

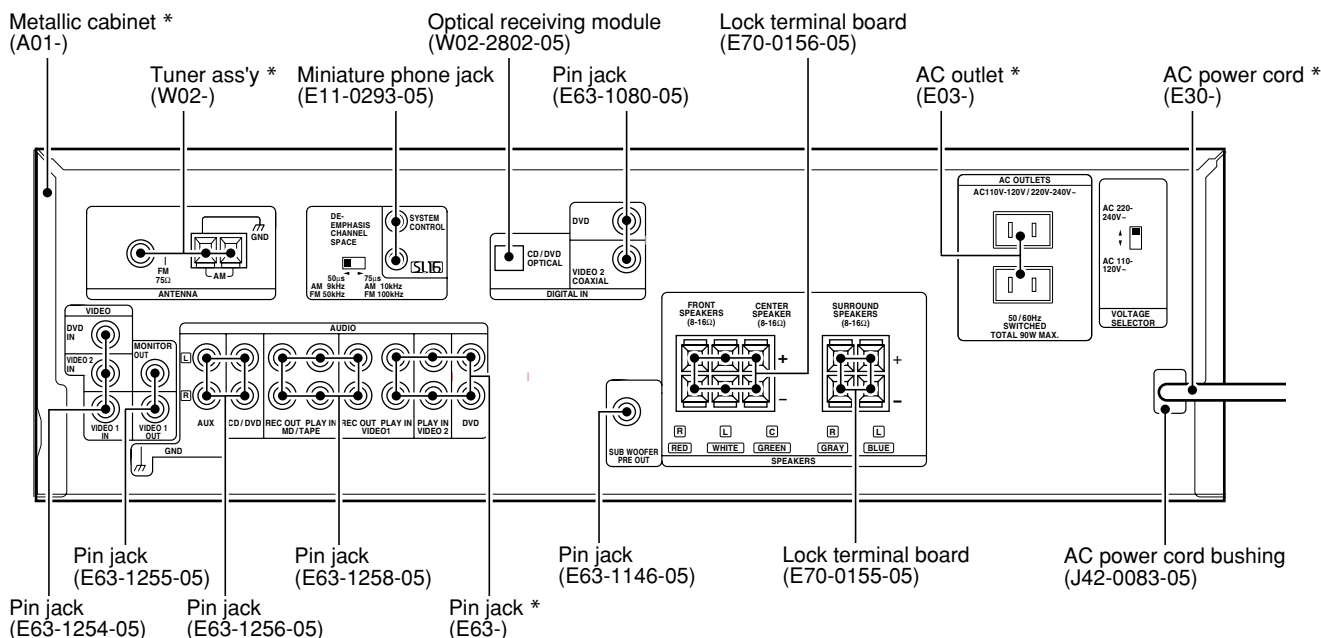
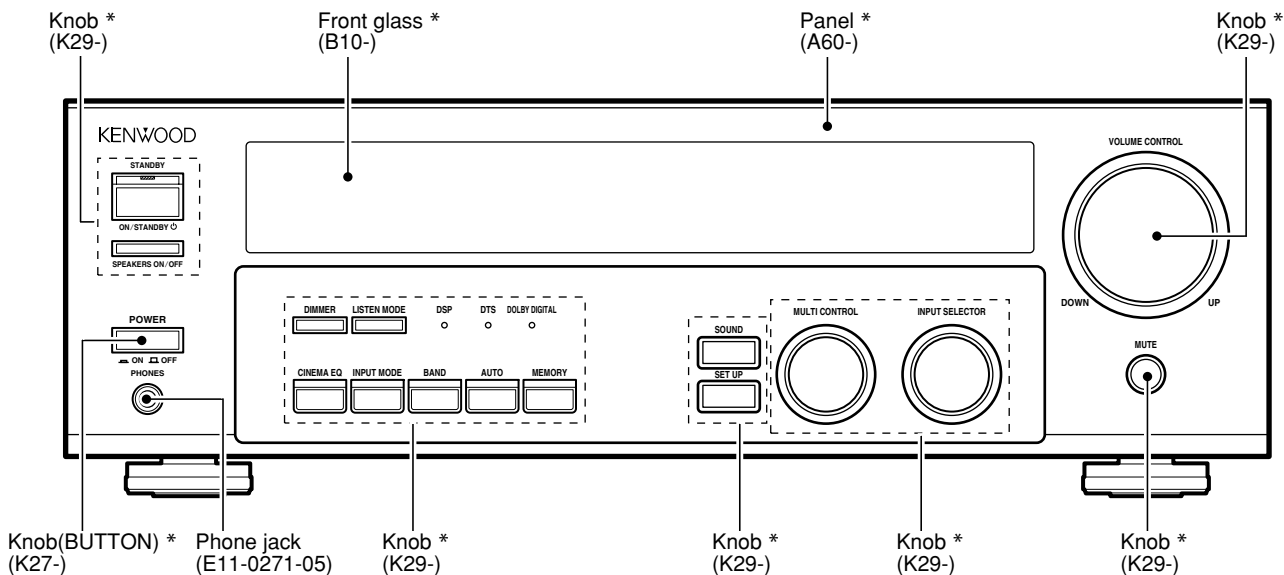
AUDIO-VIDEO SURROUND RECEIVER

KRF-V4060D/V4060DE/V4060DE-S/V4060D-S  
 KRF-V5060D/V5060DE/V5060D-S/V5560D/V5560D-S  
 VR-605/615

SERVICE MANUAL

KENWOOD

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 B51-5783-00 (K/K) 3526



Illust. is KRF-V4060D.

\* Refer to parts list on page 21.



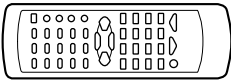
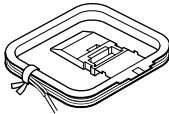
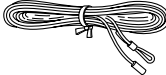
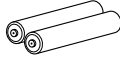
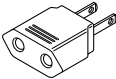
# KRF-V4060D/V5060D/V5560D/VR-605/615

## CONTENTS / ACCESSORIES / CAUTIONS

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### Accessories

<p>Remote control unit (1) Refer to the table on this page below.</p> 	<p>AM loop antenna (1) (T90-0852-05)</p> 	<p>FM indoor antenna (1) (T90-0877-05)</p> 	<p>Batteries (R6/AA) (2)</p> 
<p>AC Plug Adaptor (1) (E03-0115-05)</p>  <p>Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)</p>			

### REMOTE CONTROL vs MODEL

MODEL	PARTS #	REMOTE CONTROL #	DESTINATION
KRF-V4060D	A70-1566-05	RC-R0623	ET
KRF-V4060DE			E1
KRF-V4060DE-S			E2
KRF-V4060D-S	A70-1564-05	RC-R0621	MX
KRF-V4060D-S	A70-1566-05	RC-R0623	E3T1
KRF-V5060D	A70-1563-05	RC-R0620	Y
KRF-V5060D	A70-1565-05	RC-R0622	ET
KRF-V5060DE			E1

MODEL	PARTS #	REMOTE CONTROL #	DESTINATION
KRF-V5060D-S	A70-1563-05	RC-R0620	MX
KRF-V5060D-S	A70-1565-05	RC-R0622	E3T1
KRF-V5560D	A70-1564-05	RC-R0621	Y
KRF-V5560D	A70-1566-05	RC-R0623	E
KRF-V5560D-S	A70-1564-05	RC-R0621	MXH
KRF-V5560D-S	A70-1566-05	RC-R0623	E3T1
VR-605	A70-1564-05	RC-R0621	KP
VR-615	A70-1563-05	RC-R0620	KP

### Cautions

#### Resetting the Microcomputer

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

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

#### For the U.S.A. and Canada

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

#### For other countries

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

#### Memory back up function

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 3 days.

- Power mode.
- Input selector settings.
- Picture output.
- Speaker ON/OFF.
- Volume level.
- BASS, TREBLE, INPUT level.
- Dimmer level.
- MD/TAPE settings.
- Listen mode setting.
- Speaker settings.
- SW RE-MIX ON/OFF.
- Distance setting.
- Input mode setting.
- Midnight mode setting.
- PRO LOGIC II mode setting.
- Broadcast band.
- Frequency setting.
- Preset stations.
- Tuning mode.
- CINEMA EQ ON/OFF.
- LOUDNESS ON/OFF.

## CIRCUIT DESCRIPTION

### 1. Model & TUNER Destination

#### 1-1 Model Discrimination

	DVD/6ch PHONO	DVD/6ch AUX	DVD AUX	F=80Hz	F=120Hz
Model TYPE 0(30Pin)	L	L	H	-	-
Model TYPE 1(35Pin)	L	H	L	-	-
CRS OVR CHK(80Pin)	-	-	-	L	H

#### 1-2 TUNER Destination

Set TYPE	TYPE	BAND	Receiving Frequency Range	Channel Space	IF	PLL
K/P	K1	FM	87.50MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1700kHz	10kHz	+450kHz	10kHz
Y/M/I	K2	FM	87.50MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1610kHz	10kHz	+450kHz	10kHz
Y/M/V/X H	E1	FM	87.50MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
E/T	E3 RDS	FM	87.50MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
Y/M	M	K2/E1 are decided by Tuner destination port 1 input. (0 = K2 Type    1 = E1 Type)				

### 2. Tuner Preset Memory

P.ch	K1	K2	E1/E3	P.ch	K1	K2	E1/E3
1	FM 98.3M	FM 98.3M	FM 98.3M	21	AM 530K	AM 530K	AM 531K
2	FM 108.0M	FM 108.0M	FM 108.0M	22	FM 87.5M	FM 87.5M	FM 87.5M
3	FM 89.1M	FM 89.1M	FM 89.1M	23	FM 87.5M	FM 87.5M	FM 87.5M
4	FM 87.5M	FM 87.5M	FM 87.5M	24	FM 87.5M	FM 87.5M	FM 87.5M
5	FM 90.0M	FM 90.0M	FM 90.0M	25	FM 87.5M	FM 87.5M	FM 87.5M
6	FM 87.5M	FM 87.5M	FM 87.5M	26	FM 87.5M	FM 87.5M	FM 87.5M
7	FM 87.5M	FM 87.5M	FM 87.5M	27	FM 87.5M	FM 87.5M	FM 87.5M
8	AM 1610K	FM 87.5M	AM 1503K	28	FM 87.5M	FM 87.5M	FM 87.5M
9	AM 1700K	AM 1610K	AM 1584K	29	FM 87.5M	FM 87.5M	FM 87.5M
10	AM 1000K	AM 1000K	AM 954K	30	FM 106.0M	FM 106.0M	FM 106.0M
11	AM 630K	AM 630K	AM 621K	31	FM 87.5M	FM 87.5M	FM 87.5M
12	AM 1440K	AM 1440K	AM 1350K	32	FM 87.5M	FM 87.5M	FM 87.5M
13	FM 106.0M	FM 106.0M	FM 106.0M	33	FM 87.5M	FM 87.5M	FM 87.5M
14	AM 530K	AM 530K	AM 531K	34	FM 87.5M	FM 87.5M	FM 87.5M
15	FM 87.5M	FM 87.5M	FM 87.5M	35	FM 87.5M	FM 87.5M	FM 87.5M
16	FM 98.0M	FM 98.0M	FM 98.0M	36	FM 87.5M	FM 87.5M	FM 87.5M
17	FM 98.5M	FM 98.5M	FM 98.5M	37	FM 87.5M	FM 87.5M	FM 87.5M
18	FM 87.5M	FM 87.5M	FM 87.5M	38	FM 87.5M	FM 87.5M	FM 87.5M
19	AM 990K	AM 990K	AM 945K	39	FM 108.0M	FM 108.0M	FM 108.0M
20	FM 97.4M	FM 97.4M	FM 97.4M	40	AM 1000K	AM 1000K	AM 945K

### 3. Test Mode

#### 3-1 Entering the Test Mode

- With the power cord plugged in, turn the POWER key OFF. Then while holding down the BAND key, press power key.

#### 3-2 Cancelling the Test Mode

- Initialized and cancel the test mode if pulling out the power code.

