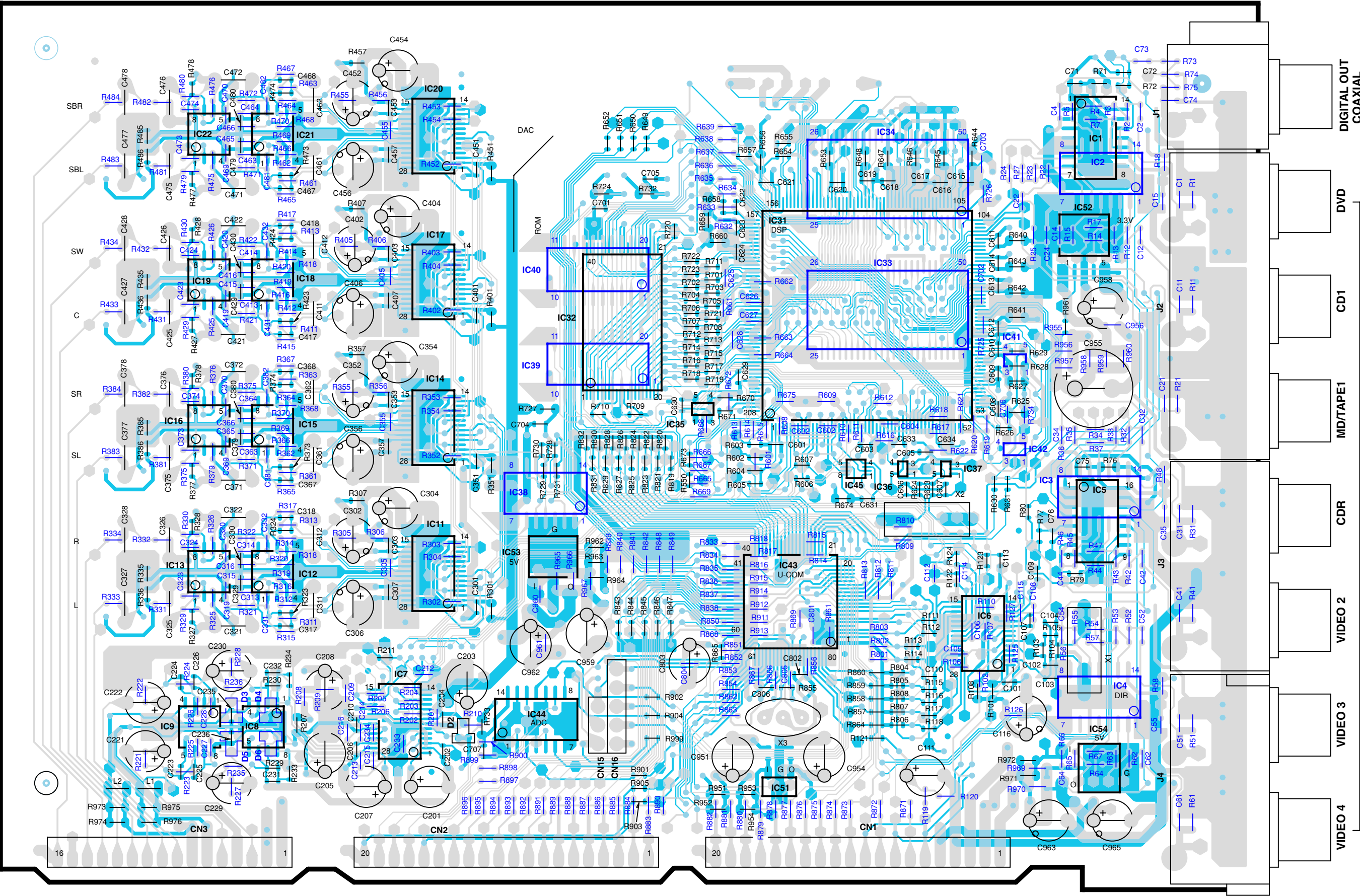


1	Black
2	White
3	Black
4	White
5	Black
6	White
7	Black

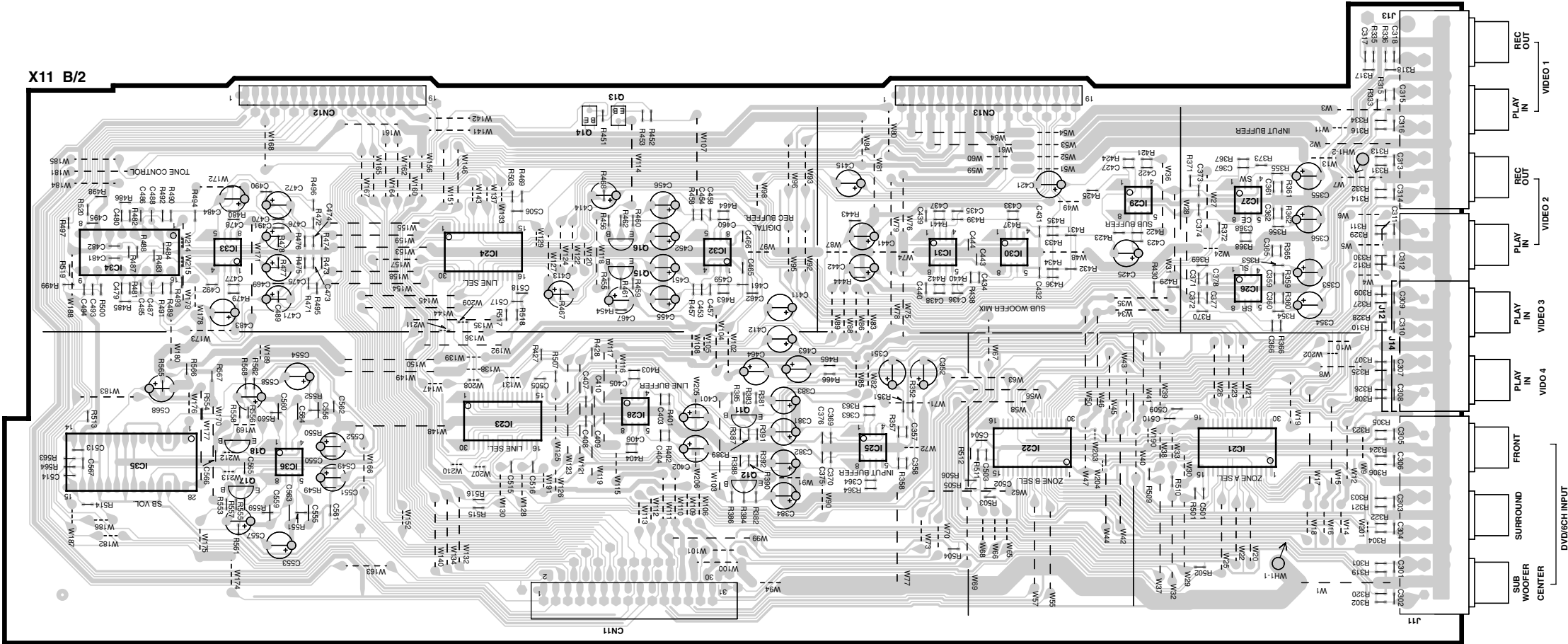


PC BOARD (Component side view)

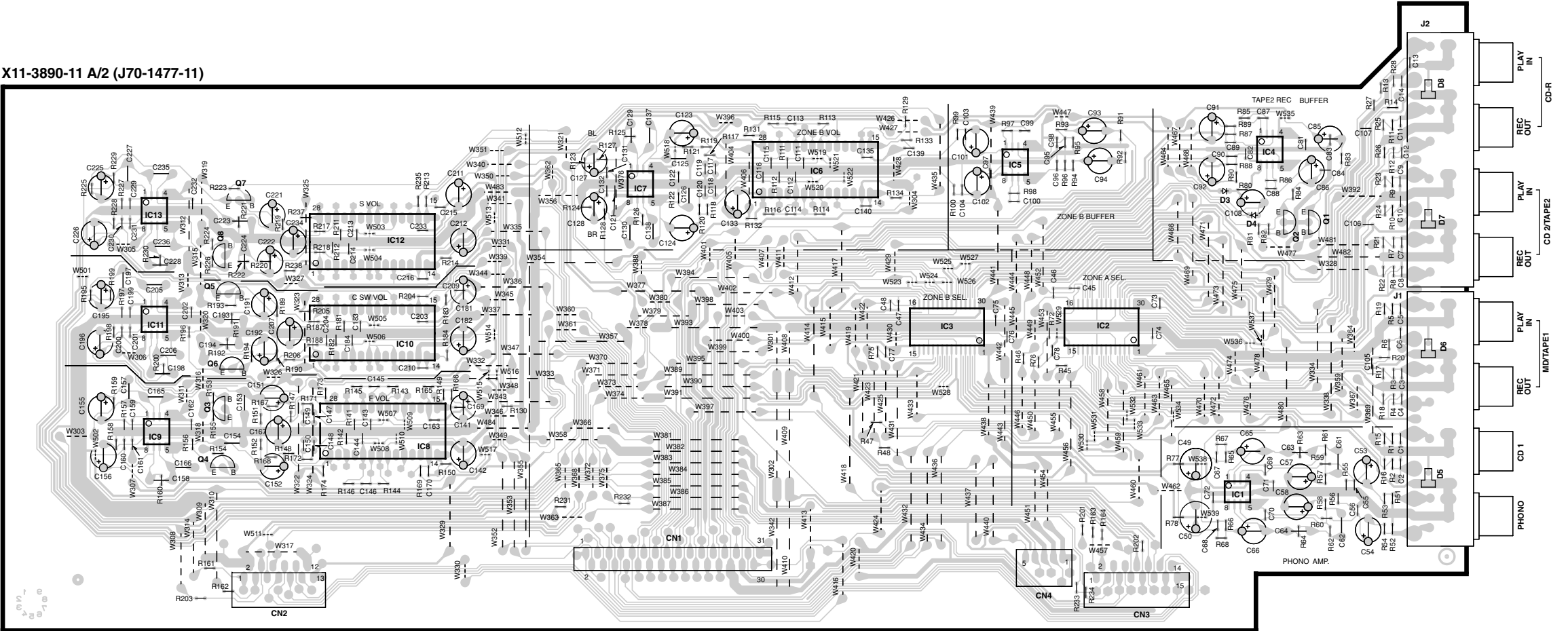
X08-3090-11 (J70-1482-12)



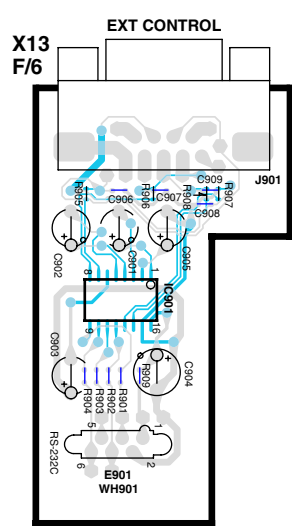
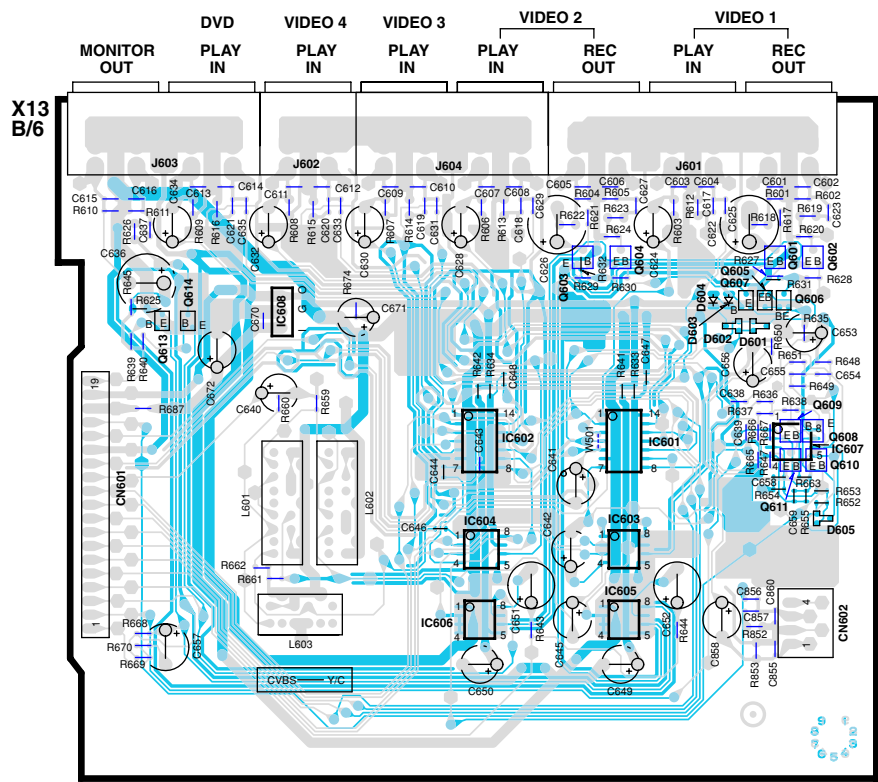
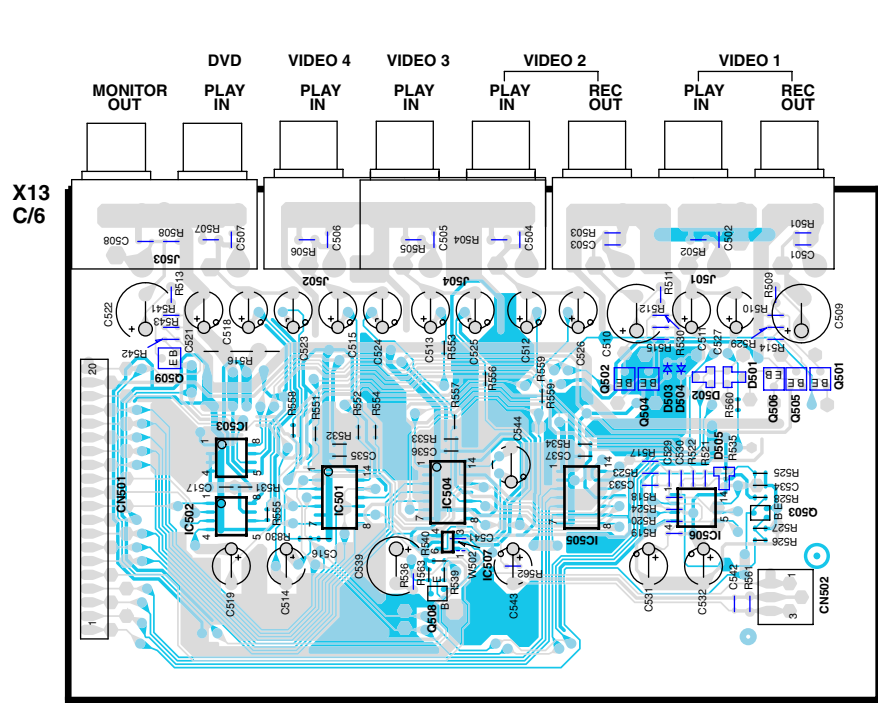
PC BOARD (Component side view)



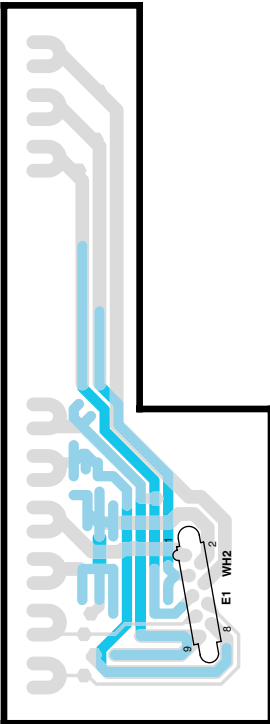
X11-3890-11 A/2 (J70-1477-11)



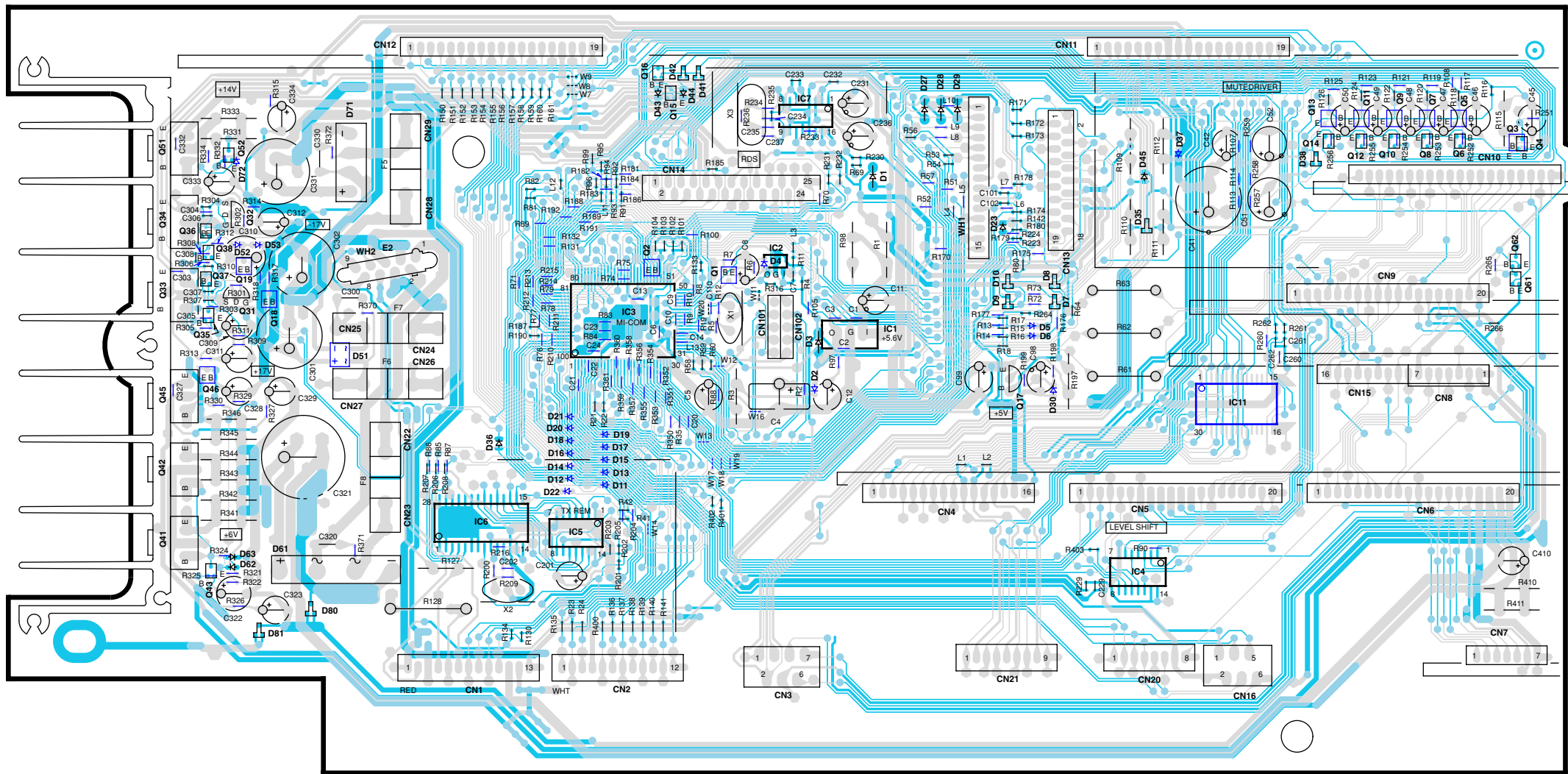
PC BOARD (Component side view)



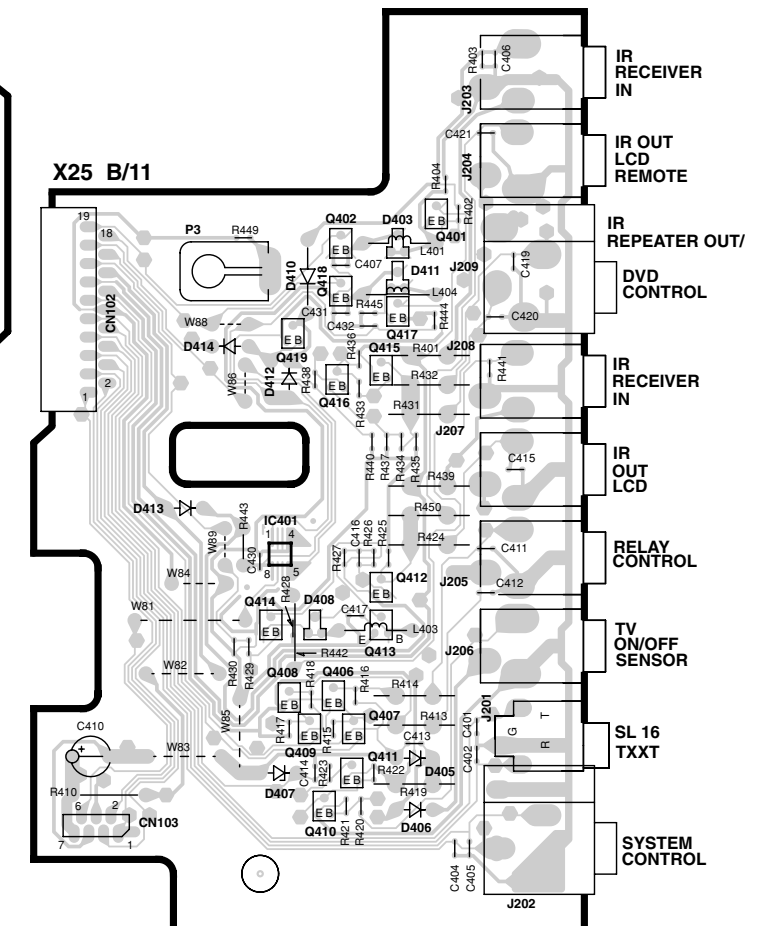
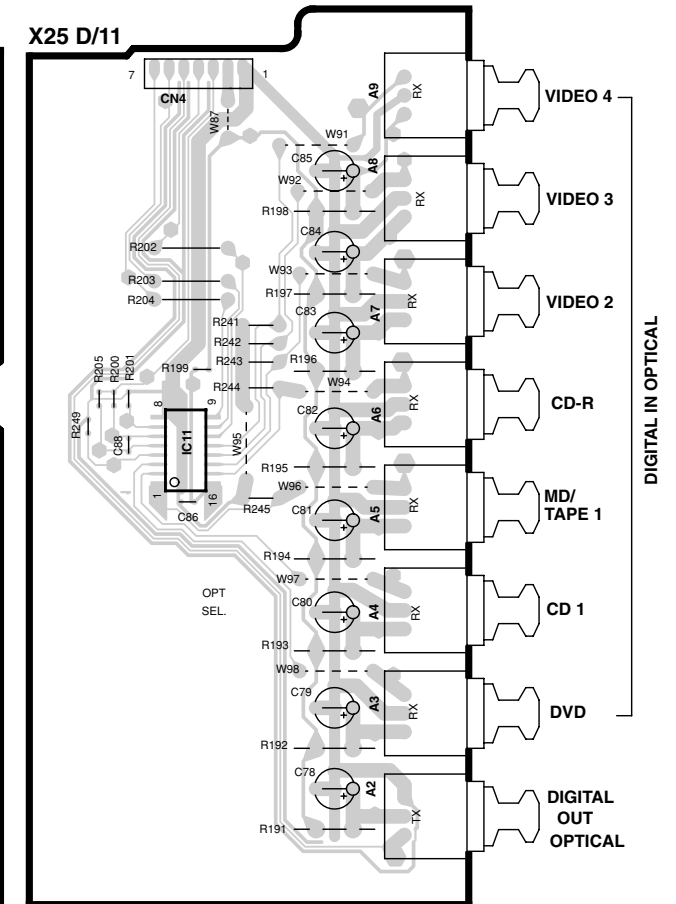
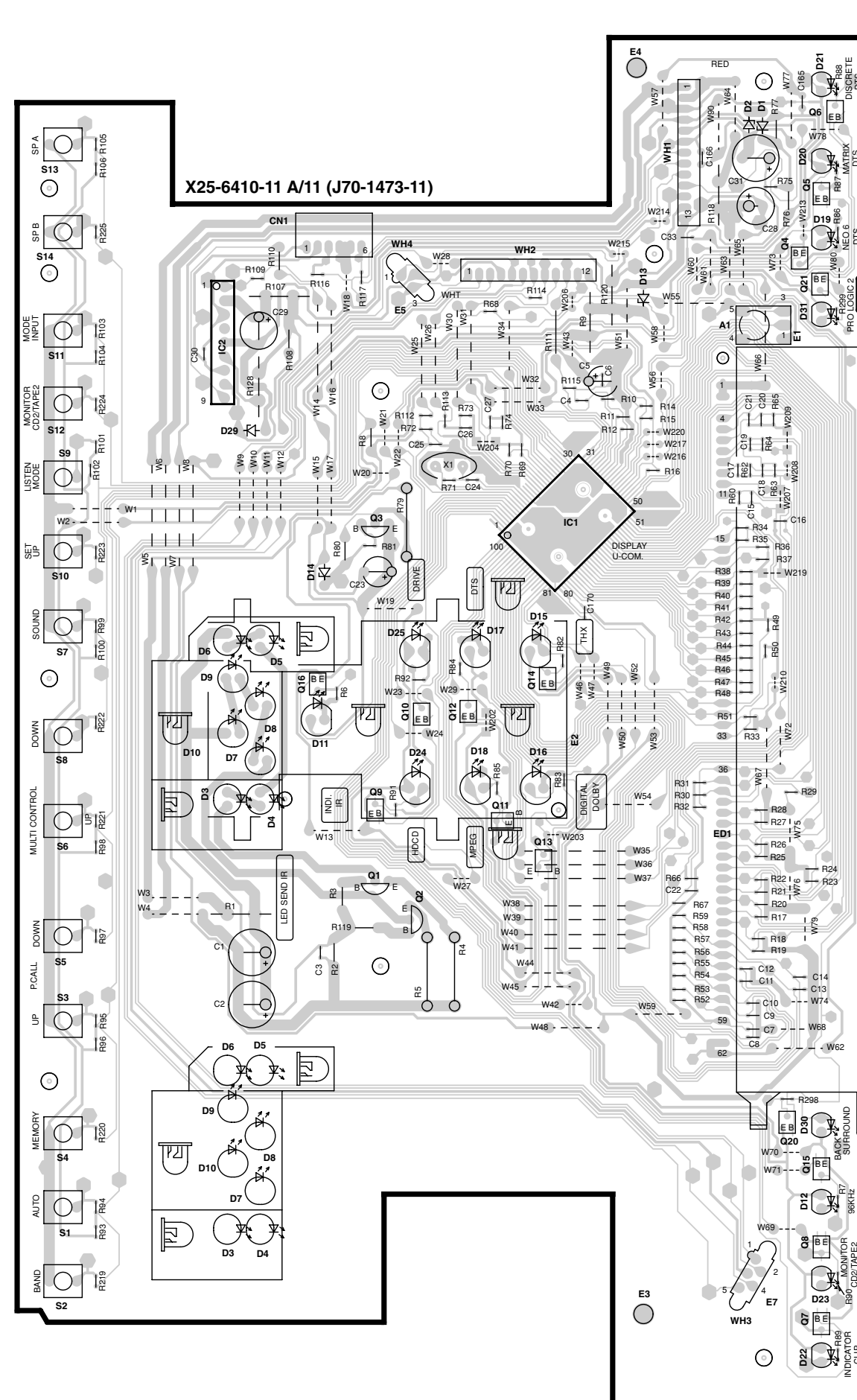
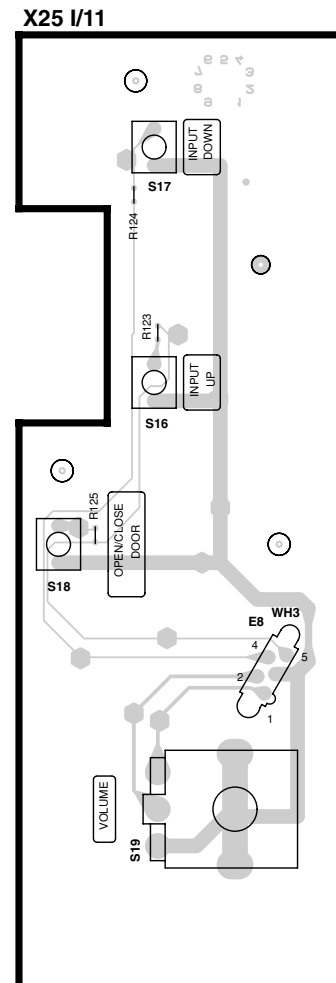
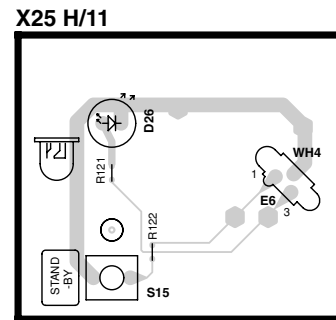
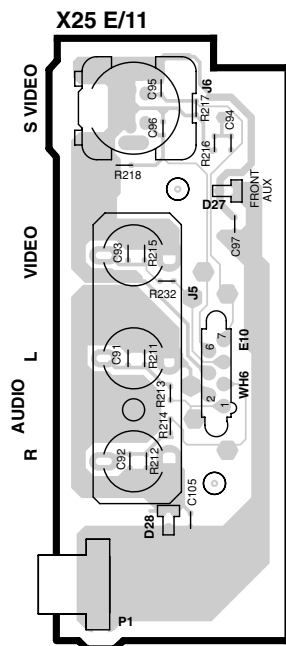
X13 E/6



X13-7840-11 A/6 (J70-1472-11)

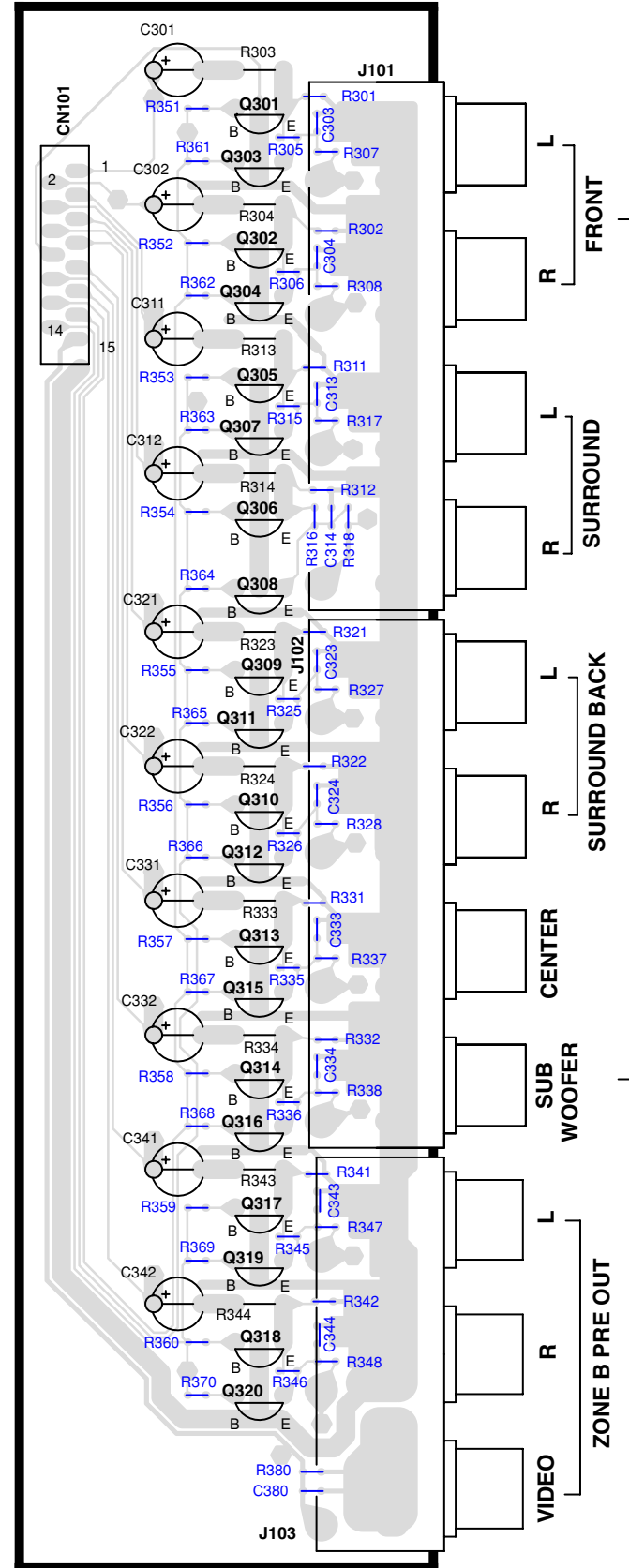


PC BOARD (Component side view)

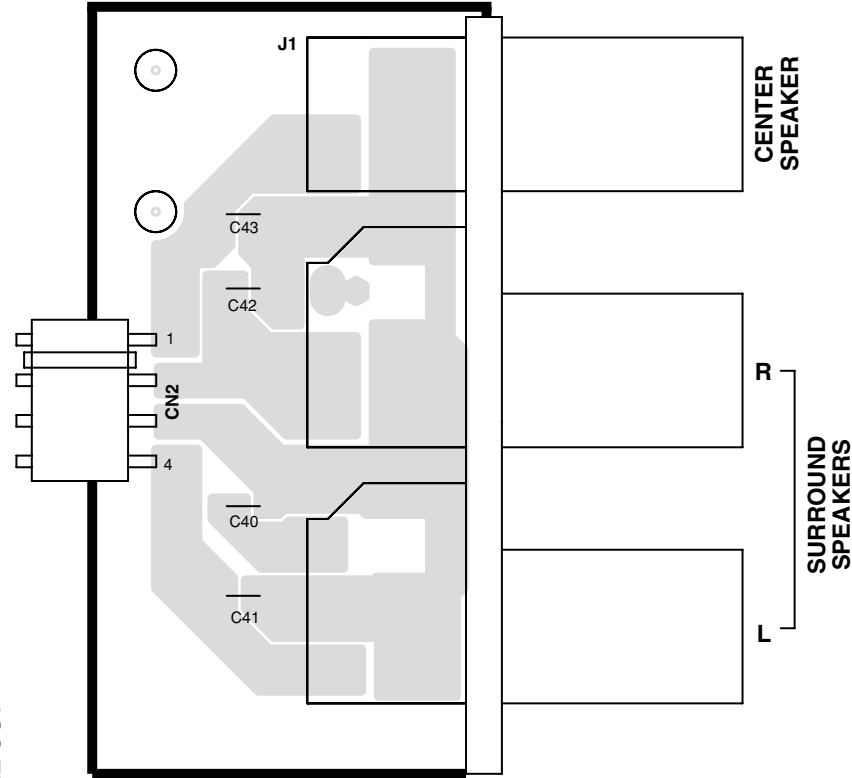


PC BOARD (Component side view)