#### 3-3 Contents of the Test Mode

##### 3-3-1 Pch Call UP/DOWN

Key	Function
DIMMER	Pch CALL UP →01→02→03……→39→40→
LISTEN MODE	Pch CALL DOWN ←01←02←03……←39←40←

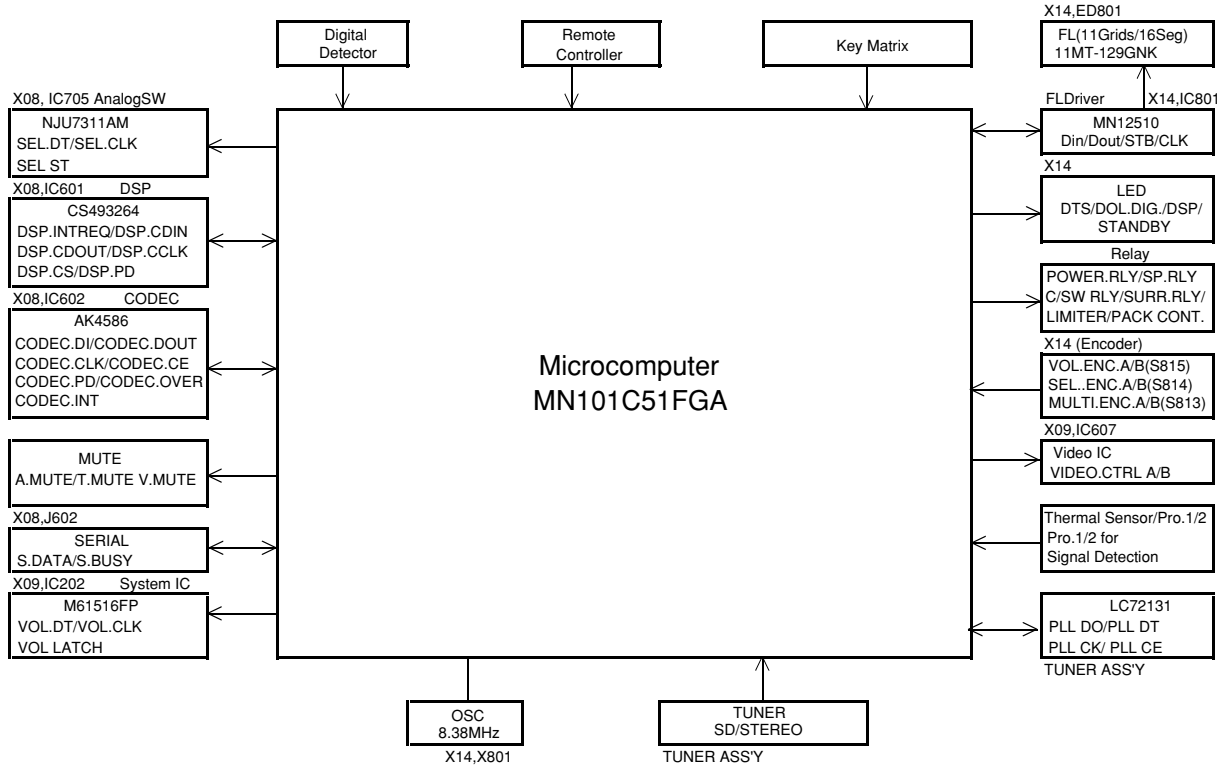
##### 3-3-2 TUNER mute on/off

Key	Function
MUTE	TUNER mute on/off

## CIRCUIT DESCRIPTION

### 4. Microcomputer : MN101C51FGA (X14,IC804)

#### 4-1 Microcomputer Periphery Block Diagram



#### Key Matrix

	P34(30Pin)	P33(29Pin)	P32(28Pin)	P31(27Pin)
SEG1(32Pin)	AUTO	MEMORY	SOUND	-
SEG2(33Pin)	SET UP	MUTE	DIMMER	SPK ON/OFF
SEG3(34Pin)	CINEMA EQ	LISTEN	INPUT	-

#### 4-2 Pin Description of Microcomputer : MN101C51FGA(X14,IC804)

Pin No.	Pin Name	I/O	Description
1	VREF-	-	Connected to ground.
2	TH SENS	I	Protection signal detection port for thermal sensor.
3	S DETECTOR1	I	Protection for signal detection 1.
4	S DETECTOR2	I	Protection for signal detection 2.
5	S LEVEL	I	Detection port for RDS signal level.
6	AD KEY GET	I	A/D key input.
7	AD TUNER DEST	I	Discrimination port for tuner destination.
8	PROT1	I	Protection signal detection port for over current.
9	PROT2	I	Protection signal detection port for over voltage.
10	VREF+	-	A/D reference voltage.
11	VDD	-	Power supply(+5V) for microcomputer.
12	OSC2	O	Main clock output(8.38MHz).
13	OSC1	I	Main clock input(8.38MHz).
14	VSS	-	Connected to ground.
15	XI	-	Connected to ground.
16	XO	-	Unused.
17	MMOD	-	Connected to ground.
18	DSP/CODEC DIN	O	Data output to DSP/CODEC.
19	DSP/CODEC DO	I	Data input port from DSP/CODEC.
20	DSP/CODEC CLK	O	Clock output to DSP/CODEC.
21	DSP CS	-	Chip select for DSP.
22	DSP PD	O	Power down mode port for DSP.
23	CODEC PD	O	Power down mode port for CDDEC.

## CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
24	CODEC OVER	I	Overflow detection port for CODEC analog signal.
25	RESET	I	Reset signal input for microcomputer.
26	CODEC CSN	O	Chip select for CODEC.
27	RDS DATA	O	RDS signal data output.
28	S BUSY	I/O	Serial busy signal input/output.
29	S DATA	I/O	Serial data signal input/output.
30	MODEL TYPE0	I	Discrimination port for model type.
31	REMOCON	I	Signal input for remote controller.
32	CODEC INT	I	Detection port for digital signal error.
33	RDS CLK	I	Clock input for RDS demodulator IC.
34	DSP INTREQ	I	Detection port for DSP INTREQ.
35	MODEL TYPE1	I	Discrimination port for model type.
36	FL DIN	O	Data output to FL driver.
37	FL DOUT	I	Data input from FL driver.
38	FL CLK	O	Clock output to FL driver.
39	FL STB	O	Strobe output to FL driver.
40	PLL DATA	O	Data output to PLL IC.
41	PLL CLK	O	Clock output to PLL IC.
42,43	NC	-	Unused.
44	PLL CE	O	Chip enable output to PLL IC.
45	PLL DO	I	Data input from PLL IC.
46	T MUTE	O	Mute signal output to PLL IC.
47	STEREO	I	Stereo signal input from PLL IC.
48	PLL SD	I	SD signal input from PLL IC.
49	MULTI ENCA	I	Encoder (X14, S813) signal input.
50	MULTI ENCB	I	Encoder (X14, S813) signal input.
51	SEL ENCA	I	Encoder (X14,S814) signal input.
52	SEL ENCB	I	Encoder (X14,S814) signal input.
53	VOL. ENCA	I	Encoder (X14,S815) signal input.
54	VOL. ENCB	I	Encoder (X14,S815) signal input.
55	CH SPACE	I	Discrimination port for channel space.
56	SP RLY	O	Control port for speaker relay.
57	C/SW RELAY	O	Relay control for center and sub woofer speakers.
58	SURR.RLY	O	Relay control for surround speaker.
59	PWR RLY	O	Control port for power relay.
60	PACK CONT.	O	Power pack control.
61	V. MUTE	O	Mute control for video output.
62	LIMITER	O	Power control for A class.
63	A. MUTE	O	Mute control for audio output.
64	SEL DATA	O	Data output to analog switch IC(X08,IC705).
65	SEL. CLK	O	Clock output to analog switch IC(X08,IC705).
66	SEL. STB	O	Strobe output to analog switch IC(X08,IC705).
67	VIDEO CTRLA	O	Video switch control.
68	VIDEO CTRLB	O	Video switch control.
69	-6 ATT	O	-6dB attenuater control.
70	VOL. DATA	O	Data output to system IC (X09,IC202).
71	VOL. CLK	O	Clock output to system IC (X09,IC202).
72	VOL. LATCH	O	Latch output to system IC (X09,IC202).
73	STANDBY LED	O	Control port for STANDBY LED(X14,D808).
74	DTS LED	O	Control port for DTS LED(X14,D807).
75	DOL DIG LED	O	Control port for DOLBY DIG LED(X14,D806).
76	DSP LED	O	Control port for DSP LED(X14,D805).
77	CE2	I	Detection port of chip enable 2 for microcomputer.
78	CE1	I	Detection port of chip enable 1 for microcomputer.
79	DEGITAL DET	I	Detection port for digital signal.
80	CRS OVR CHK	I	Selection of cut-off frequency for HPF/LPF. L : 80Hz H : 120Hz

## CIRCUIT DESCRIPTION

### 5. Pin Description of ICs.

#### 5-1 CODEC : AK4586(X08, IC602)

Pin No.	Pin Name	I/O	Description
1	XTO	-	Unused.
2	XTI/EXTCLK	I	External clock input (12.268MHz).
3	DVDD	-	Digital power supply (+5.0V).
4	DVSS	-	Digital GND.
5	TVDD	-	Power supply for buffer (+3.3V).
6	TX	-	Unused.
7	MCKO	O	Master clock pin.
8	LRCK	I	Clock input pin.
9	BICK	I	Bit clock pin for audio serial data.
10	SDTO	O	Output pin for audio serial data.
11~13	SDTI (1~3)	I	Input pin of audio serial data for DAC.
14	INT0	O	Output pin for digital signal error.
15	INT1	-	Unused.
16	CAD1/CDTO	I	Control data input.
17	SDACDTI	I	Control data input.
18	SCL/CCLK	I	Clock input.
19	CAD0/CSN	I	Chip select.
20	DZF2/OVR	O	Overflow detection port for CODEC analog signal.
21	AVSS	-	Analog GND.
22	AVDD	-	Analog power supply (+5.0V).
23	VREFH	I	Reference voltage input.
24	VCOM	O	Output pin for common voltage.
25	DZF1	-	Zero input detection 1 pin (Unused).
26	C OUT	O	DAC Center channel output.
27	SW OUT	O	DAC SW channel output.
28	SL OUT	O	DAC SL channel output.
29	SR OUT	O	DAC SR channel output.
30	FL OUT	O	DAC FL channel output.
31	FR OUT	O	DAC FR channel output.
32	LIN	I	L channel analog (+) input.
33	RIN	I	R channel analog (+) input.
34	PVDD	-	Power supply (+5.0V).
35	R	-	Unused.
36	PVSS	-	GND
37	RX4	I	Unused.
38	SLAVE	-	GND
39	RX3	I	Optical input.
40	TST	-	Clock select 2 pin (GND).
41	RX2	I	VIDEO2 (COAX IN) input.
42	I2C	I	Control select pin (Unused) .
43	RX1	I	DVD (COAX IN) input.
44	PDN	I	CODEC power down.

## CIRCUIT DESCRIPTION

### 5-2 FL Driver : MN12510 (X14, IC801)

Pin No.	Pin Name	I/O	Description
1	P21,P20	O	Segment 1,2 output.
3	P03	O	Unused.
4~6	P02~P00	O	Grid (1~3) output.
7~10	DGT(7~4)	O	Grid (4~7) output.
11	NC	-	Unused.
12~15	DGT(3~0)	O	Grid (8~10) output.
16	VPP	-	Power supply (-30V).
17	NC	-	Unused.
18	VDD	-	Power supply (+5V).
19	OSC1	-	Crystal (4MHz) connection port.
20	OSC2	-	Crystal (4MHz) connection port.
21	VSS	-	GND
22	NCS	I	Strobe input.
23	SCK	I	Clock input.
24	SDI	I	Data input.
25	SDO	O	Data output.
26	P30	-	Unused.
27~30	P(31~34)	I	Key return signal input.
31	SEG0	O	Segment (S16) output.
32	SEG1	O	Segment (S15)/key scan output.
33	SEG2	O	Segment (S14)/key scan output.
34	SEG3	O	Segment (S13)/key scan output.
35~38	SEG(4~7)	O	Segment (S12~S9) output.
39~42	P(10~13)	O	Segment (S8~S5) output.
43,44	P23,P24	O	Segment (S4,S3) output.

### 5-3 Power Amplifier

#### 5-3-1 Front/Center Amp : STK443(X09,IC301) KRF-V4060D/V5060D/VR-605

Pin No.	Pin Name	Description
1	+VCC	Connection port for power supply (+B).
2	-VCC	Connection port for power supply (-B).
3	SUB GND	GND
4	+RE/CH1	FR ch (+) output.
5	-RE/CH1	FR ch (-) output.
6	-RE/CH2	FL ch (-) output.
7	+RE/CH2	FL ch (+) output.
8	-PRE	Connection port for pre power supply (-B).
9	+PRE	Connection port for pre power supply (+B).
10	IN/CH1	FR ch input.
11	NF/CH1	FR ch feedback.
12	BIAS	Bias connection port.
13	NF/CH2	FL ch feedback.
14	IN/CH2	FL ch input.
15	IN/CH3	Center ch input.
16	NF/CH3	Center ch feedback.
17	+RE/CH3	Center ch (+) output.
18	-RE/CH3	Center ch (-) output.

## CIRCUIT DESCRIPTION

### 5-3-2 Surround Amp : STK442(X09,IC401) KRF-V4060D/V5060D/VR-605

Pin No.	Pin Name	Description
1	+VCC	Connection port for power supply (+B).
2	-VCC	Connection port for power supply (-B).
3	SUB GND	GND
4	+RE/CH1	Surround R ch (+) output.
5	-RE/CH1	Surround R ch (-) output.
6	-RE/CH2	Surround L ch (-) output.
7	+RE/CH2	Surround L ch (+) output.
8	-PRE	Connection port for pre power supply (-B).
9	+PRE	Connection port for pre power supply (+B).
10	IN/CH1	Surround Rch input.
11	NF/CH1	Surround R ch feedback.
12	BIAS	Bias connection port.
13	NF/CH2	Surround L ch feedback.
14	IN/CH2	Surround Lch input.

### 5-3-3 Front/Center Amp : STK413(X09,IC301) KRF-V5560D/VR-615

Pin No.	Pin Name	Description
1	+VH	Connection port for high power supply (+B).
2	+VL	Connection port for low power supply (+B).
3	+REF	Connection port for reference voltage (+B).
4	-REF	Connection port for reference voltage (-B).
5	-VL	Connection port for low power supply (-B).
6	-VH	Connection port for high power supply (-B).
7	SUB GND	GND
8	+RE/CH1	FR ch (+) output.
9	-RE/CH1	FR ch (-) output.
10	-RE/CH2	FL ch (-) output.
11	+RE/CH2	FL ch (+) output.
12	-PRE	Connection port for pre power supply (-B).
13	+PRE	Connection port for pre power supply (+B).
14	IN/CH1	FR ch input.
15	NF/CH1	FR ch feedback.
16	BIAS	Bias connection port.
17	NF/CH2	FL ch feedback.
18	IN/CH2	FL ch input.
19	IN/CH3	Center ch input.
20	NF/CH3	Center ch feedback.
21	+RE/CH3	Center ch (+) output.
22	-RE/CH3	Center ch (-) output.

### 5-3-4 Surround/S.W Amp : STK413(X09,IC401) KRF-V5560D/VR-615

Pin No.	Pin Name	Description
1	+VH	Connection port for high power supply (+B).
2	+VL	Connection port for low power supply (+B).
3	+REF	Connection port for reference voltage (+B).
4	-REF	Connection port for reference voltage (-B).
5	-VL	Connection port for low power supply (-B).
6	-VH	Connection port for high power supply (-B).
7	SUB GND	GND
8	+RE/CH1	Surround R ch (+) output.
9	-RE/CH1	Surround R ch (-) output.
10	-RE/CH2	Surround L ch (-) output.
11	+RE/CH2	Surround L ch (+) output.
12	-PRE	Connection port for pre power supply (-B).
13	+PRE	Connection port for pre power supply (+B).