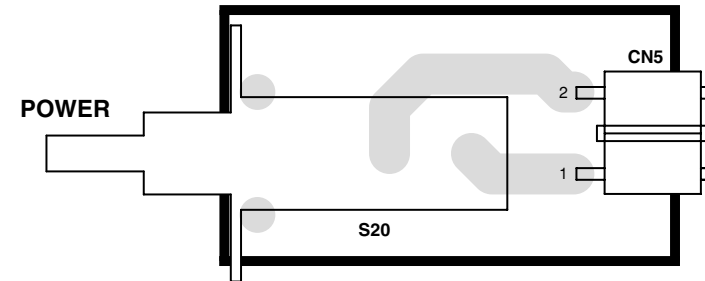
X25 C/11



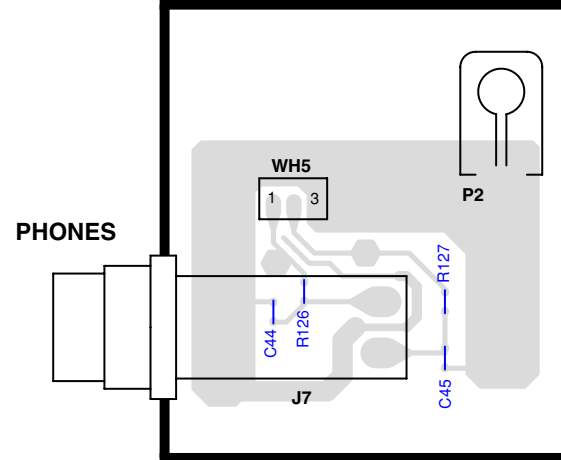
X25 J/11



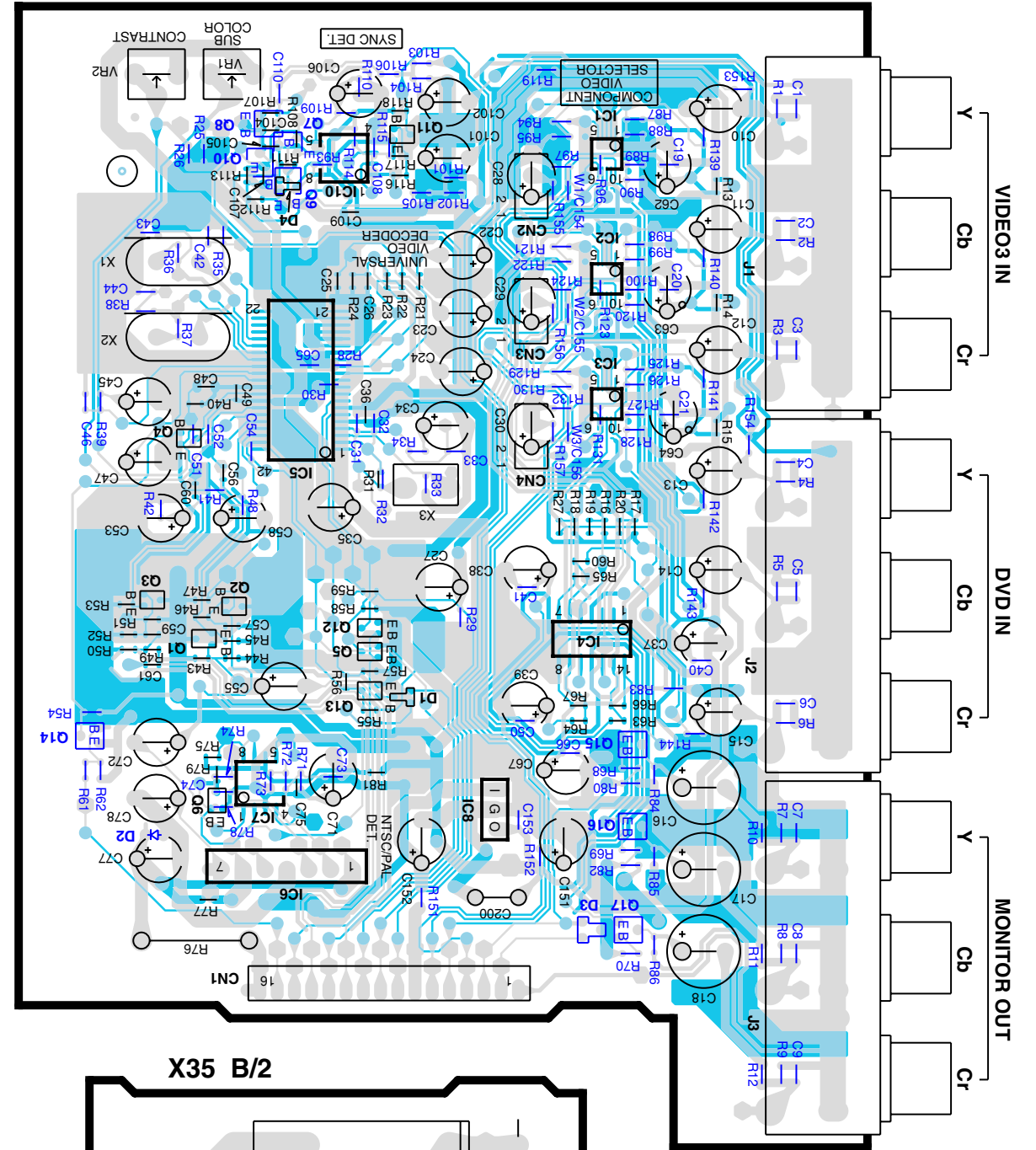
X25 G/11



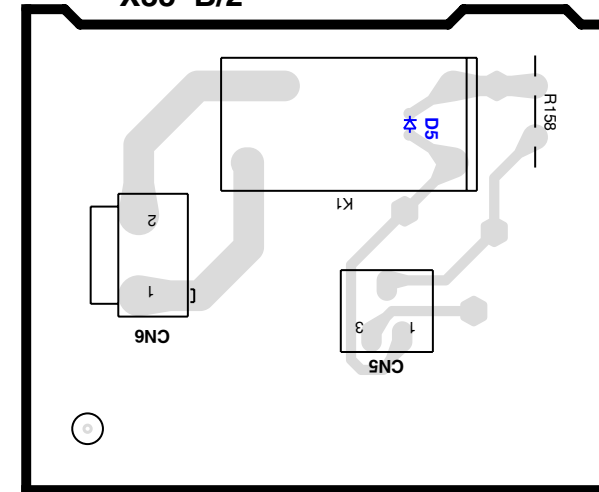
X25 F/11



X35-2260-10 A/2
(J70-1475-11)

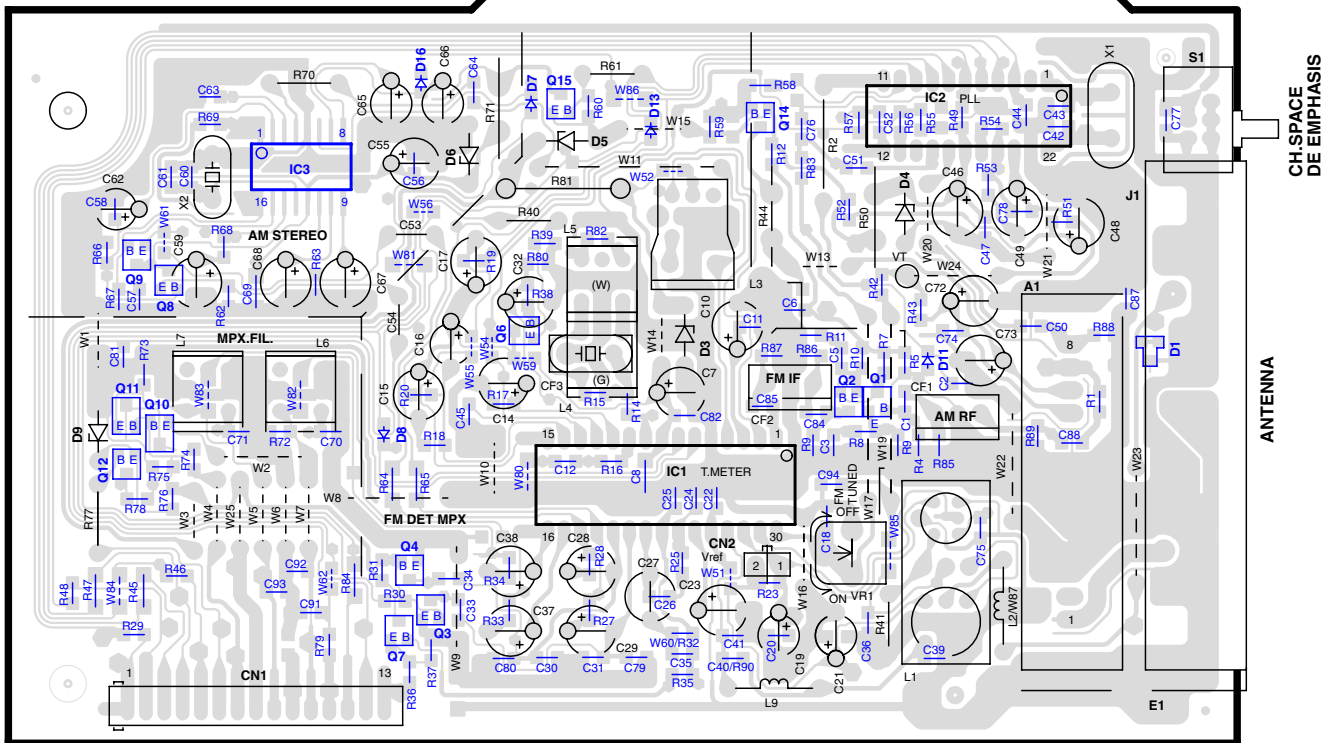


X35 B/2

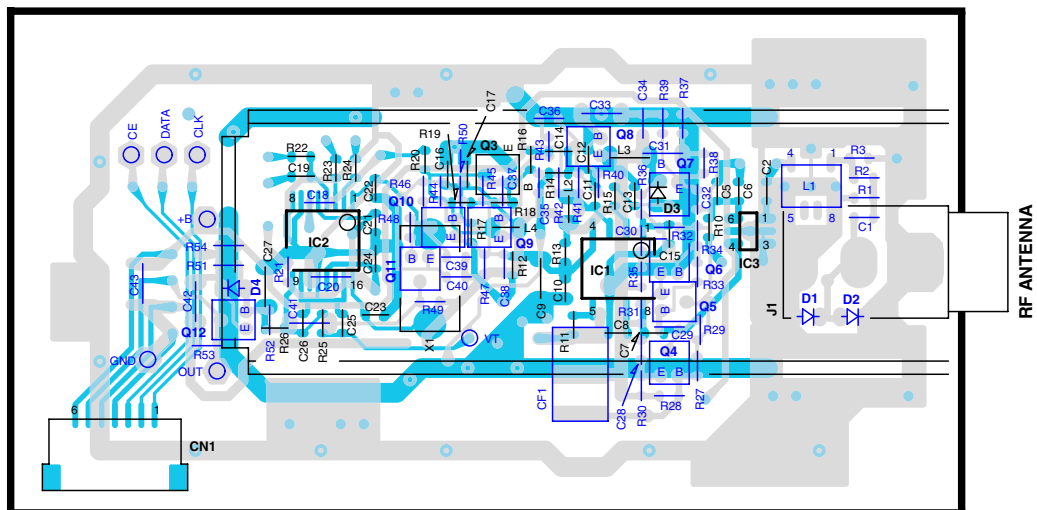


PC BOARD (Component side view)

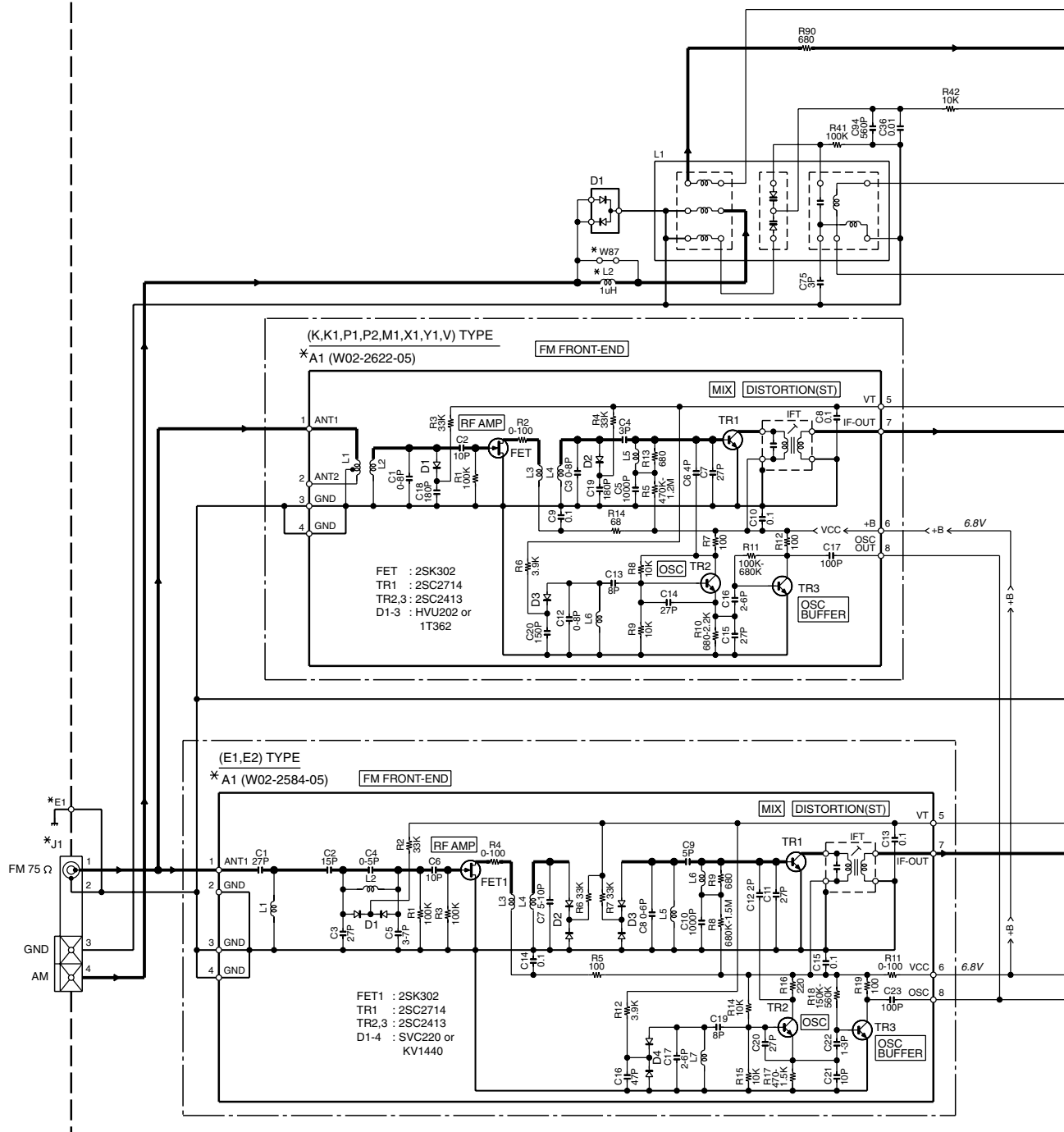
X05-5130-13 (J70-1381-11)



X05-5100-11 (J70-1411-32)



TUNER UNIT (X05-51XX-XX)



VR-5080/5090 (X05-5130-13)

DESTINATION	UNIT No.	A	B	C	F	A1	C25	C30, 31	C70, 71, 77	C74, 77, 92, 93	C79, 80	CF1,2	E1	J1	L2, 6, 7	R8, 11	R23	R25	R27, 28	R29	R72, 73	S1	W56	W82, 83, 87
COUNTRY	ABB.																							
U.S.A.	K,K1	0-13	NO			W02-2622	180P	0.033	NO	YES	1000P	L72-0596(MS2)	F10-1108	E70-0141	NO	33	4.7K	18K	6.8K	NO	33K	NO	NO	YES
CANADA	P1,P2																							

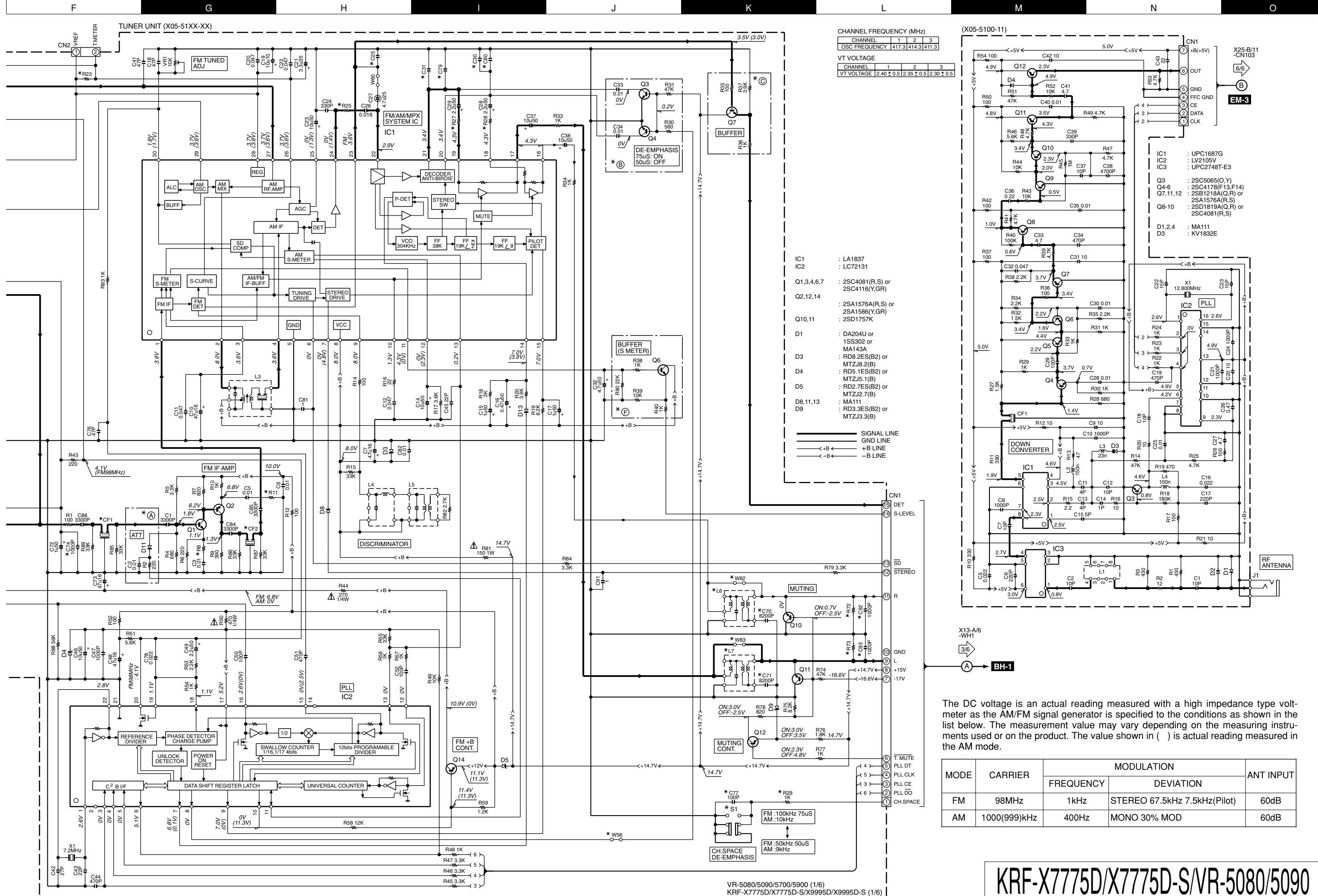
KRF-X7775D (X05-5132-71)

DESTINATION		UNIT No.	A	C	F	B	A1	C25	C30, 31	C70, 71, 78, 82	C74, 77, 92, 93	C79, 80	CF1,2	E1	J1	L2, 6, 7	R8	R11	R23	R25	R27, 28	R29	R72, 73	S1	W56	W82, 83, 87
COUNTRY	ABB.																									
EUROPE	E1	2-71	YES	NO	W02-2584	180P	0.022	YES	NO	4700P	L72-0536(MS3)	F10-1109	E70-0080	YES	10	22	15K	27K	4.3K	NO	3.9K	NO	NO	NO	NO	NO

KRF-X7775D-S (X05-51XX-XX)

DESTINATION		UNIT No.	A	C	F	B	A1	C25	C30, 31	C70, 71	C74, 92, 93	C77	C79, 80	CF1,2	E1	J1	L2, 6, 7	R8	R11	R23	R25	R27, 28	R29	R72, 73	S1	W56	W82, 83, 87
COUNTRY	ABB.																										
SHANGHAI	V	42-10																									
GENERAL MARKET	M1	30-21	NO			YES	W02-2622	330P	0.022	NO	YES	YES	1500P	L72-0531(MA5)	F10-1108	E70-0080	NO	33	33	4.7K	18K	6.8K	YES	33K	YES	YES	YES
PX	Y1																										
AUSTRALIA	X1	30-71											1200P	L72-0536(MS3)	F10-1109								NO		NO	NO	NO
EUROPE	E2	32-71	YES			NO	W02-2584	180P		YES	NO	NO	4700P	L72-0536(MS3)	F10-1109	YES	10	22	15K	27K	4.3K	NO	3.9K	NO	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.

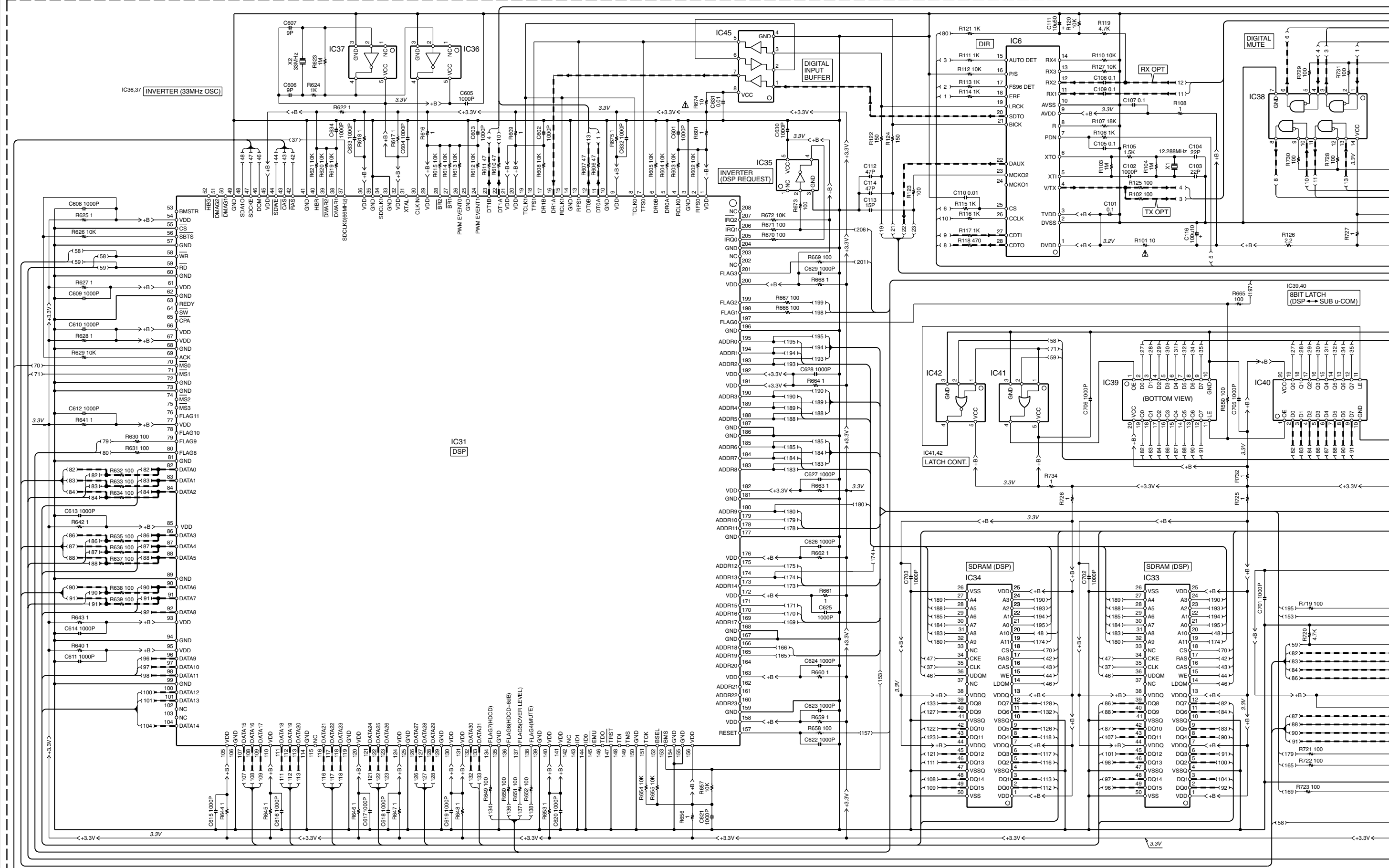


The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading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

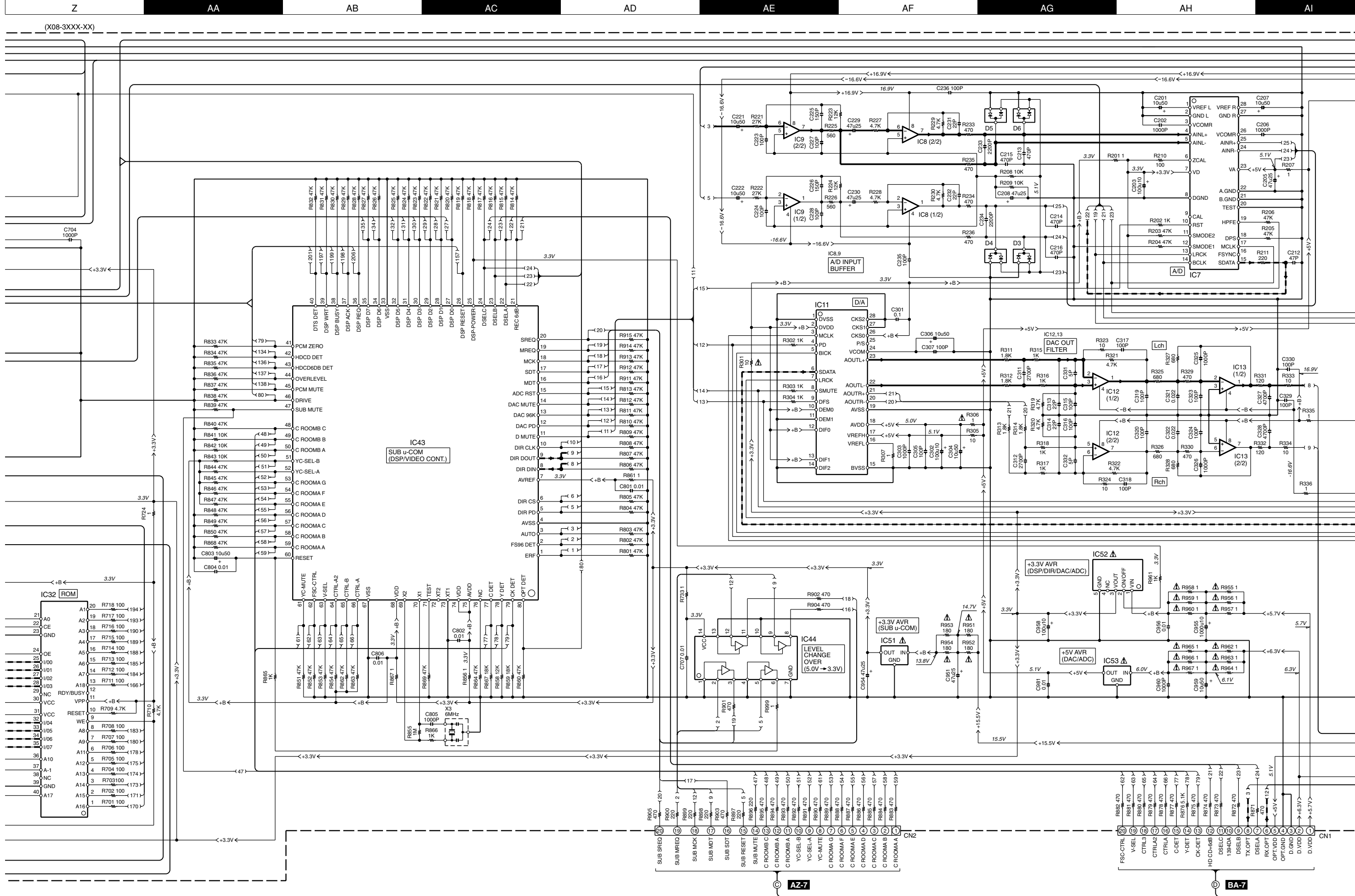
KRF-X7775D/X7775D-S/VR-5080/5090

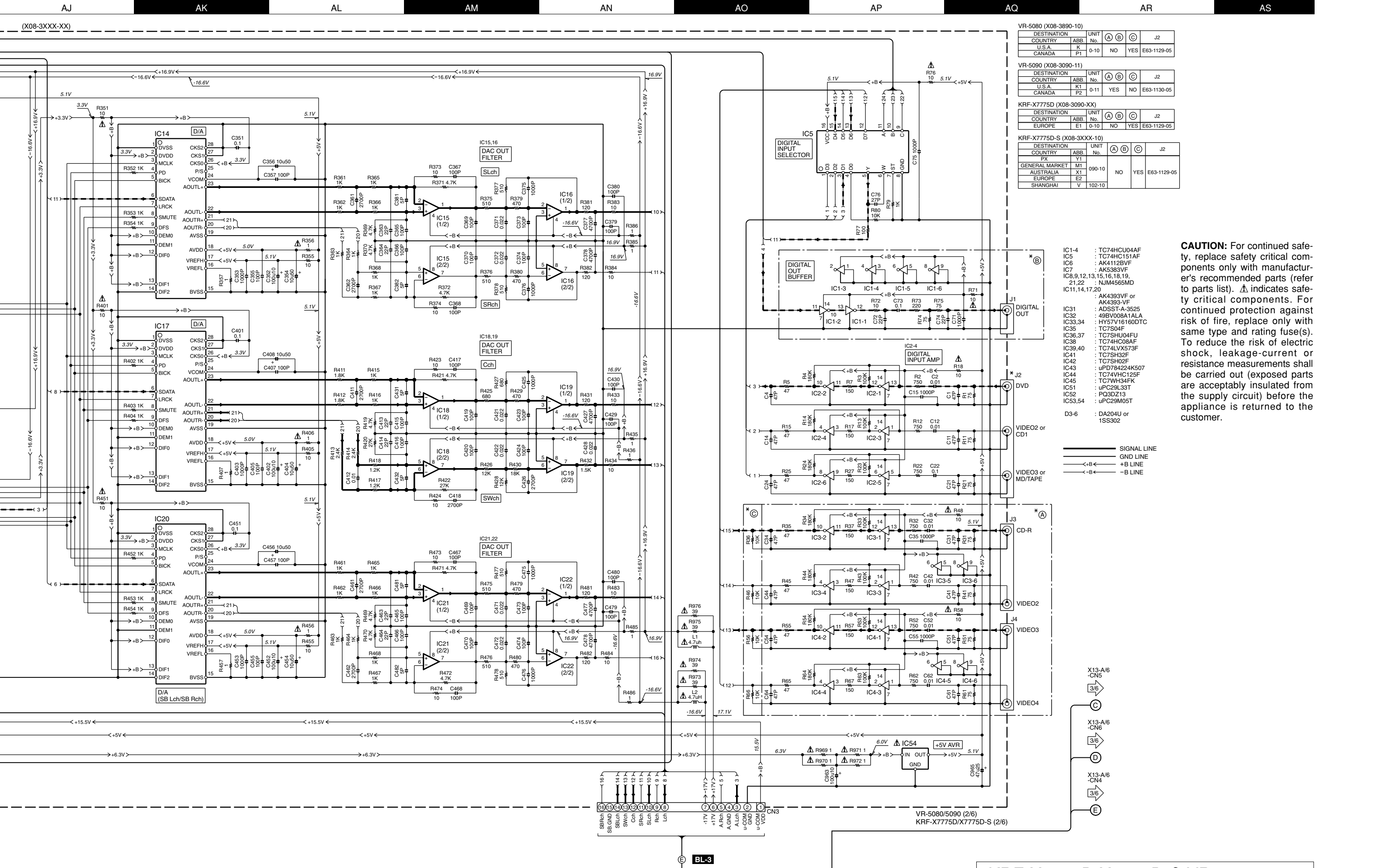
KENWOOD



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

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VR-5080 (X08-3890-10)

DESTINATION	UNIT No.	A	B	C	J2
COUNTRY	ABB.				
U.S.A.	K	0-10	NO	YES	E63-1129-05
CANADA	P1				

VR-5090 (X08-3090-11)

DESTINATION	UNIT No.	A	B	C	J2
COUNTRY	ABB.				
U.S.A.	K1	0-11	YES	NO	E63-1130-05
CANADA	P2				

KRF-X7775D (X08-3090-XX)

DESTINATION	UNIT No.	A	B	C	J2
COUNTRY	ABB.				
EUROPE	E1	0-10	NO	YES	E63-1129-05

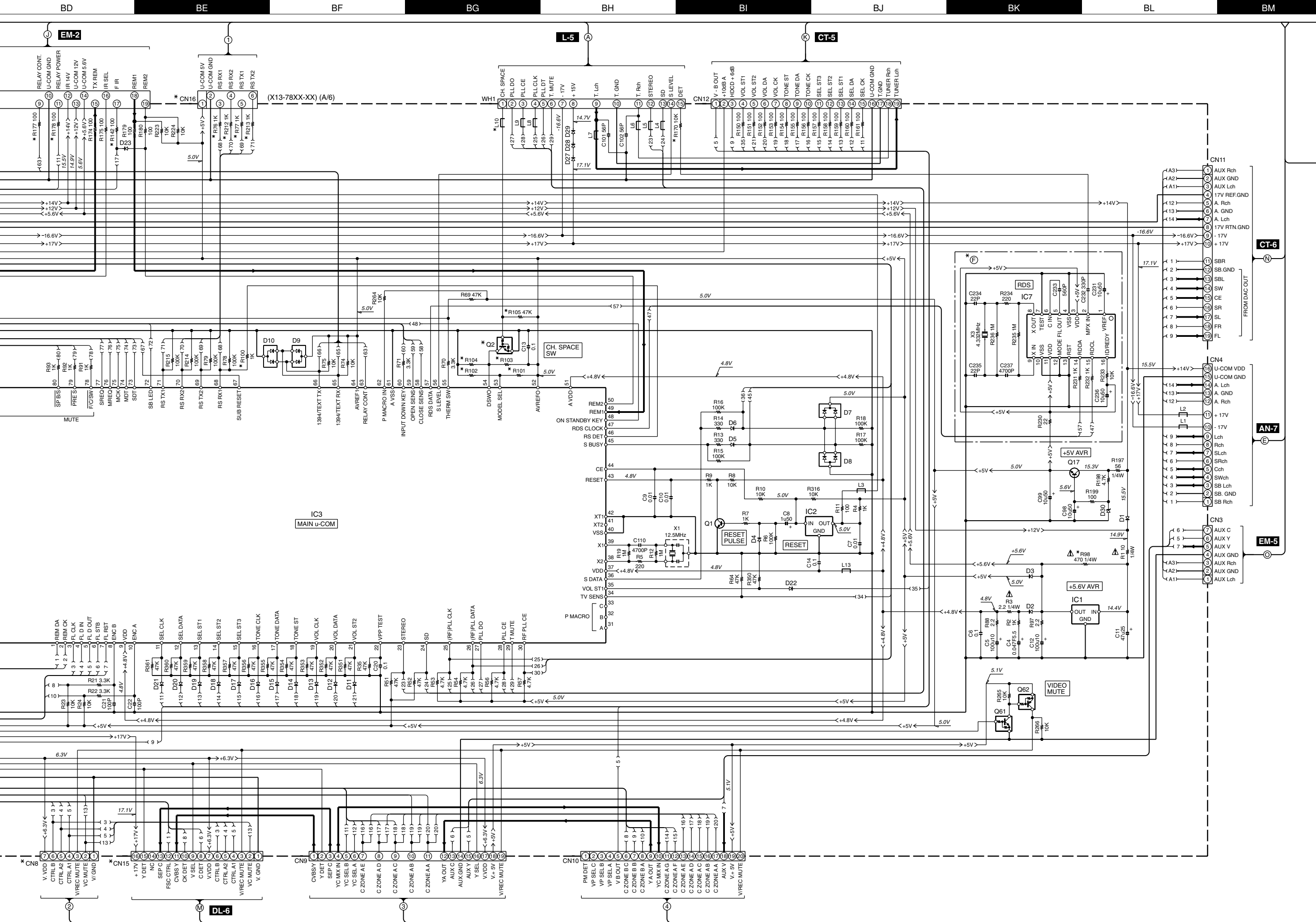
KRF-X7775D-S (X08-3XXX-10)

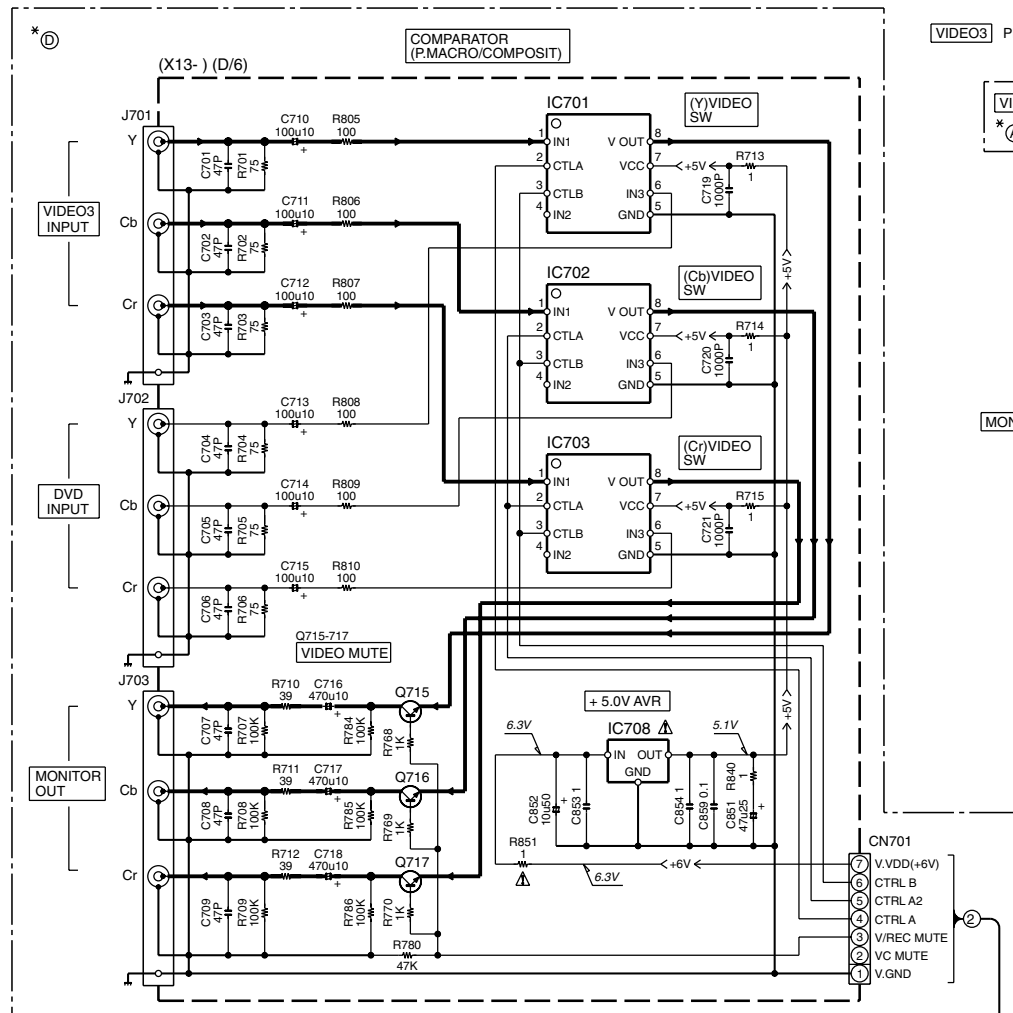
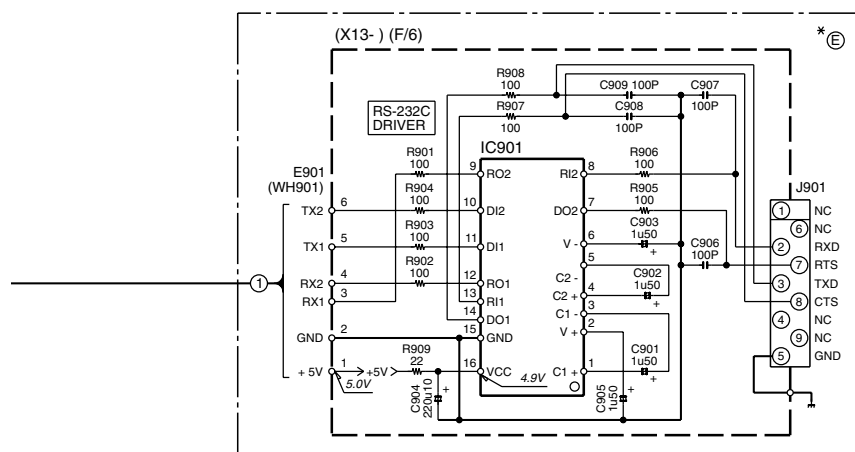
DESTINATION	UNIT No.	A	B	C	J2
COUNTRY	ABB.				
FX	Y1				
GENERAL MARKET	M1	090-10	NO	YES	E63-1129-05
AUSTRALIA	X1				
EUROPE	E2				
SHANGHAI	V	102-10			

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.

SIGNAL LINE
GND LINE
+B LINE
-B LINE

X13-A/6
-CN5
3/6
X13-A/6
-CN6
3/6
X13-A/6
-CN4
3/6





VR-5080 (X13-7840-10) (A/6)

DESTINATION	COUNTRY	ABB.	UNIT No.	CN8, 16	CN15	F5-7	F8	L10	Q2	R58-63, 101, 105, 142, 170, 176-178	R76, 77, 98, 100, 171-173, 212, 213	R102	R103	R104
U.S.A.	K	P1	0-10	NO	YES	NO	1.25A 125V	3.15A 125V	NO	NO	NO	YES	10K	6.2K 4.7K
CANADA	P1													

VR-5090 (X13-7840-11) (A/6)

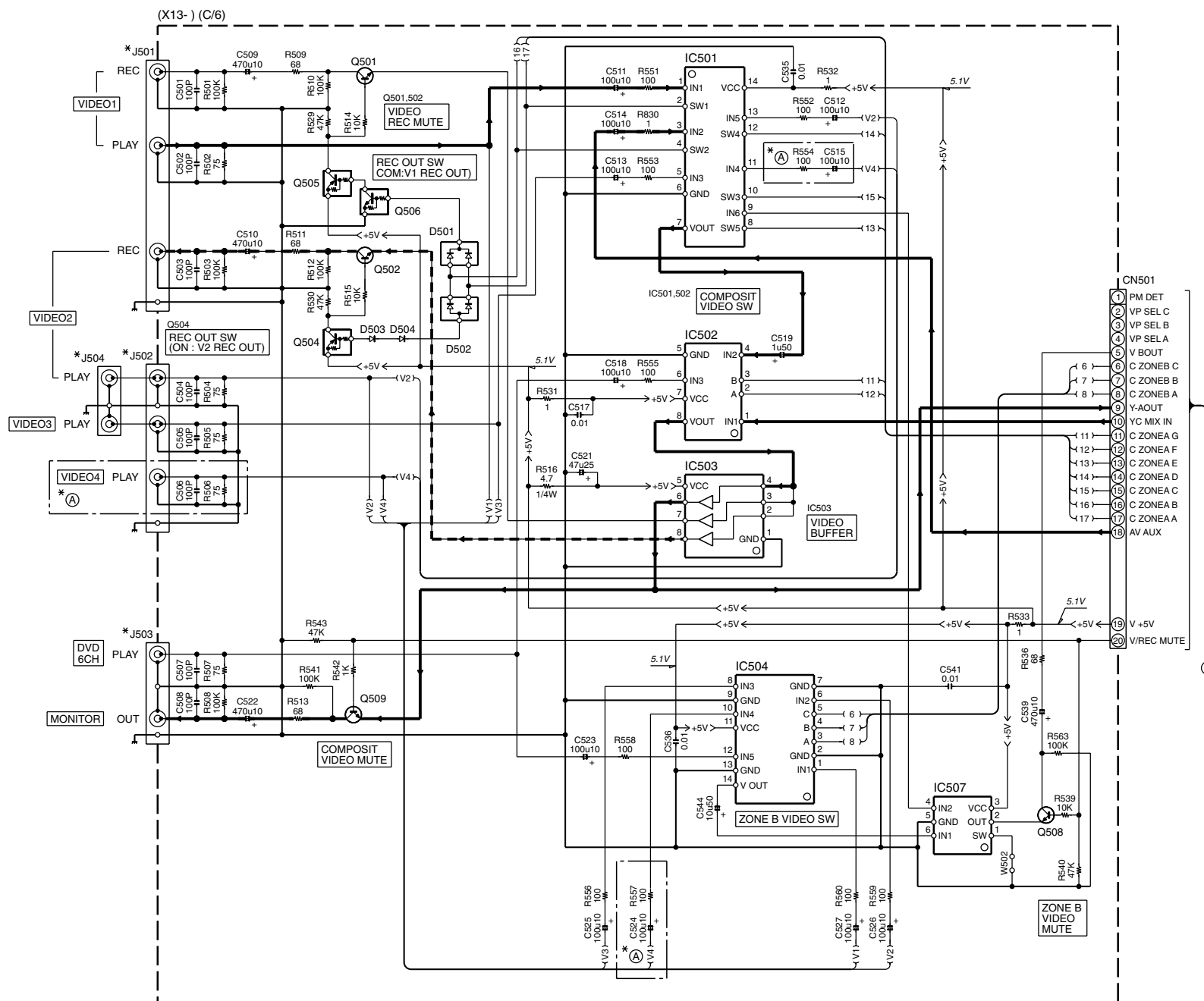
DESTINATION	COUNTRY	ABB.	UNIT No.	CN8	CN15, 16	F5-7	F8	L10	Q2	R58-63, 105, 142, 170, 176-178	R76, 77, 98, 100, 171-173, 212, 213	R101	R102	R103	R104
U.S.A.	K1	P2	0-11	NO	NO	YES	1.25A 125V	3.15A 125V	NO	NO	NO	YES	10K	1.8K	6.2K 4.7K
CANADA	P2														

KRF-X7775D (X13-7842-71) (A/6)

DESTINATION		UNIT No.	Ⓕ	CN8	CN15, 16	F5-7	F8	L10	Q2	R58-63,76,77,98, 100,105,212,213	R101	R102, 104	R103	R142,170-173, 176-178
COUNTRY	ABB.													
EUROPE	E1	2-71	YES	YES	NO	T1AL 250V	T3.15AL 250V	NO	NO	NO	3.3K	8.2K	2.2K	YES

KRF-X7775D-S (X13-78XX-XX) (A/6)

DESTINATION	COUNTRY	ABB.	UNIT No.	CN8	CN15, 16	F5-7	F8	L10	Q2	R58-63, 76, 77, 98, 100, 212, 213	R101	R102	R103	R104	R105	R142, 170-173, 176-178
PX	Y1		42-91	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
GENERAL MARKET	M1		40-21	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
AUSTRALIA	X1		40-71	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EUROPE	E2		42-71	YES	YES	NO	T1AL 250V	T3.15AL 250V	NO	NO	NO	NO	NO	NO	NO	NO
SHANGHI	V		52-10	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO



VR-5080 (X13-7840-10)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(C)	(E)	(D)	C640, 645, 646, 651, 652	J501	J502, 602	J503, 504	J601	J603, 604	L601	R643, 644, 659-662
U.S.A.	K			NO	YES	NO	NO	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO
CANADA	P1														

VR-5090 (X13-7840-11)

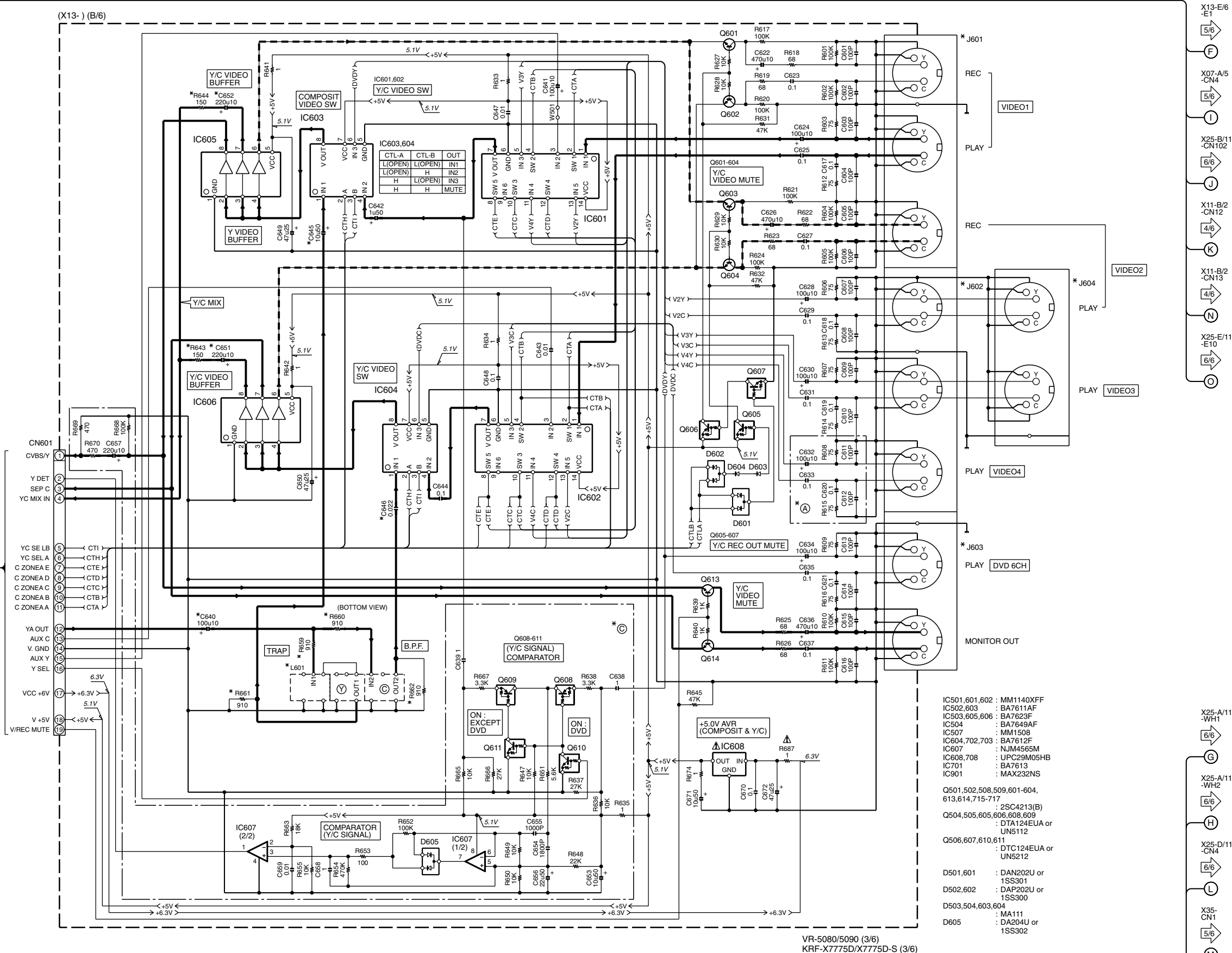
DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(C)	(E)	(D)	C640, 645, 646, 651, 652	J501	J502, 602	J503, 504	J601	J603, 604	L601	R643, 644, 659-662
U.S.A.	K1			YES	NO	YES	NO	YES	E63-1125-05	YES	E63-1123-05	NO	E56-0030-05	E56-0028-05	YES
CANADA	P2														

KRF-X7775D (X13-7842-71)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(E)	(C)	(D)	C640, 645, 646, 651, 652	J501	J502, 602	J503, 504	J601	J603, 604	L601	R643, 644, 659-662
EUROPE	E1		2-71	NO	NO	YES	NO	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO

KRF-X7775D-S (X13-78XX-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(C)	(E)	(D)	C640, 645, 646, 651, 652	J501	J502, 602	J503, 504	J601	J603, 604	L601	R643, 644, 659-662
PX	Y1		42-91	NO	YES	NO	NO	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO
GENERAL MARKET	M1		40-21	NO	YES	NO	NO	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO
AUSTRALIA	X1		40-71	NO	YES	NO	NO	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO
EUROPE	E2		42-71	YES	YES	NO	NO	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO
SHANGHI	V		52-10	NO	YES	NO	NO	NO	E63-1021-05	NO	E63-1020-05	E56-0029-05	E56-0027-05	NO	NO



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

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

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

KRF-X7775D/X7775D-S/VR-5080/5090

2

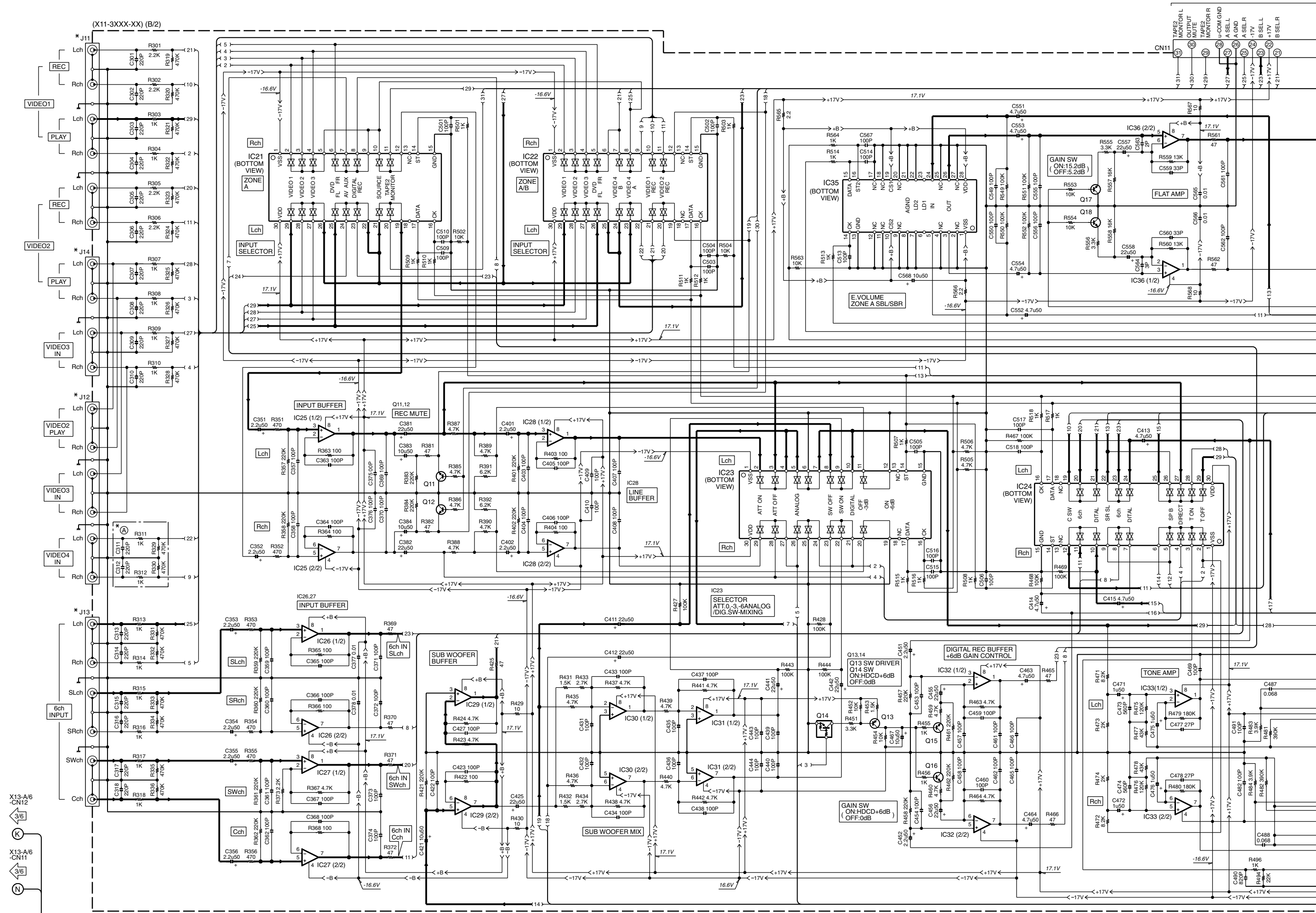
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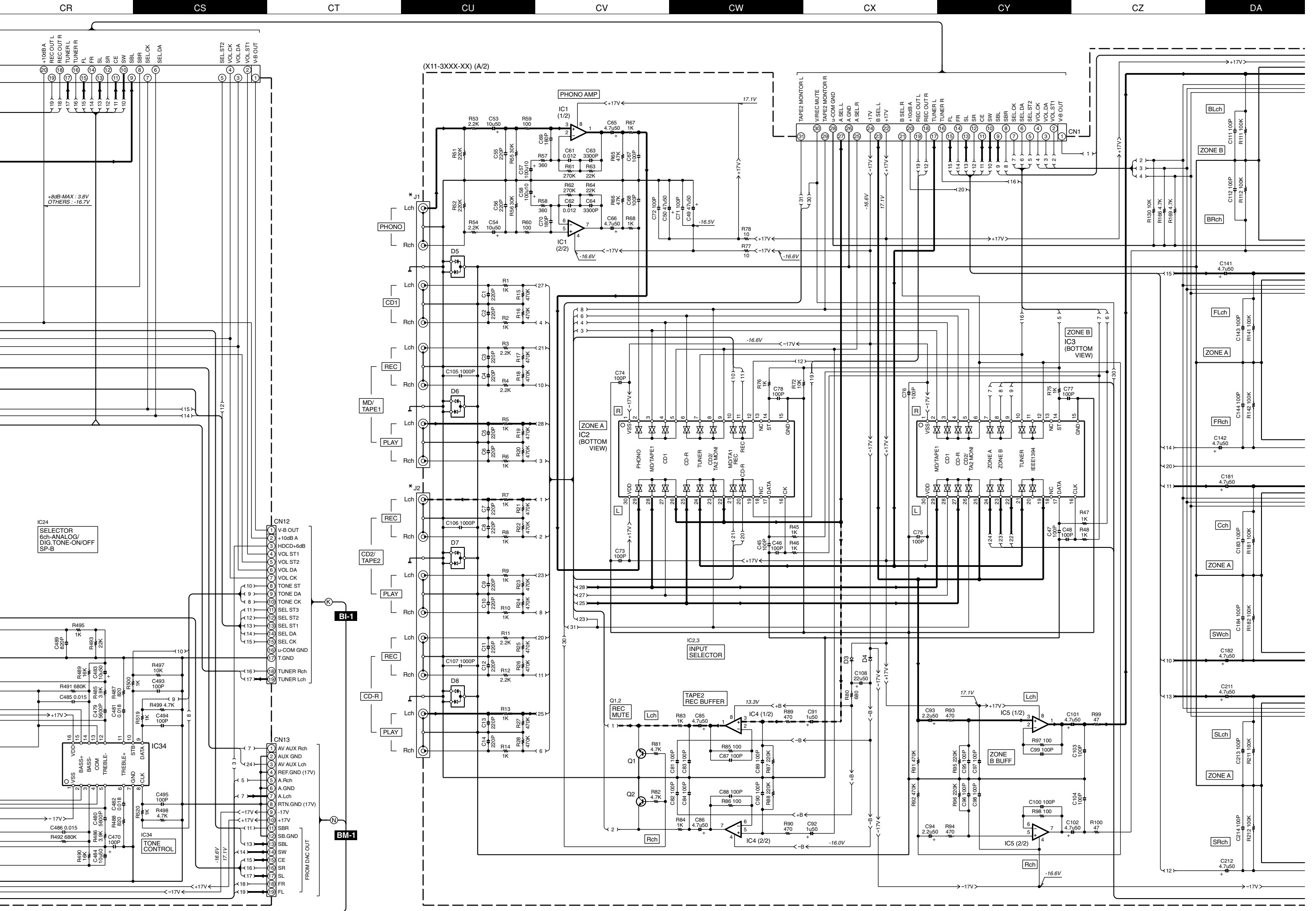
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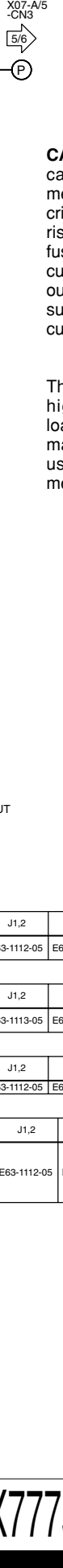
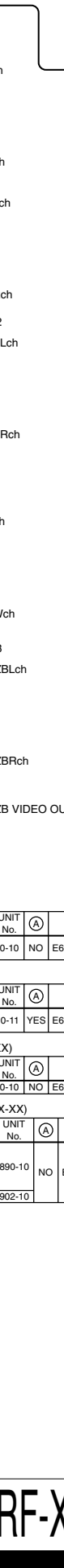
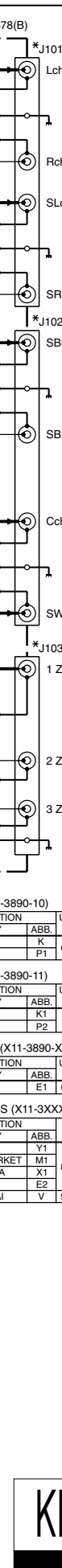
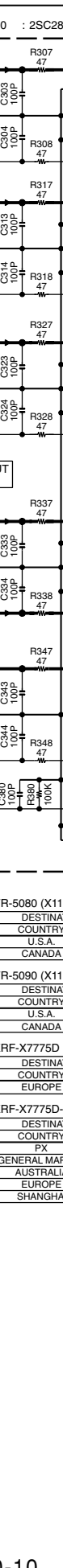
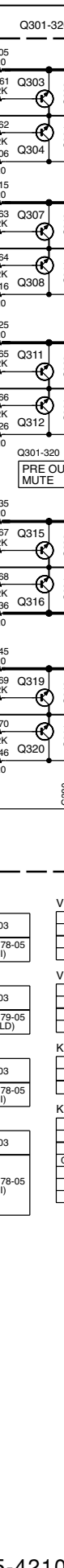
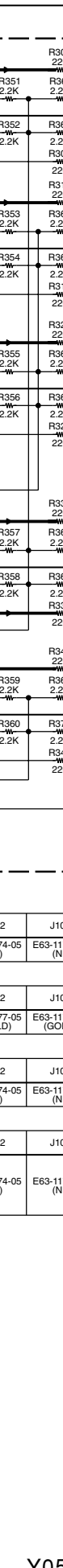
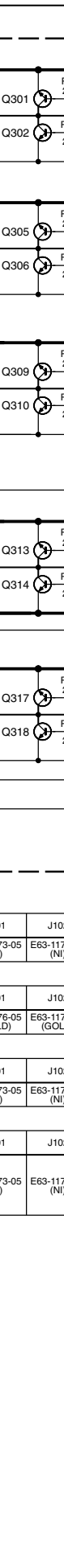
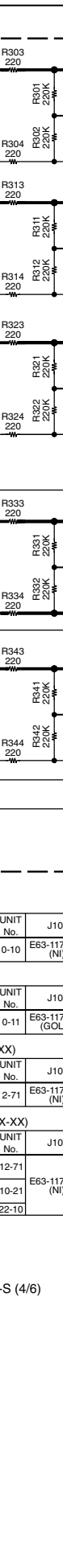
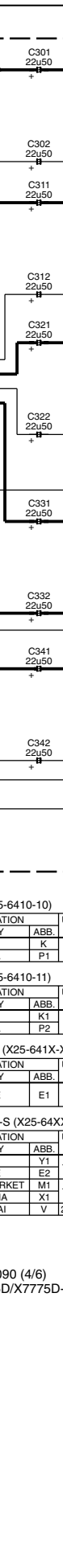
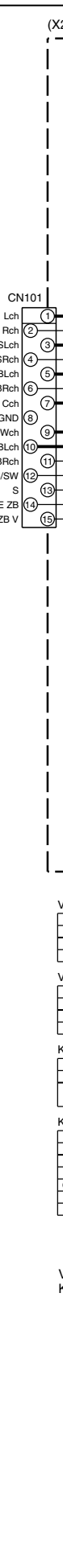
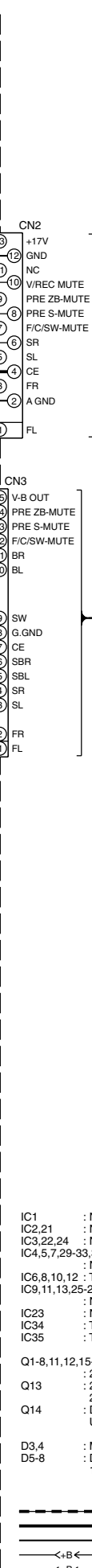
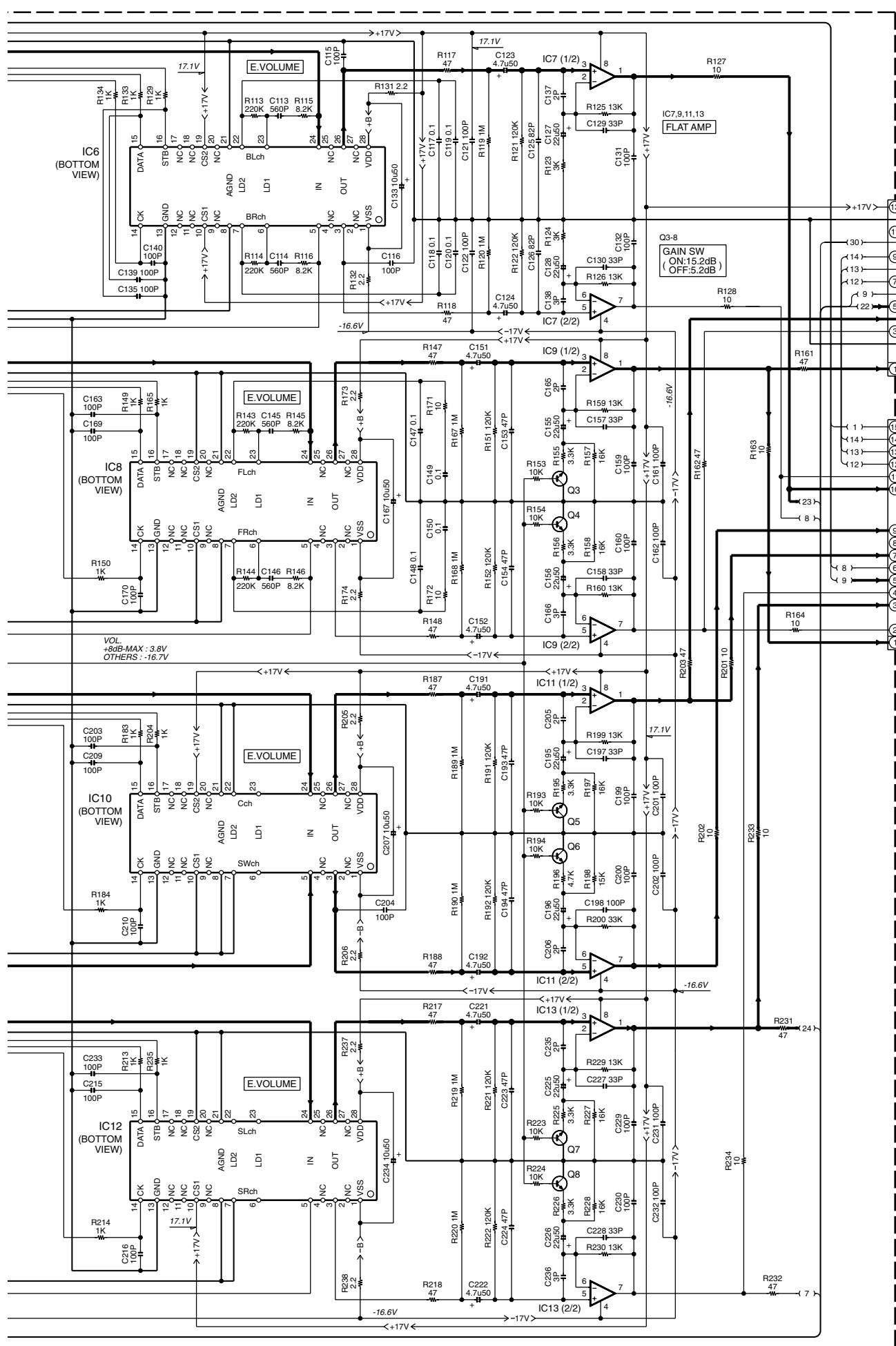
5

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7







VR-5080 (X25-6410-10)				
DESTINATION	UNIT	J101	J102	J103
COUNTRY	ABB.	No.		
U.S.A.	K	0-10	E63-1173-05 (NI)	E63-1174-05 (NI)
CANADA	P1	0-10	E63-1173-05 (NI)	E63-1174-05 (NI)

VR-5090 (X25-6410-11)				
DESTINATION	UNIT	J101	J102	J103
COUNTRY	ABB.	No.		
U.S.A.	K1	0-11	E63-1176-05 (GOLD)	E63-1177-05 (GOLD)
CANADA	P2	0-11	E63-1176-05 (GOLD)	E63-1177-05 (GOLD)

KRF-X7775D (X25-641X-XX)				
DESTINATION	UNIT	J101	J102	J103
COUNTRY	ABB.	No.		
EUROPE	E1	2-71	E63-1173-05 (NI)	E63-1174-05 (NI)

KRF-X7775D-S (X25-64XX-XX)				
DESTINATION	UNIT	J101	J102	J103
COUNTRY	ABB.	No.		
PX	Y1	12-71		
EUROPE	E2	10-21	E63-1173-05 (NI)	E63-1174-05 (NI)
GENERAL MARKET	M1	10-21	E63-1173-05 (NI)	E63-1174-05 (NI)
AUSTRALIA	X1	10-21	E63-1173-05 (NI)	E63-1174-05 (NI)
SHANGHAI	V	22-10		

VR-5080/5090 (4/6)
KRF-X7775D/X7775D-S (4/6)

VR-5080 (X11-3890-10)				
DESTINATION	UNIT	J1,2	J11	J12
COUNTRY	ABB.	No.		
U.S.A.	K	0-10	E63-1112-05	E63-1114-05
CANADA	P1	0-10	E63-1112-05	E63-1114-05

VR-5090 (X11-3890-11)				
DESTINATION	UNIT	J1,2	J11,12	J13
COUNTRY	ABB.	No.		
U.S.A.	K1	0-11	E63-1113-05	E63-1115-05
CANADA	P2	0-11	E63-1113-05	E63-1115-05

KRF-X7775D (X11-3890-XX)				
DESTINATION	UNIT	J1,2	J11	J12
COUNTRY	ABB.	No.		
EUROPE	E1	0-10	E63-1112-05	E63-1114-05

KRF-X7775D-S (X11-3XXX-XX)				
DESTINATION	UNIT	J1,2	J11	J12
COUNTRY	ABB.	No.		
PX	Y1	890-10		
GENERAL MARKET	M1	890-10	E63-1112-05	E63-1114-05
AUSTRALIA	X1	890-10	E63-1112-05	E63-1114-05
EUROPE	E2	902-10		
SHANGHAI	V	902-10		

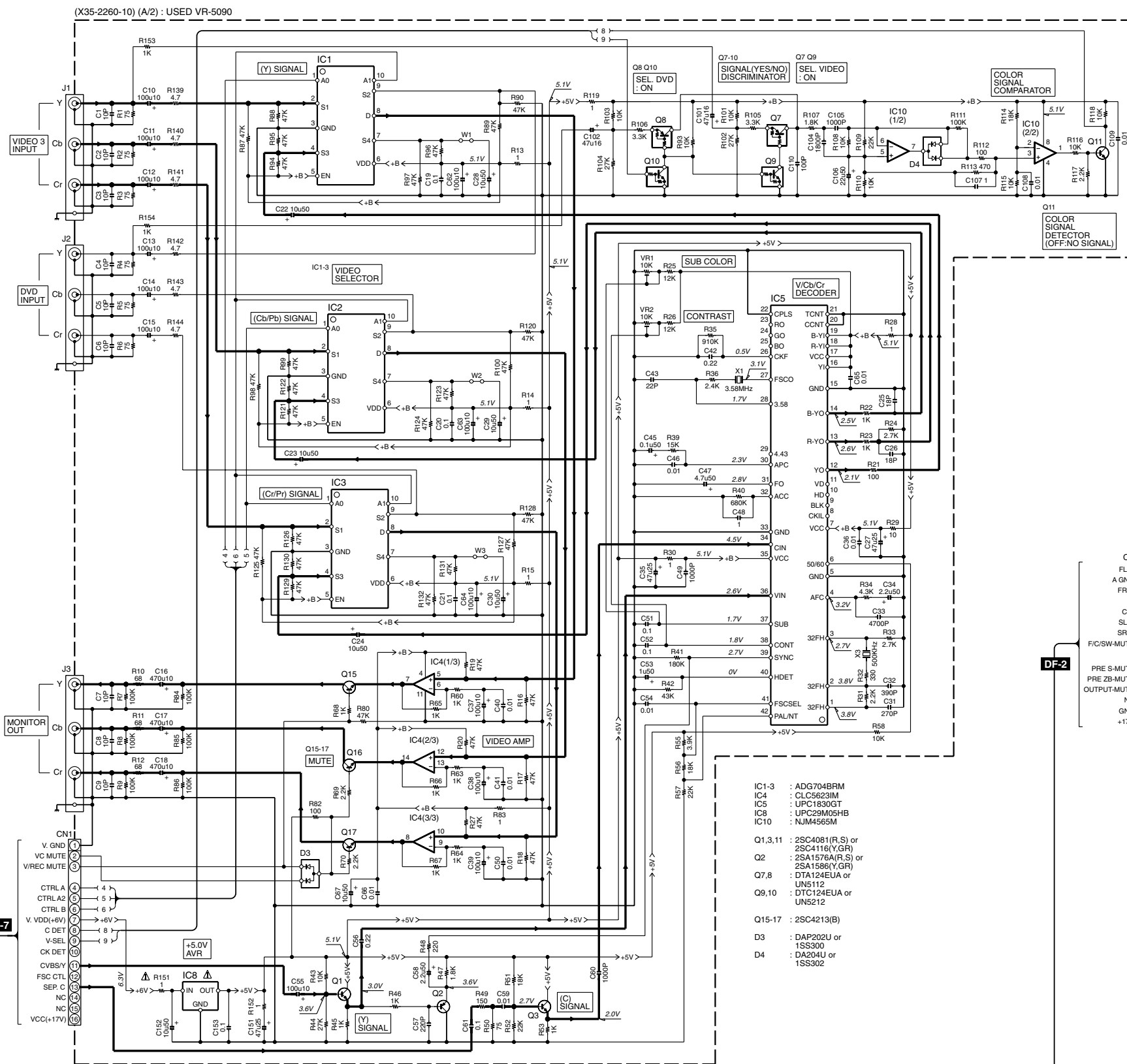
KRF-X7775D/X7775D-S/VR-5080/5090

KENWOOD

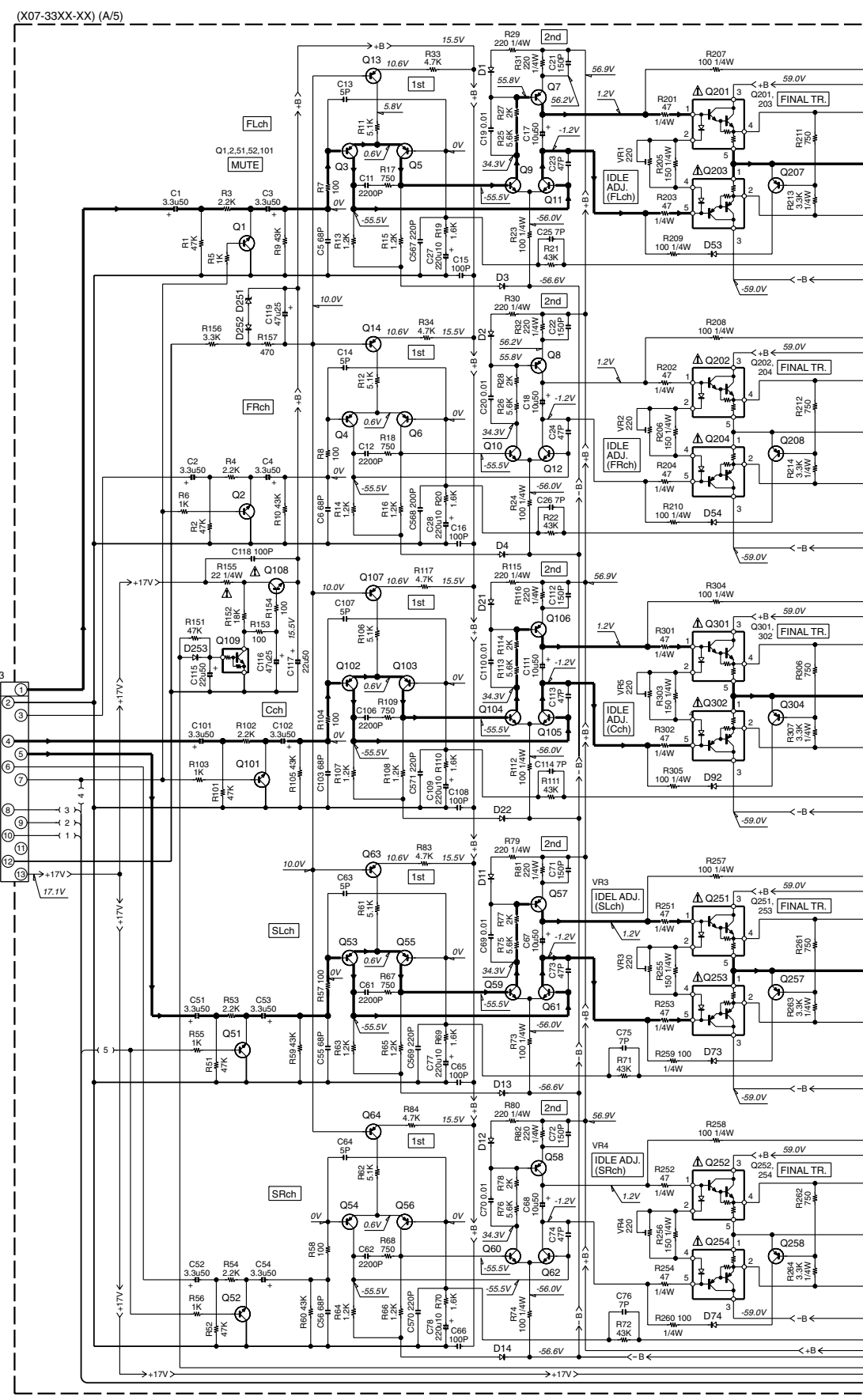
Y05-4210-10

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.