## CIRCUIT DESCRIPTION

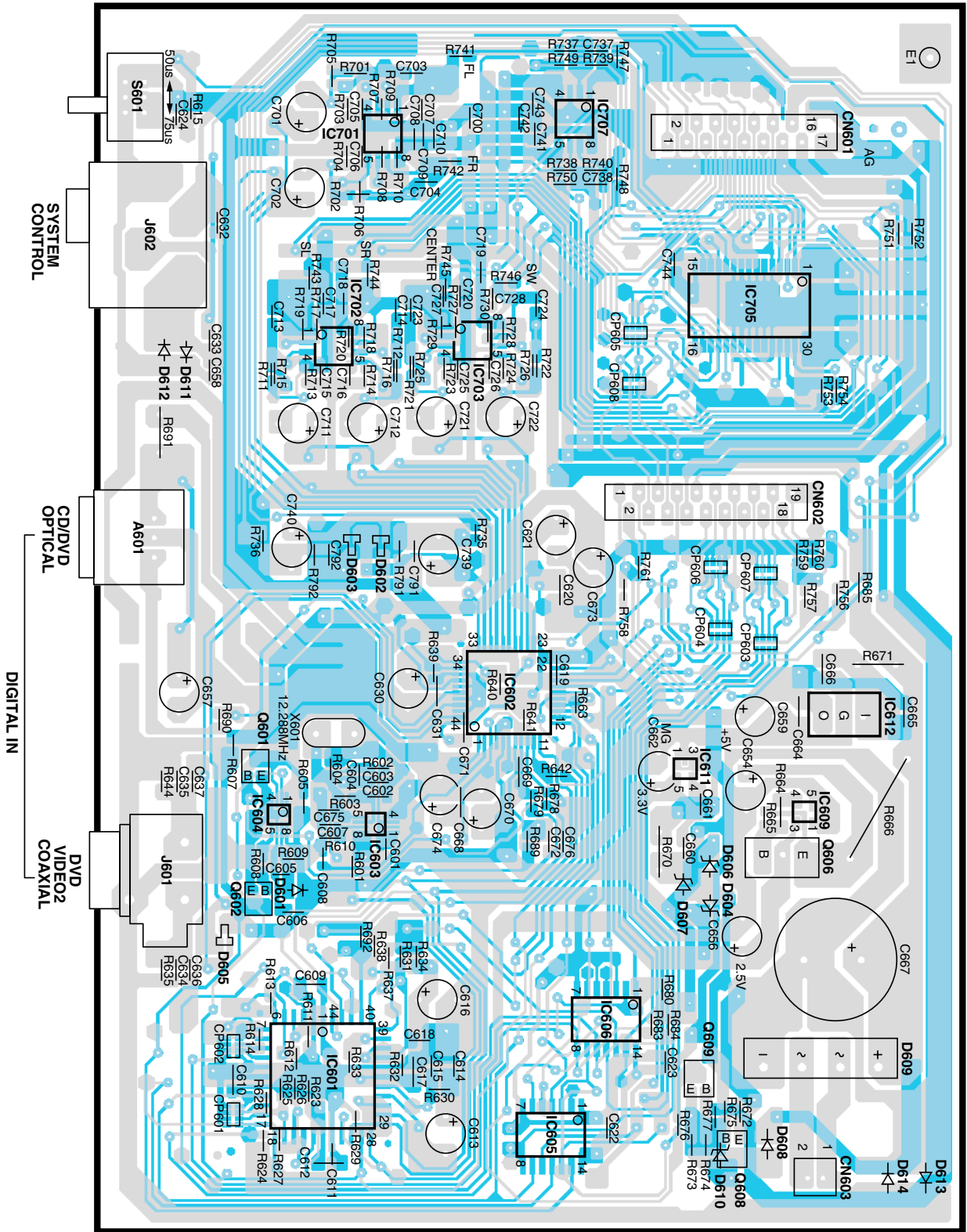
Pin No.	Pin Name	Description
14	IN/CH1	Surround R ch input.
15	NF/CH1	Surround R ch feedback.
16	BIAS	Bias connection port.
17	NF/CH2	Surround L ch feedback.
18	IN/CH2	Surround L ch input.
19	IN/CH3	Surround ch input.
20	NF/CH3	Surround ch feedback.
21	+RE/CH3	Surround ch (+) output.
22	-RE/CH3	Surround ch (-) output.

### 5-4 Digital Audio Decoder: CS493264(X08,IC601)

Pin No.	Pin Name	I/O	Description
1,12,23	VD(1~3)	-	Digital power supply (+3.3V).
2,13,24	DGND(1~3)	-	Digital GND.
3	XMT958	0	SPDIF transmitter output (Open).
4	WR GP1010	I/O	Host write strobe.
5	RD EMOE	I/O	Read/write enable.
6	SCDIN	1	SPI serial control data.
7	SCCLK	I	Serial control clock.
8~11 14~17	EMA(D7~D0)	I/O	Data bit (7~0).
18	CS	I	Chip select.
19	SCDI0	I/O	Serial control data input/output.
20	INTREQ ABOUT	I/O	Control port interrupt request/automatic boot enable.
21	EXTMEM	I/O	External memory chip select.
22	SDATAN	I	PCM audio data input.
25	SCLKN	I/O	PCM audio input bit clock.
26	SLRCLKN	I/O	PCM audio input sample rate clock.
27	CMPDAT	I	PCM audio data input2.
28	CMPCLK	I/O	PCM audio input bit clock.
29	CMPREQ	I/O	PCM audio input sample rate clock.
30	CLKIN	I	Master clock input.
31	CLKSEL	I	DSP clock select.
32	FLT2	-	Phase lock loop filter.
33	FLT1	-	Phase lock loop filter.
34	VA	-	Analog power supply (+3.3V).
35	AGND	-	Analog GND.
36	RESET	I	Master reset port.
37	DD	I/O	Pull-up port.
38	DC	I	Pull-up port.
39~41	AUDAT(2~0)	O	Digital audio output (2~0).
42	LRCLK	I/O	Audio output sample rate clock.
43	SCLK	I/O	Audio output bit clock.
44	MCLK	I/O	Audio master clock.

# PC BOARD (Component side view)

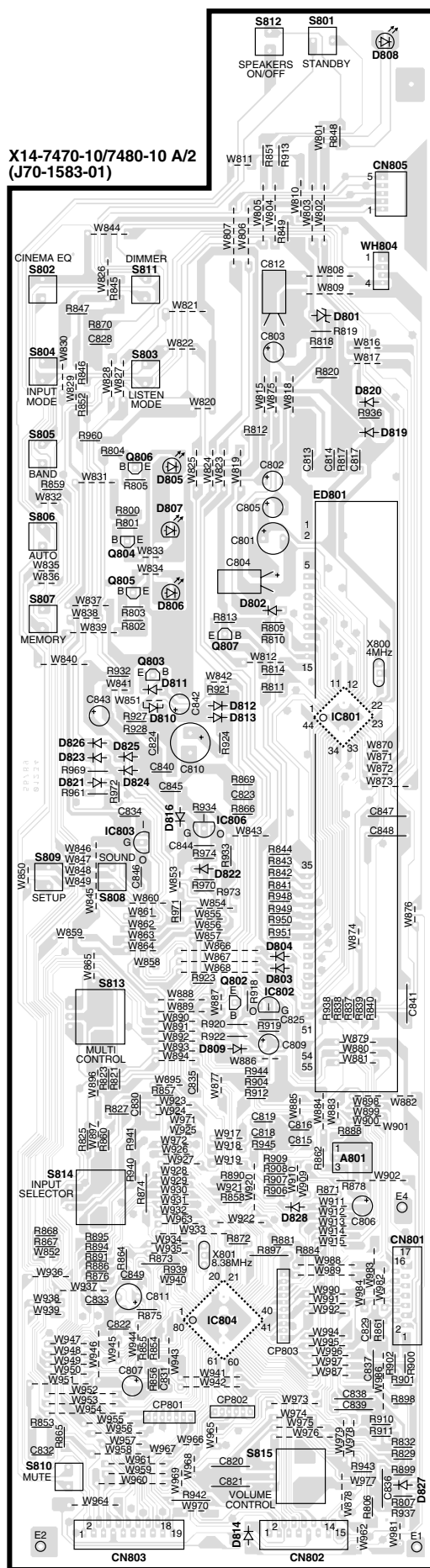
X08-3160-10/3180-10 (J70-1581-01)



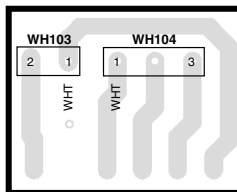
Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

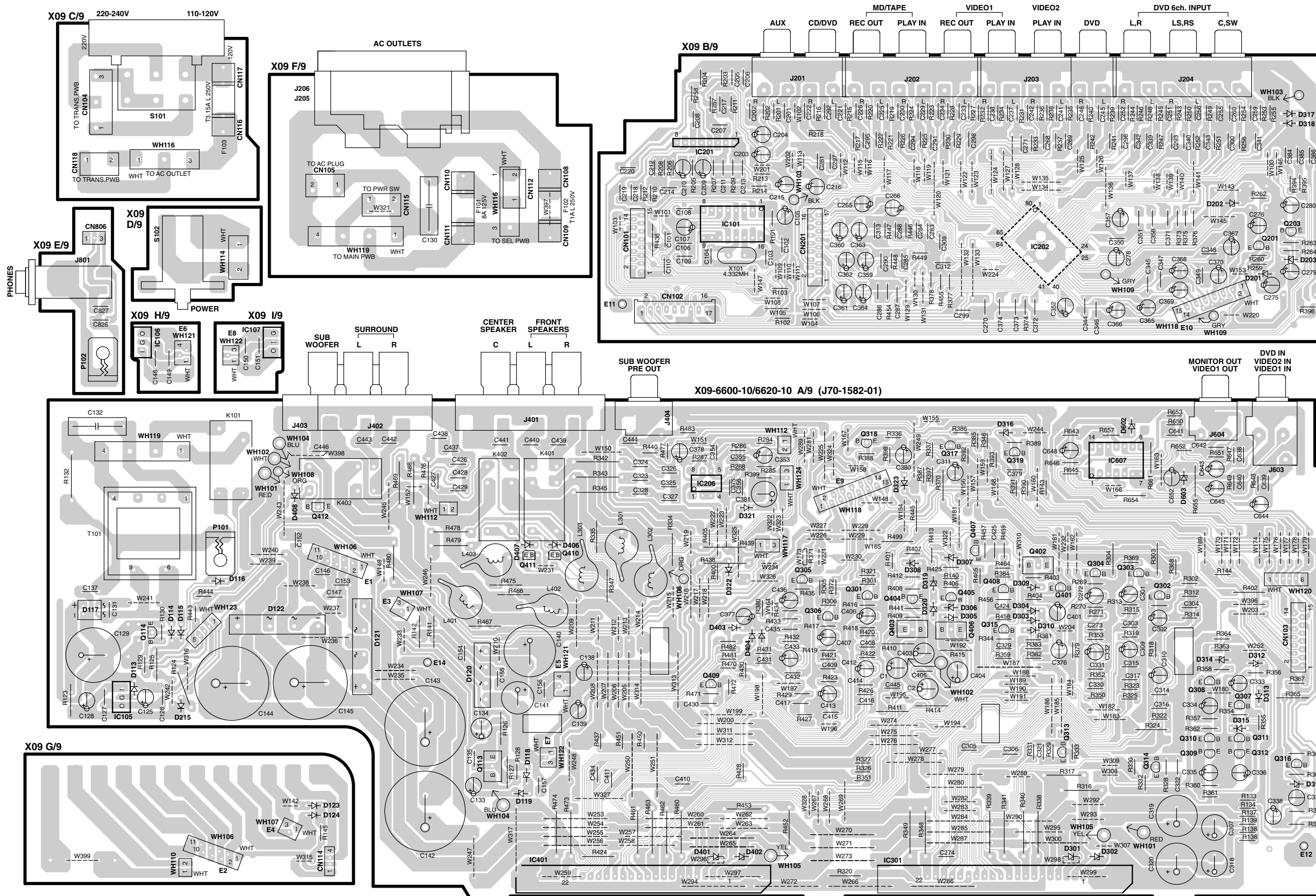
X14-7470-10/7480-10 A/2  
(J70-1583-01)



X14 B/2



# PC BOARD (Component side view)



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

KRF-V4060D (X08-3160-10)		
DESTINATION	ABB.	UNIT No.
EUROPE	E	0-10
U.K.	T	

KRF-V4060DE (X08-3160-10)		
DESTINATION	ABB.	UNIT No.
EUROPE	E	0-10
U.K.	T	
AUSTRALIA	X	0-10
GENERAL MARKET	M	0-21

VR-605 (X08-3160-10)		
DESTINATION	ABB.	UNIT No.
U.S.A.	K	0-10
CANADA	P	

KRF-V5060D (X08-3160-XX)		
DESTINATION	ABB.	UNIT No.
EUROPE	E	0-10
U.K.	T	
PX	Y	0-21

KRF-V5060D-S (X08-3160-XX)		
DESTINATION	ABB.	UNIT No.
EUROPE	E3	0-10
U.K.	T1	
AUSTRALIA	X	
GENERAL MARKET	M	0-21

KRF-V5060DE (X08-3160-10)		
DESTINATION	ABB.	UNIT No.
EUROPE	E	0-10
U.K.	T	
PX	Y	0-21

VR-615 (X08-3160-10)		
DESTINATION	ABB.	UNIT No.
U.S.A.	K	0-10
CANADA	P	

KRF-V5560D (X08-3160-XX)		
DESTINATION	ABB.	UNIT No.
EUROPE	E	0-10
U.K.	T	
PX	Y	0-21

KRF-V5560D-S (X08-3160-XX)		
DESTINATION	ABB.	UNIT No.
EUROPE	E3	0-10
U.K.	T1	
AUSTRALIA	X	
KOREA	H	
GENERAL MARKET	M	0-21