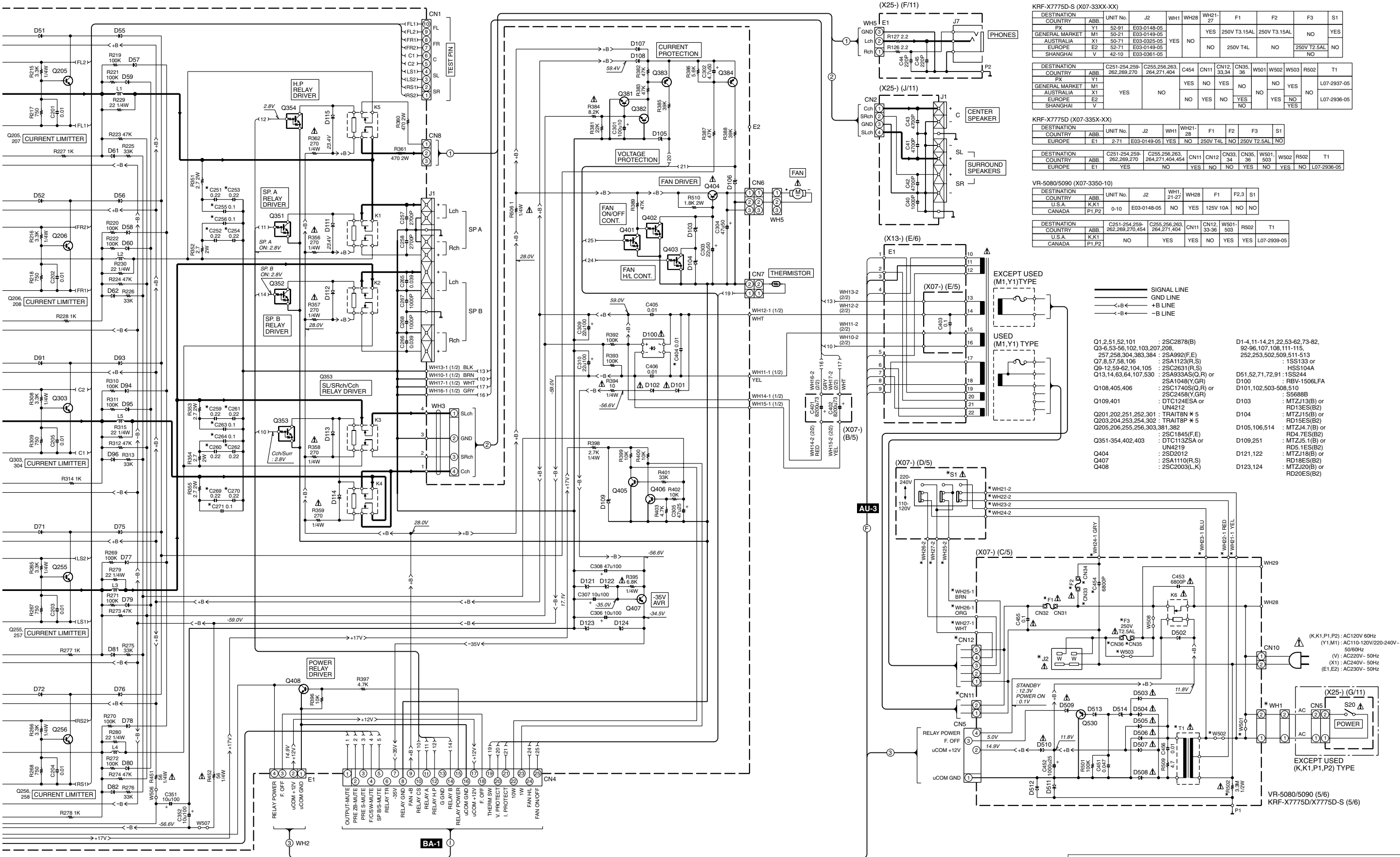
The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.



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 a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.



DESTINATION	COUNTRY	UNIT No.	J2	WH1	WH28	WH21-27	F1	F2	F3	S1
GENERAL MARKET	Y1	52-91	E03-0148-05			YES	250V T3.15AL	250V T3.15AL	NO	YES
EUROPE	E1	50-71	E03-0149-05	YES	NO	NO	250V T4L	NO	250V T2.5AL	NO
EUROPE	E2	52-71	E03-0149-05			NO	250V T4L	NO	250V T2.5AL	NO
SHANGHAI	V	42-10	E03-0361-05							

DESTINATION	COUNTRY	UNIT No.	J2	WH1	WH28	WH21-27	F1	F2	F3	S1
GENERAL MARKET	Y1	52-91	E03-0148-05			YES	250V T3.15AL	250V T3.15AL	NO	YES
EUROPE	E1	50-71	E03-0149-05	YES	NO	NO	250V T4L	NO	250V T2.5AL	NO
EUROPE	E2	52-71	E03-0149-05			NO	250V T4L	NO	250V T2.5AL	NO
SHANGHAI	V	42-10	E03-0361-05							

DESTINATION	COUNTRY	UNIT No.	J2	WH1	WH28	WH21-27	F1	F2	F3	S1
GENERAL MARKET	Y1	52-91	E03-0148-05			YES	250V T3.15AL	250V T3.15AL	NO	YES
EUROPE	E1	50-71	E03-0149-05	YES	NO	NO	250V T4L	NO	250V T2.5AL	NO
EUROPE	E2	52-71	E03-0149-05			NO	250V T4L	NO	250V T2.5AL	NO
SHANGHAI	V	42-10	E03-0361-05							

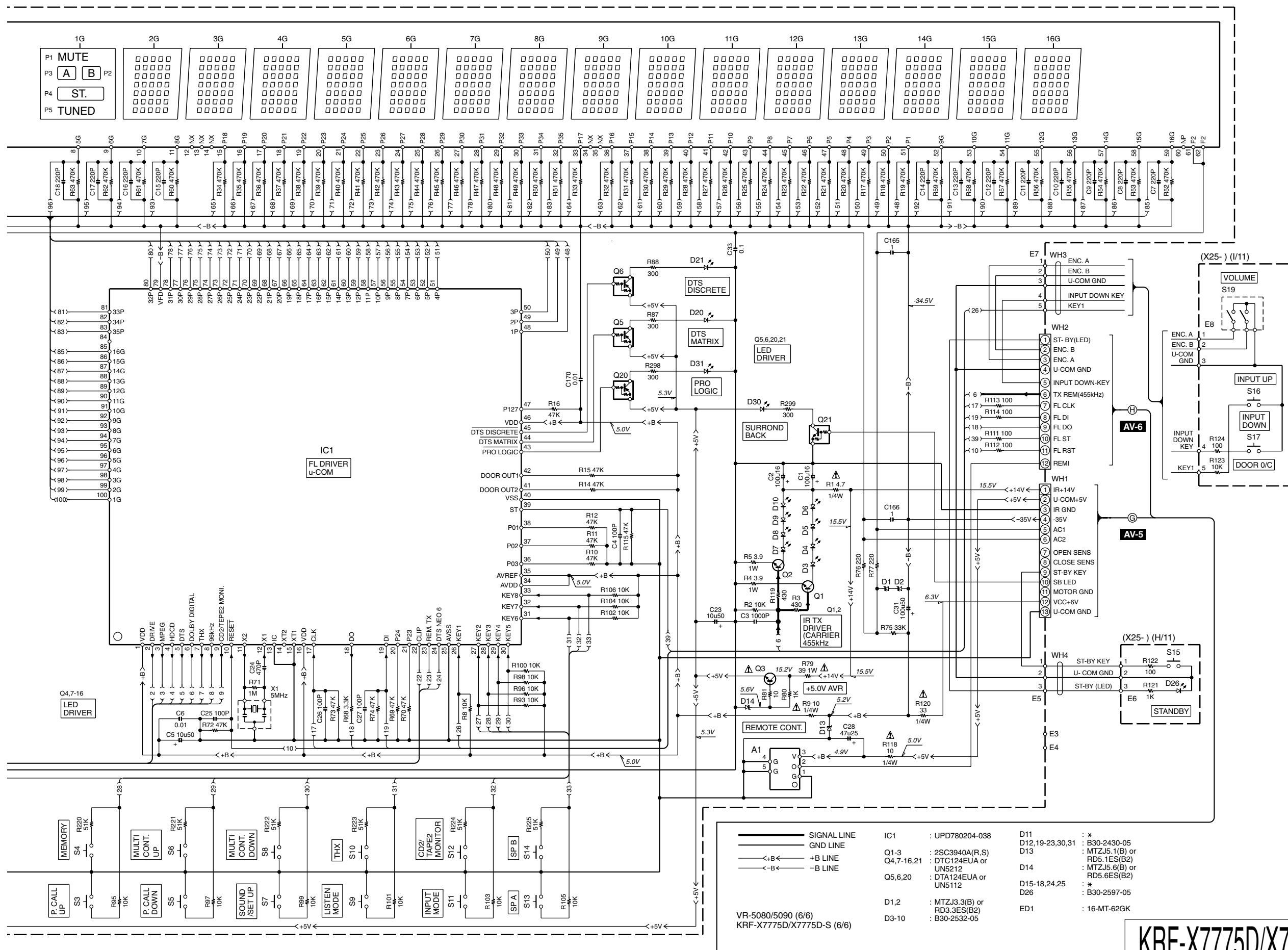
DESTINATION	COUNTRY	UNIT No.	J2	WH1	WH28	WH21-27	F1	F2	F3	S1
GENERAL MARKET	Y1	52-91	E03-0148-05			YES	250V T3.15AL	250V T3.15AL	NO	YES
EUROPE	E1	50-71	E03-0149-05	YES	NO	NO	250V T4L	NO	250V T2.5AL	NO
EUROPE	E2	52-71	E03-0149-05			NO	250V T4L	NO	250V T2.5AL	NO
SHANGHAI	V	42-10	E03-0361-05							

DESTINATION	COUNTRY	UNIT No.	J2	WH1	WH28	WH21-27	F1	F2	F3	S1
GENERAL MARKET	Y1	52-91	E03-0148-05			YES	250V T3.15AL	250V T3.15AL	NO	YES
EUROPE	E1	50-71	E03-0149-05	YES	NO	NO	250V T4L	NO	250V T2.5AL	NO
EUROPE	E2	52-71	E03-0149-05			NO	250V T4L	NO	250V T2.5AL	NO
SHANGHAI	V	42-10	E03-0361-05							

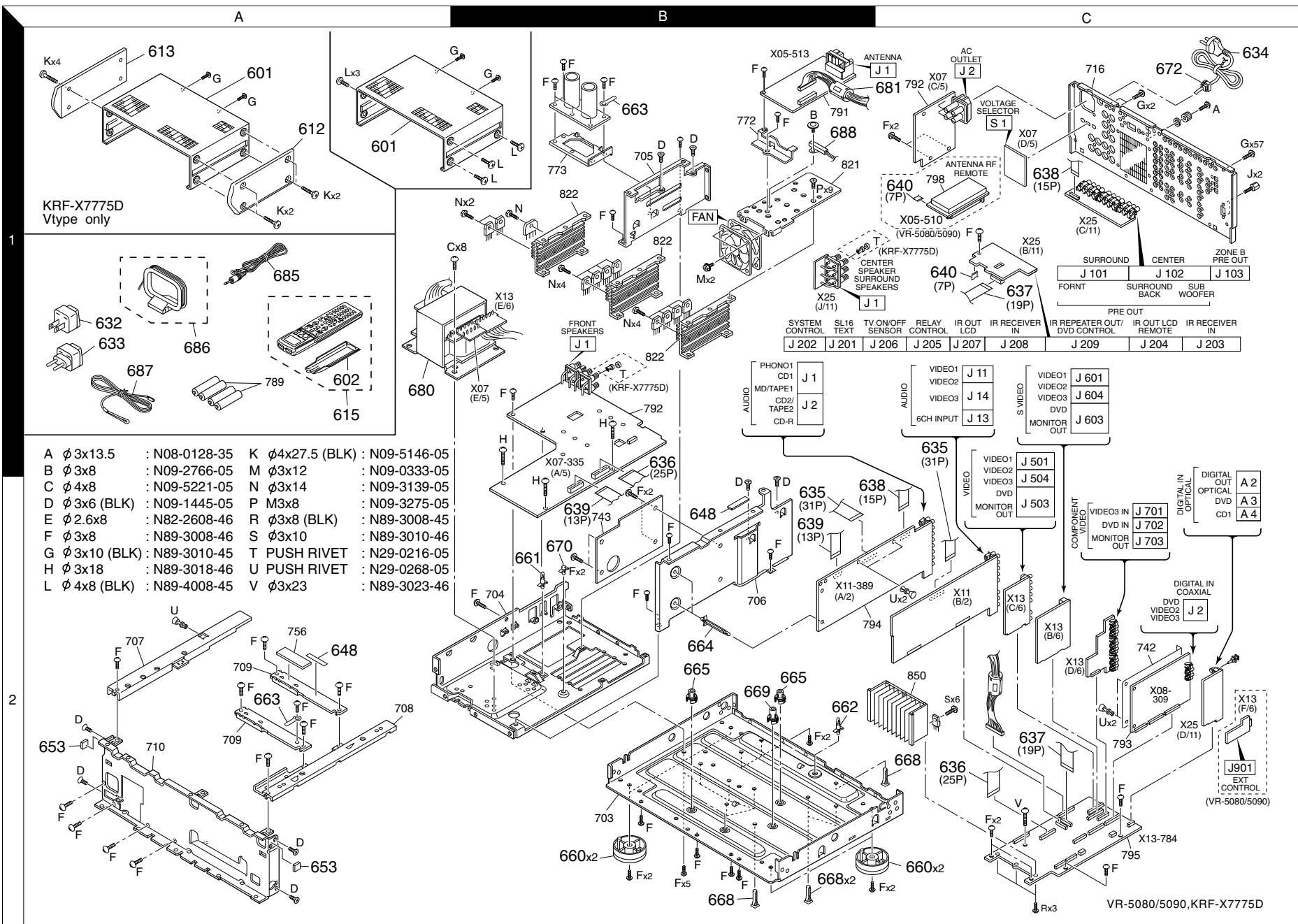
DESTINATION	COUNTRY	UNIT No.	J2	WH1	WH28	WH21-27	F1	F2	F3	S1
GENERAL MARKET	Y1	52-91	E03-0148-05			YES	250V T3.15AL	250V T3.15AL	NO	YES
EUROPE	E1	50-71	E03-0149-05	YES	NO	NO	250V T4L	NO	250V T2.5AL	NO
EUROPE	E2	52-71	E03-0149-05			NO	250V T4L	NO	250V T2.5AL	NO
SHANGHAI	V	42-10	E03-0361-05							

DESTINATION	COUNTRY	UNIT No.	J2	WH1	WH28	WH21-27	F1	F2	F3	S1
GENERAL MARKET	Y1	52-91	E03-0148-05			YES	250V T3.15AL	250V T3.15AL	NO	YES
EUROPE	E1	50-71	E03-0149-05	YES	NO	NO	250V T4L	NO	250V T2.5AL	NO
EUROPE	E2	52-71	E03-0149-05			NO	250V T4L	NO	250V T2.5AL	NO
SHANGHAI	V	42-10	E03-0361-05							

KRF-X7775D/X7775D-S/VR-5080/5090



EXPLODED VIEW (UNIT)



The diagram illustrates the internal layout of the VR-5090/5090,KRF-X7775D chassis. Key components and their locations are labeled as follows:

- AC OUTLET J2**: Located at the top left.
- VOLTAGE SELECTOR S1**: Located below the AC outlet.
- ANTENNA RF REMOTE**: A small board connected to the chassis.
- X07 (C/5)**: A connector on the antenna board.
- X07 (D/5)**: A connector on the chassis.
- X05-510**: A component on the antenna board.
- Fx2**: A screw or fastener on the antenna board.
- X25 (C/11)**: A connector on the chassis.
- F**: A screw or fastener on the chassis.
- Gx2**: A screw or fastener on the chassis.
- G**: A screw or fastener on the chassis.
- A**: A screw or fastener on the chassis.
- Gx68**: A screw or fastener on the chassis.
- Jx2**: A connector on the chassis.

Connector Pinouts:

Connector	Pin 1	Pin 2	Pin 3
J 101	SURROUND	CENTER	ZONE B
J 102	FORNT	SURROUND	PRE OUT
J 103	BACK	SUB WOOFER	IR REPEATER OUT/ DVD CONTROL

System Control and Other Connectors:

System Control	SL16 TEXT	TV ON/OFF SENSOR	RELAY CONTROL	IR OUT LCD	IR RECEIVER IN	IR REPEATER OUT/ DVD CONTROL	IR OUT LCD REMOTE	IR RECEIVER IN
J 202	J 201	J 206	J 205	J 207	J 208	J 209	J 204	J 203

Audio and Video Connectors:

Audio	VIDEO1	VIDEO2	VIDEO3	VIDEO4	6CH INPUT
J 11	J 12	J 13	J 501	J 502	J 503

S Video and Component Video Connectors:

S VIDEO	VIDEO1	VIDEO2	VIDEO3	VIDEO4	DVD	MONITOR OUT
J 601	J 602	J 603	J 1	J 2	J 3	J 4

Digital In/Out Connectors:

DIGITAL OUT OPTICAL	DVD	CD1	MD/ TAPE1	CD-R	VIDEO2	VIDEO3	VIDEO4
A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9

Other Connectors:

DIGITAL IN COAXIAL	DVD	CD1	MD/ TAPE1	CD-R	VIDEO2	VIDEO3	VIDEO4
J 1	J 2	J 3	J 4	J 5	J 6	J 7	J 8

Chassis Components and Screws:

- X11 (B/2)**: A component on the chassis.
- X13 (C/6)**: A component on the chassis.
- X13 (B/6)**: A component on the chassis.
- 797**: A screw or fastener on the chassis.
- X35-226 (A/2)**: A component on the chassis.
- Ux2**: A screw or fastener on the chassis.
- X08-309**: A component on the chassis.
- X25 (D/11)**: A connector on the chassis.
- 793**: A screw or fastener on the chassis.
- Sx6**: A screw or fastener on the chassis.
- V**: A screw or fastener on the chassis.
- Fx2**: A screw or fastener on the chassis.
- Rx3**: A screw or fastener on the chassis.
- 795**: A screw or fastener on the chassis.
- X13-784**: A component on the chassis.

VR-5090 only
Refer to other on page 53.

VR-5080/5090,KRF-X7775D

* New Parts

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

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
KRF-X7775D/KRF-X7775D-S/VR-5080/VR-5090						
601	1A	*	A01-3802-01	METALLIC CABINET	M1X1E2	
601	1A	*	A01-3803-01	METALLIC CABINET	V	
601	1A	*	A01-3804-01	METALLIC CABINET	KP1K1	
601	1A	*	A01-3804-01	METALLIC CABINET	P2E1Y1	
602	1A	*	A09-1166-08	BATTERY COVER		
611	2D	*	A29-1137-03	PANEL	M1X1	
611	2D	*	A29-1138-03	PANEL	KP1K1	
611	2D	*	A29-1138-03	PANEL	P2Y1	
611	2D	*	A29-1139-03	PANEL	E2	
611	2D	*	A29-1140-03	PANEL	E1	
612	1A		A50-1344-02	SIDE PLATE R	V	
613	1A		A50-1345-02	SIDE PLATE L	V	
614	1D	*	A60-1959-02	PANEL	KP1	
614	1D	*	A60-1960-02	PANEL	K1P2	
614	1D	*	A60-1961-02	PANEL	M1X1E2	
614	1D	*	A60-1963-02	PANEL	E1Y1	
614	1D	*	A60-2014-02	PANEL	V	
615	1A	*	A70-1453-05	REMOTE CONTROL ASSY(RC-R0913)	KP1K1	
615	1A	*	A70-1453-05	REMOTE CONTROL ASSY(RC-R0913)	P2	
615	1A	*	A70-1454-05	REMOTE CONTROL ASSY(RC-R0914)	V	
615	1A	*	A70-1454-05	REMOTE CONTROL ASSY(RC-R0914)	Y1M1X1	
615	1A	*	A70-1455-05	REMOTE CONTROL ASSY(RC-R0915)	E1E2	
620	1D	*	B01-0543-11	PANEL ESCUTCHEON	KP1K1	
620	1D	*	B01-0543-11	PANEL ESCUTCHEON	P2E1Y1	
620	1D	*	B01-0544-11	PANEL ESCUTCHEON	M1X1E2	
620	1D	*	B01-0544-11	PANEL ESCUTCHEON	V	
621	2D	*	B03-3874-03	DRESSING PLATE	KP1K1	
621	2D	*	B03-3874-03	DRESSING PLATE	P2	
621	2D	*	B03-3875-03	DRESSING PLATE	M1X1E2	
621	2D	*	B03-3875-03	DRESSING PLATE	V	
621	2D	*	B03-3877-03	DRESSING PLATE	E1Y1	
622	2D	*	B07-2495-04	ESCUTCHEON	M1X1E2	
622	2D	*	B07-2495-04	ESCUTCHEON	V	
622	2D	*	B07-2496-04	ESCUTCHEON	KP1K1	
622	2D	*	B07-2496-04	ESCUTCHEON	P2E1Y1	
623	1D	*	B10-3570-03	FRONT GLASS		
624	2D	*	B10-3639-02	FRONT GLASS		
625	1D	*	B11-1528-03	COLOR FILTER		
626	1D	*	B12-0390-04	INDICATOR		
627	2D	*	B12-0391-14	INDICATOR		
628	1D	*	B12-0392-14	INDICATOR		
629	2D	*	B43-0322-04	KENWOOD BADGE	KP1K1	
629	2D	*	B43-0322-04	KENWOOD BADGE	P2	
-			B46-0096-53	WARRANTY CARD	X1	
-			B46-0310-03	WARRANTY CARD	E1E2	
-			B46-0330-03	WARRANTY CARD	Y1	
-		*	B46-0331-03	WARRANTY CARD	KK1	
-			B46-0344-03	WARRANTY CARD	V	
-		*	B46-0358-00	QUESTIONNAIRE CARD	KK1	
-		*	B46-0359-03	WARRANTY CARD	P1P2	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y1	
-			B58-0964-13	CAUTION CARD (UL)	KK1Y1	

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②

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-			B58-0965-13	CAUTION CARD (T.XtypePL)	X1	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	E1M1E2	
-			B58-0967-03	CAUTION CARD (PtypePL)	P1P2	
-			B58-1546-03	CAUTION CARD	V	
-			B59-1104-00	SERVICE DIRECTORY	Y1	
-		*	B60-4861-00	INSTRUCTION MANUAL (EN1)	KP1K1	
-		*	B60-4861-00	INSTRUCTION MANUAL (EN1)	P2	
-		*	B60-4862-00	INSTRUCTION MANUAL (FR1)	P1P2	
-		*	B60-4863-00	INSTRUCTION MANUAL (EN1)	Y1M1X1	
-		*	B60-4864-00	INSTRUCTION MANUAL (FR1)	E2	
-		*	B60-4865-00	INSTRUCTION MANUAL (GE1)	E1E2	
-		*	B60-4866-00	INSTRUCTION MANUAL (NE1)	E1E2	
-		*	B60-4867-00	INSTRUCTION MANUAL (IT1)	E2	
-		*	B60-4868-00	INSTRUCTION MANUAL (ES1)	E2	
-		*	B60-4869-00	INSTRUCTION MANUAL (TC1)	M1	
-		*	B60-4870-00	INSTRUCTION MANUAL (AR1)	M1	
-		*	B60-4872-00	INSTRUCTION MANUAL (EN2)	KP1K1	
-		*	B60-4872-00	INSTRUCTION MANUAL (EN2)	P2	
-		*	B60-4873-00	INSTRUCTION MANUAL (FR2)	P1P2	
-		*	B60-4874-00	INSTRUCTION MANUAL (EN2)	Y1M1X1	
-		*	B60-4875-00	INSTRUCTION MANUAL (FR2)	E2	
-		*	B60-4876-00	INSTRUCTION MANUAL (GE2)	E1E2	
-		*	B60-4877-00	INSTRUCTION MANUAL (NE2)	E1E2	
-		*	B60-4878-00	INSTRUCTION MANUAL (IT2)	E2	
-		*	B60-4879-00	INSTRUCTION MANUAL (ES2)	E2	
-		*	B60-4880-00	INSTRUCTION MANUAL (TC2)	M1	
-		*	B60-4881-00	INSTRUCTION MANUAL (AR2)	M1	
-		*	B60-5035-00	INSTRUCTION MANUAL (SC1)	V	
-		*	B60-5036-00	INSTRUCTION MANUAL (SC2)	V	
630	1E		D39-0347-05	DAMPER		
△ 632	1A	*	E03-0382-05	AC PLUG ADAPTER (WA-6)	M1	
△ 633	1A	*	E03-0383-05	AC PLUG ADAPTER (WA-9C)	M1	
△ 634	1C		E30-2789-05	AC POWER CORD	Y1	
△ 634	1C		E30-2790-05	AC POWER CORD	X1	
△ 634	1C		E30-2824-15	AC POWER CORD	V	
△ 634	1C		E30-2943-05	AC POWER CORD	E1E2	
△ 634	1C		E30-2944-05	AC POWER CORD	KP1K1	
△ 634	1C		E30-2944-05	AC POWER CORD	P2	
△ 634	1C	*	E30-7225-05	AC POWER CORD	M1	
635	2B,1C	*	E35-2757-05	FLAT CABLE (31P)		
636	2B,2C	*	E35-2758-05	FLAT CABLE (25P)		
637	1C,2C	*	E35-2759-05	FLAT CABLE (19P)		
638	1C,2C	*	E35-2760-05	FLAT CABLE (15P)		
639	2B	*	E35-2761-05	FLAT CABLE (13P)		
640	1C	*	E35-2762-05	FLAT CABLE (7P)	KP1K1	
640	1C	*	E35-2762-05	FLAT CABLE (7P)	P2	
647	1E		G02-1701-04	FLAT SPRING		
648	1B,1E		G10-0541-04	NON-WOVEN FABRIC		
650	1D,2E		G11-2719-04	CUSHION		
651	1D		G11-2730-04	SOFT TAPE		
652	1D		G11-2731-04	SOFT TAPE		
653	2A		G11-2743-14	CUSHION		
655	2D		G11-2762-04	CUSHION	V	

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-			H10-7636-12	POLYSTYRENE FOAMED FIXTURE,L	KP1K1	
-			H10-7636-12	POLYSTYRENE FOAMED FIXTURE,L	P2E1	
-			H10-7636-12	POLYSTYRENE FOAMED FIXTURE,L	X1Y1	
-		*	H10-7637-22	POLYSTYRENE FOAMED FIXTURE,R	KP1K1	
-		*	H10-7637-22	POLYSTYRENE FOAMED FIXTURE,R	P2E1	
-		*	H10-7637-22	POLYSTYRENE FOAMED FIXTURE,R	X1Y1	
-			H10-7638-22	POLYSTYRENE FOAMED FIXTURE,L	V	
-			H10-7639-32	POLYSTYRENE FOAMED FIXTURE,R	V	
-		*	H10-7755-12	POLYSTYRENE FOAMED FIXTURE,L	M1E2	
-		*	H10-7756-22	POLYSTYRENE FOAMED FIXTURE,R	M1E2	
-		*	H12-3527-04	PACKING FIXTURE	M1E2	
-		*	H13-0050-04	CARTON BOARD	M1E2	
-			H13-0330-14	CARTON BOARD		
-		*	H13-0341-04	CARTON BOARD	KP1K1	
-		*	H13-0341-04	CARTON BOARD	P2	
-		*	H21-0388-04	PROTECTION SHEET	V	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KP1K1	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	P2E1Y1	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	X1V	
-			H25-0632-24	PROTECTION BAG (250X400)	M1E2	
-			H25-0692-04	PROTECTION BAG	E1E2	
-			H25-0692-04	PROTECTION BAG	M1X1Y1	
-			H25-1671-04	PROTECTION BAG	V	
-		*	H25-1710-04	PROTECTION BAG (500X950)	KP1K1	
-		*	H25-1710-04	PROTECTION BAG (500X950)	P2	
-		*	H50-3941-04	ITEM CARTON CASE	KP1	
-		*	H50-3942-04	ITEM CARTON CASE	K1P2	
-		*	H50-3943-04	ITEM CARTON CASE	E1	
-		*	H50-4074-04	ITEM CARTON CASE	V	
-		*	H50-4150-04	ITEM CARTON CASE	Y1	
-		*	H50-4151-04	ITEM CARTON CASE	X1	
-		*	H50-4219-04	ITEM CARTON CASE	M1	
-		*	H50-4220-04	ITEM CARTON CASE	E2	
660	2B,2C		J02-1467-03	FOOT (D=60,H=21.5)		
661	2B		J19-5910-05	UNIT HOLDER		
662	2B		J19-5911-05	UNIT HOLDER		
663	2A,1B		J19-0306-05	LEAD HOLDER		
664	2B		J19-5919-05	UNIT HOLDER		
665	2B		J19-6002-04	UNIT HOLDER		
666	2E		J19-6053-12	HOLDER	M1X1E2	
666	2E		J19-6068-12	HOLDER	KP1K1	
666	2E		J19-6068-12	HOLDER	P2E1Y1	
668	2B,2C	*	J19-6163-05	HOLDER		
669	2B	*	J19-6203-04	UNIT HOLDER		
670	2B	*	J19-6080-05	UNIT HOLDER		
672	1C		J42-0083-05	POWER CORD BUSHING	Y1X1	
672	1C		J42-0157-05	POWER CORD BUSHING	E2	
672	1C		J42-0157-05	POWER CORD BUSHING	KP1K1	
672	1C		J42-0157-05	POWER CORD BUSHING	P2E1M1	
-			J61-0307-05	WIRE BAND		
675	2D		K27-2388-04	KNOB (BUTTON)	M1X1E2	
675	2D		K27-2388-04	KNOB (BUTTON)	V	
675	2D		K27-2398-04	KNOB (BUTTON)	E1Y1	
676	1D		K29-7727-04	KNOB	M1X1E2	

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676	1D		K29-7727-04	KNOB	V	
676	1D		K29-7729-04	KNOB	KP1K1	
676	1D		K29-7729-04	KNOB	P2E1Y1	
677	2E		K29-7739-13	KNOB	M1X1E2	
677	2E		K29-7739-13	KNOB	V	
677	2E		K29-7740-13	KNOB	KP1K1	
677	2E		K29-7740-13	KNOB	P2E1Y1	
678	2D		K29-7742-04	KNOB	M1X1E2	
678	2D		K29-7742-04	KNOB	V	
678	2D		K29-7743-04	KNOB	KP1K1	
678	2D		K29-7743-04	KNOB	P2E1Y1	
Δ 680	1A	*	L07-2941-05	POWER TRANSFORMER	KP1K1	
Δ 680	1A	*	L07-2941-05	POWER TRANSFORMER	P2	
Δ 680	1A	*	L07-2942-05	POWER TRANSFORMER	E1E2	
Δ 680	1A	*	L07-2943-05	POWER TRANSFORMER	Y1M1	
Δ 680	1A	*	L07-2944-05	POWER TRANSFORMER	X1	
Δ 680	1A	*	L07-2950-05	POWER TRANSFORMER	V	
681	1C	*	L92-0533-05	FERRITE CORE		
682	2C	*	L92-0531-05	FERRITE CORE		
685	1A	*	T90-0850-15	ANTENNA ASSY	KP1K1	
685	1A	*	T90-0850-15	ANTENNA ASSY	P2	
686	1A		T90-0852-05	LOOP ANTENNA		
687	1A		T90-0855-05	LEAD WIRE ANTENNA		
688	1B	*	DP40203SG270	THERMISTOR		
RF-RC DEMODULATOR UNIT (X05-5100-11) K,P type only						
C1 ,2			CC73GCH1H100D	CHIP C	10PF	D
C5			CK73GB1E223K	CHIP C	0.022UF	K
C6			CC73GCH1H221J	CHIP C	220PF	J
C7			CC73GCH1H100D	CHIP C	10PF	D
C8			CK73GB1H102K	CHIP C	1000PF	K
C9			C93-0037-05	CERAMIC	10UF	10WV
C10			CK73GB1H102K	CHIP C	1000PF	K
C11			CC73GCH1H040C	CHIP C	4.0PF	C
C12			CC73GCH1H100D	CHIP C	10PF	D
C13			CC73GCH1H040C	CHIP C	4.0PF	C
C14			CC73GCH1H010C	CHIP C	1.0PF	C
C15			CC73GCH1H050C	CHIP C	5.0PF	C
C16			CK73GB1E223K	CHIP C	0.022UF	K
C17			CC73GCH1H221J	CHIP C	220PF	J
C18			CC73GCH1H100D	CHIP C	10PF	D
C19			CC73GCH1H471J	CHIP C	470PF	J
C20			C93-0037-05	CERAMIC	10UF	10WV
C21			CK73GB1H102K	CHIP C	1000PF	K
C22 ,23			CC73GCH1H150J	CHIP C	15PF	J
C24			CK73GB1H102K	CHIP C	1000PF	K
C25			CK73GB1E103K	CHIP C	0.010UF	K
C26			CK73GF1A474Z	CHIP C	0.47UF	Z
C27			C93-0036-05	CHIP-C	4.7UF	Z
C28			CK73GB1E103K	CHIP C	0.010UF	K
C29			CC73GCH1H101J	CHIP C	100PF	J
C30			CK73GB1E103K	CHIP C	0.010UF	K
C31			C93-0037-05	CERAMIC	10UF	10WV
C32			CK73GB1C473K	CHIP C	0.047UF	K

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C33			C93-0036-05	CHIP-C 4.7UF Z		
C34			CC73GCH1H471J	CHIP C 470PF J		
C35			CK73GB1E103K	CHIP C 0.010UF K		
C36			CK73GF1C224Z	CHIP C 0.22UF Z		
C37			CC73GCH1H100D	CHIP C 10PF D		
C38			CK73GB1H472K	CHIP C 4700PF K		
C39			CC73GCH1H331J	CHIP C 330PF J		
C40			CK73GB1E103K	CHIP C 0.010UF K		
C41			C93-0036-05	CHIP-C 4.7UF Z		
C42			C93-0037-05	CERAMIC 10UF 10WV		
C43			C93-0039-05	CERAMIC 22UF 10WV		
CN1			E40-8530-05	FLAT CABLE CONNECTOR		
J1			E11-0904-05	MINIATURE PHONE JACK(STEREO MI)		
CF1			L72-0626-05	CERAMIC FILTER		
L1			L79-1269-05	LC FILTER		
L2			L40-1585-67	SMALL FIXED INDUCTOR(150N,J,20)		
L3			L32-1021-05	FM OSCILLATING COIL		
L4			L40-1085-67	SMALL FIXED INDUCTOR(100N,J,20)		
X1			L77-2274-05	CRYSTAL RESONATOR		
R1			RK73GB1J431J	CHIP R 430 J 1/16W		
R2			RK73GB1J120J	CHIP R 12 J 1/16W		
R3			RK73GB1J431J	CHIP R 430 J 1/16W		
R10			RK73GB1J331J	CHIP R 330 J 1/16W		
R11			RK73GB1J391J	CHIP R 390 J 1/16W		
R12			RK73GB1J100J	CHIP R 10 J 1/16W		
R13			RK73GB1J470J	CHIP R 47 J 1/16W		
R14			RK73GB1J473J	CHIP R 47K J 1/16W		
R15			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R16			RK73GB1J100J	CHIP R 10 J 1/16W		
R17			RK73GB1J101J	CHIP R 100 J 1/16W		
R18			RK73GB1J184J	CHIP R 180K J 1/16W		
R19			RK73GB1J471J	CHIP R 470 J 1/16W		
R20 ,21			RK73GB1J100J	CHIP R 10 J 1/16W		
R22 -24			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R25			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R26			RK73GB1J101J	CHIP R 100 J 1/16W		
R27			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R28			RK73GB1J681J	CHIP R 680 J 1/16W		
R29 -31			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R32			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R33			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R34 ,35			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R36 ,37			RK73GB1J101J	CHIP R 100 J 1/16W		
R38			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R39			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R40			RK73GB1J104J	CHIP R 100K J 1/16W		
R41			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R42			RK73GB1J101J	CHIP R 100 J 1/16W		
R43 ,44			RK73GB1J103J	CHIP R 10K J 1/16W		
R45			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R46			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R47 -49			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R50			RK73GB1J101J	CHIP R 100 J 1/16W		

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R51			RK73GB1J473J	CHIP R 47K J 1/16W		
R52			RK73GB1J103J	CHIP R 10K J 1/16W		
R53			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R54			RK73GB1J101J	CHIP R 100 J 1/16W		
D1 ,2			MA111	DIODE		
D3			KV1832E	VARIABLE CAPACITANCE DIODE		
D4			MA111	DIODE		
IC1			UPC1687G	ANALOGUE IC		
IC2			LV2105V	MOS-IC		
IC3			UPC2748T-E3	ANALOGUE IC		
Q3			2SC5065(O,Y)	TRANSISTOR		
Q4 -6			2SC4178(F13,14	TRANSISTOR		
Q7			2SA1576A(R,S)	TRANSISTOR		
Q7			2SB1218A(Q,R)	TRANSISTOR		
Q8 -10			2SC4081(R,S)	TRANSISTOR		
Q8 -10			2SD1819A(Q,R)	TRANSISTOR		
Q11 ,12			2SA1576A(R,S)	TRANSISTOR		
Q11 ,12			2SB1218A(Q,R)	TRANSISTOR		
TUNER UNIT (X05-513/514X-XX)						
C1			CK73FB1H332K	CHIP C 3300PF K		
C2			CK73FB1H103K	CHIP C 0.010UF K		E1E2
C3			CK73FB1H103K	CHIP C 0.010UF K		
C5 ,6			CK73FB1H103K	CHIP C 0.010UF K		
C7			CE04KW1C470M	ELECTRO 47UF 16WV		
C10			CE04KW1C470M	ELECTRO 47UF 16WV		
C11 ,12			CK73FB1H473K	CHIP C 0.047UF K		
C14			CE04KW1H100M	ELECTRO 10UF 50WV		
C15			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C16			CE04RW1HR47M	ELECTRO 0.47UF 50WV		
C17			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C18			CC73FCH1H470J	CHIP C 47PF J		
C19			CE04RW1A100M	ELECTRO 10UF 10WV		
C20			CK73FB1H473K	CHIP C 0.047UF K		
C21			CE04RW1V3R3M	ELECTRO 3.3UF 35WV		
C22			CK73FB1H473K	CHIP C 0.047UF K		
C23			CE04KW1H100M	ELECTRO 10UF 50WV		
C24			CC73FCH1H331J	CHIP C 330PF J		
C25			CC73FCH1H181J	CHIP C 180PF J		KP1K1
C25			CC73FCH1H181J	CHIP C 180PF J		P2E1E2
C25			CC73FCH1H331J	CHIP C 330PF J		V
C25			CC73FCH1H331J	CHIP C 330PF J		Y1M1X1
C26			CK73FB1H183K	CHIP C 0.018UF K		
C27			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
C28 ,29			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C30 ,31			CK73FB1H223K	CHIP C 0.022UF K		E1Y1M1
C30 ,31			CK73FB1H223K	CHIP C 0.022UF K		X1E2V
C30 ,31			CK73FB1H333K	CHIP C 0.033UF K		KP1K1
C30 ,31			CK73FB1H333K	CHIP C 0.033UF K		P2
C32			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C33 ,34			CK73FB1H103K	CHIP C 0.010UF K		Y1M1V
C36			CK73FB1H103K	CHIP C 0.010UF K		
C37 ,38			CE04KW1H100M	ELECTRO 10UF 50WV		
C41			CC73FCH1H470J	CHIP C 47PF J		
C42			CC73FCH1H270J	CHIP C 27PF J		

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PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ 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	KP1K1	
R72 ,73			RK73FB2A333J	CHIP R 33K J 1/10W	P2Y1M1	
R72 ,73			RK73FB2A392J	CHIP R 3.9K J 1/10W	X1V	
R74			RK73FB2A473J	CHIP R 47K J 1/10W	E1E2	
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		
R80			RK73FB2A223J	CHIP R 22K J 1/10W	E1E2	
△ 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	Y1M1V	
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	KP1K1	
W82 -85			R92-0679-05	CHIP R 0 OHM	P2Y1M1	
W82 -85			R92-0679-05	CHIP R 0 OHM	X1V	
W84 ,85			R92-0679-05	CHIP R 0 OHM	E1E2	
S1			S62-0034-05	SLIDE SWITCH	Y1M1V	
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		
D11			MA111	DIODE	E1E2	
D13			MA111	DIODE		
IC1			LA1837	ANALOGUE IC		

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IC2			LC72131	MOS-IC		
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SC4116(Y,GR)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q2			2SA1586(Y,GR)	TRANSISTOR		
Q3 ,4			2SC4081(R,S)	TRANSISTOR	Y1M1V	
Q3 ,4			2SC4116(Y,GR)	TRANSISTOR	Y1M1V	
Q6 ,7			2SC4081(R,S)	TRANSISTOR	E1E2	
Q6 ,7			2SC4116(Y,GR)	TRANSISTOR	E1E2	
Q10 ,11			2SD1757K	TRANSISTOR		
Q12			2SA1576A(R,S)	TRANSISTOR		
Q12			2SA1586(Y,GR)	TRANSISTOR		
Q14			2SA1576A(R,S)	TRANSISTOR		
Q14			2SA1586(Y,GR)	TRANSISTOR		
A1			W02-2584-05	FM FRONT-END ASSY	E1E2	
A1			W02-2622-05	FM FRONT-END ASSY	KP1K1	
A1			W02-2622-05	FM FRONT-END ASSY	P2Y1M1	
A1			W02-2622-05	FM FRONT-END ASSY	X1V	
POWER AMPLIFIER UNIT (X07-334/335X-XX)						
C1 -4			CE04KW1H3R3M	ELECTRO 3.3UF	50WV	
C5 ,6			CC45FSL1H680J	CERAMIC 68PF	J	
C11 ,12			CK45FB1H222K	CERAMIC 2200PF	K	
C13 ,14			CC45FCH1H050C	CERAMIC 5.0PF	C	
C15 ,16			CC45FSL1H101J	CERAMIC 100PF	J	
C17 ,18			CE04KW1H100M	ELECTRO 10UF	50WV	
C19 ,20			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C21 ,22			CC45FSL1H151J	CERAMIC 150PF	J	
C23 ,24			CC45FSL2H470J	CERAMIC 47PF	J	
C25 ,26			CC45FSL1H070D	CERAMIC 7.0PF	D	
C27 ,28			CE04KW1A221M	ELECTRO 220UF	10WV	
C51 -54			CE04KW1H3R3M	ELECTRO 3.3UF	50WV	
C55 ,56			CC45FSL1H680J	CERAMIC 68PF	J	
C61 ,62			CK45FB1H222K	CERAMIC 2200PF	K	
C63 ,64			CC45FCH1H050C	CERAMIC 5.0PF	C	
C65 ,66			CC45FSL1H101J	CERAMIC 100PF	J	
C67 ,68			CE04KW1H100M	ELECTRO 10UF	50WV	
C69 ,70			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C71 ,72			CC45FSL1H151J	CERAMIC 150PF	J	
C73 ,74			CC45FSL2H470J	CERAMIC 47PF	J	
C75 ,76			CC45FSL1H070D	CERAMIC 7.0PF	D	
C77 ,78			CE04KW1A221M	ELECTRO 220UF	10WV	
C101 ,102			CE04KW1H3R3M	ELECTRO 3.3UF	50WV	
C103			CC45FSL1H680J	CERAMIC 68PF	J	
C106			CK45FB1H222K	CERAMIC 2200PF	K	
C107			CC45FCH1H050C	CERAMIC 5.0PF	C	
C108			CC45FSL1H101J	CERAMIC 100PF	J	
C109			CE04KW1A221M	ELECTRO 220UF	10WV	
C110			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C111			CE04KW1H100M	ELECTRO 10UF	50WV	
C112			CC45FSL1H151J	CERAMIC 150PF	J	
C113			CC45FSL2H470J	CERAMIC 47PF	J	
C114			CC45FSL1H070D	CERAMIC 7.0PF	D	
C115			CE04KW1H220M	ELECTRO 22UF	50WV	
C116			CE04KW1E470M	ELECTRO 47UF	25WV	

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C117 C118 C119 C201-205 C251-254			CE04KW1H220M CC45FSL1H101J CE04KW1E470M CK45FF1H103Z CF92FV1H224J	ELECTRO 22UF 50WV CERAMIC 100PF J ELECTRO 47UF 25WV CERAMIC 0.010UF Z MF-C 0.22UF J	E1Y1M1	
C251-254 C255,256 C255,256 C257,258 C259-262			CF92FV1H224J CF92FV1H104J CF92FV1H104J CQ93FMG1H272J CF92FV1H224J	MF-C 0.22UF J MF-C 0.10UF J MF-C 0.10UF J MYLAR 2700PF J MF-C 0.22UF J	X1E2V KP1K1 P2 E1Y1M1	
C259-262 C263,264 C263,264 C265,266 C267,268			CF92FV1H224J CF92FV1H104J CF92FV1H104J CQ93FMG1H393J CK45FB1H102K	MF-C 0.22UF J MF-C 0.10UF J MF-C 0.10UF J MYLAR 0.039UF J CERAMIC 1000PF K	X1E2V KP1K1 P2 E1Y1M1	
C269,270 C269,270 C271 C271 C301			CF92FV1H224J CF92FV1H224J CF92FV1H104J CF92FV1H104J CE04KW1A101M	MF-C 0.22UF J MF-C 0.22UF J MF-C 0.10UF J MF-C 0.10UF J ELECTRO 100UF 10WV	E1Y1M1 X1E2V KP1K1 P2	
C302 C303 C304 C305 C306,307			CE04KW1H4R7M CE04KW1H220M CE04KW1H470M CE04KW1E470M CE04KW2A100M	ELECTRO 4.7UF 50WV ELECTRO 22UF 50WV ELECTRO 47UF 50WV ELECTRO 47UF 25WV ELECTRO 10UF 100WV		
C308 C309,310 C351,352 C401,402 C403			CE04KW2A470M CE04KW2A220M CE04KW2A100M C90-3868-05 C91-1422-05	ELECTRO 47UF 100WV ELECTRO 22UF 100WV ELECTRO 10UF 100WV ELECTRO 8200UF 73WV MP 0.10UF 250WV		
C404 C404 C405,406 C451 C452			CK45FE2H103P CK45FE2H103P CK45FE2H103P CQ93FMG1H473J CE04KW1E102M	CERAMIC 0.010UF P CERAMIC 0.010UF P CERAMIC 0.010UF P MYLAR 0.047UF J ELECTRO 1000UF 25WV	KP1K1 P2	
△ C453 △ C454 △ C455 △ C456 C567-571		*	C91-1488-05 C91-1488-05 C91-1627-05 CK45FF1H103Z CC45FSL1H221J	MF 6800PF 250VAC MF 6800PF 250VAC POLYESTE 0.1UF 250VAC CERAMIC 0.010UF Z CERAMIC 220PF J	Y1M1	
CN1 CN3 CN4 CN5 CN6			E40-4879-05 E40-8251-05 E40-8255-05 E40-4294-05 E40-3247-05	PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY		
CN7 CN8 CN10 CN11 CN11			E40-3246-05 E40-3247-05 E40-4245-05 E40-4245-05 E40-4245-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY	E2V KP1K1	
CN11 CN12 J1 J2 J2		*	E40-4245-05 E40-4281-05 E70-0131-05 E03-0148-05 E03-0148-05	PIN ASSY PIN ASSY SCREW TERMINAL BOARD AC OUTLET AC OUTLET	P2E1X1 Y1M1 KP1K1 P2Y1	

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△ J2 △ J2 △ J2			E03-0149-05 E03-0325-05 E03-0361-05	AC OUTLET AC OUTLET AC OUTLET	E1M1E2 X1 V	
△ F1 △ F1 △ F1 △ F1 △ F1			F05-3121-05 F05-4025-05 F50-0078-05 F50-0078-05 F50-0112-05	FUSE (SEMKO) (250V T3.15AL) FUSE (SEMKO) (250V T4A L) FUSE(5X20) FUSE(5X20) FUSE(5X20)	Y1M1 E1X1E2 KP1K1 P2 V	
△ F2 △ F3 △ FAN	1B		F05-3121-05 F05-2525-05 F09-0139-05	FUSE (SEMKO) (250V T3.15AL) FUSE (SEMKO) (250V T2.5AL) FAN	Y1M1 E1E2	
CN31,32 CN33,34 CN35,36 E2			J13-0075-05 J13-0075-05 J13-0075-05 J11-0808-05	FUSE CLIP FUSE CLIP FUSE CLIP WIRE CLAMPER	Y1M1 E1E2	
△ L1 -5 △ T1 △ T1 △ T1 △ T1		*	L39-0085-05 L07-2936-05 L07-2936-05 L07-2937-05 L07-2939-05	PHASE COMPENSATION COIL POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	E1X1E2 V Y1M1 KP1K1	
△ T1		*	L07-2939-05	POWER TRANSFORMER	P2	
R23 ,24 R29 -32 R73 ,74 R79 -82 R112			RD14NB2E101J RD14NB2E221J RD14NB2E101J RD14NB2E221J RD14NB2E101J	RD 100 J 1/4W RD 220 J 1/4W RD 100 J 1/4W RD 220 J 1/4W RD 100 J 1/4W		
R115,116 R155 R201-204 R205,206 R207-210	△		RD14NB2E221J RD14NB2E220J RD14NB2E470J RD14NB2E151J RD14NB2E101J	RD 220 J 1/4W RD 22 J 1/4W RD 47 J 1/4W RD 150 J 1/4W RD 100 J 1/4W		
R213-216 R229,230 R251-254 R255,256 R257-260			RD14NB2E332J RD14NB2E220J RD14NB2E470J RD14NB2E151J RD14NB2E101J	RD 3.3K J 1/4W RD 22 J 1/4W RD 47 J 1/4W RD 150 J 1/4W RD 100 J 1/4W		
R263-266 R279,280 R301,302 R303 R304,305			RD14NB2E332J RD14NB2E220J RD14NB2E470J RD14NB2E151J RD14NB2E101J	RD 3.3K J 1/4W RD 22 J 1/4W RD 47 J 1/4W RD 150 J 1/4W RD 100 J 1/4W		
R307,308 R315 R351-355 R356-359 R360,361	△		RD14NB2E332J RD14NB2E220J RS14KB3D2R7J RD14NB2E271J RS14KB3D471J	RD 3.3K J 1/4W RD 22 J 1/4W FL-PROOF RS 2.7 J 2W RD 270 J 1/4W FL-PROOF RS 470 J 2W		
△ R362 △ R394 △ R395 △ R398 △ R451,452			RD14NB2E271J RD14NB2E100J RD14NB2E682J RD14NB2E272J RD14NB2E560J	RD 270 J 1/4W RD 10 J 1/4W RD 6.8K J 1/4W RD 2.7K J 1/4W RD 56 J 1/4W		
△ R502 △ R502			R92-1844-05 R92-1844-05	CARBON 3.3M J 1/2W CARBON 3.3M J 1/2W	KP1K1 P2	

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△ R506 R510 VR1 -5			RD14NB2E1R0J RS14KB3D182J R32-0030-05	RD 1 J 1/4W FL-PROOF RS 1.8K J 2W SEMI FIXED VARIABLE RESISTOR		
K1 -5 △ K6 △ S1			S76-0076-05 S76-0106-05 S31-3010-05	MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH	Y1M1	
D1 -4 D1 -4 D11 -14 D11 -14 D21 ,22			HSS104A 1SS133 HSS104A 1SS133 HSS104A	DIODE DIODE DIODE DIODE DIODE		
D21 ,22 D51 ,52 D53 -62 D53 -62 D71 ,72			1SS133 1SS244 HSS104A 1SS133 1SS244	DIODE DIODE DIODE DIODE DIODE		
D73 -82 D73 -82 D91 D92 -96 D92 -96			HSS104A 1SS133 1SS244 HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE		
△ D100 △ D101,102 △ D103 D103 D104			RBV-1506LFA S5688B MTZJ13(B) RD13ES(B2) MTZJ15(B)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D104 D105,106 D105,106 D107,108 D107,108			RD15ES(B2) MTZJ4.7(B) RD4.7ES(B2) HSS104A 1SS133	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D109 D109 D111-115 D111-115 D121,122			MTZJ5.1(B) RD5.1ES(B2) HSS104A 1SS133 MTZJ18(B)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE		
D121,122 D123,124 D123,124 D251 D251			RD18ES(B2) MTZJ20(B) RD20ES(B2) MTZJ5.1(B) RD5.1ES(B2)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D252,253 D252,253 D502 D502 △ D503-508			HSS104A 1SS133 HSS104A 1SS133 S5688B	DIODE DIODE DIODE DIODE DIODE		
△ D509 △ D509 △ D510 D511-513 D511-513			HSS104A 1SS133 S5688B HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE		
D514 D514 Q1 ,2			MTZJ4.7(B) RD4.7ES(B2) 2SC2878(B)	ZENER DIODE ZENER DIODE TRANSISTOR		

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Q3 -6 Q7 ,8 Q9 -12 Q13 ,14 Q13 ,14			2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) 2SA1048(Y,GR) 2SA933AS(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q51 ,52 Q53 -56 Q57 ,58 Q59 -62 Q63 ,64			2SC2878(B) 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) 2SA1048(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q63 ,64 Q101 Q102,103 Q104,105 Q106			2SA933AS(Q,R) 2SC2878(B) 2SA992(F,E) 2SC2631(R,S) 2SA1123(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q107 Q107 Q108 Q108 Q109	△ △		2SA1048(Y,GR) 2SA933AS(Q,R) 2SC1740S(Q,R) 2SC2458(Y,GR) DTC124ESA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q109 △ Q201,202 △ Q203,204 Q205,206 Q207,208		* *	UN4212 TRAIT8N*5 TRAIT8P*5 2SC1845(F,E) 2SA992(F,E)	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
△ Q251,252 △ Q253,254 Q255,256 Q257,258 △ Q301		* *	TRAIT8N*5 TRAIT8P*5 2SC1845(F,E) 2SA992(F,E) TRAIT8N*5	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
△ Q302 Q303 Q304 Q351-354 Q351-354		*	TRAIT8P*5 2SC1845(F,E) 2SA992(F,E) DTC113ZSA UN4219	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q381,382 Q383,384 Q401 Q401 Q402,403			2SC1845(F,E) 2SA992(F,E) DTC124ESA UN4212 DTC113ZSA	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
△ Q402,403 △ Q404 Q405,406 Q405,406 △ Q407			UN4219 2SD2012 2SC1740S(Q,R) 2SC2458(Y,GR) 2SA1110(R,S)	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q408 Q530 Q530			2SC2003(L,K) 2SA1048(Y,GR) 2SA933AS(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR		
SURROUND UNIT (X08-309/310X-XX)						
C1 C2 C4 C11 C12			CC73GCH1H470J CK73GB1H103K CC73GCH1H470J CC73GCH1H470J CK73GB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	47PF 0.010UF 47PF 47PF 0.010UF	J K J J K

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C14			CC73GCH1H470J	CHIP C	47PF	J
C15			CC73GCH1H102J	CHIP C	1000PF	J
C21			CC73GCH1H470J	CHIP C	47PF	J
C22			CK73GB1H103K	CHIP C	0.010UF	K
C24			CC73GCH1H470J	CHIP C	47PF	J
C31			CC73GCH1H470J	CHIP C	47PF	J
C32			CK73GB1H103K	CHIP C	0.010UF	K
C34			CC73GCH1H470J	CHIP C	47PF	J
C35			CC73GCH1H102J	CHIP C	1000PF	J
C41			CC73GCH1H470J	CHIP C	47PF	J
C42			CK73GB1H103K	CHIP C	0.010UF	K
C44			CC73GCH1H470J	CHIP C	47PF	J
C51			CC73GCH1H470J	CHIP C	47PF	J
C52			CK73GB1H103K	CHIP C	0.010UF	K
C54			CC73GCH1H470J	CHIP C	47PF	J
C55			CC73GCH1H102J	CHIP C	1000PF	J
C61			CC73GCH1H470J	CHIP C	47PF	J
C62			CK73GB1H103K	CHIP C	0.010UF	K
C64			CC73GCH1H470J	CHIP C	47PF	J
C71			CC73GCH1H102J	CHIP C	1000PF	J
C72			CC73GCH1H220J	CHIP C	22PF	J
C73			CK73GF1E104Z	CHIP C	0.10UF	Z
C74			CC73GCH1H220J	CHIP C	22PF	J
C75			CC73GCH1H102J	CHIP C	1000PF	J
C76			CC73GCH1H270J	CHIP C	27PF	J
C101			CK73GF1E104Z	CHIP C	0.10UF	Z
C102			CC73GCH1H102J	CHIP C	1000PF	J
C103, 104			CC73GCH1H220J	CHIP C	22PF	J
C105			CK73GF1E104Z	CHIP C	0.10UF	Z
C107-109			CK73GF1E104Z	CHIP C	0.10UF	Z
C110			CK73GB1H103K	CHIP C	0.010UF	K
C111			CE04KW1H100M	ELECTRO	10UF	50WV
C112			CC73GCH1H470J	CHIP C	47PF	J
C113			CC73GCH1H150J	CHIP C	15PF	J
C114			CC73GCH1H470J	CHIP C	47PF	J
C116			CE04KW1A101M	ELECTRO	100UF	10WV
C201			CE04KW1H100M	ELECTRO	10UF	50WV
C202			CC73GCH1H102J	CHIP C	1000PF	J
C203			CE04KW1A101M	ELECTRO	100UF	10WV
C205			CE04KW1E470M	ELECTRO	47UF	25WV
C206			CC73GCH1H102J	CHIP C	1000PF	J
C207			CE04KW1H100M	ELECTRO	10UF	50WV
C208			CE04KW1E470M	ELECTRO	47UF	25WV
C212			CC73GCH1H470J	CHIP C	47PF	J
C213-216			CC73GCH1H471J	CHIP C	470PF	J
C221,222			CE04KW1H100M	ELECTRO	10UF	50WV
C223,224			CC73GCH1H101J	CHIP C	100PF	J
C225,226			CC73GCH1H151J	CHIP C	150PF	J
C227,228			CC73GCH1H101J	CHIP C	100PF	J
C229,230			CE04KW1E470M	ELECTRO	47UF	25WV
C231,232			CC73GCH1H220J	CHIP C	22PF	J
C233,234			CK73GB1H222K	CHIP C	2200PF	K
C235,236			CC73GCH1H101J	CHIP C	100PF	J
C301			CK73GF1E104Z	CHIP C	0.10UF	Z
C302			CE04KW1A101M	ELECTRO	100UF	10WV

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C303			CC73GCH1H102J	CHIP C	1000PF	J
C304			CE04KW1H100M	ELECTRO	10UF	50WV
C305			CC73GCH1H101J	CHIP C	100PF	J
C306			CE04KW1H100M	ELECTRO	10UF	50WV
C307			CC73GCH1H101J	CHIP C	100PF	J
C311,312			CQ93FMG1H272J	MYLAR	2700PF	J
C313,314			CC73GCH1H220J	CHIP C	22PF	J
C315-320			CC73GCH1H101J	CHIP C	100PF	J
C321,322			CQ93FMG1H223J	MYLAR	0.022UF	J
C323,324			CC73GCH1H101J	CHIP C	100PF	J
C325,326			CQ93FMG1H102J	MYLAR	1000PF	J
C327,328			CQ93FMG1H472J	MYLAR	4700PF	J
C329,330			CC73GCH1H101J	CHIP C	100PF	J
C331,332			CC73GCH1H050C	CHIP C	5.0PF	C
C351			CK73GF1E104Z	CHIP C	0.10UF	Z
C352			CE04KW1A101M	ELECTRO	100UF	10WV
C353			CC73GCH1H102J	CHIP C	1000PF	J
C354			CE04KW1H100M	ELECTRO	10UF	50WV
C355			CC73GCH1H101J	CHIP C	100PF	J
C356			CE04KW1H100M	ELECTRO	10UF	50WV
C357			CC73GCH1H101J	CHIP C	100PF	J
C361,362			CQ93FMG1H272J	MYLAR	2700PF	J
C363,364			CC73GCH1H220J	CHIP C	22PF	J
C365-370			CC73GCH1H101J	CHIP C	100PF	J
C371,372			CQ93FMG1H223J	MYLAR	0.022UF	J
C373,374			CC73GCH1H101J	CHIP C	100PF	J
C375,376			CQ93FMG1H102J	MYLAR	1000PF	J
C377,378			CQ93FMG1H472J	MYLAR	4700PF	J
C379,380			CC73GCH1H101J	CHIP C	100PF	J
C381,382			CC73GCH1H050C	CHIP C	5.0PF	C
C401			CK73GF1E104Z	CHIP C	0.10UF	Z
C402			CE04KW1A101M	ELECTRO	100UF	10WV
C403			CC73GCH1H102J	CHIP C	1000PF	J
C404			CE04KW1H100M	ELECTRO	10UF	50WV
C405			CC73GCH1H101J	CHIP C	100PF	J
C406			CE04KW1H100M	ELECTRO	10UF	50WV
C407			CC73GCH1H101J	CHIP C	100PF	J
C411			CQ93FMG1H272J	MYLAR	2700PF	J
C412			CQ93FMG1H103J	MYLAR	0.010UF	J
C413,414			CC73GCH1H220J	CHIP C	22PF	J
C415-417			CC73GCH1H101J	CHIP C	100PF	J
C418			CK73GB1H272K	CHIP C	2700PF	K
C419,420			CC73GCH1H101J	CHIP C	100PF	J
C421,422			CQ93FMG1H223J	MYLAR	0.022UF	J
C423,424			CC73GCH1H101J	CHIP C	100PF	J
C425			CQ93FMG1H102J	MYLAR	1000PF	J
C426			CQ93FMG1H272J	MYLAR	2700PF	J
C427			CQ93FMG1H472J	MYLAR	4700PF	J
C428			CQ93FMG1H223J	MYLAR	0.022UF	J
C429,430			CC73GCH1H101J	CHIP C	100PF	J
C431,432			CC73GCH1H050C	CHIP C	5.0PF	C
C451			CK73GF1E104Z	CHIP C	0.10UF	Z
C452			CE04KW1A101M	ELECTRO	100UF	10WV
C453			CC73GCH1H102J	CHIP C	1000PF	J
C454			CE04KW1H100M	ELECTRO	10UF	50WV

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C455			CC73GCH1H101J	CHIP C 100PF J		
C456			CE04KW1H100M	ELECTRO 10UF 50WV		
C457			CC73GCH1H101J	CHIP C 100PF J		
C461,462			CQ93FMG1H272J	MYLAR 2700PF J		
C463,464			CC73GCH1H220J	CHIP C 22PF J		
C465-470			CC73GCH1H101J	CHIP C 100PF J		
C471,472			CQ93FMG1H223J	MYLAR 0.022UF J		
C473,474			CC73GCH1H101J	CHIP C 100PF J		
C475,476			CQ93FMG1H102J	MYLAR 1000PF J		
C477,478			CQ93FMG1H472J	MYLAR 4700PF J		
C479,480			CC73GCH1H101J	CHIP C 100PF J		
C481,482			CC73GCH1H050C	CHIP C 5.0PF C		
C601-605			CC73GCH1H102J	CHIP C 1000PF J		
C606,607			CC73GCH1H090D	CHIP C 9.0PF D		
C608-630			CC73GCH1H102J	CHIP C 1000PF J		
C631			CK73GB1H103K	CHIP C 0.010UF K		
C632-634			CC73GCH1H102J	CHIP C 1000PF J		
C701-706			CC73GCH1H102J	CHIP C 1000PF J		
C707			CK73GB1H103K	CHIP C 0.010UF K		
C801,802			CK73GB1H103K	CHIP C 0.010UF K		
C803			CE04KW1H100M	ELECTRO 10UF 50WV		
C804			CK73GB1H103K	CHIP C 0.010UF K		
C805			CC73GCH1H102J	CHIP C 1000PF J		
C806			CK73GB1H103K	CHIP C 0.010UF K		
C951			CE04KW1E470M	ELECTRO 47UF 25WV		
C954			CE04KW1E470M	ELECTRO 47UF 25WV		
C955			CE04DW1A102M	ELECTRO 1000UF 10WV		
C956			CK73GB1H103K	CHIP C 0.010UF K		
C958			CE04KW1A101M	ELECTRO 100UF 10WV		
C959			CE04KW1H100M	ELECTRO 10UF 50WV		
C960			CC73GCH1H102J	CHIP C 1000PF J		
C961			CK73GB1H103K	CHIP C 0.010UF K		
C963			CE04KW1A101M	ELECTRO 100UF 10WV		
C965			CE04KW1E470M	ELECTRO 47UF 25WV		
CN1 ,2			E40-9836-05	SOCKET FOR PIN ASSY		
CN3			E40-9832-05	SOCKET FOR PIN ASSY		
J1			E63-1128-05	PIN JACK	K1P2	
J2			E63-1129-05	PIN JACK	E2V	
J2			E63-1129-05	PIN JACK	KP1E1	
J2			E63-1129-05	PIN JACK		
J2			E63-1129-05	PIN JACK	Y1M1X1	
J2			E63-1130-05	PIN JACK	K1P2	
J3 ,4			E63-1124-05	PIN JACK	K1P2	
L1 ,2			L40-4795-34	SMALL FIXED INDUCTOR(4.7UH)		
X1		*	L77-2337-05	CRYSTAL RESONATOR(12.288MHZ)		
X2		*	L77-2314-05	CRYSTAL RESONATOR(33MHZ)		
X3		*	L78-0604-05	RESONATOR (6.00MHZ)		
R1			RK73GB1J750J	CHIP R 75 J 1/16W		
R2			RK73GB1J751J	CHIP R 750 J 1/16W		
R3			RK73GB1J104J	CHIP R 100K J 1/16W		
R4			RK73GB1J184J	CHIP R 180K J 1/16W		
R5			RK73GB1J470J	CHIP R 47 J 1/16W		
R7			RK73GB1J151J	CHIP R 150 J 1/16W		
R11			RK73GB1J750J	CHIP R 75 J 1/16W		
R12			RK73GB1J751J	CHIP R 750 J 1/16W		

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R13			RK73GB1J104J	CHIP R 100K J 1/16W		
R14			RK73GB1J184J	CHIP R 180K J 1/16W		
R15			RK73GB1J470J	CHIP R 47 J 1/16W		
R17			RK73GB1J151J	CHIP R 150 J 1/16W		
R18			RK73FB2A100J	CHIP R 10 J 1/10W		
R21			RK73GB1J750J	CHIP R 75 J 1/16W		
R22			RK73GB1J751J	CHIP R 750 J 1/16W		
R23			RK73GB1J104J	CHIP R 100K J 1/16W		
R24			RK73GB1J184J	CHIP R 180K J 1/16W		
R25			RK73GB1J470J	CHIP R 47 J 1/16W		
R27			RK73GB1J151J	CHIP R 150 J 1/16W		
R31			RK73GB1J750J	CHIP R 75 J 1/16W	K1P2	
R32			RK73GB1J751J	CHIP R 750 J 1/16W	K1P2	
R33			RK73GB1J104J	CHIP R 100K J 1/16W	K1P2	
R34			RK73GB1J184J	CHIP R 180K J 1/16W	K1P2	
R35			RK73GB1J470J	CHIP R 47 J 1/16W	K1P2	
R36			RK73GB1J103J	CHIP R 10K J 1/16W	E2V	
R36			RK73GB1J103J	CHIP R 10K J 1/16W	KP1E1	
R36			RK73GB1J103J	CHIP R 10K J 1/16W	Y1M1X1	
R37			RK73GB1J151J	CHIP R 150 J 1/16W	K1P2	
R41			RK73GB1J750J	CHIP R 75 J 1/16W	K1P2	
R42			RK73GB1J751J	CHIP R 750 J 1/16W	K1P2	
R43			RK73GB1J104J	CHIP R 100K J 1/16W	K1P2	
R44			RK73GB1J184J	CHIP R 180K J 1/16W	K1P2	
R45			RK73GB1J470J	CHIP R 47 J 1/16W	K1P2	
R46			RK73GB1J103J	CHIP R 10K J 1/16W	E2V	
R46			RK73GB1J103J	CHIP R 10K J 1/16W	KP1E1	
R46			RK73GB1J103J	CHIP R 10K J 1/16W	Y1M1X1	
R47			RK73GB1J151J	CHIP R 150 J 1/16W	K1P2	
R48			RK73FB2A100J	CHIP R 10 J 1/10W	K1P2	
R51			RK73GB1J750J	CHIP R 75 J 1/16W	K1P2	
R52			RK73GB1J751J	CHIP R 750 J 1/16W	K1P2	
R53			RK73GB1J104J	CHIP R 100K J 1/16W	K1P2	
R54			RK73GB1J184J	CHIP R 180K J 1/16W	K1P2	
R55			RK73GB1J470J	CHIP R 47 J 1/16W	K1P2	
R56			RK73GB1J103J	CHIP R 10K J 1/16W	E2V	
R56			RK73GB1J103J	CHIP R 10K J 1/16W	KP1E1	
R56			RK73GB1J103J	CHIP R 10K J 1/16W	Y1M1X1	
R57			RK73GB1J151J	CHIP R 150 J 1/16W	K1P2	
R58			RK73FB2A100J	CHIP R 10 J 1/10W	K1P2	
R61			RK73GB1J750J	CHIP R 75 J 1/16W	K1P2	
R62			RK73GB1J751J	CHIP R 750 J 1/16W	K1P2	
R63			RK73GB1J104J	CHIP R 100K J 1/16W	K1P2	
R64			RK73GB1J184J	CHIP R 180K J 1/16W	K1P2	
R65			RK73GB1J470J	CHIP R 47 J 1/16W	K1P2	
R66			RK73GB1J103J	CHIP R 10K J 1/16W	E2V	
R66			RK73GB1J103J	CHIP R 10K J 1/16W	KP1E1	
R66			RK73GB1J103J	CHIP R 10K J 1/16W	Y1M1X1	
R67			RK73GB1J151J	CHIP R 150 J 1/16W	K1P2	
R71			RK73FB2A100J	CHIP R 10 J 1/10W	K1P2	
R72			RK73GB1J100J	CHIP R 10 J 1/16W	K1P2	
R73			RK73GB1J221J	CHIP R 220 J 1/16W	K1P2	
R74 ,75			RK73GB1J750J	CHIP R 75 J 1/16W	K1P2	
R76			RK73FB2A100J	CHIP R 10 J 1/10W		
R77			RK73GB1J101J	CHIP R 100 J 1/16W		

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R79			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R80			RK73GB1J103J	CHIP R	10K	J 1/16W
R101			RK73FB2A100J	CHIP R	10	J 1/10W
R102			RK73GB1J101J	CHIP R	100	J 1/16W
R103,104			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R105			RK73GB1J152J	CHIP R	1.5K	J 1/16W
R106			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R107			RK73GB1J183J	CHIP R	18K	J 1/16W
R108			RK73FB2A1R0J	CHIP R	1	J 1/10W
R110			RK73GB1J103J	CHIP R	10K	J 1/16W
R111			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R112			RK73GB1J103J	CHIP R	10K	J 1/16W
R113-117			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R118			RK73GB1J471J	CHIP R	470	J 1/16W
R119			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R120			RK73GB1J103J	CHIP R	10K	J 1/16W
R121			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R122			RK73GB1J151J	CHIP R	150	J 1/16W
R123			RK73GB1J101J	CHIP R	100	J 1/16W
R124			RK73GB1J151J	CHIP R	150	J 1/16W
R125			RK73GB1J101J	CHIP R	100	J 1/16W
R126			RK73FB2A2R2J	CHIP R	2.2	J 1/10W
R127			RK73GB1J103J	CHIP R	10K	J 1/16W
R201			RK73FB2A1R0J	CHIP R	1	J 1/10W
R202			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R203-206			RK73GB1J473J	CHIP R	47K	J 1/16W
R207			RK73FB2A1R0J	CHIP R	1	J 1/10W
R208,209			RK73GB1J103J	CHIP R	10K	J 1/16W
R210			RK73GB1J101J	CHIP R	100	J 1/16W
R211			RK73GB1J221J	CHIP R	220	J 1/16W
R221,222			RK73GB1J273J	CHIP R	27K	J 1/16W
R223,224			RK73GB1J123J	CHIP R	12K	J 1/16W
R225,226			RK73GB1J561J	CHIP R	560	J 1/16W
R227-230			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R233-236			RK73GB1J471J	CHIP R	470	J 1/16W
R301			RK73FB2A100J	CHIP R	10	J 1/10W
R302-304			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R305			RK73FB2A100J	CHIP R	10	J 1/10W
R306			RK73FB2A1R0J	CHIP R	1	J 1/10W
R307			RK73GB1J1R0J	CHIP R	1	J 1/16W
R311-314			RK73GB1J182J	CHIP R	1.8K	J 1/16W
R315-318			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R319-322			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R323,324			RK73GB1J100J	CHIP R	10	J 1/16W
R325-328			RK73GB1J681J	CHIP R	680	J 1/16W
R329,330			RK73GB1J471J	CHIP R	470	J 1/16W
R331,332			RK73GB1J121J	CHIP R	120	J 1/16W
R333,334			RK73GB1J100J	CHIP R	10	J 1/16W
R335,336			RK73GB1J1R0J	CHIP R	1	J 1/16W
R351			RK73FB2A100J	CHIP R	10	J 1/10W
R352-354			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R355			RK73FB2A100J	CHIP R	10	J 1/10W
R356			RK73FB2A1R0J	CHIP R	1	J 1/10W
R357			RK73GB1J1R0J	CHIP R	1	J 1/16W
R361-368			RK73GB1J102J	CHIP R	1.0K	J 1/16W