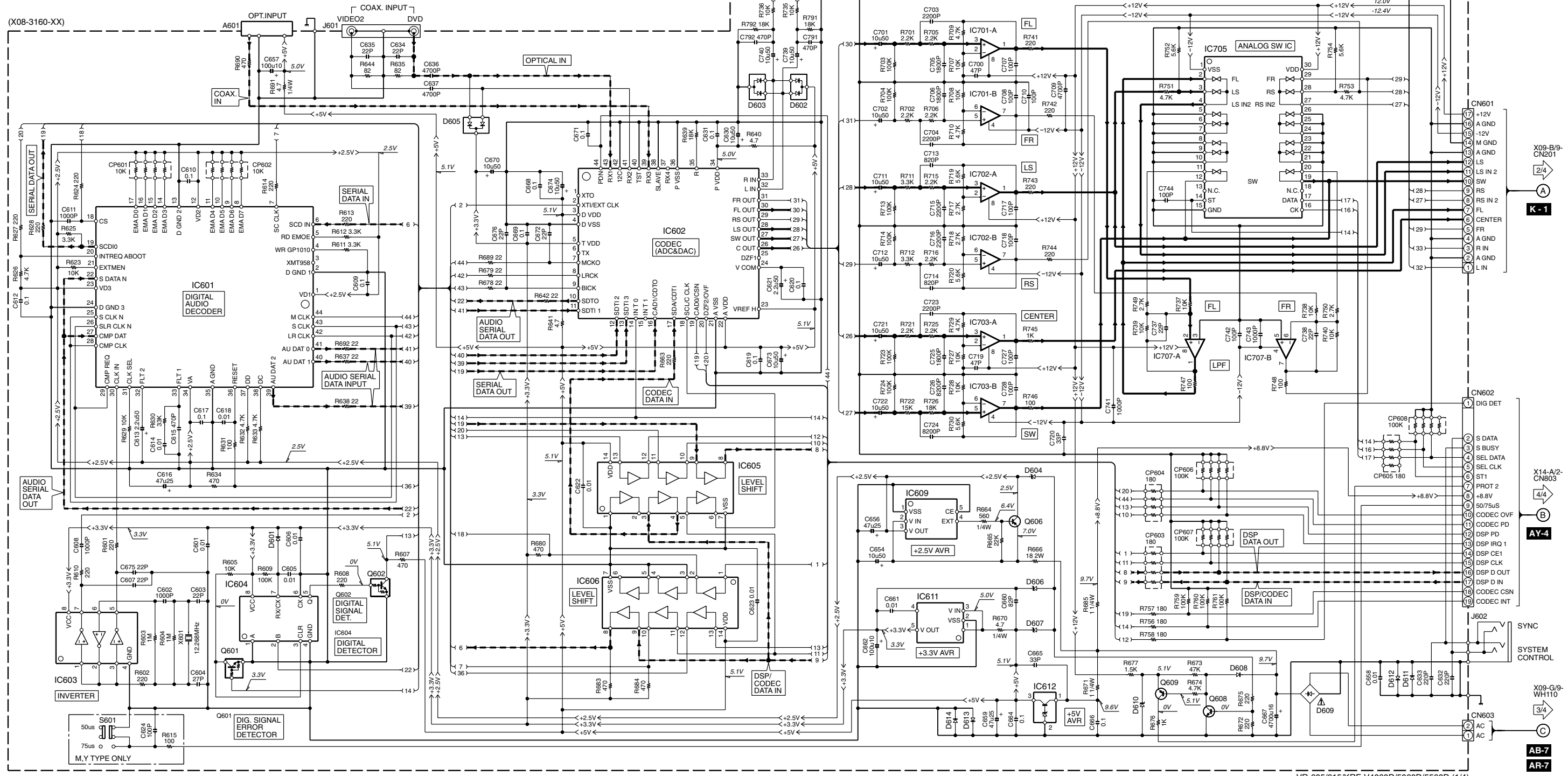
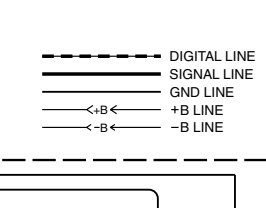
IC601	: CS493264-CLR
IC602	: AK4586
IC603	: TC7WU04FU
IC604	: TC7WH123FU
IC605	: TC74HCT7007AF
IC606	: TC74HC07AF

IC609	: XC62EP2502MR
IC611	: BA03LBSG
IC612	: BA05T
IC701-703,707	: NUM4565MD
IC705	: NUJ7311AM

Q601,602	: DTC124EUA or UN5212
Q606	: 2SB1375
Q608	: 2SC4081(R,S) or 2SD1819A(Q,R)
Q609	: 2SA1576A(R,S) or 2SB1218A(Q,R)

D601,608,611-614	: MA111
D602,605	: 1SS301 or DAN202U or MA142WK
D603	: 1SS300 or DAF202U or MA142WA

D604	: UDZ3.9B or HZU3.9(B2)
D606,607	: UDZ5.6B or HZU5.6(B2)
D609	: D2SBA20F03
D610	: UDZ5.1B or HZU5.1(B2)



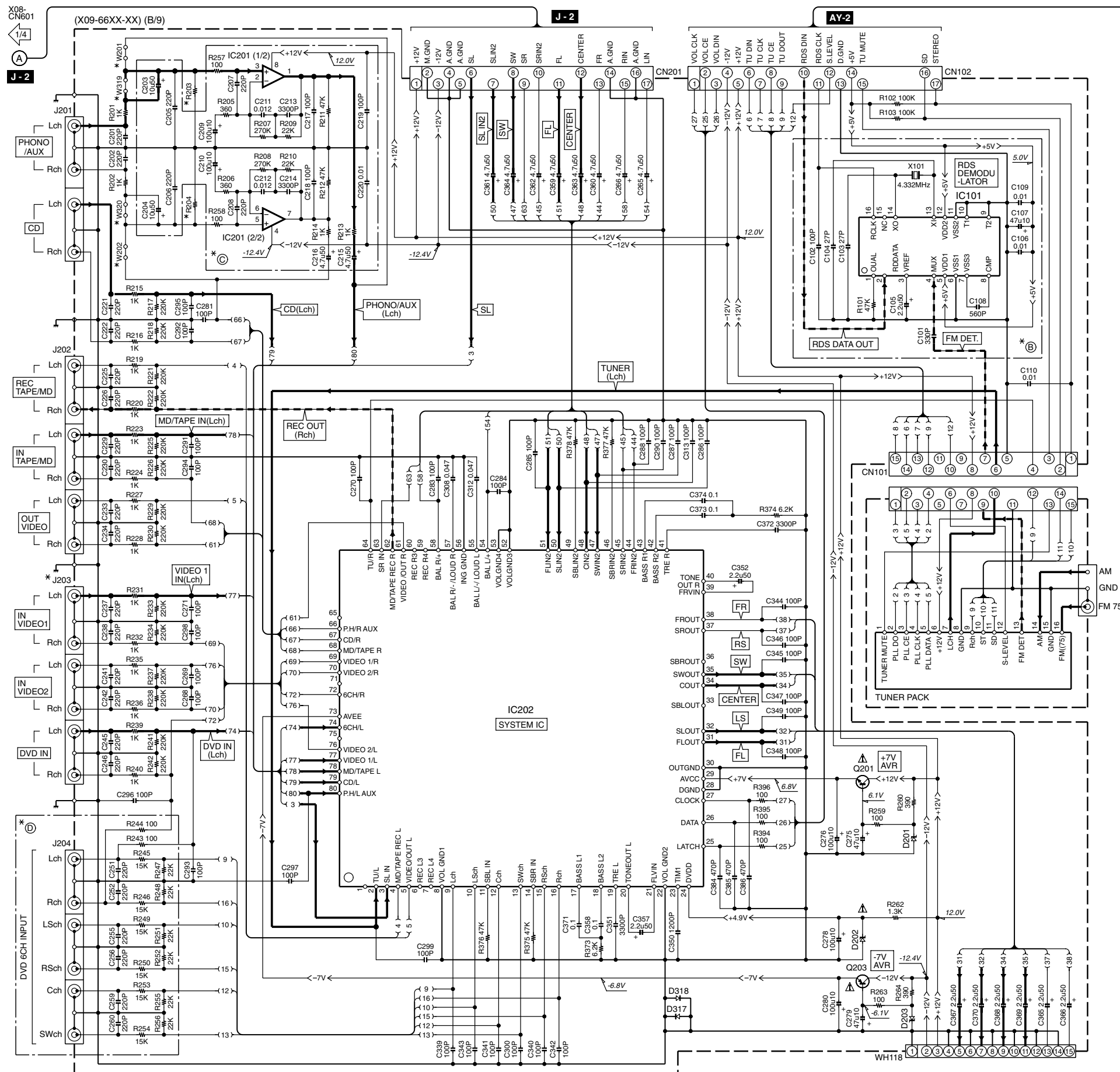
VR-605/615/KRF-V4060D/5060D/5560D (1/4)

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  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.

**KRF-V4060D/V5060D/V5560D/VR-605/615**

**KENWOOD**



KRF-V4060D (X09-660X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E	2-72	YES	NO	E63-1258-05	47K	YES		
U.K.	T	0-52							

KRF-V4060D-S (X09-660X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E3	2-72	YES	NO	E63-1258-05	47K	YES		
U.K.	T1	0-52							
AUSTRALIA	X	0-72	NO	NO	E63-1258-05	47K	YES		
GENERAL MARKET	M	0-22							

KRF-V4060DE (X09-6602-72)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E1	2-72	YES	NO	E63-1258-05	47K	YES		

KRF-V4060DE-S (X09-6602-72)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E2	2-72	YES	NO	E63-1258-05	47K	YES		

VR-605 (X09-6600-10)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
U.S.A.	K	0-10	NO	NO	E63-1258-05	47K	YES		
CANADA	P								

KRF-V5060D (X09-660X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E	2-71	YES	YES	E63-1256-05	30K	NO		
U.K.	T	0-51					YES		
PX	Y	2-91	NO	NO		47K	NO		

KRF-5060D-S (X09-660X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E3	2-71	YES	YES	E63-1256-05	30K	NO		
U.K.	T1	0-51					YES		
AUSTRALIA	X	0-71	NO	YES	E63-1256-05	47K	YES		
GENERAL MARKET	M	0-21							

KRF-5060DE (X09-6602-71)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E1	2-71	YES	YES	E63-1256-05	30K	NO		

VR-615 (X09-6610-10)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
U.S.A.	K	0-10	NO	YES	E63-1256-05	47K	YES		
CANADA	P								

KRF-V5560D (X09-6612-XX)

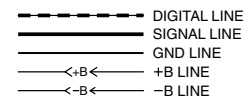
DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E	2-71	YES	NO	E63-1258-05	47K	YES		
PX	Y	2-91	NO	NO					

KRF-V5560D-S (X09-661X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(B)	(C)	(D)	J203	R203, 204	W201,202, 319,320
EUROPE	E3	2-71	YES	NO	E63-1258-05	47K	YES		
U.K.	T1	0-51							
AUSTRALIA	X	0-71	NO	NO	E63-1258-05	47K	YES		
KOREA	H	4-11							
GENERAL MARKET	M	0-21							

- IC101 : BU1923
- IC201 : NJM4580L-D
- IC202 : M61516FP
- Q201 : 2SC1845(F,E)
- Q203 : 2SA992(F,E)
- D201,203 : MTZJ6.8(B) or HZS6.8N(B2)
- D202 : MTZJ5.1(B) or HZS5.1N(B2)
- D317,318 : 1SS133 or HSS104A

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  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.



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

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.

U-3  
AJ-3

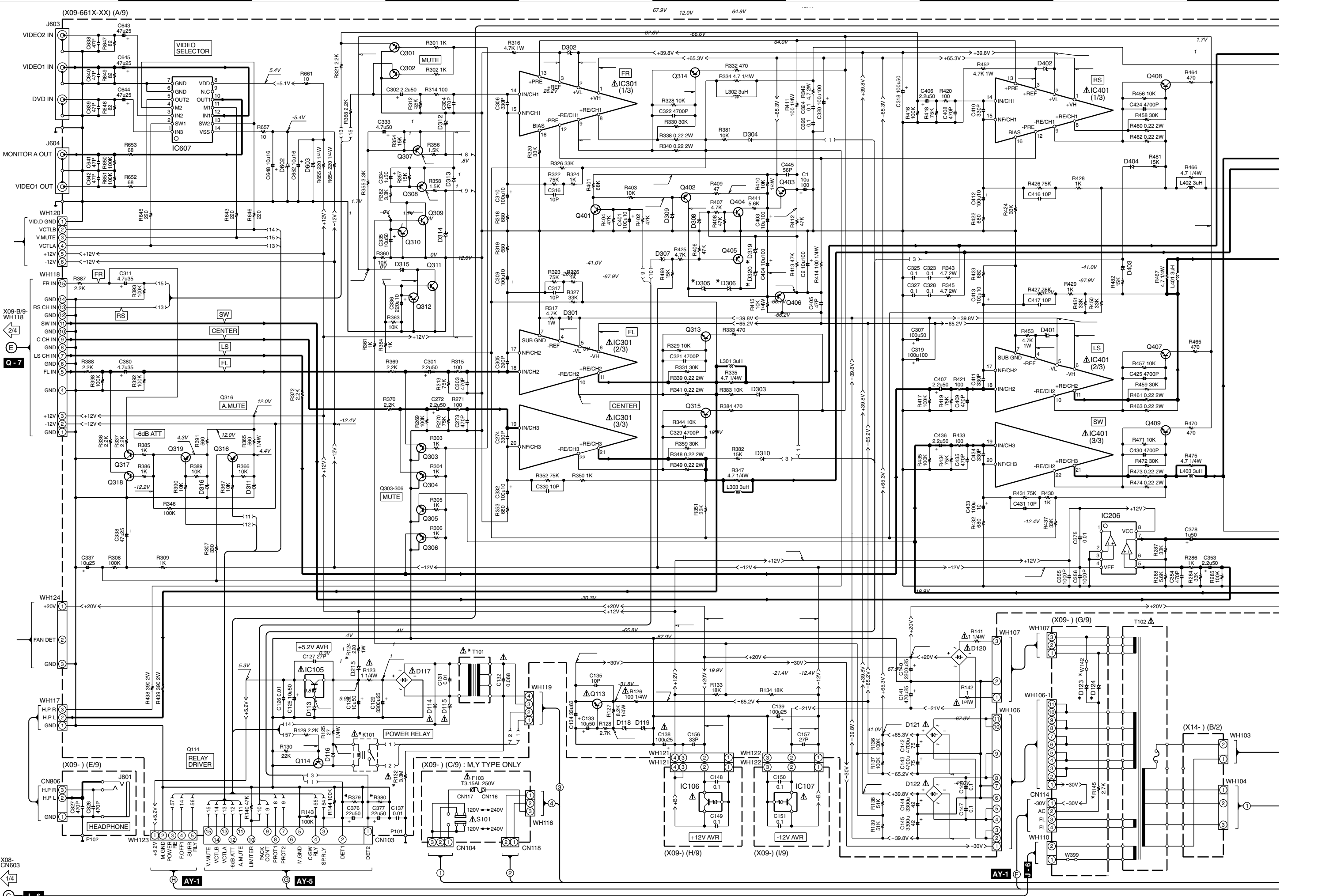
VR-605/615/KRF-V4060D/5060D/5560D (2/4)