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R369-372			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R373,374			RK73GB1J100J	CHIP R	10	J 1/16W
R375-378			RK73GB1J511J	CHIP R	510	J 1/16W
R379,380			RK73GB1J471J	CHIP R	470	J 1/16W
R381,382			RK73GB1J121J	CHIP R	120	J 1/16W
R383,384			RK73GB1J100J	CHIP R	10	J 1/16W
R385,386			RK73GB1J1R0J	CHIP R	1	J 1/16W
R401			RK73FB2A100J	CHIP R	10	J 1/10W
R402-404			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R405			RK73FB2A100J	CHIP R	10	J 1/10W
R406			RK73FB2A1R0J	CHIP R	1	J 1/10W
R407			RK73GB1J1R0J	CHIP R	1	J 1/16W
R411,412			RK73GB1J182J	CHIP R	1.8K	J 1/16W
R413,414			RK73GB1J242J	CHIP R	2.4K	J 1/16W
R415,416			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R417,418			RK73GB1J122J	CHIP R	1.2K	J 1/16W
R419			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R420			RK73GB1J273J	CHIP R	27K	J 1/16W
R421			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R422			RK73GB1J273J	CHIP R	27K	J 1/16W
R423,424			RK73GB1J100J	CHIP R	10	J 1/16W
R425			RK73GB1J681J	CHIP R	680	J 1/16W
R426			RK73GB1J123J	CHIP R	12K	J 1/16W
R427			RK73GB1J681J	CHIP R	680	J 1/16W
R428			RK73GB1J123J	CHIP R	12K	J 1/16W
R429			RK73GB1J471J	CHIP R	470	J 1/16W
R430			RK73GB1J183J	CHIP R	18K	J 1/16W
R431			RK73GB1J121J	CHIP R	120	J 1/16W
R432			RK73GB1J152J	CHIP R	1.5K	J 1/16W
R433,434			RK73GB1J100J	CHIP R	10	J 1/16W
R435,436			RK73GB1J1R0J	CHIP R	1	J 1/16W
R451			RK73FB2A100J	CHIP R	10	J 1/10W
R452-454			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R455			RK73FB2A100J	CHIP R	10	J 1/10W
R456			RK73FB2A1R0J	CHIP R	1	J 1/10W
R457			RK73GB1J1R0J	CHIP R	1	J 1/16W
R461-468			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R469-472			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R473,474			RK73GB1J100J	CHIP R	10	J 1/16W
R475-478			RK73GB1J511J	CHIP R	510	J 1/16W
R479,480			RK73GB1J471J	CHIP R	470	J 1/16W
R481,482			RK73GB1J121J	CHIP R	120	J 1/16W
R483,484			RK73GB1J100J	CHIP R	10	J 1/16W
R485,486			RK73GB1J1R0J	CHIP R	1	J 1/16W
R550			RK73GB1J101J	CHIP R	100	J 1/16W
R601			RK73FB2A1R0J	CHIP R	1	J 1/10W
R602-605			RK73GB1J103J	CHIP R	10K	J 1/16W
R606,607			RK73GB1J470J	CHIP R	47	J 1/16W
R608			RK73GB1J103J	CHIP R	10K	J 1/16W
R609			RK73FB2A1R0J	CHIP R	1	J 1/10W
R610,611			RK73GB1J470J	CHIP R	47	J 1/16W
R612-615			RK73GB1J103J	CHIP R	10K	J 1/16W
R616-618			RK73FB2A1R0J	CHIP R	1	J 1/10W
R619-621			RK73GB1J103J	CHIP R	10K	J 1/16W
R622			RK73FB2A1R0J	CHIP R	1	J 1/10W

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R623			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R624			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R625			RK73FB2A1R0J	CHIP R	1	J 1/10W
R626			RK73GB1J103J	CHIP R	10K	J 1/16W
R627,628			RK73FB2A1R0J	CHIP R	1	J 1/10W
R629			RK73GB1J103J	CHIP R	10K	J 1/16W
R630-639			RK73GB1J101J	CHIP R	100	J 1/16W
R640-648			RK73FB2A1R0J	CHIP R	1	J 1/10W
R649-652			RK73GB1J101J	CHIP R	100	J 1/16W
R653			RK73FB2A1R0J	CHIP R	1	J 1/10W
R654,655			RK73GB1J103J	CHIP R	10K	J 1/16W
R656			RK73FB2A1R0J	CHIP R	1	J 1/10W
R657			RK73GB1J103J	CHIP R	10K	J 1/16W
R658			RK73GB1J101J	CHIP R	100	J 1/16W
R659-664			RK73FB2A1R0J	CHIP R	1	J 1/10W
R665-667			RK73GB1J101J	CHIP R	100	J 1/16W
R668			RK73FB2A1R0J	CHIP R	1	J 1/10W
R669-671			RK73GB1J101J	CHIP R	100	J 1/16W
R672			RK73GB1J103J	CHIP R	10K	J 1/16W
R673			RK73GB1J101J	CHIP R	100	J 1/16W
△ R674			RK73FB2A100J	CHIP R	10	J 1/10W
R675			RK73FB2A1R0J	CHIP R	1	J 1/10W
R701-708			RK73GB1J101J	CHIP R	100	J 1/16W
R709,710			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R711-719			RK73GB1J101J	CHIP R	100	J 1/16W
R720			RK73GB1J472J	CHIP R	4.7K	J 1/16W
R721-723			RK73GB1J101J	CHIP R	100	J 1/16W
R724-727			RK73FB2A1R0J	CHIP R	1	J 1/10W
R728-731			RK73GB1J101J	CHIP R	100	J 1/16W
R732-734			RK73FB2A1R0J	CHIP R	1	J 1/10W
R801-854			RK73GB1J473J	CHIP R	47K	J 1/16W
R855			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R856			RK73FB2A1R0J	CHIP R	1	J 1/10W
R857			RK73GB1J183J	CHIP R	18K	J 1/16W
R858			RK73GB1J123J	CHIP R	12K	J 1/16W
R859			RK73GB1J183J	CHIP R	18K	J 1/16W
R860			RK73GB1J473J	CHIP R	47K	J 1/16W
R861			RK73FB2A1R0J	CHIP R	1	J 1/10W
R862-864			RK73GB1J473J	CHIP R	47K	J 1/16W
R865,866			RK73GB1J102J	CHIP R	1.0K	J 1/16W
R867			RK73FB2A1R0J	CHIP R	1	J 1/10W
R868,869			RK73GB1J473J	CHIP R	47K	J 1/16W
R871-875			RK73GB1J471J	CHIP R	470	J 1/16W
R876			RK73GB1J512J	CHIP R	5.1K	J 1/16W
R877-895			RK73GB1J471J	CHIP R	470	J 1/16W
R896-900			RK73GB1J221J	CHIP R	220	J 1/16W
R901-905			RK73GB1J471J	CHIP R	470	J 1/16W
R911-915			RK73GB1J473J	CHIP R	47K	J 1/16W
R951-954			RK73FB2A181J	CHIP R	180	J 1/10W
△ R955-960			RK73FB2A1R0J	CHIP R	1	J 1/10W
R961			RK73GB1J102J	CHIP R	1.0K	J 1/16W
△ R962-967			RK73FB2A1R0J	CHIP R	1	J 1/10W
△ R969-972			RK73FB2A1R0J	CHIP R	1	J 1/10W
△ R973-976			RK73FB2A390J	CHIP R	39	J 1/10W
R999			RK73GB1J1R0J	CHIP R	1	J 1/16W

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D3 -6			DA204U	DIODE		
D3 -6			1SS302	DIODE		
IC1			TC74HC04AF	IC(HEX INVERTER SMD)	K1P2	
IC2			TC74HC04AF	IC(HEX INVERTER SMD)		
IC3 ,4			TC74HC04AF	IC(HEX INVERTER SMD)	K1P2	
IC5			TC74HC151AF	MOS-IC		
IC6		*	AK4112BVF	MOS-IC		
IC7		*	AK5383VF	MOS-IC		
IC8 ,9			NJM4565MD	IC(OP AMP X2)		
IC11			AK4393-VF	MOS-IC		
IC11		*	AK4393VF	MOS-IC		
IC12,13			NJM4565MD	IC(OP AMP X2)		
IC14			AK4393-VF	MOS-IC		
IC14		*	AK4393VF	MOS-IC		
IC15,16			NJM4565MD	IC(OP AMP X2)		
IC17			AK4393-VF	MOS-IC		
IC17		*	AK4393VF	MOS-IC		
IC18,19			NJM4565MD	IC(OP AMP X2)		
IC20			AK4393-VF	MOS-IC		
IC20		*	AK4393VF	MOS-IC		
IC21,22			NJM4565MD	IC(OP AMP X2)		
IC31		*	ADSST-A-3525	MOS-IC		
IC32		*	49BV008A1ALA	MOS-IC		
IC33,34			HY57V16160DTC	MEMORY IC		
IC35			TC7S04F	IC(2CH NAND GATE)		
IC36,37			TC7SHU04FU	MOS-IC		
IC38			TC74HC08AF	MOS-IC		
IC39,40		*	TC74LVX573F	MOS-IC		
IC41			TC7SH32F	MOS-IC		
IC42			TC7SH02F	MOS-IC		
IC43		*	UPD784224K507	MI-COM IC		
IC44			TC74VHC125F	MOS-IC		
IC45			TC7WH34FK	MOS-IC		
△ IC51			UPC29L33T	ANALOGUE IC		
△ IC52		*	PQ3DZ13	ANALOGUE IC		
△ IC53,54		*	UPC29M05T	ANALOGUE IC		
CONTROL UNIT (X11-389/390X-XX)						
C1 -14			CC73GCH1H221J	CHIP C	220PF	J
C45 -48			CC73GCH1H101J	CHIP C	100PF	J
C49 ,50			CE04KW1H470M	ELECTRO	47UF	50WV
C53 ,54			CE04KW1H100M	ELECTRO	10UF	50WV
C55 ,56			CC73GCH1H221J	CHIP C	220PF	J
C57 ,58			CE04KW1A101M	ELECTRO	100UF	10WV
C61 ,62			CQ93FMG1H123J	MYLAR	0.012UF	J
C63 ,64			CQ93FMG1H332J	MYLAR	3300PF	J
C65 ,66			CE04KW1H487M	ELECTRO	4.7UF	50WV
C67 ,68			CC73GCH1H101J	CHIP C	100PF	J
C69 ,70			CC73GCH1H181J	CHIP C	180PF	J
C71 -78			CC73GCH1H101J	CHIP C	100PF	J
C81 -84			CC73GCH1H101J	CHIP C	100PF	J
C85 ,86			CE04KW1H487M	ELECTRO	4.7UF	50WV
C87 -90			CC73GCH1H101J	CHIP C	100PF	J
C91 ,92			CE04KW1H010M	ELECTRO	1.0UF	50WV
C93 ,94			CE04KW1H2R2M	ELECTRO	2.2UF	50WV

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C95 -100 C101,102 C103,104 C105-107 C108			CC73GCH1H101J CE04KW1H4R7M CC73GCH1H101J CC73GCH1H102J CE04KW1H220M	CHIP C ELECTRO CHIP C CHIP C ELECTRO	100PF 4.7UF 100PF 1000PF 22UF	J 50WV J J 50WV
C111,112 C113,114 C115,116 C117-120 C121,122			CC73GCH1H101J CC73GCH1H561J CC73GCH1H101J CK73FB1C104K CC73GCH1H101J	CHIP C CHIP C CHIP C CHIP C CHIP C	100PF 560PF 100PF 0.10UF 100PF	J J J K J
C123,124 C125,126 C127,128 C129,130 C131,132			CE04KW1H4R7M CC45FSL1H820J CE04KW1H220M CC45FSL1H330J CC73GCH1H101J	ELECTRO CERAMIC ELECTRO CERAMIC CHIP C	4.7UF 82PF 22UF 33PF 100PF	50WV J 50WV J J
C133 C135 C137 C138 C139,140			CE04KW1H100M CC73GCH1H101J CC45FSL1H020C CC45FSL1H030C CC73GCH1H101J	ELECTRO CHIP C CERAMIC CERAMIC CHIP C	10UF 100PF 2.0PF 3.0PF 100PF	50WV J C C J
C141,142 C143,144 C145,146 C147-150 C151,152			CE04KW1H4R7M CC73GCH1H101J CC73GCH1H561J CK73FB1C104K CE04KW1H4R7M	ELECTRO CHIP C CHIP C CHIP C ELECTRO	4.7UF 100PF 560PF 0.10UF 4.7UF	50WV J J K 50WV
C153,154 C155,156 C157,158 C159-163 C165			CC45FSL1H470J CE04KW1H220M CC45FSL1H330J CC73GCH1H101J CC45FSL1H020C	CERAMIC ELECTRO CERAMIC CHIP C CERAMIC	47PF 22UF 33PF 100PF 2.0PF	J 50WV J J C
C166 C167 C169,170 C181,182 C183,184			CC45FSL1H030C CE04KW1H100M CC73GCH1H101J CE04KW1H4R7M CC73GCH1H101J	CERAMIC ELECTRO CHIP C ELECTRO CHIP C	3.0PF 10UF 100PF 4.7UF 100PF	C 50WV J 50WV J
C191,192 C193,194 C195,196 C197 C198			CE04KW1H4R7M CC45FSL1H470J CE04KW1H220M CC45FSL1H330J CC45FSL1H101J	ELECTRO CERAMIC ELECTRO CERAMIC CERAMIC	4.7UF 47PF 22UF 33PF 100PF	50WV J 50WV J J
C199-204 C205,206 C207 C209,210 C211,212			CC73GCH1H101J CC45FSL1H020C CE04KW1H100M CC73GCH1H101J CE04KW1H4R7M	CHIP C CERAMIC ELECTRO CHIP C ELECTRO	100PF 2.0PF 10UF 100PF 4.7UF	J C 50WV J 50WV
C213-216 C221,222 C223,224 C225,226 C227,228			CC73GCH1H101J CE04KW1H4R7M CC45FSL1H470J CE04KW1H220M CC45FSL1H330J	CHIP C ELECTRO CERAMIC ELECTRO CERAMIC	100PF 4.7UF 47PF 22UF 33PF	J 50WV J 50WV J
C229-233 C234 C235 C236 C301-310			CC73GCH1H101J CE04KW1H100M CC45FSL1H020C CC45FSL1H030C CC73GCH1H221J	CHIP C ELECTRO CERAMIC CERAMIC CHIP C	100PF 10UF 2.0PF 3.0PF 220PF	J 50WV C C J

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C311,312 C313-318 C351-356 C357-376 C377,378			CC73GCH1H221J CC73GCH1H221J CE04KW1H2R2M CC73GCH1H101J CK73GB1H103K	CHIP C CHIP C ELECTRO CHIP C CHIP C	220PF 220PF 2.2UF 100PF 0.010UF	J J 50WV J K
C381,382 C383,384 C401,402 C403-410 C411,412			CE04KW1H220M CE04KW1H100M CE04KW1H2R2M CC73GCH1H101J CE04KW1H220M	ELECTRO ELECTRO ELECTRO CHIP C ELECTRO	22UF 10UF 2.2UF 100PF 22UF	50WV 50WV 50WV J 50WV
C413-415 C421 C422,423 C425 C427			CE04KW1H4R7M CE04KW1H100M CC73GCH1H101J CE04KW1H220M CC73GCH1H101J	ELECTRO ELECTRO CHIP C ELECTRO CHIP C	4.7UF 10UF 100PF 22UF 100PF	50WV 50WV J 50WV J
C431-440 C441,442 C443,444 C451,452 C453,454			CC73GCH1H101J CE04KW1H220M CC73GCH1H101J CE04KW1H2R2M CC73GCH1H101J	CHIP C ELECTRO CHIP C ELECTRO CHIP C	100PF 22UF 100PF 2.2UF 100PF	J 50WV J 50WV J
C455,456 C457-462 C463,464 C465,466 C467			CE04KW1H220M CC73GCH1H101J CE04KW1H4R7M CC73GCH1H101J CE04KW1H100M	ELECTRO CHIP C ELECTRO CHIP C ELECTRO	22UF 100PF 4.7UF 100PF 10UF	50WV J 50WV J 50WV
C469,470 C471,472 C473,474 C475,476 C477,478			CC73GCH1H101J CE04KW1H010M CC73GCH1H561J CE04KW1H010M CC73GCH1H270J	CHIP C ELECTRO CHIP C ELECTRO CHIP C	100PF 1.0UF 560PF 1.0UF 27PF	J 50WV J 50WV J
C479,480 C481,482 C483,484 C485,486 C487,488			CK73GB1H562K CK73FB1H183K CE04KW1H100M CK73FB1H153K CK73FB1H683K	CHIP C CHIP C ELECTRO CHIP C CHIP C	5600PF 0.018UF 10UF 0.015UF 0.068UF	K K 50WV K K
C489,490 C491-495 C501-506 C509,510 C513-518			CC73GCH1H821J CC73GCH1H101J CC73GCH1H101J CC73GCH1H101J CC73GCH1H101J	CHIP C CHIP C CHIP C CHIP C CHIP C	820PF 100PF 100PF 100PF 100PF	J J J J J
C549,550 C551-554 C555,556 C557,558 C559,560			CC73GCH1H101J CE04KW1H4R7M CC45FSL1H101J CE04KW1H220M CC45FSL1H330J	CHIP C ELECTRO CERAMIC ELECTRO CERAMIC	100PF 4.7UF 100PF 22UF 33PF	J 50WV J 50WV J
C561,562 C563 C564 C565,566 C567			CC73GCH1H101J CC45FSL1H020C CC45FSL1H030C CK73GB1H103K CC73GCH1H101J	CHIP C CERAMIC CERAMIC CHIP C CHIP C	100PF 2.0PF 3.0PF 0.010UF 100PF	J C C K J
C568			CE04KW1H100M	ELECTRO	10UF	50WV
CN1 CN2 CN3			E40-8319-05 E40-8250-05 E40-8354-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR		

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PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
CN11 CN12,13 J1 ,2 J1 ,2 J1 ,2		*	E40-8318-05 E40-9835-05 E63-1112-05 E63-1112-05 E63-1112-05	FLAT CABLE CONNECTOR SOCKET FOR PIN ASSY PIN JACK PIN JACK PIN JACK	E2V KP1E1 Y1M1X1	
J1 ,2 J11 J11 J11 J11			E63-1113-05 E63-1111-05 E63-1164-05 E63-1164-05 E63-1164-05	PIN JACK PIN JACK PIN JACK PIN JACK PIN JACK	K1P2 K1P2 E2V KP1E1 Y1M1X1	
J12 J13 J13 J13 J13			E63-1111-05 E63-1114-05 E63-1114-05 E63-1114-05 E63-1115-05	PIN JACK PIN JACK PIN JACK PIN JACK PIN JACK	K1P2 E2V KP1E1 Y1M1X1 K1P2	
J14 J14 J14			E63-1163-05 E63-1163-05 E63-1163-05	PIN JACK PIN JACK PIN JACK	E2V KP1E1 Y1M1X1	
R1 ,2 R3 ,4 R5 ,10 R11 ,12 R13 ,14			RK73GB1J102J RK73GB1J222J RK73GB1J102J RK73GB1J222J RK73GB1J102J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 2.2K 1.0K 2.2K 1.0K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R15 ,28 R45 ,48 R51 ,52 R53 ,54 R55 ,56			RK73GB1J474J RK73GB1J102J RK73GB1J224J RK73GB1J222J RK73GB1J303J	CHIP R CHIP R CHIP R CHIP R CHIP R	470K 1.0K 220K 2.2K 30K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R57 ,58 R59 ,60 R61 ,62 R63 ,64 R65 ,66			RK73GB1J361J RK73GB1J101J RK73GB1J274J RK73GB1J223J RK73GB1J473J	CHIP R CHIP R CHIP R CHIP R CHIP R	360 100 270K 22K 47K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R67 ,68 R72 R75 ,76 R77 ,78 R80			RK73GB1J102J RK73GB1J103J RK73GB1J102J RK73GB1J100J RK73GB1J681J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 10K 1.0K 10 680	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R81 ,82 R83 ,84 R85 ,86 R87 ,88 R89 ,90			RK73GB1J472J RK73GB1J102J RK73GB1J101J RK73GB1J224J RK73GB1J471J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 1.0K 100 220K 470	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R91 ,92 R93 ,94 R95 ,96 R97 ,98 R99 ,100			RK73GB1J474J RK73GB1J471J RK73GB1J224J RK73GB1J101J RK73GB1J470J	CHIP R CHIP R CHIP R CHIP R CHIP R	470K 470 220K 100 47	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R111,112 R113,114 R115,116 R117,118 R119,120			RK73GB1J104J RK73GB1J224J RK73GB1J822J RK73GB1J470J RK73GB1J105J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 220K 8.2K 47 1.0M	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R121,122			RK73GB1J124J	CHIP R	120K	J 1/16W

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R123,124 R125,126 R127,128 R129 R130			RK73GB1J302J RK73GB1J133J RK73GB1J100J RK73GB1J102J RK73GB1J103J	CHIP R CHIP R CHIP R CHIP R CHIP R	3.0K 13K 10 1.0K 10K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R131,132 R133,134 R141,142 R143,144 R145,146			RK73GB1J2R2J RK73GB1J102J RK73GB1J104J RK73GB1J224J RK73GB1J822J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2 1.0K 100K 220K 8.2K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R147,148 R149,150 R151,152 R153,154 R155,156			RK73GB1J470J RK73GB1J102J RK73GB1J124J RK73GB1J103J RK73GB1J332J	CHIP R CHIP R CHIP R CHIP R CHIP R	47 1.0K 120K 10K 3.3K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R157,158 R159,160 R161,162 R163,164 R165			RK73GB1J163J RK73GB1J133J RK73GB1J470J RK73GB1J100J RK73GB1J102J	CHIP R CHIP R CHIP R CHIP R CHIP R	16K 13K 47 10 1.0K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R166 R167,168 R169 R171,172 R173,174			RK73GB1J472J RK73GB1J105J RK73GB1J472J RK73GB1J100J RK73GB1J2R2J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 1.0M 4.7K 10 2.2	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R181,182 R183,184 R187,188 R189,190 R191,192			RK73GB1J104J RK73GB1J102J RK73GB1J470J RK73GB1J105J RK73GB1J124J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 1.0K 47 1.0M 120K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R193,194 R195 R196 R197 R198			RK73GB1J103J RK73GB1J332J RK73GB1J472J RK73GB1J163J RK73GB1J153J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 3.3K 4.7K 16K 15K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R199 R200 R201,202 R203 R204			RK73GB1J133J RK73GB1J333J RK73GB1J100J RK73GB1J470J RK73GB1J102J	CHIP R CHIP R CHIP R CHIP R CHIP R	13K 33K 10 47 1.0K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R205,206 R211,212 R213,214 R217,218 R219,220			RK73GB1J2R2J RK73GB1J104J RK73GB1J102J RK73GB1J470J RK73GB1J105J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2 100K 1.0K 47 1.0M	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R221,222 R223,224 R225,226 R227,228 R229,230			RK73GB1J124J RK73GB1J103J RK73GB1J332J RK73GB1J163J RK73GB1J133J	CHIP R CHIP R CHIP R CHIP R CHIP R	120K 10K 3.3K 16K 13K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W
R231,232 R233,234 R235 R237,238 R301,302			RK73GB1J470J RK73GB1J100J RK73GB1J102J RK73GB1J2R2J RK73GB1J222J	CHIP R CHIP R CHIP R CHIP R CHIP R	47 10 1.0K 2.2 2.2K	J 1/16W J 1/16W J 1/16W J 1/16W J 1/16W

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R303,304 R305,306 R307-310 R311,312 R313-318			RK73GB1J102J RK73GB1J222J RK73GB1J102J RK73GB1J102J RK73GB1J102J	CHIP R 1.0K J 1/16W CHIP R 2.2K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W	K1P2	
R319-328 R319,330 R331-336 R351-356 R357-362			RK73GB1J474J RK73GB1J474J RK73GB1J474J RK73GB1J471J RK73GB1J224J	CHIP R 470K J 1/16W CHIP R 470K J 1/16W CHIP R 470K J 1/16W CHIP R 470 J 1/16W CHIP R 220K J 1/16W	K1P2	
R363-366 R367 R368 R369-372 R373			RK73GB1J101J RK73GB1J472J RK73GB1J101J RK73GB1J470J RK73GB1J222J	CHIP R 100 J 1/16W CHIP R 4.7K J 1/16W CHIP R 100 J 1/16W CHIP R 47 J 1/16W CHIP R 2.2K J 1/16W		
R381,382 R383,384 R385-390 R391,392 R401,402			RK73GB1J470J RK73GB1J224J RK73GB1J472J RK73GB1J622J RK73GB1J224J	CHIP R 47 J 1/16W CHIP R 220K J 1/16W CHIP R 4.7K J 1/16W CHIP R 6.2K J 1/16W CHIP R 220K J 1/16W		
R403,404 R421 R422 R423,424 R425			RK73GB1J101J RK73GB1J224J RK73GB1J101J RK73GB1J472J RK73GB1J470J	CHIP R 100 J 1/16W CHIP R 220K J 1/16W CHIP R 100 J 1/16W CHIP R 4.7K J 1/16W CHIP R 47 J 1/16W		
R427,428 R429,430 R431,432 R433,434 R435-442			RK73GB1J104J RK73GB1J100J RK73GB1J152J RK73GB1J272J RK73GB1J472J	CHIP R 100K J 1/16W CHIP R 10 J 1/16W CHIP R 1.5K J 1/16W CHIP R 2.7K J 1/16W CHIP R 4.7K J 1/16W		
R443,444 R451 R452 R453 R454			RK73GB1J104J RK73GB1J332J RK73GB1J103J RK73GB1J152J RK73GB1J103J	CHIP R 100K J 1/16W CHIP R 3.3K J 1/16W CHIP R 10K J 1/16W CHIP R 1.5K J 1/16W CHIP R 10K J 1/16W		
R455,456 R457,458 R459,460 R461,462 R463,464			RK73GB1J102J RK73GB1J224J RK73GB1J472J RK73GB1J224J RK73GB1J472J	CHIP R 1.0K J 1/16W CHIP R 220K J 1/16W CHIP R 4.7K J 1/16W CHIP R 220K J 1/16W CHIP R 4.7K J 1/16W		
R465,466 R467-469 R471,472 R473,474 R475,476			RK73GB1J470J RK73GB1J104J RK73GB1J822J RK73GB1J202J RK73GB1J124J	CHIP R 47 J 1/16W CHIP R 100K J 1/16W CHIP R 8.2K J 1/16W CHIP R 2.0K J 1/16W CHIP R 120K J 1/16W		
R477,478 R479,480 R481,482 R483-486 R487,488			RK73GB1J433J RK73GB1J184J RK73GB1J394J RK73GB1J392J RK73GB1J821J	CHIP R 43K J 1/16W CHIP R 180K J 1/16W CHIP R 390K J 1/16W CHIP R 3.9K J 1/16W CHIP R 820 J 1/16W		
R489,490 R491,492 R493,494 R495,496 R497			RK73GB1J163J RK73GB1J684J RK73GB1J223J RK73GB1J102J RK73GB1J103J	CHIP R 16K J 1/16W CHIP R 680K J 1/16W CHIP R 22K J 1/16W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W		

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R498,499 R500,501 R502 R503 R504			RK73GB1J472J RK73GB1J102J RK73GB1J103J RK73GB1J102J RK73GB1J103J	CHIP R 4.7K J 1/16W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W		
R505,506 R507-520 R549-552 R553,554 R555,556			RK73GB1J472J RK73GB1J102J RK73GB1J104J RK73GB1J103J RK73GB1J332J	CHIP R 4.7K J 1/16W CHIP R 1.0K J 1/16W CHIP R 100K J 1/16W CHIP R 10K J 1/16W CHIP R 3.3K J 1/16W		
R557,558 R559,560 R561,562 R563 R564			RK73GB1J163J RK73GB1J133J RK73GB1J470J RK73GB1J103J RK73GB1J102J	CHIP R 16K J 1/16W CHIP R 13K J 1/16W CHIP R 47 J 1/16W CHIP R 10K J 1/16W CHIP R 1.0K J 1/16W		
R565,566 R567,568 W201-204 W205,206 W207-215			RK73GB1J2R2J RK73GB1J100J R92-1963-05 R92-0679-05 R92-1963-05	CHIP R 2.2 J 1/16W CHIP R 10 J 1/16W JUMPER WIRE (RESISTOR TYPE) CHIP R 0 OHM JUMPER WIRE (RESISTOR TYPE)		
W501-539			R92-1963-05	JUMPER WIRE (RESISTOR TYPE)		
D3 ,4 D5 -8 D5 -8 IC1 IC2			MA111 DA204U 1SS302 NJM4580ED NJU7312AM	DIODE DIODE DIODE ANALOGUE IC MOS-IC		
IC3 IC4 ,5 IC6 IC7 IC8		*	NJU7313AM NJM4565M TC9459N NJM4565M TC9459N	ANALOGUE IC ANALOGUE IC MOS-IC ANALOGUE IC MOS-IC		
IC9 IC10 IC11 IC12 IC13		*	NJM4565MD TC9459N NJM4565MD TC9459N NJM4565MD	IC(OP AMP X2) MOS-IC IC(OP AMP X2) MOS-IC IC(OP AMP X2)		
IC21 IC22 IC23 IC24 IC25-28			NJU7312AM NJU7313AM NJU7311AM NJU7313AM NJM4565MD	MOS-IC ANALOGUE IC MOS-IC ANALOGUE IC IC(OP AMP X2)		
IC29-33 IC34 IC35 IC36 Q1 -8		*	NJM4565M TC9184AP TC9459N NJM4565M 2SC2878(B)	ANALOGUE IC MOS-IC MOS-IC ANALOGUE IC TRANSISTOR		
Q11 ,12 Q13 Q13 Q14 Q14			2SC2878(B) 2SA1576A(R,S) 2SA1586(Y,GR) DTC124EUA UN5212	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q15 -18			2SC2878(B)	TRANSISTOR		

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SUB-CIRCUIT UNIT (X13-784/785X-XX)						
C4 C5 C6 C7 C8			C90-1826-05 CE04KW1A101M CK73GF1E104Z CK73GB1H103K CE04KW1H010M	BACKUP-C ELECTRO CHIP C CHIP C ELECTRO	0.047F 100UF 0.10UF 0.010UF 1.0UF	5.5WV 10WV Z K 50WV
C9 ,10 C11 C12 C13 ,14 C20			CK73GB1H103K CE04KW1E470M CE04KW1A101M CK73GF1E104Z CK73GF1E104Z	CHIP C ELECTRO ELECTRO CHIP C CHIP C	0.010UF 47UF 100UF 0.10UF 0.10UF	K 25WV 10WV Z Z
C21 ,22 C23 ,24 C41 C42 C45 -50			CC73GCH1H101J CK73GB1H103K CE04KW1E102M CE04KW1H100M CE04KW1H100M	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	100PF 0.010UF 1000UF 10UF 10UF	J K 25WV 50WV 50WV
C51 C52 C98 ,99 C101,102 C110			CE04KW1E221M CE04KW1E101M CE04KW1H100M CC73GCH1H560J CK73GB1H472K	ELECTRO ELECTRO ELECTRO CHIP C CHIP C	220UF 100UF 10UF 56PF 4700PF	25WV 25WV 50WV J K
C201 C202 C229 C231 C232			CE04KW1H010M CK73GB1H472K CC73GCH1H102J CE04KW1H100M CC73GCH1H331J	ELECTRO CHIP C CHIP C ELECTRO CHIP C	1.0UF 4700PF 1000PF 10UF 330PF	50WV K J 50WV J
C233 C234,235 C236 C237 C300			CC73GCH1H561J CC73GCH1H220J CE04KW1H100M CK73GB1H472K CK45FF1H103Z	CHIP C CHIP C ELECTRO CHIP C CERAMIC	560PF 22PF 10UF 4700PF 0.010UF	J J 50WV K Z
C301,302 C307 C308 C309 C310			CE04KW1V102M CC73GCH1H102J CC73GCH1H101J CE04KW1H100M CE04KW1E221M	ELECTRO CHIP C CHIP C ELECTRO ELECTRO	1000UF 1000PF 100PF 10UF 220UF	35WV J J 50WV 25WV
C311,312 C320 C321 C322 C323			CE04KW1E470M CK45FF1H103Z CE04KW1C472M CE04KW1E101M CE04KW1A101M	ELECTRO CERAMIC ELECTRO ELECTRO ELECTRO	47UF 0.010UF 4700UF 100UF 100UF	25WV Z 16WV 25WV 10WV
C328,329 C330 C331 C333,334 C410			CE04KW1E470M CK45FF1H103Z CE04KW1V102M CE04KW1E470M CE04KW1A101M	ELECTRO CERAMIC ELECTRO ELECTRO ELECTRO	47UF 0.010UF 1000UF 47UF 100UF	25WV Z 35WV 25WV 10WV
C501-505 C506 C507,508 C509,510 C511-514			CC73GCH1H101J CC73GCH1H101J CC73GCH1H101J CE04KW1A471M CE04KW1A101M	CHIP C CHIP C CHIP C ELECTRO ELECTRO	100PF 100PF 100PF 470UF 100UF	J J J 10WV 10WV
C515 C517 C518			CE04KW1A101M CK73GB1H103K CE04KW1A101M	ELECTRO CHIP C ELECTRO	100UF 0.010UF 100UF	10WV K 10WV

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C519 C521 C522 C523 C524			CE04KW1H010M CE04KW1E470M CE04KW1A471M CE04KW1A101M CE04KW1A101M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	1.0UF 47UF 470UF 100UF 100UF	50WV 25WV 10WV 10WV 10WV
C525-527 C535,536 C539 C541 C544			CE04KW1A101M CK73GB1H103K CE04KW1A471M CK73GB1H103K CE04KW1H100M	ELECTRO CHIP C ELECTRO CHIP C ELECTRO	100UF 0.010UF 470UF 0.010UF 10UF	10WV K 10WV K 50WV
C601-610 C611,612 C613-616 C617-619 C620			CC73GCH1H101J CC73GCH1H101J CC73GCH1H101J CK73GF1E104Z CK73GF1E104Z	CHIP C CHIP C CHIP C CHIP C CHIP C	100PF 100PF 100PF 0.10UF 0.10UF	J J J Z Z
C621 C622 C623 C624 C625			CK73GF1E104Z CE04KW1A471M CK73GF1E104Z CE04KW1A101M CK73GF1E104Z	CHIP C ELECTRO CHIP C ELECTRO CHIP C	0.10UF 470UF 0.10UF 100UF 0.10UF	Z 10WV Z 10WV Z
C626 C627 C628 C629 C630			CE04KW1A471M CK73GF1E104Z CE04KW1A101M CK73GF1E104Z CE04KW1A101M	ELECTRO CHIP C ELECTRO CHIP C ELECTRO	470UF 0.10UF 100UF 0.10UF 100UF	10WV Z 10WV Z 10WV
C631 C632 C633 C634 C635			CK73GF1E104Z CE04KW1A101M CK73GF1E104Z CE04KW1A101M CK73GF1E104Z	CHIP C ELECTRO CHIP C ELECTRO CHIP C	0.10UF 100UF 0.10UF 100UF 0.10UF	Z 10WV Z 10WV Z
C636 C637 C638,639 C640 C641			CE04KW1A471M CK73GF1E104Z CK73GF1A105Z CE04KW1A101M CE04KW1A101M	ELECTRO CHIP C CHIP C ELECTRO ELECTRO	470UF 0.10UF 1.0UF 100UF 100UF	10WV Z Z 10WV 10WV
C642 C643 C644 C645 C646			CE04KW1H010M CK73GB1H103K CK73GF1E104Z CE04KW1H100M CK73GF1H223Z	ELECTRO CHIP C CHIP C ELECTRO CHIP C	1.0UF 0.010UF 0.10UF 10UF 0.022UF	50WV K Z 50WV Z
C647 C648 C649,650 C651,652 C653			CK73GB1H103K CK73GF1E104Z CE04KW1E470M CE04KW1A221M CE04KW1H100M	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	0.010UF 0.10UF 47UF 220UF 10UF	K Z 25WV 10WV 50WV
C654 C655 C656 C657 C658			CK73GB1H182K CC73GCH1H102J CE04KW1H220M CE04KW1A221M CK73GF1A105Z	CHIP C CHIP C ELECTRO ELECTRO CHIP C	1800PF 1000PF 22UF 220UF 1.0UF	K J 50WV 10WV Z
C659 C670 C671 C672 C701-709			CK73GB1H103K CK73GF1E104Z CE04KW1H100M CE04KW1E470M CC73GCH1H470J	CHIP C CHIP C ELECTRO ELECTRO CHIP C	0.010UF 0.10UF 10UF 47UF 47PF	K Z 50WV 25WV J

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C701-709			CC73GCH1H470J	CHIP C 47PF	J	KP1E1
C701-709			CC73GCH1H470J	CHIP C 47PF	J	Y1M1X1
C710-715			CE04KW1A101M	ELECTRO 100UF	10WV	E2V
C710-715			CE04KW1A101M	ELECTRO 100UF	10WV	KP1E1
C710-715			CE04KW1A101M	ELECTRO 100UF	10WV	Y1M1X1
C716-718			CE04KW1A471M	ELECTRO 470UF	10WV	E2V
C716-718			CE04KW1A471M	ELECTRO 470UF	10WV	KP1E1
C716-718			CE04KW1A471M	ELECTRO 470UF	10WV	Y1M1X1
C719-721			CC73GCH1H102J	CHIP C 1000PF	J	E2V
C719-721			CC73GCH1H102J	CHIP C 1000PF	J	KP1E1
C719-721			CC73GCH1H102J	CHIP C 1000PF	J	Y1M1X1
C851			CE04KW1E470M	ELECTRO 47UF	25WV	E2V
C851			CE04KW1E470M	ELECTRO 47UF	25WV	KP1E1
C851			CE04KW1E470M	ELECTRO 47UF	25WV	Y1M1X1
C852			CE04KW1H100M	ELECTRO 10UF	50WV	E2V
C852			CE04KW1H100M	ELECTRO 10UF	50WV	Y1M1X1
C853,854			CF92FV1H105J	MF-C 1.0UF	J	E2V
C853,854			CF92FV1H105J	MF-C 1.0UF	J	KP1E1
C853,854			CF92FV1H105J	MF-C 1.0UF	J	Y1M1X1
C859			CK73GF1E104Z	CHIP C 0.10UF	Z	E2V
C859			CK73GF1E104Z	CHIP C 0.10UF	Z	KP1E1
C859			CK73GF1E104Z	CHIP C 0.10UF	Z	Y1M1X1
C901-903			CE04KW1H010M	ELECTRO 1.0UF	50WV	KP1K1
C901-903			CE04KW1H010M	ELECTRO 1.0UF	50WV	P2
C904			CE04KW1A221M	ELECTRO 220UF	10WV	KP1K1
C904			CE04KW1A221M	ELECTRO 220UF	10WV	P2
C905			CE04KW1H010M	ELECTRO 1.0UF	50WV	KP1K1
C905			CE04KW1H010M	ELECTRO 1.0UF	50WV	P2
C906-909			CC73GCH1H101J	CHIP C 100PF	J	KP1K1
C906-909			CC73GCH1H101J	CHIP C 100PF	J	P2
CN1			E40-3257-05	PIN ASSY		
CN2			E40-3256-05	PIN ASSY		
CN3			E40-4297-05	FLAT CABLE CONNECTOR		
CN4			E40-9849-05	PIN ASSY		
CN5,6			E40-9853-05	PIN ASSY		
CN7			E40-9840-05	PIN ASSY		
CN8			E40-9840-05	PIN ASSY		E2V
CN8			E40-9840-05	PIN ASSY		KP1E1
CN8			E40-9840-05	PIN ASSY		Y1M1X1
CN9		*	E40-9852-05	PIN ASSY		
CN10			E40-9853-05	PIN ASSY		
CN11,12		*	E40-9852-05	PIN ASSY		
CN13			E40-8258-05	FLAT CABLE CONNECTOR		
CN14			E40-8255-05	FLAT CABLE CONNECTOR		
CN15			E40-9849-05	PIN ASSY		K1P2
CN16			E40-4296-05	FLAT CABLE CONNECTOR		KP1K1
CN16			E40-4296-05	FLAT CABLE CONNECTOR		P2
CN501			E40-9836-05	SOCKET FOR PIN ASSY		
CN601		*	E40-9835-05	SOCKET FOR PIN ASSY		
CN701			E40-9823-05	SOCKET FOR PIN ASSY		E2V
CN701			E40-9823-05	SOCKET FOR PIN ASSY		KP1E1
J501			E63-1021-05	PIN JACK		Y1M1X1