U-3  
AJ-3

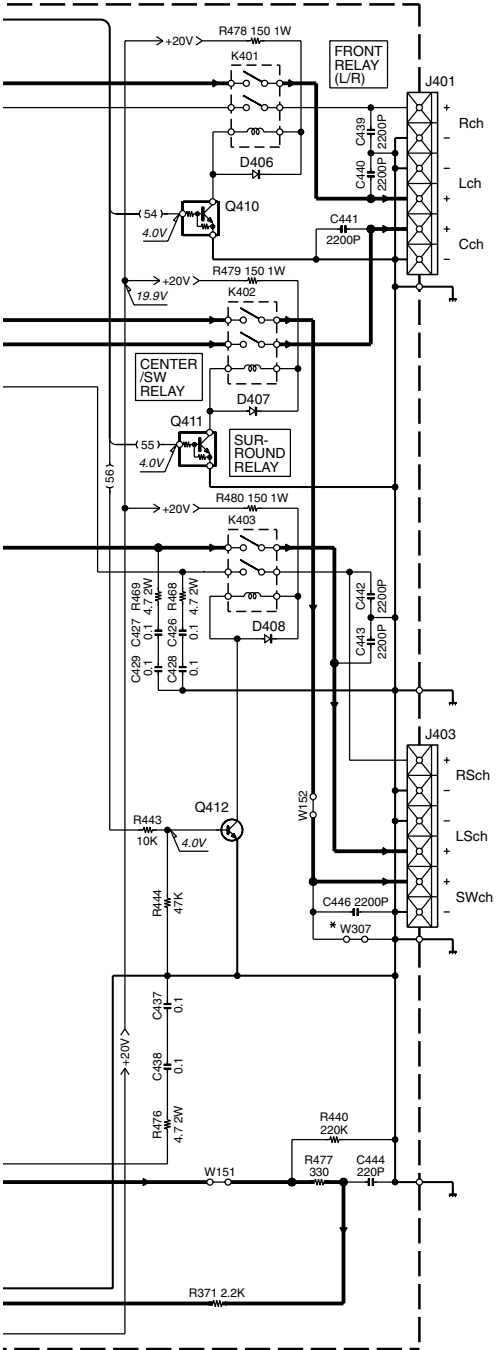
KRF-V4060D/V5060D/V5560D/VR-605/615

Y05-4530-10

KENWOOD



(X09-661x-xx) (A/9)



VR615 (X09-6610-10)

DESTINATION	COUNTRY	UNIT No.	C130	CN108	CN112	D123	D305, 306	D319, 320	D319, 320	F101	F102	J205	J206	K101	R124, 132	R124, 145	R379, 380	R145	S102	T101	W142	W321, 397
U.S.A.	K	D-10	0.088 or 8800P	NO	YES	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	MTZJ15(B) or HZS15N(B2)	6A 125V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CANADA	P			NO	NO	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	MTZJ15(B) or HZS15N(B2)	125V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

KRF-V5560D (X09-6612-XX)

DESTINATION	COUNTRY	UNIT No.	E	Y	2-71	8800P	CN108	CN112	D123	D305, 306	D319, 320	D319, 320	F101	F102	J205	J206	K101	R124, 145	R132	R379, 380	R124, 145	R132	S102	T101	W142	W321, 397	
EUROPE	E	2-71	YES	NO	NO	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	MTZJ15(B) or HZS15N(B2)	YES	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	T3,15AL 250V	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PX	Y	2-91	NO	NO	NO	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	MTZJ15(B) or HZS15N(B2)	YES	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	T3,15AL 250V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

KRF-V5560D-S (X09-661X-XX)

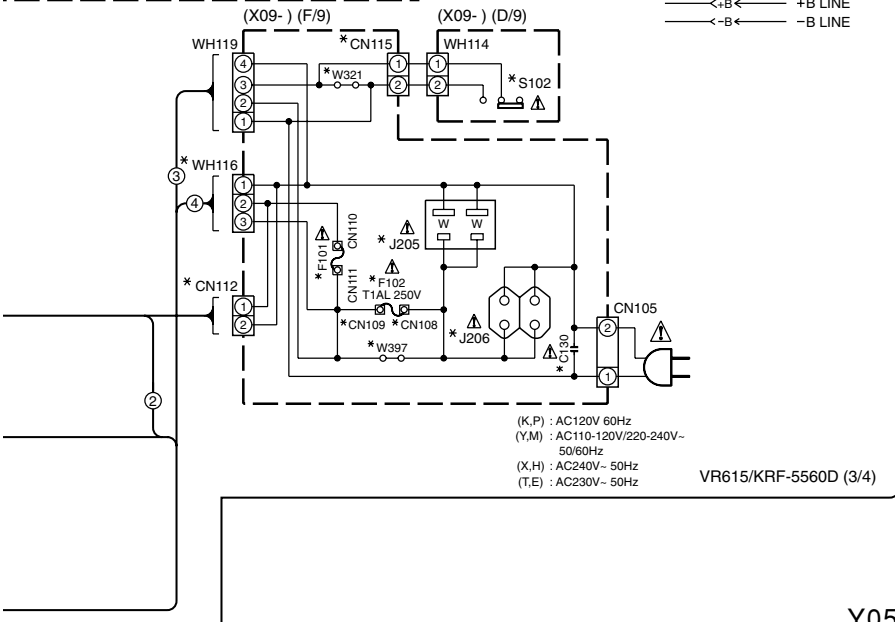
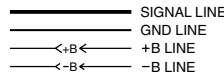
DESTINATION	COUNTRY	UNIT No.	ABB	E3	2-71	0-51	0-71	8800P	CN108	CN112	D123	D305, 306	D319, 320	D319, 320	F101	F102	J205	J206	K101	R124, 145	R132	R379, 380	R124, 145	R132	S102	T101	W142	W321, 397
EUROPE	E	2-71	YES	YES	NO	NO	NO	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	MTZJ15(B) or HZS15N(B2)	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	T3,15AL 250V	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
AUSTRALIA	X	0-51	NO	NO	NO	NO	NO	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	MTZJ15(B) or HZS15N(B2)	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	T3,15AL 250V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
GENERAL MARKET	M	0-21	NO	NO	NO	NO	NO	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	MTZJ15(B) or HZS15N(B2)	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	T3,15AL 250V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
KOREA	H	4-11	NO	NO	NO	NO	NO	NO	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	MTZJ15(B) or HZS15N(B2)	MTZJ11(B) or HZS11N(B2)	MTZJ13(B) or HZS13N(B2)	T3,15AL 250V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

- IC105 : BA05T
- IC106 : KIA7812API
- IC107 : KIA7912PI
- IC206 : NJM4565D
- IC301,401 : STK413-220A or STK413-020A
- IC607 : NJM2279D

- Q113,406 : 2SB1640
- Q114,412 : 2SC1740S(Q,R) or 2SC2878(F,E)
- Q301-306,317,318 : 2SC2878(B)
- Q307,308,316,319,405 : 2SA992(F,E)
- Q309-315,401,404, 407-409 : 2SC1845(F,E)
- Q402 : 2SA1535A
- Q403 : 2SC3944A
- Q410,411 : UN4219 or DTC113ZSA

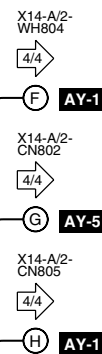
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). **⚠** indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric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

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



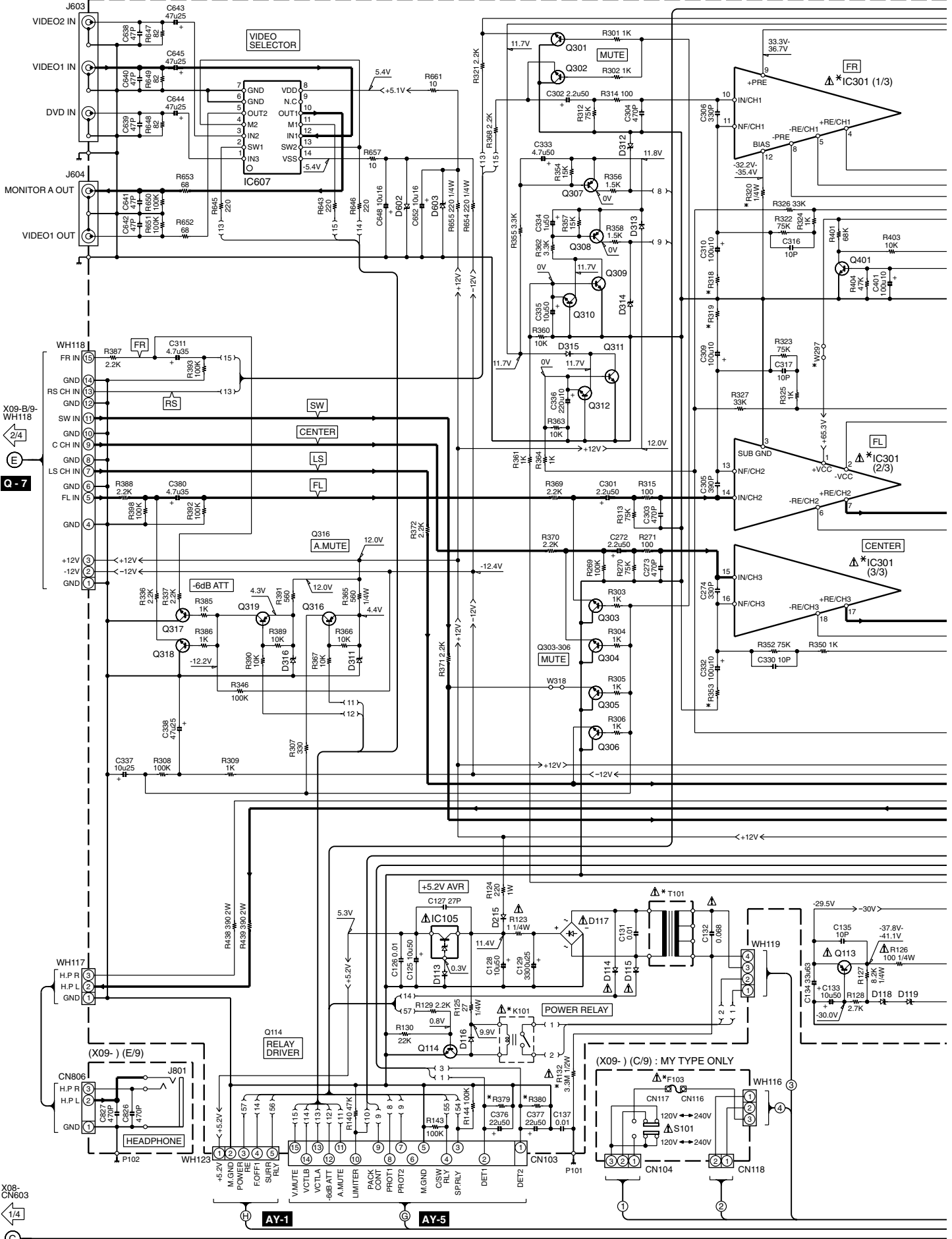
- (K,P) : AC120V 60Hz
- (Y,M) : AC110-120V/220-240V-50/60Hz
- (X,H) : AC240V-50Hz
- (T,E) : AC230V-50Hz

VR615/KRF-5560D (3/4)



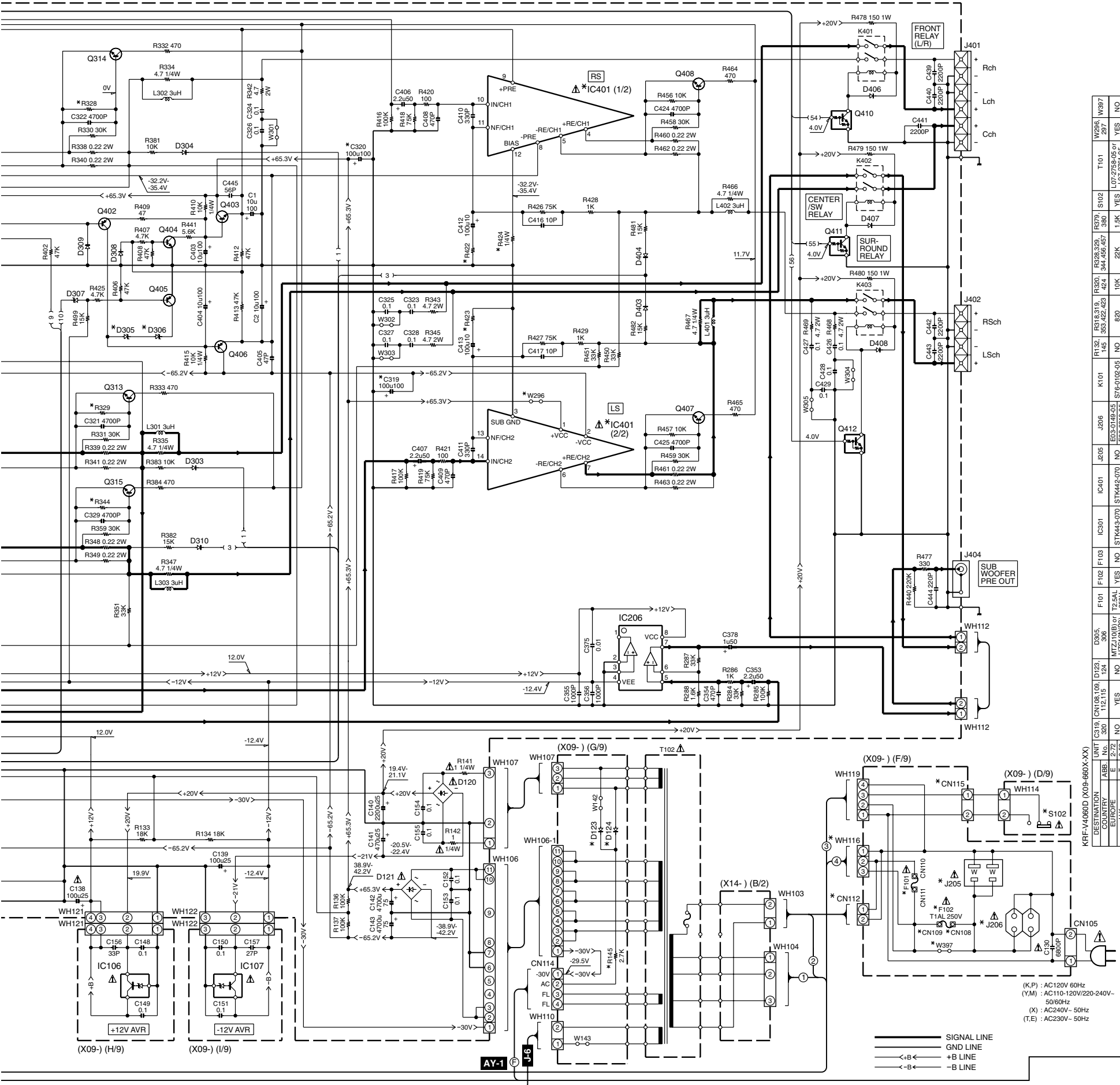


(X09-660X-XX) (A/9)



X08-CN603

(X09-660x-xx) (A/9)



KRF-V4060D (X09-660X-XX)

UNIT	C319	CN108	D123	D305	F101	F102	F103	IC301	IC401	J205	J206	K101	R132	R318,319	R320	R328,329	R379	S102	T101	W296	W397
DESTINATION	No.	No.	No.	No.	MTZJ10(B) or T2.5AL	YES	NO	STK443-070	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
COUNTRY	E3	2-72	NO	YES	NO	HZS10N(BE)	250V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
U.K.																					

KRF-V4060D-S (X09-660X-XX)

UNIT	C319	CN108	D123	D305	F101	F102	F103	IC301	IC401	J205	J206	K101	R132	R318,319	R320	R328,329	R379	S102	T101	W296	W397
DESTINATION	No.	No.	No.	No.	MTZJ10(B) or T2.5AL	YES	NO	STK443-070	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
COUNTRY	E3	2-72	NO	YES	NO	HZS10N(BE)	250V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
U.K.																					

KRF-V4060D-S (X09-660X-XX)

UNIT	C319	CN108	D123	D305	F101	F102	F103	IC301	IC401	J205	J206	K101	R132	R318,319	R320	R328,329	R379	S102	T101	W296	W397
DESTINATION	No.	No.	No.	No.	MTZJ10(B) or T2.5AL	YES	NO	STK443-070	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
COUNTRY	E3	2-72	NO	YES	NO	HZS10N(BE)	250V	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
U.K.																					

IC105 : BA05T  
IC106 : KIA7812AP1  
IC107 : KIA7912PI  
IC206 : NJM4565D  
IC301 : \*  
IC401 : \*  
IC607 : NJM2279D

Q113,406 : 2SB1640  
Q114,412 : 2SC1740S(Q,R) or 2SC2785(F,E)  
Q301-306,317,318 : 2SC2878(B)  
Q307,308,316,319,405 : 2SA992(F,E)  
Q309-315,401,404,407,408 : 2SC1845(F,E)  
Q402 : 2SA1535A  
Q403 : 2SC3944A  
Q410-411 : UN4219 or DTC113Z5A

D113 : RB441Q-40  
D114-116,123,124,215,303,304,309-310,313,315,403,404,406-408,411,412 : 1SS133 or 1SS134  
D117 : S12B20(4101)  
D118 : MTZJ16(B) or HZS16N(B2)  
D119,401 : MTZJ15(B) or HZS15N(B2)  
D120 : HZS15N(B2)  
D121 : D2SBA20F03  
D2SBA20F03  
D305,306 : \*  
D307,311,312,314,316 : \*  
Q309-315,401,404,407,408 : 2SC1845(F,E)  
Q402 : 2SA1535A  
Q403 : 2SC3944A  
Q410-411 : UN4219 or DTC113Z5A

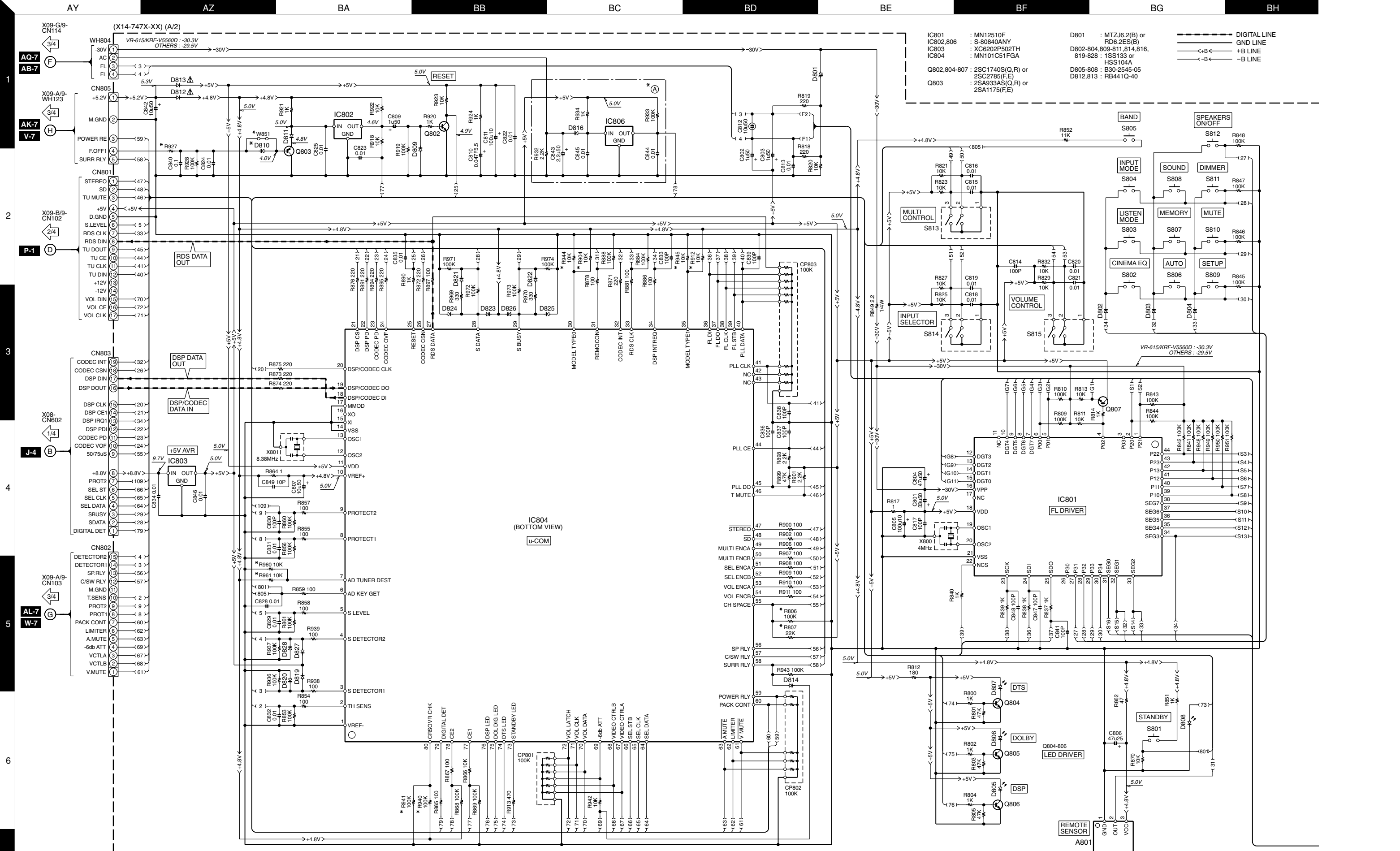
VR-605/KRF-V4060D/5060D (3/4)

AV-1  
AV-5

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

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

# KRF-V4060D/V5060D/VR-605



- |                        |   |                  |
|------------------------|---|------------------|
| IC801 : MN12510F       | D801 : MTZJ6.2(B) or RD6.2ES(B)                       | --- DIGITAL LINE |
| IC802,806 : S-80840ANY | D802-804,809-811,814,816, 819-828 : 1SS133 or HSS104A | --- GND LINE     |
| IC803 : XC6202P502TH   | D805-808 : B30-2545-05                                | --- +B LINE      |
| IC804 : MN101C51FGA    | D812,813 : RB441Q-40                                  | --- -B LINE      |
- Q802,804-807 : 2SC1740S(Q,R) or 2SC2785(F,E)  
 Q803 : 2SA933AS(Q,R) or 2SA1175(F,E)

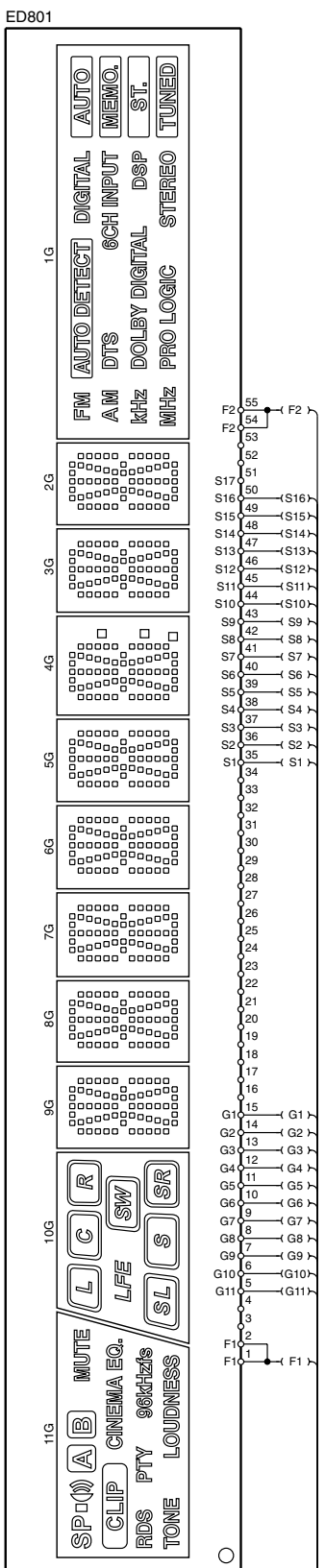
IC804 (BOTTOM VIEW)  
u-COM

IC801  
FL DRIVER

Q804-806  
LED DRIVER

REMOTE SENSOR  
A801

(X14-747X-XX) (A/2)



VR-605/615/KRF-V4060D/5060D/5560D (4/4)

KRF-V4060D (X14-7472-73)

DESTINATION	UNIT	(A)	D810	R806, 904, 941, 945, 961	R807, 866, 912, 940, 944, 960	R927	W851
COUNTRY	ABB. No.						
EUROPE	E		NO	YES	NO	160K	YES
U.K.	T	2-73	NO	NO	YES	NO	YES

KRF-V4060D-S (X14-747X-XX)

DESTINATION	UNIT	(A)	D810	R806, 940	R807, 866	R904, 941, 945, 961	R912, 944	R927	R960	W851
COUNTRY	ABB. No.									
GENERAL MARKET	M	0-23	YES	YES	NO	YES				NO
AUSTRALIA	X	0-73						62K 180K	YES	
EUROPE	E3		NO	NO	YES	NO	NO	160K	NO	YES
U.K.	T1	2-73	NO	NO	YES	NO				

KRF-V4060DE (X14-7472-73)

DESTINATION	UNIT	(A)	D810	R806, 904, 941, 945, 961	R807, 866, 912, 940, 944, 960	R927	W851
COUNTRY	ABB. No.						
EUROPE	E1	2-73	NO	NO	YES	NO	160K YES

KRF-V4060DE-S (X14-7472-73)

DESTINATION	UNIT	(A)	D810	R806, 904, 941, 945, 961	R807, 866, 912, 940, 944, 960	R927	W851
COUNTRY	ABB. No.						
EUROPE	E2	2-73	NO	NO	YES	NO	160K YES

VR605 (X14-7470-10)

DESTINATION	UNIT	(A)	D810	R806, 904, 941, 945, 960	R807, 866, 912, 940, 944, 960	R927	W851
COUNTRY	ABB. No.						
U.S.A	K	0-10	NO	YES	YES	NO	56K NO
CANADA	P						

KRF-V5060D (X14-747X-XX)

DESTINATION	UNIT	(A)	D810	R806, 945	R807, 866, 912, 960	R904, 940	R927	R941, 944, 961	W851
COUNTRY	ABB. No.								
PX	Y	0-21	YES	YES	NO	YES		62K	NO
EUROPE	E		NO	NO	YES	NO	NO	160K	YES
U.K.	T	2-71	NO	NO	YES	NO			YES

KRF-V5060D-S (X14-747X-XX)