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J501			E63-1021-05	PIN JACK		KP1E1
J501			E63-1021-05	PIN JACK		Y1M1X1
J501			E63-1125-05	PIN JACK		K1P2
J502			E63-1125-05	PIN JACK		K1P2
J503			E63-1020-05	PIN JACK		E2V
J503			E63-1020-05	PIN JACK		KP1E1
J503			E63-1020-05	PIN JACK		Y1M1X1
J503			E63-1123-05	PIN JACK		K1P2
J504			E63-1020-05	PIN JACK		E2V
J504			E63-1020-05	PIN JACK		KP1E1
J504			E63-1020-05	PIN JACK		Y1M1X1
J601			E56-0029-05	CYLINDRICAL RECEPTACLE		E2
J601			E56-0029-05	CYLINDRICAL RECEPTACLE		KP1E1
J601			E56-0029-05	CYLINDRICAL RECEPTACLE		Y1M1X1
J601			E56-0030-05	CYLINDRICAL RECEPTACLE		K1P2
J602			E56-0027-05	CYLINDRICAL RECEPTACLE		E2V
J603			E56-0027-05	CYLINDRICAL RECEPTACLE		KP1E1
J603			E56-0027-05	CYLINDRICAL RECEPTACLE		Y1M1X1
J603			E56-0028-05	CYLINDRICAL RECEPTACLE		K1P2
J604			E56-0027-05	CYLINDRICAL RECEPTACLE		E2V
J604			E56-0027-05	CYLINDRICAL RECEPTACLE		KP1E1
J604			E56-0027-05	CYLINDRICAL RECEPTACLE		Y1M1X1
J701-703		*	E63-1175-05	PIN JACK		E2V
J701-703		*	E63-1175-05	PIN JACK		KP1E1
J701-703		*	E63-1175-05	PIN JACK		Y1M1X1
J901		*	E58-0033-05	RECTANGULAR RECEPTACLE		KP1K1
J901		*	E58-0033-05	RECTANGULAR RECEPTACLE		P2
Δ F5 -7			F06-1022-05	FUSE (SEMKO) (250V T1AL)		E1Y1M1
Δ F5 -7			F06-1022-05	FUSE (SEMKO) (250V T1AL)		X1E2
Δ F5 -7			F50-0067-05	FUSE(5X20)		KP1K1
Δ F5 -7			F50-0067-05	FUSE(5X20)		P2
Δ F5 -7			F50-0108-05	FUSE(5X20)		V
Δ F8			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		E1Y1M1
Δ F8			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		X1E2
Δ F8			F50-0072-05	FUSE(5X20)		KP1K1
Δ F8			F50-0072-05	FUSE(5X20)		P2
Δ F8			F50-0111-05	FUSE(5X20)		V
CN22-29			J13-0075-05	FUSE CLIP		
L1 -9			L92-0140-05	CHIP FERRITE		Y1M1V
L10			L92-0140-05	CHIP FERRITE		
L11 -13			L92-0140-05	CHIP FERRITE		
L601			L76-0018-05	DELAY LINE		K1P2
X1			L78-0615-05	RESONATOR (12.5MHZ)		
X2			L78-0674-05	RESONATOR (3.64MHZ)		
X3			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)		E1E2
Δ R1			RD14NB2E100J	RD 10 J 1/4W		
Δ R2			RK73GB1J102J	CHIP R 1.0K J 1/16W		
Δ R3			RD14NB2E2R2J	RD 2.2 J 1/4W		
R4			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R5			RK73GB1J221J	CHIP R 220 J 1/16W		
R6			RK73GB1J104J	CHIP R 100K J 1/16W		
R7			RK73GB1J102J	CHIP R 1.0K J 1/16W		

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PARTS LIST

KRF-X7775D/X7775D-S/VR-5080/5090

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R8			RK73GB1J103J	CHIP R 10K J 1/16W		
R9			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R10			RK73GB1J103J	CHIP R 10K J 1/16W		
R11			RK73GB1J101J	CHIP R 100 J 1/16W		
R12			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R13 ,14			RK73GB1J331J	CHIP R 330 J 1/16W		
R15 -18			RK73GB1J104J	CHIP R 100K J 1/16W		
R19			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R21 ,22			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R23 ,24			RK73GB1J103J	CHIP R 10K J 1/16W		
R35			RK73GB1J473J	CHIP R 47K J 1/16W		
R41 ,42			RK73GB1J103J	CHIP R 10K J 1/16W		
R51 ,52			RK73GB1J473J	CHIP R 47K J 1/16W		
R53 ,54			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R56 ,57			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R64			RK73GB1J473J	CHIP R 47K J 1/16W		
R69			RK73GB1J473J	CHIP R 47K J 1/16W		
R70 ,71			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R72 ,73			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R74 ,75			RK73GB1J103J	CHIP R 10K J 1/16W		
R76 ,77			RK73GB1J102J	CHIP R 1.0K J 1/16W	KP1K1	
R76 ,77			RK73GB1J102J	CHIP R 1.0K J 1/16W	P2	
R78 ,79			RK73GB1J104J	CHIP R 100K J 1/16W		
R80 -87			RK73GB1J473J	CHIP R 47K J 1/16W		
R88			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R89			RK73GB1J101J	CHIP R 100 J 1/16W		
R90			RK73GB1J104J	CHIP R 100K J 1/16W		
R91 -96			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R97			RK73GB1J2R2J	CHIP R 2.2 J 1/16W		
R98			RD14NB2E471J	RD 470 J 1/4W	KP1K1	
R98			RD14NB2E471J	RD 470 J 1/4W	P2	
R99			RK73GB1J101J	CHIP R 100 J 1/16W		
R100			RK73GB1J102J	CHIP R 1.0K J 1/16W	KP1K1	
R100			RK73GB1J102J	CHIP R 1.0K J 1/16W	P2	
R101			RK73GB1J103J	CHIP R 10K J 1/16W	K1P2Y1	
R101			RK73GB1J103J	CHIP R 10K J 1/16W	M1X1V	
R101			RK73GB1J332J	CHIP R 3.3K J 1/16W	E1E2	
R102			RK73GB1J103J	CHIP R 10K J 1/16W	KP1	
R102			RK73GB1J182J	CHIP R 1.8K J 1/16W	K1P2	
R102			RK73GB1J822J	CHIP R 8.2K J 1/16W	E1E2	
R103			RK73GB1J103J	CHIP R 10K J 1/16W	V	
R103			RK73GB1J103J	CHIP R 10K J 1/16W	Y1M1X1	
R103			RK73GB1J222J	CHIP R 2.2K J 1/16W	E1E2	
R103			RK73GB1J622J	CHIP R 6.2K J 1/16W	KP1K1	
R103			RK73GB1J622J	CHIP R 6.2K J 1/16W	P2	
R104			RK73GB1J472J	CHIP R 4.7K J 1/16W	KP1K1	
R104			RK73GB1J472J	CHIP R 4.7K J 1/16W	P2	
R104			RK73GB1J822J	CHIP R 8.2K J 1/16W	E1E2	
R105			RK73GB1J473J	CHIP R 47K J 1/16W	Y1M1V	
R107			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R108			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R109			RD14NB2E101J	RD 100 J 1/4W		
R110			RD14NB2E560J	RD 56 J 1/4W		
R111,112			RD14NB2E4R7J	RD 4.7 J 1/4W		
R113			RK73GB1J332J	CHIP R 3.3K J 1/16W		

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R114			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R115			RD14NB2E122J	RD 1.2K J 1/4W		
R116			RK73GB1J683J	CHIP R 68K J 1/16W		
R117			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R118			RK73GB1J683J	CHIP R 68K J 1/16W		
R119			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R120			RK73GB1J683J	CHIP R 68K J 1/16W		
R121			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R122			RK73GB1J683J	CHIP R 68K J 1/16W		
R123			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R124			RK73GB1J683J	CHIP R 68K J 1/16W		
R125			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R126			RK73GB1J103J	CHIP R 10K J 1/16W		
R127			RD14NB2E100J	RD 10 J 1/4W		
R128			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R130-132			RK73GB1J101J	CHIP R 100 J 1/16W		
R133			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R134			RK73GB1J473J	CHIP R 47K J 1/16W		
R135,136			RK73GB1J101J	CHIP R 100 J 1/16W		
R137,138			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R139			RK73GB1J101J	CHIP R 100 J 1/16W		
R140,141			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R142			RK73GB1J101J	CHIP R 100 J 1/16W	E1Y1E2	
R150-161			RK73GB1J101J	CHIP R 100 J 1/16W		
R170			RK73GB1J103J	CHIP R 10K J 1/16W	E1E2	
R171-173			RK73GB1J101J	CHIP R 100 J 1/16W	KP1K1	
R171-173			RK73GB1J101J	CHIP R 100 J 1/16W	P2E1E2	
R174,175			RK73GB1J101J	CHIP R 100 J 1/16W		
R176-178			RK73GB1J101J	CHIP R 100 J 1/16W	E1E2Y1	
R179,180			RK73GB1J101J	CHIP R 100 J 1/16W		
R181-192			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R197			RD14NB2E560J	RD 56 J 1/4W		
R198			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R199			RK73GB1J101J	CHIP R 100 J 1/16W		
R200			RK73GB1J221J	CHIP R 220 J 1/16W		
R201			RK73GB1J101J	CHIP R 100 J 1/16W		
R202,203			RK73GB1J103J	CHIP R 10K J 1/16W		
R204-208			RK73GB1J101J	CHIP R 100 J 1/16W		
R209			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R212,213			RK73GB1J102J	CHIP R 1.0K J 1/16W	KP1K1	
R212,213			RK73GB1J102J	CHIP R 1.0K J 1/16W	P2	
R214,215			RK73GB1J104J	CHIP R 100K J 1/16W		
R216			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R223,224			RK73GB1J103J	CHIP R 10K J 1/16W		
R229			RK73GB1J101J	CHIP R 100 J 1/16W		
R230			RK73GB1J220J	CHIP R 22 J 1/16W	E1E2	
R231,232			RK73GB1J102J	CHIP R 1.0K J 1/16W	E1E2	
R233			RK73GB1J103J	CHIP R 10K J 1/16W	E1E2	
R234			RK73GB1J221J	CHIP R 220 J 1/16W	E1E2	
R235,236			RK73GB1J105J	CHIP R 1.0M J 1/16W	E1E2	
R251-256			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R257			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R258,259			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R264-266			RK73GB1J103J	CHIP R 10K J 1/16W		
R301-303			RK73GB1J391J	CHIP R 390 J 1/16W		

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R304-306 R307,308 R309 R310 R311			RK73GB1J101J RK73GB1J222J RK73GB1J474J RK73GB1J163J RK73GB1J153J	CHIP R 100 J 1/16W CHIP R 2.2K J 1/16W CHIP R 470K J 1/16W CHIP R 16K J 1/16W CHIP R 15K J 1/16W		
R312 R313-315 R316 R317 R318			RK73GB1J470J RK73GB1J2R2J RK73GB1J103J RK73GB1J472J RK73GB1J104J	CHIP R 47 J 1/16W CHIP R 2.2 J 1/16W CHIP R 10K J 1/16W CHIP R 4.7K J 1/16W CHIP R 100K J 1/16W		
R321,322 R324 R325 R326,327 R329			RK73GB1J471J RK73GB1J471J RK73GB1J102J RK73GB1J2R2J RK73GB1J102J	CHIP R 470 J 1/16W CHIP R 470 J 1/16W CHIP R 1.0K J 1/16W CHIP R 2.2 J 1/16W CHIP R 1.0K J 1/16W		
R330 R331 R332 R333 R334			RK73GB1J471J RD14NB2E332J RK73GB1J221J RD14NB2E2R2J RK73GB1J101J	CHIP R 470 J 1/16W RD 3.3K J 1/4W CHIP R 220 J 1/16W RD 2.2 J 1/4W CHIP R 100 J 1/16W		
R341-346 R350-361 R370-372 R400 R401,402			RD14NB2E1R0J RK73GB1J473J RK73GB1J4R7J RK73GB1J473J RK73GB1J101J	RD 1 J 1/4W CHIP R 47K J 1/16W CHIP R 4.7 J 1/16W CHIP R 47K J 1/16W CHIP R 100 J 1/16W		
R403 R410,411 R501 R502 R503			RK73GB1J102J RD14NB2E4R7J RK73GB1J104J RK73FB2A750J RK73GB1J104J	CHIP R 1.0K J 1/16W RD 4.7 J 1/4W CHIP R 100K J 1/16W CHIP R 75 J 1/10W CHIP R 100K J 1/16W		
R504,505 R506 R507 R508 R509			RK73FB2A750J RK73FB2A750J RK73FB2A750J RK73GB1J104J RK73FB2A680J	CHIP R 75 J 1/10W CHIP R 75 J 1/10W CHIP R 75 J 1/10W CHIP R 100K J 1/16W CHIP R 68 J 1/10W	K1P2	
R510 R511 R512 R513 R514,515			RK73GB1J104J RK73FB2A680J RK73GB1J104J RK73FB2A680J RK73GB1J103J	CHIP R 100K J 1/16W CHIP R 68 J 1/10W CHIP R 100K J 1/16W CHIP R 68 J 1/10W CHIP R 10K J 1/16W		
R516 R529,530 R531-533 R536 R539			RD14NB2E4R7J RK73GB1J473J RK73GB1J1R0J RK73FB2A680J RK73GB1J103J	RD 4.7 J 1/4W CHIP R 47K J 1/16W CHIP R 1 J 1/16W CHIP R 68 J 1/10W CHIP R 10K J 1/16W		
R540 R541 R542 R543 R551-553			RK73GB1J473J RK73GB1J104J RK73GB1J102J RK73GB1J473J RK73GB1J101J	CHIP R 47K J 1/16W CHIP R 100K J 1/16W CHIP R 1.0K J 1/16W CHIP R 47K J 1/16W CHIP R 100 J 1/16W		
R554 R555,556 R557 R558-560 R563			RK73GB1J101J RK73GB1J101J RK73GB1J101J RK73GB1J101J RK73GB1J104J	CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100K J 1/16W	K1P2 K1P2	

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R601,602 R603 R604,605 R606,607 R608			RK73GB1J104J RK73FB2A750J RK73GB1J104J RK73FB2A750J RK73FB2A750J	CHIP R 100K J 1/16W CHIP R 75 J 1/10W CHIP R 100K J 1/16W CHIP R 75 J 1/10W CHIP R 75 J 1/10W	K1P2	
R609 R610,611 R612-614 R615 R616			RK73FB2A750J RK73GB1J104J RK73FB2A750J RK73FB2A750J RK73FB2A750J	CHIP R 75 J 1/10W CHIP R 100K J 1/16W CHIP R 75 J 1/10W CHIP R 75 J 1/10W CHIP R 75 J 1/10W	K1P2	
R617 R618,619 R620,621 R622,623 R624			RK73GB1J104J RK73FB2A680J RK73GB1J104J RK73FB2A680J RK73GB1J104J	CHIP R 100K J 1/16W CHIP R 68 J 1/10W CHIP R 100K J 1/16W CHIP R 68 J 1/10W CHIP R 100K J 1/16W		
R625,626 R627-630 R631,632 R633,634 R635			RK73FB2A680J RK73GB1J103J RK73GB1J473J RK73GB1J1R0J RK73GB1J1R0J	CHIP R 68 J 1/10W CHIP R 10K J 1/16W CHIP R 47K J 1/16W CHIP R 1 J 1/16W CHIP R 1 J 1/16W	KP1E1 K1P2	
R636 R637 R638 R639,640 R641,642			RK73GB1J103J RK73GB1J273J RK73GB1J332J RK73GB1J102J RK73GB1J1R0J	CHIP R 10K J 1/16W CHIP R 27K J 1/16W CHIP R 3.3K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1 J 1/16W	K1P2 K1P2 K1P2	
R643,644 R645 R647 R648 R649,650			RK73GB1J151J RK73GB1J473J RK73GB1J103J RK73GB1J223J RK73GB1J103J	CHIP R 150 J 1/16W CHIP R 47K J 1/16W CHIP R 10K J 1/16W CHIP R 22K J 1/16W CHIP R 10K J 1/16W	K1P2 K1P2 K1P2 K1P2	
R651 R652 R653 R654 R655			RK73GB1J562J RK73GB1J104J RK73GB1J101J RK73GB1J474J RK73GB1J103J	CHIP R 5.6K J 1/16W CHIP R 100K J 1/16W CHIP R 100 J 1/16W CHIP R 470K J 1/16W CHIP R 10K J 1/16W	K1P2 K1P2 K1P2 K1P2 K1P2	
R659-662 R663 R665 R666 R667			RK73GB1J911J RK73GB1J183J RK73GB1J103J RK73GB1J273J RK73GB1J332J	CHIP R 910 J 1/16W CHIP R 18K J 1/16W CHIP R 10K J 1/16W CHIP R 27K J 1/16W CHIP R 3.3K J 1/16W	K1P2 K1P2 K1P2 K1P2 K1P2	
R668 R669,670 R674 R687 R701-706			RK73GB1J104J RK73GB1J471J RK73GB1J1R0J RK73GB1J1R0J RK73FB2A750J	CHIP R 100K J 1/16W CHIP R 470 J 1/16W CHIP R 1 J 1/16W CHIP R 1 J 1/16W CHIP R 75 J 1/10W	K1P2 K1P2 E2V	
R701-706 R701-706 R707-709 R707-709 R707-709			RK73FB2A750J RK73FB2A750J RK73GB1J104J RK73GB1J104J RK73GB1J104J	CHIP R 75 J 1/10W CHIP R 75 J 1/10W CHIP R 100K J 1/16W CHIP R 100K J 1/16W CHIP R 100K J 1/16W	KP1E1 Y1M1X1 E2V KP1E1 Y1M1X1	
R710-712 R710-712 R710-712 R713-715 R713-715			RK73FB2A390J RK73FB2A390J RK73FB2A390J RK73GB1J1R0J RK73GB1J1R0J	CHIP R 39 J 1/10W CHIP R 39 J 1/10W CHIP R 39 J 1/10W CHIP R 1 J 1/16W CHIP R 1 J 1/16W	E2V KP1E1 Y1M1X1 E2V KP1E1	

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R713-715 R768-770 R768-770 R768-770 R780			RK73GB1J1R0J RK73GB1J102J RK73GB1J102J RK73GB1J102J RK73GB1J473J	CHIP R CHIP R CHIP R CHIP R CHIP R	1 1.0K 1.0K 1.0K 47K	J J J J J	1/16W 1/16W 1/16W 1/16W 1/16W	Y1M1X1 E2V KP1E1 Y1M1X1 E2	
R780 R780 R784-786 R784-786 R784-786			RK73GB1J473J RK73GB1J473J RK73GB1J104J RK73GB1J104J RK73GB1J104J	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 47K 100K 100K 100K	J J J J J	1/16W 1/16W 1/16W 1/16W 1/16W	KP1E1 Y1M1X1 E2V KP1E1 Y1M1X1	
R805-810 R805-810 R805-810 R830 R840			RK73GB1J101J RK73GB1J101J RK73GB1J101J RK73GB1J1R0J RK73GB1J1R0J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 100 100 1 1	J J J J J	1/16W 1/16W 1/16W 1/16W 1/16W	E2V KP1E1 Y1M1X1 E2V E2V	
R840 R840 R851 R851 R851	△ △ △ △ △		RK73GB1J1R0J RK73GB1J1R0J RK73GB1J1R0J RK73GB1J1R0J RK73GB1J1R0J	CHIP R CHIP R CHIP R CHIP R CHIP R	1 1 1 1 1	J J J J J	1/16W 1/16W 1/16W 1/16W 1/16W	KP1E1 Y1M1X1 E2V KP1E1 Y1M1X1	
R901-908 R901-908 R909 R909 W501,502			RK73GB1J101J RK73GB1J101J RK73GB1J220J RK73GB1J220J R92-1963-05	CHIP R CHIP R CHIP R CHIP R JUMPER WIRE	100 100 22 22 (RESISTOR TYPE)	J J J J (RESISTOR TYPE)	1/16W 1/16W 1/16W 1/16W (RESISTOR TYPE)	KP1K1 P2 KP1K1 P2	
D1 D2 D3 D4 -6 D7			U1BC44 MA111 U1BC44 MA111 DAN202U	DIODE DIODE DIODE DIODE DIODE					
D7 D8 D8 D9 D9			1SS301 DAP202U 1SS300 DAN202U 1SS301	DIODE DIODE DIODE DIODE DIODE					
D10 D10 D11 -23 D27 -29 D30			DAP202U 1SS300 MA111 U1BC44 UDZS5.6B	DIODE DIODE DIODE DIODE ZENER DIODE					
D30 D35 D35 D36 ,37 D38			UDZ5.6B DAN202U 1SS301 MA111 DAN202U	ZENER DIODE DIODE DIODE DIODE DIODE					
D38 D41 ,42 D41 ,42 D43 -45 D51	△ △ △ △ △		1SS301 DAP202U 1SS300 MA111 S1ZB20(4072)	DIODE DIODE DIODE DIODE DIODE					
D52 D52 D53 D53 D61	△ △ △ △ △	*	UDZS8.2B UDZ8.2B UDZS7.5B UDZ7.5B D4SBL20UF03	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE					

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D62 D62 D63 D71 D72	△		UDZS6.2B UDZ6.2B MA111 KBP02ML-6127 UDZ16B	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE		
D80 ,81 D80 ,81 D501 D501 D502			DA204U 1SS302 DAN202U 1SS301 DAP202U	DIODE DIODE DIODE DIODE DIODE		
D502 D503,504 D601 D601 D602			1SS300 MA111 DAN202U 1SS301 DAP202U	DIODE DIODE DIODE DIODE DIODE		
D602 D603,604 D605 D605 IC1			1SS300 MA111 DA204U 1SS302 TA78057S	DIODE DIODE DIODE DIODE ANALOGUE IC	K1P2 K1P2	
IC2 IC2 IC3 IC4 IC5		*	S-80740AL-A4 S-80840ALUP UPD784217A516 TC74HCT7007AF TC74HC164AF	IC(VOLTAGE DETECTOR) MOS-IC MI-COM IC MOS-IC IC(SHIFT REGISTER)		
IC6 IC7 IC501 IC502 IC503		*	UPD17215GT-737 LC72723M MM1140XFF BA7611AF BA7623F	MI-COM IC MOS-IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	E1E2	
IC504 IC507 IC601,602 IC603 IC604		*	BA7649AF MM1508 MM1140XFF BA7611AF BA7612F	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC		
IC605,606 IC607 IC608 IC701 IC701	△		BA7623F NJM4565M UPC29M05HB BA7613F BA7613F	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	K1P2 E2V KP1E1	
IC701 IC702,703 IC702,703 IC702,703 IC708	△ △ △ △ △		BA7613F BA7612F BA7612F BA7612F UPC29M05HB	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	Y1M1X1 E2V KP1E1 Y1M1X1 E2V	
IC708 IC708 IC901 IC901 Q1	△ △ △ △ △		UPC29M05HB UPC29M05HB MAX232NS MAX232NS 2SC4081(R,S)	ANALOGUE IC ANALOGUE IC MOS-IC MOS-IC TRANSISTOR	KP1E1 Y1M1X1 KP1K1 P2	
Q1 Q2 Q2 Q3 Q3			2SC4116(Y,GR) DTC124EUA UN5212 DTA113ZUA UN5119	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	Y1M1V Y1M1V	

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Q4			DTC143TUA	DIGITAL TRANSISTOR		
Q4			UN5216	DIGITAL TRANSISTOR		
Q5			DTA113ZUA	DIGITAL TRANSISTOR		
Q5			UN5119	DIGITAL TRANSISTOR		
Q6			DTC143TUA	DIGITAL TRANSISTOR		
Q6			UN5216	DIGITAL TRANSISTOR		
Q7			DTA113ZUA	DIGITAL TRANSISTOR		
Q7			UN5119	DIGITAL TRANSISTOR		
Q8			DTC143TUA	DIGITAL TRANSISTOR		
Q8			UN5216	DIGITAL TRANSISTOR		
Q9			DTA113ZUA	DIGITAL TRANSISTOR		
Q9			UN5119	DIGITAL TRANSISTOR		
Q10			DTC143TUA	DIGITAL TRANSISTOR		
Q10			UN5216	DIGITAL TRANSISTOR		
Q11			DTA113ZUA	DIGITAL TRANSISTOR		
Q11			UN5119	DIGITAL TRANSISTOR		
Q12			DTC143TUA	DIGITAL TRANSISTOR		
Q12			UN5216	DIGITAL TRANSISTOR		
Q13			DTA113ZUA	DIGITAL TRANSISTOR		
Q13			UN5119	DIGITAL TRANSISTOR		
Q14			DTC143TUA	DIGITAL TRANSISTOR		
Q14			UN5216	DIGITAL TRANSISTOR		
Q15			DTA143TUA	DIGITAL TRANSISTOR		
Q15			UN5116	DIGITAL TRANSISTOR		
Q16			DTC124EUA	DIGITAL TRANSISTOR		
Q16			UN5212	DIGITAL TRANSISTOR		
Q17			2SC3940A(R,S)	TRANSISTOR		
Q18			DTA143TUA	DIGITAL TRANSISTOR		
Q18			UN5116	DIGITAL TRANSISTOR		
Q19			2SC4213(B)	TRANSISTOR		
Q31 ,32			2SK246(Y,GR)	FET		
Q33 ,34			2SB1375	TRANSISTOR		
Q35			2SC4081(R,S)	TRANSISTOR		
Q35			2SC4116(Y,GR)	TRANSISTOR		
Q36			2SA1576A(R,S)	TRANSISTOR		
Q36			2SA1586(Y,GR)	TRANSISTOR		
Q37			2SC4081(R,S)	TRANSISTOR		
Q37			2SC4116(Y,GR)	TRANSISTOR		
Q38			2SA1576A(R,S)	TRANSISTOR		
Q38			2SA1586(Y,GR)	TRANSISTOR		
Q41 ,42			2SB1375	TRANSISTOR		
Q43			2SC4081(R,S)	TRANSISTOR		
Q43			2SC4116(Y,GR)	TRANSISTOR		
Q45			2SB1375	TRANSISTOR		
Q46			2SC4081(R,S)	TRANSISTOR		
Q46			2SC4116(Y,GR)	TRANSISTOR		
Q51			2SD2012	TRANSISTOR		
Q52			2SC4081(R,S)	TRANSISTOR		
Q52			2SC4116(Y,GR)	TRANSISTOR		
Q61			DTC124EUA	DIGITAL TRANSISTOR		
Q61			UN5212	DIGITAL TRANSISTOR		
Q62			DTA143TUA	DIGITAL TRANSISTOR		
Q62			UN5116	DIGITAL TRANSISTOR		
Q501,502			2SC4213(B)	TRANSISTOR		
Q504,505			DTA124EUA	DIGITAL TRANSISTOR		

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Q504,505			UN5112	DIGITAL TRANSISTOR		
Q506			DTC124EUA	DIGITAL TRANSISTOR		
Q506			UN5212	DIGITAL TRANSISTOR		
Q508,509			2SC4213(B)	TRANSISTOR		
Q601-604			2SC4213(B)	TRANSISTOR		
Q605,606			DTA124EUA	DIGITAL TRANSISTOR		
Q605,606			UN5112	DIGITAL TRANSISTOR		
Q607			DTC124EUA	DIGITAL TRANSISTOR		
Q607			UN5212	DIGITAL TRANSISTOR		
Q608,609			DTA124EUA	DIGITAL TRANSISTOR	K1P2	
Q608,609			UN5112	DIGITAL TRANSISTOR	K1P2	
Q610,611			DTC124EUA	DIGITAL TRANSISTOR	K1P2	
Q610,611			UN5212	DIGITAL TRANSISTOR	K1P2	
Q613,614			2SC4213(B)	TRANSISTOR		
Q715-717			2SC4213(B)	TRANSISTOR	E2V	
Q715-717			2SC4213(B)	TRANSISTOR	KP1E1	
Q715-717			2SC4213(B)	TRANSISTOR	Y1M1X1	
DISPLAY UNIT (X25-641/642X-XX)						
D3 -10			B30-2532-05	LED(INFRARED)		
D11			B30-2548-05	LED(GRN5,HI BRT)	KP1K1	
D11			B30-2548-05	LED(GRN5,HI BRT)	M1X1E2	
D11			B30-2548-05	LED(GRN5,HI BRT)	P2E1Y1	
D11			B30-2571-05	LED(GRN5,HI BRT)	V	
D12			B30-2430-05	LED(RED)		
D15 -18			B30-2571-05	LED(RED5,HI BRT)	V	
D15 -18			B30-2573-05	LED(RED5,HI BRT)	KP1K1	
D15 -18			B30-2573-05	LED(RED5,HI BRT)	M1X1E2	
D15 -18			B30-2573-05	LED(RED5,HI BRT)	P2E1Y1	
D19 -23			B30-2430-05	LED(RED)		
D24 ,25			B30-2571-05	LED(RED5,HI BRT)	V	
D24 ,25			B30-2573-05	LED(RED5,HI BRT)	KP1K1	
D24 ,25			B30-2573-05	LED(RED5,HI BRT)	M1X1E2	
D24 ,25			B30-2573-05	LED(RED5,HI BRT)	P2E1Y1	
D26			B30-2597-05	LED(RED HI-BRIGHT)		
D30 ,31			B30-2430-05	LED(RED)		
C1 ,2			CE04RW1C101M	ELECTRO	100UF	16WV
C3			CC73GCH1H102J	CHIP C	1000PF	J
C4			CC73GCH1H101J	CHIP C	100PF	J
C5			CE04KW1H100M	ELECTRO	10UF	50WV
C6			CK73GB1H103K	CHIP C	0.010UF	K
C7 -22			CC73GCH1H221J	CHIP C	220PF	J
C23			CE04KW1H100M	ELECTRO	10UF	50WV
C24			CC73GCH1H471J	CHIP C	470PF	J
C25 -27			CC73GCH1H101J	CHIP C	100PF	J
C28			CE04KW1E470M	ELECTRO	47UF	25WV
C31			CE04KW1H101M	ELECTRO	100UF	50WV
C33			CK73GF1E104Z	CHIP C	0.10UF	Z
C40			CQ93FMG1H102J	MYLAR	1000PF	J
C41 -43			CQ93FMG1H472J	MYLAR	4700PF	J
C44 ,45			CC73GCH1H221J	CHIP C	220PF	J
C78 -80			CE04KW1E470M	ELECTRO	47UF	25WV
C81 -85			CE04KW1E470M	ELECTRO	47UF	25WV
C86			CK73GF1E104Z	CHIP C	0.10UF	Z
C88			CC73GCH1H270J	CHIP C	27PF	J

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C91 -93			CC73GCH1H101J	CHIP C	100PF	J
C94			CK73GF1E104Z	CHIP C	0.10UF	Z
C95 -97			CC73GCH1H101J	CHIP C	100PF	J
C105			CC73GCH1H101J	CHIP C	100PF	J
C165,166			CK73FF1C105Z	CHIP C	1.0UF	Z
C170			CK73GB1H103K	CHIP C	0.010UF	K
C301,302			CE04KW1H220M	ELECTRO	22UF	50WV
C303,304			CC73GCH1H101J	CHIP C	100PF	J
C311,312			CE04KW1H220M	ELECTRO	22UF	50WV
C313,314			CC73GCH1H101J	CHIP C	100PF	J
C321,322			CE04KW1H220M	ELECTRO	22UF	50WV
C323,324			CC73GCH1H101J	CHIP C	100PF	J
C331,332			CE04KW1H220M	ELECTRO	22UF	50WV
C333,334			CC73GCH1H101J	CHIP C	100PF	J
C341,342			CE04KW1H220M	ELECTRO	22UF	50WV
C343,344			CC73GCH1H101J	CHIP C	100PF	J
C380			CC73GCH1H101J	CHIP C	100PF	J
C401,402			CC73GCH1H221J	CHIP C	220PF	J
C404,405			CC73GCH1H221J	CHIP C	220PF	J
C406			CC73GCH1H101J	CHIP C	100PF	J
C406			CC73GCH1H101J	CHIP C	100PF	J
C407			CK73GF1E104Z	CHIP C	0.10UF	Z
C407			CK73GF1E104Z	CHIP C	0.10UF	Z
C407			CK73GF1E104Z	CHIP C	0.10UF	Z
C410			CE04KW1A101M	ELECTRO	100UF	10WV
C410			CE04KW1A101M	ELECTRO	100UF	10WV
C415			CC73GCH1H101J	CHIP C	100PF	J
C415			CC73GCH1H101J	CHIP C	100PF	J
C415			CC73GCH1H101J	CHIP C	100PF	J
C416			CC73GCH1H331J	CHIP C	330PF	J
C416			CC73GCH1H331J	CHIP C	330PF	J
C416			CC73GCH1H331J	CHIP C	330PF	J
C417			CC73GCH1H102J	CHIP C	1000PF	J
C417			CC73GCH1H102J	CHIP C	1000PF	J
C417			CC73GCH1H102J	CHIP C	1000PF	J
C419-421			CC73GCH1H101J	CHIP C	100PF	J
C419-421			CC73GCH1H101J	CHIP C	100PF	J
C419-421			CC73GCH1H101J	CHIP C	100PF	J
C430,431			CK73GF1E104Z	CHIP C	0.10UF	Z
C430,431			CK73GF1E104Z	CHIP C	0.10UF	Z
CN2		*	E40-8794-05	PIN ASSY		
CN4		*	E40-9823-05	SOCKET FOR PIN ASSY		
CN5		*	E40-8622-05	PIN ASSY		
CN5		*	E40-8622-05	PIN ASSY		
CN101		*	E40-8257-05	FLAT CABLE CONNECTOR		
CN102			E40-8254-05	FLAT CABLE CONNECTOR		
CN103			E40-8531-05	FLAT CABLE CONNECTOR		
CN103			E40-8531-05	FLAT CABLE CONNECTOR		
J1		*	E70-0133-15	SCREW TERMINAL BOARD		
J5		*	E63-1121-05	PIN JACK		
J6			E56-0026-05	CYLINDRICAL RECEPTACLE		
J7			E11-0190-05	PHONE JACK (3P)		
J101		*	E63-1173-05	PIN JACK		
J101		*	E63-1173-05	PIN JACK		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
J101		*	E63-1173-05	PIN JACK		Y1M1X1
J101		*	E63-1176-05	PIN JACK		K1P2
J102		*	E63-1174-05	PIN JACK		E2V
J102		*	E63-1174-05	PIN JACK		KP1E1
J102		*	E63-1174-05	PIN JACK		Y1M1X1
J102		*	E63-1177-05	PIN JACK		K1P2
J103		*	E63-1178-05	PIN JACK		E2V
J103		*	E63-1178-05	PIN JACK		KP1E1
J103		*	E63-1178-05	PIN JACK		Y1M1X1
J103		*	E63-1179-05	PIN JACK		K1P2
J201			E11-0907-05	MINIATURE PHONE JACK(2.5MM 1P)		
J202			E11-0347-05	MINIATURE PHONE JACK(2P)		
J203,204			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)		E2
J203,204			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)		KP1K1
J203,204			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)		P2E1Y1
J207,208			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)		E2
J207,208			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)		KP1K1
J207,208			E11-0905-05	MINIATURE PHONE JACK(3.5MM 1P)		P2E1Y1
J209			E11-0291-05	MINIATURE PHONE JACK(2P)		E2
J209			E11-0291-05	MINIATURE PHONE JACK(2P)		KP1K1
J209			E11-0291-05	MINIATURE PHONE JACK(2P)		P2E1Y1
E1			J19-6056-04	HOLDER		
E3 ,4			J11-0809-05	WIRE CLAMPER		
L401			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		E2
L401			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		KP1K1
L401			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		P2E1Y1
L403,404			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		E2
L403,404			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		KP1K1
L403,404			L40-1011-17	SMALL FIXED INDUCTOR(100UH,K)		P2E1Y1
X1			L78-0284-05	RESONATOR (5MHZ)		
Δ R1			RD14NB2E4R7J	RD	4.7	J 1/4W
R4 ,5			RS14KB3A3R9J	FL-PROOF RS	3.9	J 1W
R6			RK73GB1J151J	CHIP R	150	J 1/16W
R6			RK73GB1J151J	CHIP R	150	J 1/16W
R6			RK73GB1J151J	CHIP R	150	J 1/16W
R6			RK73GB1J221J	CHIP R	220	J 1/16W
R7			RK73GB1J301J	CHIP R	300	J 1/16W
Δ R9			RD14NB2E100J	RD	10	J 1/4W
R10 -12			RK73GB1J473J	CHIP R	47K	J 1/16W
R14 -16			RK73GB1J473J	CHIP R	47K	J 1/16W
R17 -67			RK73GB1J474J	CHIP R	470K	J 1/16W
R68			RK73GB1J332J	CHIP R	3.3K	J 1/16W
R69 ,70			RK73GB1J473J	CHIP R	47K	J 1/16W
R71			RK73GB1J105J	CHIP R	1.0M	J 1/16W
R72 -74			RK73GB1J473J	CHIP R	47K	J 1/16W
R75			RK73GB1J333J	CHIP R	33K	J 1/16W
Δ R79			RS14KB3A390J	FL-PROOF RS	39	J 1W
R81			RK73GB1J100J	CHIP R	10	J 1/16W
R82 -85			RK73GB1J221J	CHIP R	220	J 1/16W
R82 -85			RK73GB1J271J	CHIP R	270	J 1/16W
R82 -85			RK73GB1J271J	CHIP R	270	J 1/16W
R82 -85			RK73GB1J271J	CHIP R	270	J 1/16W
R86 -90			RK73GB1J301J	CHIP R	300	J 1/16W
R91 ,92			RK73GB1J221J	CHIP R	220	J 1/16W
R91 ,92			RK73GB1J271J	CHIP R	270	J 1/16W