DESTINATION	UNIT	(A)	D810	R806	R807, 866	R904, 940	R912	R927	R941, 944, 961	R945	R960	W851
COUNTRY	ABB. No.											
GENERAL MARKET	M	0-21	YES	YES	NO	YES		62K		NO	YES	NO
AUSTRALIA	X	0-71					YES	180K				
EUROPE	E3		NO	NO	YES	NO	NO	160K	YES	YES	NO	YES
U.K.	T1	2-71	NO	NO	YES	NO						

KRF-V5060DE (X14-7472-71)

DESTINATION	UNIT	(A)	D810	R806, 941, 944, 945, 961	R807, 866, 904, 912, 940, 960	R927	W851
COUNTRY	ABB. No.						
EUROPE	E1	2-71	NO	NO	YES	NO	160K YES

VR-615 (X14-7470-11)

DESTINATION	UNIT	(A)	D810	R806, 912, 940, 944, 960	R807, 866, 904, 941, 945, 961	R927	W851
COUNTRY	ABB. No.						
U.S.A	K		NO	YES	YES	NO	56K NO
CANADA	P	0-11					

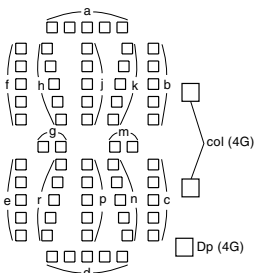
KRF-V5560D (X14-747X-XX)

DESTINATION	UNIT	(A)	D810	R806	R807, 866, 960	R904, 941, 945, 961	R912, 940, 944	R927	W851
COUNTRY	ABB. No.								
PX	Y	0-22	YES	YES	NO	YES	NO	62K	NO
EUROPE	E	2-72	NO	NO	YES	NO	NO	160K	YES

KRF-V5560D-S (X14-747X-XX)

DESTINATION	UNIT	(A)	D810	R806	R807, 866	R904, 941, 945, 961	R912, 940, 944	R927	R960	W851
COUNTRY	ABB. No.									
GENERAL MARKET	M	0-22	YES	YES	NO	YES		62K	YES	NO
AUSTRALIA	X	0-72						180K		
EUROPE	E3		NO	NO	YES	NO	NO	160K	NO	YES
U.K.	T1	2-72								
KOREA	H									

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	SPD(1)	L	a	a	a	a	a	a	a	a	FM
P2	(A)	C	j	j	j	j	j	j	j	j	AM
P3	(B)	R	h	h	h	h	h	h	h	h	MHz
P4	MUTE	SL	k	k	k	k	k	k	k	k	kHz
P5	CLIP	S	b	b	b	b	b	b	b	b	AUTO
P6	CINEMA EQ.	SR	f	f	f	f	f	f	f	f	MEMO.
P7	-	LFE	g	g	g	g	g	g	g	g	ST.
P8	-	SW	m	m	m	m	m	m	m	m	TUNED
P9	RDS	(L)	c	c	c	c	c	c	c	c	AUTO DETECT
P10	PTY	(C)	e	e	e	e	e	e	e	e	DTS
P11	96kHz	(R)	r	r	r	r	r	r	r	r	DOLBY DIGITAL
P12	TOPE	(SL)	n	n	n	n	n	n	n	n	PRO LOGIC
P13	LOUDNESS	(S)	p	p	p	p	p	p	p	p	DIGITAL
P14	-	(SR)	d	d	d	d	d	d	d	d	6CH INPUT
P15	-	(SW)	-	-	-	-	-	-	-	-	DSP
P16	-	-	-	-	-	-	-	-	-	-	STEREO

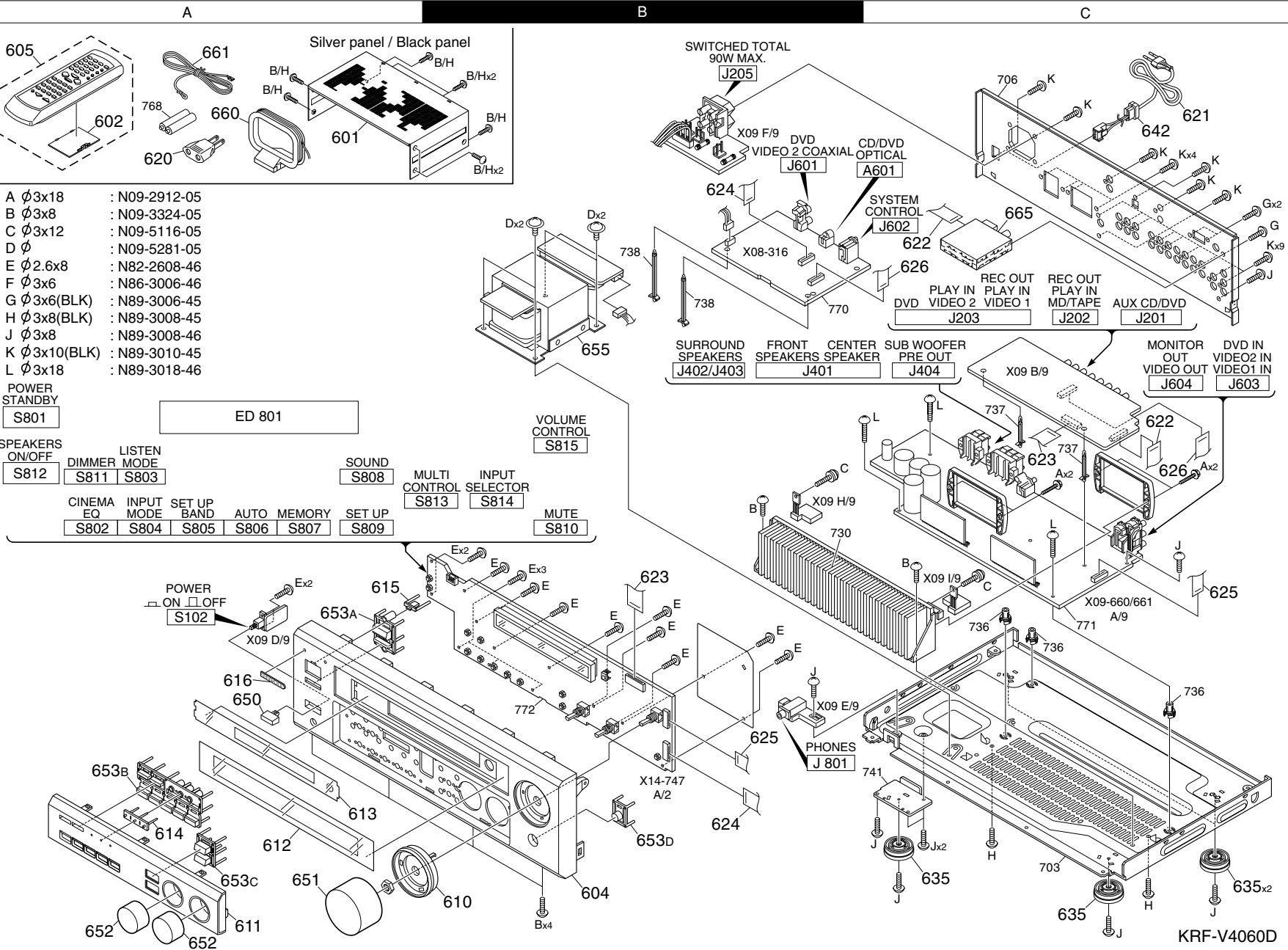


**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of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

KRF-V4060D/V5060D/V5560D/VR-605/615

EXPLODED VIEW



- A  $\phi$ 3x18 : N09-2912-05
- B  $\phi$ 3x8 : N09-3324-05
- C  $\phi$ 3x12 : N09-5116-05
- D  $\phi$  : N09-5281-05
- E  $\phi$ 2.6x8 : N82-2608-46
- F  $\phi$ 3x6 : N86-3006-46
- G  $\phi$ 3x6(BLK) : N89-3006-45
- H  $\phi$ 3x8(BLK) : N89-3008-45
- J  $\phi$ 3x8 : N89-3008-46
- K  $\phi$ 3x10(BLK) : N89-3010-45
- L  $\phi$ 3x18 : N89-3018-46

POWER STANDBY S801

ED 801

VOLUME CONTROL S815

SPEAKERS ON/OFF S812

LISTEN DIMMER MODE S811 S803

SOUND S808

MULTI CONTROL S813

INPUT SELECTOR S814

CINEMA EQ S802

INPUT MODE S804

SET UP BAND S805

AUTO MEMORY S806 S807

SET UP S809

MUTE S810

POWER ON/OFF S102

PHONES J 801

KRF-V4060D

\* New Parts

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①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
<b>KRF-V4060D</b>						
601	1A		A01-3844-01	METALLIC CABINET	EE1T	
601	1A		A01-3848-01	METALLIC CABINET	E2E3M	
601	1A		A01-3848-01	METALLIC CABINET	XT1	
602	2B		A09-1178-08	BATTERY COVER		
604	2B		A60-2190-11	PANEL	EE1T	
604	2B		A60-2191-11	PANEL	E2E3M	
604	2B		A60-2191-11	PANEL	XT1	
605	1A		A70-1564-05	REMOTE CONTROLLER ASSY	MX	
605	1A		A70-1566-05	REMOTE CONTROLLER ASSY	EE1E2	
605	1A		A70-1566-05	REMOTE CONTROLLER ASSY	E3TT1	
610	2B		B07-2606-03	ESCUTCHEON	EE1T	
610	2B		B07-2607-03	ESCUTCHEON	E2E3M	
610	2B		B07-2607-03	ESCUTCHEON	XT1	
611	2A		B07-2610-01	ESCUTCHEON	EE1T	
611	2A		B07-2611-01	ESCUTCHEON	E2E3M	
611	2A		B07-2611-01	ESCUTCHEON	XT1	
612	2A	*	B10-3813-02	FRONT GLASS	MX	
612	2A	*	B10-3814-02	FRONT GLASS	EE1E2	
612	2A	*	B10-3814-02	FRONT GLASS	E3TT1	
613	2A		B11-1547-03	COLOR FILTER		
614	2A		B12-0448-04	INDICATOR		
615	2A		B12-0465-04	INDICATOR		
616	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	EE1E2	
-			B46-0310-03	WARRANTY CARD	E3TT1	
-			B58-0945-03	CAUTION CARD	TT1	
-			B58-0965-13	CAUTION CARD (PL)	XTT1	
-			B58-0966-13	CAUTION CARD (PL)	EE3M	
-			B58-1607-03	CAUTION CARD	E1E2	
-			B60-5197-00	INSTRUCTION MANUAL(EN)	E1E2M	
-			B60-5197-00	INSTRUCTION MANUAL(EN)	XTT1	
-			B60-5199-00	INSTRUCTION MANUAL(ES/FR/GE)	EE3	
-		*	B60-5200-00	INSTRUCTION MANUAL(PL/RU/CZ)	E1E2	
-			B60-5201-00	INSTRUCTION MANUAL(ES/TC)	M	
△ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
△ 621	1C		E30-2717-05	AC POWER CORD	X	
△ 621	1C		E30-2721-05	AC POWER CORD	TT1	
△ 621	1C		E30-2942-05	AC POWER CORD	EE1E2	
△ 621	1C		E30-2942-05	AC POWER CORD	E3M	
622	1C		E35-3197-15	FLAT CABLE		
623	2B,1C		E35-3198-15	FLAT CABLE		
624	1B,2B		E35-3199-15	FLAT CABLE		
625	2B,2C		E35-3200-15	FLAT CABLE		
626	1C		E35-3201-15	FLAT CABLE		
-			G10-0485-04	NON-WOVEN FABRIC		
-			H10-7804-01	POLYSTYRENE FOAMED FIXTURE		
-			H10-7805-01	POLYSTYRENE FOAMED FIXTURE		
-			H21-1515-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		*	H50-4393-04	ITEM CARTON CASE	E	

L : Scandinavia    K : USA    P : Canada    R : Mexico    C : China    I : Malaysia  
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\* New Parts

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②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-		*	H50-4394-04	ITEM CARTON CASE	T	
-		*	H50-4395-04	ITEM CARTON CASE	E1	
-		*	H50-4396-04	ITEM CARTON CASE	M	
-		*	H50-4397-04	ITEM CARTON CASE	XT1	
-		*	H50-4399-04	ITEM CARTON CASE	E3	
-		*	H50-4401-04	ITEM CARTON CASE	E2	
△ 635	2C		J02-1464-03	FOOT		
△ 642	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A		K27-2384-04	KNOB (BUTTON)	EE1T	
650	2A		K27-2481-04	KNOB (BUTTON)	E2E3M	
650	2A		K27-2481-04	KNOB (BUTTON)	XT1	
651	2A		K29-8103-04	KNOB	EE1T	
651	2A		K29-8104-04	KNOB	E2E3M	
651	2A		K29-8104-04	KNOB	XT1	
652	2A		K29-8105-04	KNOB	EE1T	
652	2A		K29-8106-04	KNOB	E2E3M	
652	2A		K29-8106-04	KNOB	XT1	
653	2A,2B		K29-8117-01	KNOB	EE1T	
653	2A,2B		K29-8119-01	KNOB	E2E3M	
653	2A,2B		K29-8119-01	KNOB	XT1	
△ 655	1B	*	L07-3167-15	POWER TRANSFORMER	EE1E2	
△ 655	1B	*	L07-3167-15	POWER TRANSFORMER	E3TT1	
△ 655	1B	*	L07-3168-15	POWER TRANSFORMER	M	
△ 655	1B	*	L07-3169-15	POWER TRANSFORMER	X	
660	1A		T90-0852-05	LOOP ANTENNA		
661	1A		T90-0877-05	LEAD WIRE ANTENNA		
665	1C		W02-2889-05	TUNER ASSY	MX	
665	1C		W02-2890-05	TUNER ASSY	EE1E2	
665	1C		W02-2890-05	TUNER ASSY	E3TT1	
665	1C		W02-2891-05	TUNER ASSY	EE1E2	
665	1C		W02-2891-05	TUNER ASSY	E3TT1	
<b>KRF-V5060D/VR-605</b>						
601	1A	*	A01-3844-01	METALLIC CABINET	ETE1	
601	1A	*	A01-3844-01	METALLIC CABINET	KPY	
601	1A	*	A01-3848-01	METALLIC CABINET	MXE3T1	
602	1A		A09-1178-08	BATTERY COVER		
604	2B	*	A60-2186-11	PANEL	KP	
604	2B	*	A60-2190-11	PANEL	YETE1	
604	2B	*	A60-2191-11	PANEL	MXE3T1	
605	1A	*	A70-1563-05	REMOTE CONTROLLER ASSY	YMX	
605	1A	*	A70-1564-05	REMOTE CONTROLLER ASSY	KP	
605	1A	*	A70-1565-05	REMOTE CONTROLLER ASSY	ETE1	
605	1A	*	A70-1565-05	REMOTE CONTROLLER ASSY	E3T1	
610	2B	*	B07-2606-03	ESCUTCHEON	ETE1	
610	2B	*	B07-2606-03	ESCUTCHEON	KPY	
610	2B	*	B07-2607-03	ESCUTCHEON	MXE3T1	
611	2A	*	B07-2610-01	ESCUTCHEON	ETE1	
611	2A	*	B07-2610-01	ESCUTCHEON	KPY	