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R91 ,92 R91 ,92 R93 -106 R112-114 R115			RK73GB1J271J RK73GB1J271J RK73GB1J103J RK73GB1J101J RK73GB1J473J	CHIP R 270 J 1/16W CHIP R 270 J 1/16W CHIP R 10K J 1/16W CHIP R 100 J 1/16W CHIP R 47K J 1/16W	M1X1E2 P2E1Y1	
R118 R120 R121 R122 R123			RD14NB2E101J RD14NB2E330J RK73GB1J102J RK73GB1J101J RK73GB1J103J	RD 100 J 1/4W RD 33 J 1/4W CHIP R 1.0K J 1/16W CHIP R 100 J 1/16W CHIP R 10K J 1/16W		
R124 R126,127 R191-193 R194-198 R199			RK73GB1J101J RK73GB1J2R2J RD14NB2E100J RD14NB2E100J RK73GB1J100J	CHIP R 100 J 1/16W CHIP R 2.2 J 1/16W RD 10 J 1/4W RD 10 J 1/4W CHIP R 10 J 1/16W	K1P2	
R200 R201 R205 R211 ,212 R213,214			RK73GB1J101J RK73GB1J102J RK73GB1J681J RK73GB1J223J RK73GB1J101J	CHIP R 100 J 1/16W CHIP R 1.0K J 1/16W CHIP R 680 J 1/16W CHIP R 22K J 1/16W CHIP R 100 J 1/16W		
R215,216 R217 R218 R219-225 R232			RK73GB1J750J RK73GB1J474J RK73GB1J750J RK73GB1J513J RK73GB1J101J	CHIP R 75 J 1/16W CHIP R 470K J 1/16W CHIP R 75 J 1/16W CHIP R 51K J 1/16W CHIP R 100 J 1/16W		
R249 R298,299 R301,302 R305,306 R307,308			RK73GB1J103J RK73GB1J301J RK73GB1J224J RK73GB1J221J RK73GB1J470J	CHIP R 10K J 1/16W CHIP R 300 J 1/16W CHIP R 220K J 1/16W CHIP R 220 J 1/16W CHIP R 47 J 1/16W		
R311,312 R315,316 R317,318 R321,322 R325,326			RK73GB1J224J RK73GB1J221J RK73GB1J470J RK73GB1J224J RK73GB1J221J	CHIP R 220K J 1/16W CHIP R 220 J 1/16W CHIP R 47 J 1/16W CHIP R 220K J 1/16W CHIP R 220 J 1/16W		
R327,328 R331,332 R335,336 R337,338 R341,342			RK73GB1J470J RK73GB1J224J RK73GB1J221J RK73GB1J470J RK73GB1J224J	CHIP R 47 J 1/16W CHIP R 220K J 1/16W CHIP R 220 J 1/16W CHIP R 47 J 1/16W CHIP R 220K J 1/16W		
R345,346 R347,348 R351-370 R380 R401			RK73GB1J221J RK73GB1J470J RK73GB1J222J RK73GB1J104J RD14NB2E471J	CHIP R 220 J 1/16W CHIP R 47 J 1/16W CHIP R 2.2K J 1/16W CHIP R 100K J 1/16W RD 470 J 1/4W	E2	
R401 R401 R402 R402 R402			RD14NB2E471J RD14NB2E471J RK73GB1J102J RK73GB1J102J RK73GB1J102J	RD 470 J 1/4W RD 470 J 1/4W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W	KP1K1 P2E1Y1 E2 KP1K1 P2E1Y1	
R403 R403 R403 R404 R404			RK73GB1J473J RK73GB1J473J RK73GB1J473J RK73GB1J102J RK73GB1J102J	CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W	E2 KP1K1 P2E1Y1 E2 KP1K1	
R404			RK73GB1J102J	CHIP R 1.0K J 1/16W	P2E1Y1	

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R424 R424 R424 R425 R425			RD14NB2E101J RD14NB2E101J RD14NB2E101J RK73GB1J102J RK73GB1J102J	RD 100 J 1/4W RD 100 J 1/4W RD 100 J 1/4W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W	E2 KP1K1 P2E1Y1 E2 KP1K1	
R425 R426 R426 R426 R427			RK73GB1J102J RK73GB1J103J RK73GB1J103J RK73GB1J103J RK73GB1J472J	CHIP R 1.0K J 1/16W CHIP R 10K J 1/16W CHIP R 10K J 1/16W CHIP R 10K J 1/16W CHIP R 4.7K J 1/16W	P2E1Y1 E2 KP1K1 P2E1Y1 E2	
R427 R427 R428,429 R428,429 R428,429			RK73GB1J472J RK73GB1J472J RK73GB1J102J RK73GB1J102J RK73GB1J102J	CHIP R 4.7K J 1/16W CHIP R 4.7K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W	KP1K1 P2E1Y1 E2 KP1K1 P2E1Y1	
R430 R430 R430 R431,432 R431,432			RK73GB1J223J RK73GB1J223J RK73GB1J223J RD14NB2E471J RD14NB2E471J	CHIP R 22K J 1/16W CHIP R 22K J 1/16W CHIP R 22K J 1/16W RD 470 J 1/4W RD 470 J 1/4W	E2 KP1K1 P2E1Y1 E2 KP1K1	
R431,432 R433 R433 R433 R434			RD14NB2E471J RK73GB1J101J RK73GB1J101J RK73GB1J101J RK73GB1J223J	RD 470 J 1/4W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 22K J 1/16W	P2E1Y1 E2 KP1K1 P2E1Y1 E2	
R434 R434 R435 R435 R435			RK73GB1J223J RK73GB1J223J RK73GB1J102J RK73GB1J102J RK73GB1J102J	CHIP R 22K J 1/16W CHIP R 22K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W	KP1K1 P2E1Y1 E2 KP1K1 P2E1Y1	
R436 R436 R436 R437 R437			RK73GB1J272J RK73GB1J272J RK73GB1J272J RK73GB1J222J RK73GB1J222J	CHIP R 2.7K J 1/16W CHIP R 2.7K J 1/16W CHIP R 2.7K J 1/16W CHIP R 2.2K J 1/16W CHIP R 2.2K J 1/16W	E2 KP1K1 P2E1Y1 E2 KP1K1	
R437 R438 R438 R438 R439			RK73GB1J222J RK73GB1J102J RK73GB1J102J RK73GB1J102J RD14NB2E471J	CHIP R 2.2K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W RD 470 J 1/4W	P2E1Y1 E2 KP1K1 P2E1Y1 E2	
R439 R439 R440,441 R440,441 R440,441			RD14NB2E471J RD14NB2E471J RK73GB1J473J RK73GB1J473J RK73GB1J473J	RD 470 J 1/4W RD 470 J 1/4W CHIP R 47K J 1/16W CHIP R 47K J 1/16W CHIP R 47K J 1/16W	KP1K1 P2E1Y1 E2 KP1K1 P2E1Y1	
R444 R444 R444 R445 R445			RK73GB1J472J RK73GB1J472J RK73GB1J472J RK73GB1J102J RK73GB1J102J	CHIP R 4.7K J 1/16W CHIP R 4.7K J 1/16W CHIP R 4.7K J 1/16W CHIP R 1.0K J 1/16W CHIP R 1.0K J 1/16W	E2 KP1K1 P2E1Y1 E2 KP1K1	
R445 R449 R450 R450 R450			RK73GB1J102J RK73GB1J180J RD14NB2E101J RD14NB2E101J RD14NB2E101J	CHIP R 1.0K J 1/16W CHIP R 18 J 1/16W RD 100 J 1/4W RD 100 J 1/4W RD 100 J 1/4W	P2E1Y1 E2 KP1K1 P2E1Y1	

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PARTS LIST

KRF-X7775D/X7775D-S/VR-5080/5090

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
W202			R92-0679-05	CHIP R 0 OHM		
W203			R92-0670-05	CHIP R 0 OHM		
W204			R92-0679-05	CHIP R 0 OHM		
W206			R92-0670-05	CHIP R 0 OHM		
W207			R92-0679-05	CHIP R 0 OHM		
W208			R92-0670-05	CHIP R 0 OHM		
W209			R92-0679-05	CHIP R 0 OHM		
W210			R92-0670-05	CHIP R 0 OHM		
W213			R92-0670-05	CHIP R 0 OHM		
W216,217			R92-0670-05	CHIP R 0 OHM		
W219			R92-0679-05	CHIP R 0 OHM		
W220			R92-0670-05	CHIP R 0 OHM		
S1 -17			S70-0031-05	TACT SWITCH		
S20			S68-0088-05	PUSH SWITCH (POWER TYPE)	E1Y1M1	
S20			S68-0088-05	PUSH SWITCH (POWER TYPE)	X1E2V	
S19			T99-0602-05	ROTARY ENCODER		
D1 ,2			MTZJ3.3(B)	ZENER DIODE		
D1 ,2			RD3.3ES(B2)	ZENER DIODE		
D13			MTZJ5.1(B)	ZENER DIODE		
D13			RD5.1ES(B2)	ZENER DIODE		
D14			MTZJ5.6(B)	ZENER DIODE		
D14			RD5.6ES(B2)	ZENER DIODE		
D27 ,28			DA204U	DIODE		
D27 ,28			1SS302	DIODE	E2	
D403			DA204U	DIODE	KP1K1	
D403			DA204U	DIODE		
D403			1SS302	DIODE	P2E1Y1	
D403			1SS302	DIODE	E2	
D403			1SS302	DIODE	KP1K1	
D408			DA204U	DIODE	P2E1Y1	
D408			DA204U	DIODE	E2	
D408			1SS302	DIODE	KP1K1	
D408			1SS302	DIODE	P2E1Y1	
D410			HSS104A	DIODE	E2	
D410			HSS104A	DIODE	KP1K1	
D410			HSS104A	DIODE	P2E1Y1	
D410			1SS133	DIODE	E2	
D410			1SS133	DIODE	KP1K1	
D410			1SS133	DIODE	P2E1Y1	
D411			DA204U	DIODE	E2	
D411			DA204U	DIODE	KP1K1	
D411			DA204U	DIODE	P2E1Y1	
D411			1SS302	DIODE	E2	
D411			1SS302	DIODE	KP1K1	
D411			1SS302	DIODE	P2E1Y1	
D412,413			HSS104A	DIODE	E2	
D412,413			HSS104A	DIODE	KP1K1	
D412,413			HSS104A	DIODE	P2E1Y1	
D412,413			1SS133	DIODE	E2	
D412,413			1SS133	DIODE	KP1K1	
D412,413			1SS133	DIODE	P2E1Y1	
D414			HSS104A	DIODE	E1Y1E2	

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D414			1SS133	DIODE	E1Y1E2	
ED1			16-MT-62GK	FLUORESCENT INDICATOR TUBE		
IC1			UPD780204-038	MI-COM IC		
IC11			TC74HC151AF	MOS-IC	E2	
IC401			TC4W53FU	MOS-IC		
IC401			TC4W53FU	MOS-IC	KP1K1	
IC401			TC4W53FU	MOS-IC	P2E1Y1	
Q1 -3			2SC3940A(R,S)	TRANSISTOR		
Q4			DTC124EUA	DIGITAL TRANSISTOR		
Q4			UN5212	DIGITAL TRANSISTOR		
Q5 ,6			DTA124EUA	DIGITAL TRANSISTOR		
Q5 ,6			UN5112	DIGITAL TRANSISTOR		
Q7 -16			DTC124EUA	DIGITAL TRANSISTOR		
Q7 -16			UN5212	DIGITAL TRANSISTOR		
Q20			DTA124EUA	DIGITAL TRANSISTOR		
Q20			UN5112	DIGITAL TRANSISTOR		
Q21			DTC124EUA	DIGITAL TRANSISTOR		
Q21			UN5212	DIGITAL TRANSISTOR		
Q301-320			2SC2878(B)	TRANSISTOR	E2	
Q401			2SC4081(R,S)	TRANSISTOR		
Q401			2SC4081(R,S)	TRANSISTOR	KP1K1	
Q401			2SC4116(Y,GR)	TRANSISTOR	P2E1Y1	
Q401			2SC4116(Y,GR)	TRANSISTOR	E2	
Q401			2SC4116(Y,GR)	TRANSISTOR	KP1K1	
Q401			2SC4116(Y,GR)	TRANSISTOR	P2E1Y1	
Q402			DTC124EUA	DIGITAL TRANSISTOR	E2	
Q402			DTC124EUA	DIGITAL TRANSISTOR	KP1K1	
Q402			DTC124EUA	DIGITAL TRANSISTOR	P2E1Y1	
Q402			UN5212	DIGITAL TRANSISTOR	E2	
Q402			UN5212	DIGITAL TRANSISTOR	KP1K1	
Q402			UN5212	DIGITAL TRANSISTOR	P2E1Y1	
Q412			2SA1576A(R,S)	TRANSISTOR	E2	
Q412			2SA1576A(R,S)	TRANSISTOR	KP1K1	
Q412			2SA1576A(R,S)	TRANSISTOR	P2E1Y1	
Q412			2SA1586(Y,GR)	TRANSISTOR	E2	
Q412			2SA1586(Y,GR)	TRANSISTOR	KP1K1	
Q412			2SA1586(Y,GR)	TRANSISTOR	P2E1Y1	
Q413			DTC124EUA	DIGITAL TRANSISTOR	E2	
Q413			DTC124EUA	DIGITAL TRANSISTOR	KP1K1	
Q413			DTC124EUA	DIGITAL TRANSISTOR	P2E1Y1	
Q413			UN5212	DIGITAL TRANSISTOR	E2	
Q413			UN5212	DIGITAL TRANSISTOR	KP1K1	
Q413			UN5212	DIGITAL TRANSISTOR	P2E1Y1	
Q414			2SC4081(R,S)	TRANSISTOR	E2	
Q414			2SC4081(R,S)	TRANSISTOR	KP1K1	
Q414			2SC4081(R,S)	TRANSISTOR	P2E1Y1	
Q414			2SC4116(Y,GR)	TRANSISTOR	E2	
Q414			2SC4116(Y,GR)	TRANSISTOR	KP1K1	
Q414			2SC4116(Y,GR)	TRANSISTOR	P2E1Y1	
Q415			2SA1576A(R,S)	TRANSISTOR	E2	
Q415			2SA1576A(R,S)	TRANSISTOR	KP1K1	
Q415			2SA1576A(R,S)	TRANSISTOR	P2E1Y1	
Q415			2SA1586(Y,GR)	TRANSISTOR	E2	
Q415			2SA1586(Y,GR)	TRANSISTOR	KP1K1	
Q415			2SA1586(Y,GR)	TRANSISTOR	P2E1Y1	

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Q416,417 Q416,417 Q416,417 Q416,417 Q416,417			2SC4081(R,S) 2SC4081(R,S) 2SC4081(R,S) 2SC4116(Y,GR) 2SC4116(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	E2 KP1K1 P2E1Y1 E2 KP1K1	
Q416,417 Q418 Q418 Q418 Q418			2SC4116(Y,GR) DTC124EUA DTC124EUA DTC124EUA UN5212	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	P2E1Y1 E2 KP1K1 P2E1Y1 E2	
Q418 Q418 Q419 Q419			UN5212 UN5212 DTA124EUA UN5112	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	KP1K1 P2E1Y1 E1Y1E2 E1Y1E2	
A1 A2 A3 ,4 A5 -9			W02-2734-05 W02-2717-05 W02-2716-05 W02-2716-05	OPTIC RECEIVING MODULE OSCILLATING MODULE OPTIC RECEIVING MODULE OPTIC RECEIVING MODULE		K1P2
VIDEO UNIT (X35-2260-10) VR-5090 only						
C1 -9 C10 -15 C16 -18 C19 -21 C22 -24			CC73GCH1H100D CE04KW1A101M CE04KW1A471M CK73GB1C104K CE04KW1H100M	CHIP C ELECTRO ELECTRO CHIP C ELECTRO	10PF 100UF 470UF 0.10UF 10UF	D 10WV 10WV K 50WV
C25 ,26 C27 C28 -30 C31 C32			CC73GCH1H180J CE04KW1E470M CE04KW1H100M CC73GCH1H271J CC73GCH1H391J	CHIP C ELECTRO ELECTRO CHIP C CHIP C	18PF 47UF 10UF 270PF 390PF	J 25WV 50WV J J
C33 C34 C35 C36 C37 -39			CK73GB1H472K CE04KW1H2R2M CE04KW1E470M CK73GB1H103K CE04KW1A101M	CHIP C ELECTRO ELECTRO CHIP C ELECTRO	4700PF 2.2UF 47UF 0.010UF 100UF	K 50WV 25WV K 10WV
C40 ,41 C42 C43 C45 C46			CK73GB1H103K CK73GF1C224Z CC73GCH1H220J CE04KW1H0R1M CK73GB1H103K	CHIP C CHIP C CHIP C ELECTRO CHIP C	0.010UF 0.22UF 22PF 0.1UF 0.010UF	K Z J 50WV K
C47 C48 C49 C50 C51 ,52			CE04KW1H4R7M CK73FF1C105Z CC73GCH1H102J CK73GB1H103K CK73GF1E104Z	ELECTRO CHIP C CHIP C CHIP C CHIP C	4.7UF 1.0UF 1000PF 0.010UF 0.10UF	50WV Z J K Z
C53 C54 C55 C56 C57			CE04KW1H010M CK73GB1H103K CE04KW1A101M CK73GF1C224Z CC73GCH1H221J	ELECTRO CHIP C ELECTRO CHIP C CHIP C	1.0UF 0.010UF 100UF 0.22UF 220PF	50WV K 10WV Z J
C58 C59 C60 C61 C62 -64			CE04KW1H2R2M CK73GB1H103K CC73GCH1H102J CK73GF1E104Z CE04KW1A101M	ELECTRO CHIP C CHIP C CHIP C ELECTRO	2.2UF 0.010UF 1000PF 0.10UF 100UF	50WV K J Z 10WV

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia

Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai)

Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas  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.

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C65 ,66 C67 C101,102 C104 C105			CK73GB1H103K CE04KW1H100M CE04KW1C470M CK73GB1H182K CC73GCH1H102J	CHIP C ELECTRO ELECTRO CHIP C CHIP C	0.010UF 10UF 47UF 1800PF 1000PF	K 50WV 16WV K J
C106 C107 C108,109 C110 C151			CE04KW1H220M CK73FF1C105Z CK73GB1H103K CC73GCH1H101J CE04KW1E470M	ELECTRO CHIP C CHIP C CHIP C ELECTRO	22UF 1.0UF 0.010UF 100PF 47UF	50WV Z K J 25WV
C152 C153			CE04KW1H100M CK73GF1E104Z	ELECTRO CHIP C	10UF 0.10UF	50WV Z
CN1 J1 -3			E40-9832-05 E63-1126-05	SOCKET FOR PIN ASSY PIN JACK		
X1 X3			L77-2281-05 L78-0711-05	CRYSTAL RESONATOR(3.579545 MHZ) RESONATOR (500KHZ)		
R1 -6 R7 -9 R10 -12 R13 -15 R16 -20			RK73FB2A750J RK73GB1J104J RK73FB2A680J RK73GB1J1R0J RK73GB1J473J	CHIP R CHIP R CHIP R CHIP R CHIP R	75 100K 68 1 47K	J J J J J 1/10W 1/16W 1/10W 1/16W 1/16W
R21 R22 ,23 R24 R25 ,26 R27			RK73GB1J101J RK73GB1J102J RK73GB1J272J RK73GB1J123J RK73GB1J473J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 1.0K 2.7K 12K 47K	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R28 R29 R30 R31 R32			RK73GB1J1R0J RK73GB1J100J RK73GB1J1R0J RK73GB1J222J RK73GB1J331J	CHIP R CHIP R CHIP R CHIP R CHIP R	1 10 1 2.2K 330	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R33 R34 R35 R36 R39			RK73GB1J272J RK73GB1J432J RK73GB1J914J RK73GB1J242J RK73GB1J153J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.7K 4.3K 910K 2.4K 15K	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R40 R41 R42 R43 R44			RK73GB1J684J RK73GB1J184J RK73GB1J433J RK73GB1J103J RK73GB1J273J	CHIP R CHIP R CHIP R CHIP R CHIP R	680K 180K 43K 10K 27K	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R45 ,46 R47 R48 R49 R50			RK73GB1J102J RK73GB1J182J RK73GB1J221J RK73GB1J151J RK73GB1J750J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 1.8K 220 150 75	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R51 R52 R53 R55 R56			RK73GB1J183J RK73GB1J223J RK73GB1J102J RK73GB1J392J RK73GB1J183J	CHIP R CHIP R CHIP R CHIP R CHIP R	18K 22K 1.0K 3.9K 18K	J J J J J 1/16W 1/16W 1/16W 1/16W 1/16W
R57 R58 R60			RK73GB1J223J RK73GB1J103J RK73GB1J102J	CHIP R CHIP R CHIP R	22K 10K 1.0K	J J J 1/16W 1/16W 1/16W

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PARTS LIST

KRF-X7775D/X7775D-S/VR-5080/5090

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
	ABB.	X	P	C	T	E	G	H	I
VR-5080	-	-	P1	-	-	-	-	-	-
VR-5090	-	-	P2	-	-	-	-	-	-
KRF-X7775D	-	-	-	-	-	E1	-	-	-
KRF-X7775D-S	-	X1	-	-	-	E2	-	-	-
MODEL	CNT	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
	ABB.	R	Y	Q	L	V	K	M	
VR-5080	-	-	-	-	-	-	K	-	-
VR-5090	-	-	-	-	-	-	K1	-	-
KRF-X7775D	-	-	Y1	-	-	-	-	-	-
KRF-X7775D-S	-	-	-	-	-	V	-	M1	-

* New Parts
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Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R63 -68 R69 ,70 R80 R82 R83			RK73GB1J102J RK73GB1J222J RK73GB1J473J RK73GB1J101J RK73GB1J1R0J	CHIP R 1.0K J 1/16W CHIP R 2.2K J 1/16W CHIP R 47K J 1/16W CHIP R 100 J 1/16W CHIP R 1 J 1/16W		
R84 -86 R87 -90 R93 R94 -100 R101			RK73GB1J104J RK73GB1J473J RK73GB1J103J RK73GB1J473J RK73GB1J103J	CHIP R 100K J 1/16W CHIP R 47K J 1/16W CHIP R 10K J 1/16W CHIP R 47K J 1/16W CHIP R 10K J 1/16W		
R102 R103 R104 R105,106 R107			RK73GB1J273J RK73GB1J103J RK73GB1J273J RK73GB1J332J RK73GB1J182J	CHIP R 27K J 1/16W CHIP R 10K J 1/16W CHIP R 27K J 1/16W CHIP R 3.3K J 1/16W CHIP R 1.8K J 1/16W		
R108 R109 R110 R111 R112			RK73GB1J103J RK73GB1J223J RK73GB1J103J RK73GB1J104J RK73GB1J101J	CHIP R 10K J 1/16W CHIP R 22K J 1/16W CHIP R 10K J 1/16W CHIP R 100K J 1/16W CHIP R 100 J 1/16W		
R113 R114 R115,116 R117 R118			RK73GB1J474J RK73GB1J183J RK73GB1J103J RK73GB1J222J RK73GB1J103J	CHIP R 470K J 1/16W CHIP R 18K J 1/16W CHIP R 10K J 1/16W CHIP R 2.2K J 1/16W CHIP R 10K J 1/16W		
R119 R120-132 R139-144 R151,152 R153,154			RK73GB1J1R0J RK73GB1J473J RK73GB1J4R7J RK73GB1J1R0J RK73GB1J102J	CHIP R 1 J 1/16W CHIP R 47K J 1/16W CHIP R 4.7 J 1/16W CHIP R 1 J 1/16W CHIP R 1.0K J 1/16W		
VR1 ,2 W1 -3			R12-3100-05 R92-1963-05	TRIMMING POT.(10K) JUMPER WIRE (RESISTOR TYPE)		
D3 D3 D4 D4 IC1 -3			DAP202U 1SS300 DA204U 1SS302 * ADG704BRM	DIODE DIODE DIODE DIODE ANALOGUE IC		
IC4 IC5 IC8 IC10 Q1			* CLC5623IM UPC1830GT UPC29M05HB NJM4565M 2SC4081(R,S)	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC TRANSISTOR		
Q1 Q2 Q2 Q3 Q3			2SC4116(Y,GR) 2SA1576A(R,S) 2SA1586(Y,GR) 2SC4081(R,S) 2SC4116(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q7 ,8 Q7 ,8 Q9 ,10 Q9 ,10 Q11			DTA124EUA UN5112 DTC124EUA UN5212 2SC4081(R,S)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q11 Q15 -17			2SC4116(Y,GR) 2SC4213(B)	TRANSISTOR TRANSISTOR		

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KRF-X7775D/X7775D-S/VR-5080/5090

SPECIFICATIONS

KRF-X7775D (for U.K.)

Audio Section

Rated Output Power during stereo operation
1 kHz, 0.03% T.H.D., 6 Ω (DIN/IEC) 130W + 130 W
20 Hz ~ 20 kHz, 0.03% T.H.D., 6 Ω (IEC)

..... 120W + 120 W

Effective Output Power during surround operation

(Simultaneous power)

Front
20 Hz ~ 20 kHz, 0.03% T.H.D. at 6 Ω 120W + 120 W

Center
20 Hz ~ 20 kHz, 0.03% T.H.D. at 6 Ω 120W

Surround
20 Hz ~ 20 kHz, 0.03% T.H.D. at 6 Ω 120W + 120W

Effective Output Power during surround operation

1 kHz, 0.06% T.H.D. at 6 Ω all channel driven

(Front, Centre, Surround) 100W $\times$ 5

Total Harmonic Distortion 0.005 % (1 kHz, 60 W, 6 Ω)

Frequency Response (IHF'66)

Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R,

VIDEO 1 - 3, DVD/6CH.) 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)

PHONO (MM) 76 dB

CD1 98 dB

Input Sensitivity / Impedance

PHONO (MM) 4.0 mV / 47 k Ω

CD1 300 mV / 47 k Ω

DVD/6CH. 300 mV / 47 k Ω

Output Level / Impedance

TAPE REC 300 mV / 2.2 k Ω

PRE OUT (Front, Center, Surround, Surround back)

..... 1 V / 470 Ω

PRE OUT (Subwoofer) 1.8 V / 470 Ω

Tone Control

Bass $\pm$ 7 dB (at 100 Hz)

Treble $\pm$ 7 dB (at 10 kHz)

Loudness Control Volume at -30 dB level

..... +6 dB (100 Hz), +3 dB (10 kHz)

Digital Audio Section

Sampling Frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength

Optical -15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm

Coaxial 0.5 Vp-p / 75 Ω

Output Level / Impedance / Wavelength

Optical -15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm

Video Section

Video Inputs / Outputs

Video (composite) 1 Vp-p / 75 Ω

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

(chrominance signal) 0.286 Vp-p / 75 Ω

Component (luminance signal) 1 Vp-p / 75 Ω

(Cb/Cr-signal) $\pm$ 0.350 Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range 87.5 MHz ~ 108 MHz

Usable Sensitivity (DIN at 75 Ω)

Mono 1.3 μ V / 13.2 dBf (40 kHz dev., S/N 26 dB)

Stereo 35.1 μ V / 42.1 dBf (46 kHz dev., S/N 46 dB)

Total Harmonic Distortion (DIN at 1 kHz)

Mono 0.2 % (71.2 dBf input)

Stereo 0.8 % (71.2 dBf input)

Signal to Noise Ratio (DIN weighted, 1kHz)

Mono 65 dB (40 kHz dev., 71.2 dBf input)

Stereo 60 dB (40 kHz dev., 71.2 dBf input)

Stereo Separation (DIN at 1 kHz) 36 dB

Selectivity (DIN $\pm$ 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 μ V / (500 μ V/m)

Signal to Noise Ratio (30 % mod., 1 mV input) 50 dB

IR In/Out Section

IR Receiver In Terminal

Maximum Output Current 20 mA

Operating Voltage 12 V

Output Impedance 470 Ω

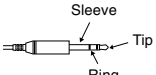
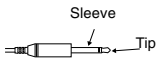
IR Out LCD Remote Terminal

Maximum Output Current 20 mA

Operating Voltage 5 V

Output Impedance 470 Ω

SHAPE OF PLUG TO BE CONNECTED:

IR Receiver In and IR Out LCD Remote		DVD Control	
Stereo mini plug		Mono mini plug	
			

IR IN/OUT SPECIFICATION:

Terminal		
	IR Receiver In	IR Out LCD Remote
To Tip	Signal	Signal
To Ring	Ground	—
To Sleeve	+12V	Ground

General

Power consumption 500 W

AC outlet

Switched 2 (total 90 W max.)

Dimensions W : 440mm

H : 191mm

D : 416mm

Weight (Net) 16.8 kg

KRF-X7775D (for Other Countries)

Audio Section

Rated Output Power during stereo operation
20 Hz ~ 20 kHz, 0.7% T.H.D., 6 Ω (IEC) 130W + 130 W

120 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

1 kHz, 10% T.H.D. at 6 Ω 170 W + 170 W

Effective Output Power during surround operation, one channel driven

Front

1 kHz, 10% T.H.D. at 6 Ω 180 W + 180 W

20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω 150 W + 150 W

Center

1 kHz, 10% T.H.D. at 6 Ω 180 W

20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω 150 W

Surround

1 kHz, 10% T.H.D. at 6 Ω 180 W + 180 W

20 Hz ~ 20 kHz, 0.06% T.H.D. at 6 Ω 150 W + 150 W

Effective Output Power during surround operation, all channel driven

(Front, Center, Surround)

1 kHz, 0.006% T.H.D. at 6 Ω 95 W $\times$ 5

Total Harmonic Distortion 0.005 % (1 kHz, 65 W, 6 Ω)

Frequency Response (IHF'66)

Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R,

VIDEO 1 - 3, DVD/6CH.) 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)

PHONO (MM) 76 dB

CD1 98 dB

Input Sensitivity / Impedance

PHONO (MM) 4.0 mV / 47 k Ω

CD1 300 mV / 47 k Ω

DVD/6CH. 300 mV / 47 k Ω

Output Level / Impedance

TAPE REC 300 mV / 2.2 k Ω

PRE OUT (Front, Center, Surround, Surround back)

..... 1 V / 470 Ω

PRE OUT (Subwoofer) 1.8 V / 470 Ω

Tone Control

Bass $\pm$ 7 dB (at 100 Hz)

Treble $\pm$ 7 dB (at 10 kHz)

Loudness Control

Volume at -30 dB level +6 dB (100 Hz), +3 dB (10 kHz)

Digital Audio Section

Sampling Frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength

Optical -15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm

Coaxial 0.5 Vp-p / 75 Ω

Output Level / Impedance / Wavelength

Optical -15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm

Video Section

Video Inputs / Outputs

Video (composite) 1 Vp-p / 75 Ω

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

(chrominance signal) 0.286 Vp-p / 75 Ω

Component (luminance signal) 1 Vp-p / 75 Ω

(Cb/Cr-signal) $\pm$ 0.350 Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range 87.5 MHz ~ 108 MHz

Usable Sensitivity (Mono)

..... 1.3 μ V (75 Ω) / 13.2 dBf (75 kHz dev., sinad 30 dB)

50dB Quietening Sensitivity

Stereo 25.1 μ V (75 Ω) / 39.2 dBf

Total Harmonic Distortion (1 kHz)

Mono 0.3 % (71.2 dBf input)

Stereo 0.5 % (71.2 dBf input)

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

Mono 75 dB (71.2 dBf input)

Stereo 70 dB (71.2 dBf input)

Stereo Separation (1 kHz) 40 dB

Selectivity ($\pm$ 400 kHz) 50 dB

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

AM Tuner Section

Tuning Frequency Range

9kHz step 531 kHz ~ 1,602 kHz

10kHz step 530 kHz ~ 1,610 kHz

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

..... 16 μ V / (500 μ V/m)

Signal to Noise Ratio (30 % mod. 1 mV input) 50 dB

IR In/Out Section (for U. S. military)

IR Receiver In Terminal

Maximum Output Current 20 mA

Operating Voltage 12 V

Output Impedance 470 Ω

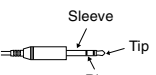
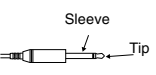
IR Out LCD Remote Terminal

Maximum Output Current 20 mA

Operating Voltage 5 V

Output Impedance 470 Ω

SHAPE OF PLUG TO BE CONNECTED:

IR Receiver In and IR Out LCD Remote		DVD Control	
Stereo mini plug		Mono mini plug	
			

IR IN/OUT SPECIFICATION:

Terminal		
	IR Receiver In	IR Out LCD Remote
To Tip	Signal	Signal
To Ring	Ground	—
To Sleeve	+12V	Ground

General

Power consumption 500 W

AC outlet

Switched (except for Australia) 2 (total 90 W max.)

Switched (for Australia) 1 (total 90 W max.)

Dimensions W : 440mm

H : 191mm

D : 416mm

Weight (Net) 16.8 kg

Kenwood follows a policy of continuous advancements in development. For this reason, specifications may be changed without notice.

Full performance may not be exhibited in extremely cold locations (below 0 deg. C).

KRF-X7775D/X7775D-S/VR-5080/5090

SPECIFICATIONS

VR-5090/VR-5080

Audio Section

Rated Output Power during stereo operation

110 watts per channel minimum RMS, both channels driven, at 6 Ω from 20Hz to 20kHz with no more than 0.03% total harmonic distortion (FTC).

Effective Output Power during surround operation

1 kHz, 0.06% T.H.D. at 6 Ω , all channel driven (Front, Center, Surround) 80 W $\times$ 5

Total Harmonic Distortion 0.005 % (1 kHz, 55 W, 6 Ω)

Frequency Response (IHF'66)

VR-5090

Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R, VIDEO 1 - 4, DVD/6CH.) 7 Hz ~ 100 kHz, 0 dB, -3 dB

VR-5080

Line (CD1, MD/TAPE, CD2/TAPE2 MONITOR, CD-R, VIDEO 1 - 3, DVD/6CH.) 7 Hz ~ 100 kHz, 0 dB, -3 dB

Signal to Noise Ratio (IHF '66)

PHONO (MM) 76 dB

CD1 98 dB

Input Sensitivity / Impedance

PHONO (MM) 4.0 mV / 47 k Ω

CD1 300 mV / 47 k Ω

DVD/6CH. 300 mV / 47 k Ω

Output Level / Impedance

TAPE REC 300 mV / 2.2 k Ω

PRE OUT (Front, Center, Surround, Surround back) 1 V / 470 Ω

PRE OUT (Subwoofer) 1.8 V / 470 Ω

Tone Control

Bass ± 7 dB (at 100 Hz)

Treble ± 7 dB (at 10 kHz)

Loudness Control

Volume at -30 dB level +6 dB (100 Hz), +3 dB (10 kHz)

Digital Audio Section

Sampling Frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input Level / Impedance / Wavelength

Optical -15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm

Coaxial 0.5 Vp-p / 75 Ω

Output Level / Impedance / Wavelength

VR-5090

Optical -15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm

Coaxial 0.5 Vp-p / 75 Ω

VR-5080

Optical -15 dBm ~ -21 dBm, 660 nm $\pm$ 30 nm

Video Section

Video Inputs / Outputs

Video (composite) 1 Vp-p / 75 Ω

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

Component (luminance signal) 1 Vp-p / 75 Ω
(Pb/Pr-signal) $\pm$ 0.324 Vp-p / 75 Ω

FM Tuner Section

Tuning Frequency Range 87.5 MHz ~ 108 MHz

Usable Sensitivity (Mono)

..... 1.2 μ V (75 Ω) / 12.2 dBf (75 kHz dev., sinad 30 dB)

50dB Quieting Sensitivity

Stereo 22.4 μ V (75 Ω) / 38.2 dBf

Total Harmonic Distortion (1 kHz)

Mono 0.3 % (71.2 dBf input)

Stereo 0.5 % (71.2 dBf input)

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

Mono 75 dB (71.2 dBf input)

Stereo 70 dB (71.2 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

10kHz step 530 kHz ~ 1,700 kHz

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

..... 16 μ V / (500 μ V/m)

Signal to Noise Ratio (30 % mod. 1 mV input) 50 dB

IR In/Out Section

IR Receiver In Terminal

Maximum Output Current 20 mA

Operating Voltage 12 V

Output Impedance 470 Ω

IR Out LCD Remote Terminal

Maximum Output Current 20 mA

Operating Voltage 5 V

Output Impedance 470 Ω

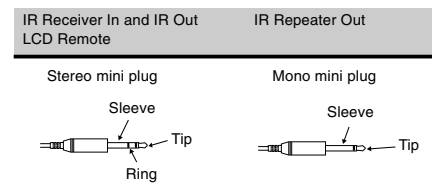
IR Repeater Out Terminal

Maximum Output Current 20mA A

Operating Voltage 12 V

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 5 A

AC outlet Switched 2 (total 90W, 0.75 A max.)

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

..... H : 191mm (7-1/2")

..... D : 416mm (16-3/8")

Weight (Net) 15.0 kg (33.0 lb)

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