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PARTS LIST

KRF-V4060D/V5060D/V5560D/VR-605/615

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③

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
611	2A	*	B07-2611-01	ESCUTCHEON	MXE3T1	
612	2A	*	B10-3805-02	FRONT GLASS	KP	
612	2A	*	B10-3808-02	FRONT GLASS	YMX	
612	2A	*	B10-3809-02	FRONT GLASS	ETE1	
612	2A	*	B10-3809-02	FRONT GLASS	E3T1	
613	2A	*	B11-1547-03	COLOR FILTER		
614	2A	*	B12-0448-04	INDICATOR		
615	2A	*	B12-0465-04	INDICATOR		
616	2A		B43-0314-04	KENWOOD BADGE		
			B46-0096-53	WARRANTY CARD	X	
			B46-0310-03	WARRANTY CARD	ETE1	
			B46-0310-03	WARRANTY CARD	E3T1	
			B46-0328-03	WARRANTY CARD	Y	
			B46-0330-03	WARRANTY CARD	K	
			B46-0347-03	WARRANTY CARD	P	
			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
			B58-0945-03	CAUTION CARD	TT1	
			B58-0964-13	CAUTION CARD (UL)	KY	
			B58-0965-13	CAUTION CARD (PL)	XTT1	
			B58-0966-13	CAUTION CARD (PL)	MEE3	
			B58-0967-03	CAUTION CARD (PL)	P	
			B58-1607-03	CAUTION CARD	E1	
			B58-1674-03	CAUTION CARD (P1,PRA,A4,1)	K	
			B59-1104-00	SERVICE DIRECTORY	Y	
		*	B60-5197-00	INSTRUCTION MANUAL(EN)	E1T1	
		*	B60-5197-00	INSTRUCTION MANUAL(EN)	KPY	
		*	B60-5197-00	INSTRUCTION MANUAL(EN)	MXT	
		*	B60-5198-00	INSTRUCTION MANUAL(FR)	P	
		*	B60-5199-00	INSTRUCTION MANUAL(ES/FR/GE)	EE3	
		*	B60-5200-00	INSTRUCTION MANUAL(PL/RU/CZ)	E1	
		*	B60-5201-00	INSTRUCTION MANUAL(ES/TC)	M	
△ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
△ 621	1C		E30-2605-05	AC POWER CORD	Y	
△ 621	1C		E30-2717-05	AC POWER CORD	X	
△ 621	1C		E30-2721-05	AC POWER CORD	TT1	
△ 621	1C		E30-2941-05	AC POWER CORD	KP	
△ 621	1C		E30-2942-05	AC POWER CORD	MEE1E3	
622	1C	*	E35-3197-15	FLAT CABLE		
623	2B,1C	*	E35-3198-15	FLAT CABLE		
624	1B,2B	*	E35-3199-15	FLAT CABLE		
625	2B,2C	*	E35-3200-15	FLAT CABLE		
626	1C	*	E35-3201-15	FLAT CABLE		
			G10-0485-04	NON-WOVEN FABRIC		
		*	H10-7804-01	POLYSTYRENE FOAMED FIXTURE		
		*	H10-7805-01	POLYSTYRENE FOAMED FIXTURE		
		*	H21-1515-04	PROTECTION SHEET		
			H25-0232-04	PROTECTION BAG (235X350X0.03)		
			H25-0391-04	PROTECTION BAG		
		*	H50-4376-04	ITEM CARTON CASE	KP	
		*	H50-4377-04	ITEM CARTON CASE	YT	
		*	H50-4378-04	ITEM CARTON CASE	E	
		*	H50-4380-04	ITEM CARTON CASE	E1	
		*	H50-4381-04	ITEM CARTON CASE	M	

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④

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-		*	H50-4382-04	ITEM CARTON CASE	XT1	
-		*	H50-4383-04	ITEM CARTON CASE	E3	
635	2C		J02-1464-03	FOOT		
△ 642	1C		J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	*	K27-2384-04	KNOB (BUTTON)	YETE1	
650	2A	*	K27-2481-04	KNOB (BUTTON)	MXE3T1	
651	2A	*	K29-8103-04	KNOB	ETE1	
651	2A	*	K29-8103-04	KNOB	KPY	
651	2A	*	K29-8104-04	KNOB	MXE3T1	
652	2A	*	K29-8105-04	KNOB	ETE1	
652	2A	*	K29-8105-04	KNOB	KPY	
652	2A	*	K29-8106-04	KNOB	MXE3T1	
653	2A,2B	*	K29-8117-01	KNOB	ETE1	
653	2A,2B	*	K29-8117-01	KNOB	KPY	
653	2A,2B	*	K29-8119-01	KNOB	MXE3T1	
△ 655	1B	*	L07-2922-05	POWER TRANSFORMER	KP	
△ 655	1B	*	L07-2923-05	POWER TRANSFORMER	YM	
△ 655	1B	*	L07-2924-05	POWER TRANSFORMER	X	
△ 655	1B	*	L07-3210-05	POWER TRANSFORMER	ETE1	
△ 655	1B	*	L07-3210-05	POWER TRANSFORMER	E3T1	
660	1A		T90-0852-05	LOOP ANTENNA		
661	1A		T90-0877-05	LEAD WIRE ANTENNA		
665	1C	*	W02-2887-05	TUNER ASSY	KP	
665	1C	*	W02-2888-05	TUNER ASSY	KP	
665	1C	*	W02-2889-05	TUNER ASSY	YMX	
665	1C	*	W02-2890-05	TUNER ASSY	EE1E3	
665	1C	*	W02-2890-05	TUNER ASSY	TT1	
665	1C	*	W02-2891-05	TUNER ASSY	EE1E3	
665	1C	*	W02-2891-05	TUNER ASSY	TT1	
665	1C	*	W02-2907-05	TUNER ASSY	KP	
<b>KRF-V5560D/VR-615</b>						
601	1A		A01-3844-01	METALLIC CABINET	KPYE	
601	1A		A01-3848-01	METALLIC CABINET	MXE3	
601	1A		A01-3848-01	METALLIC CABINET	T1H	
602	1A		A09-1178-08	BATTERY COVER		
604	2B		A60-2186-11	PANEL	KP	
604	2B		A60-2190-11	PANEL	YE	
604	2B		A60-2191-11	PANEL	MXE3	
604	2B		A60-2191-11	PANEL	T1H	
605	1A		A70-1563-05	REMOTE CONTROLLER ASSY	KP	
605	1A		A70-1564-05	REMOTE CONTROLLER ASSY	YMXH	
605	1A		A70-1566-05	REMOTE CONTROLLER ASSY	EE3T1	
610	2B		B07-2606-03	ESCUTCHEON	KPYE	
610	2B		B07-2607-03	ESCUTCHEON	MXE3	
610	2B		B07-2607-03	ESCUTCHEON	T1H	
611	2A		B07-2610-01	ESCUTCHEON	KPYE	
611	2A		B07-2611-01	ESCUTCHEON	MXE3	

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PARTS LIST

KRF-V4060D/V5060D/V5560D/VR-605/615

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611	2A		B07-2611-01	ESCUTCHEON	T1H	
612	2A		B10-3810-02	FRONT GLASS	KP	
612	2A		B10-3811-02	FRONT GLASS	YMXH	
612	2A		B10-3812-02	FRONT GLASS	EE3T1	
613	2A		B11-1547-03	COLOR FILTER		
614	2A		B12-0448-04	INDICATOR		
615	2A		B12-0465-04	INDICATOR		
616	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	EE3T1	
-			B46-0328-03	WARRANTY CARD	Y	
-			B46-0330-03	WARRANTY CARD	K	
-			B46-0333-03	WARRANTY CARD	H	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0945-03	CAUTION CARD	T1	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-			B58-0965-13	CAUTION CARD (PL)	XT1	
-			B58-0966-13	CAUTION CARD (PL)	MEE3	
-			B58-0967-03	CAUTION CARD (PL)	P	
-			B58-1674-03	CAUTION CARD (P1,PRA,A4,1)	K	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-			B60-5197-00	INSTRUCTION MANUAL(EN)	KPY	
-			B60-5197-00	INSTRUCTION MANUAL(EN)	MXT1	
-			B60-5198-00	INSTRUCTION MANUAL(FR)	P	
-			B60-5199-00	INSTRUCTION MANUAL(ES/FR/GE)	EE3	
-			B60-5201-00	INSTRUCTION MANUAL(ES/TC)	M	
△ 620	1A		E03-0115-05	AC PLUG ADAPTER	M	
△ 621	1C		E30-2605-05	AC POWER CORD	Y	
△ 621	1C		E30-2717-05	AC POWER CORD	X	
△ 621	1C		E30-2721-05	AC POWER CORD	T1	
△ 621	1C		E30-2941-05	AC POWER CORD	KP	
△ 621	1C		E30-2942-05	AC POWER CORD	MEE3	
△ 621	1C		E30-2950-05	AC POWER CORD	H	
622	1C		E35-3197-15	FLAT CABLE		
623	2B,1C		E35-3198-15	FLAT CABLE		
624	1B,2B		E35-3199-15	FLAT CABLE		
625	2B,2C		E35-3200-15	FLAT CABLE		
626	1C		E35-3201-15	FLAT CABLE		
-			G10-0485-04	NON-WOVEN FABRIC		
-			H10-7804-01	POLYSTYRENE FOAMED FIXTURE		
-			H10-7805-01	POLYSTYRENE FOAMED FIXTURE		
-			H21-1515-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		*	H50-4385-04	ITEM CARTON CASE	KP	
-		*	H50-4386-04	ITEM CARTON CASE	Y	
-		*	H50-4387-04	ITEM CARTON CASE	E	
-		*	H50-4388-04	ITEM CARTON CASE	XT1	
-		*	H50-4389-04	ITEM CARTON CASE	MH	
-		*	H50-4391-04	ITEM CARTON CASE	E3	
635	2C		J02-1464-03	FOOT		

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△ 642	1C		J42-0349-05 J61-0307-05	POWER CORD BUSHING WIRE BAND		
650	2A		K27-2384-04	KNOB (BUTTON)		YE
650	2A		K27-2481-04	KNOB (BUTTON)		MXE3
650	2A		K27-2481-04	KNOB (BUTTON)		T1H
651	2A		K29-8103-04	KNOB		KPYE
651	2A		K29-8104-04	KNOB		MXE3
651	2A		K29-8104-04	KNOB		T1H
652	2A		K29-8105-04	KNOB		KPYE
652	2A		K29-8106-04	KNOB		MXE3
652	2A		K29-8106-04	KNOB		T1H
653	2A,2B		K29-8117-01	KNOB		KPYE
653	2A,2B		K29-8119-01	KNOB		MXE3
653	2A,2B		K29-8119-01	KNOB		T1H
△ 655	1B		L07-2922-05	POWER TRANSFORMER		KP
△ 655	1B		L07-2923-05	POWER TRANSFORMER		YM
△ 655	1B		L07-2924-05	POWER TRANSFORMER		X
△ 655	1B		L07-3210-05	POWER TRANSFORMER		EE3T1H
660	1A		T90-0852-05	LOOP ANTENNA		
661	1A		T90-0877-05	LEAD WIRE ANTENNA		
665	1C		W02-2887-05	TUNER ASSY		KP
665	1C		W02-2888-05	TUNER ASSY		KP
665	1C		W02-2889-05	TUNER ASSY		YMXH
665	1C		W02-2890-05	TUNER ASSY		EE3T1
665	1C		W02-2891-05	TUNER ASSY		EE3T1
665	1C		W02-2907-05	TUNER ASSY		KP
<b>SURROUND (X08-3160-10)</b>						
C601			CK73GB1H103K	CHIP C	0.010UF	K
C602			CK73GB1H102K	CHIP C	1000PF	K
C603			CC73GCH1H220J	CHIP C	22PF	J
C604			CC73GCH1H270J	CHIP C	27PF	J
C605,606			CK73GB1H103K	CHIP C	0.010UF	K
C607			CC73GCH1H220J	CHIP C	22PF	J
C608			CK73GB1H102K	CHIP C	1000PF	K
C609,610			CK73EB1E104K	CHIP C	0.10UF	K
C611			CK73GB1H102K	CHIP C	1000PF	K
C612			CK73EB1E104K	CHIP C	0.10UF	K
C613			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C614			CK73GB1H103K	CHIP C	0.010UF	K
C615			CC73GCH1H471J	CHIP C	470PF	J
C616			CE04LW1E470M	ELECTRO	47UF	25WV
C617			CK73EB1E104K	CHIP C	0.10UF	K
C618			CK73GB1H103K	CHIP C	0.010UF	K
C619,620			CK73EB1E104K	CHIP C	0.10UF	K
C621			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C622,623			CK73GB1H103K	CHIP C	0.010UF	K
C624			CC73GCH1H101J	CHIP C	100PF	J
C630			CE04LW1H100M	ELECTRO	10UF	50WV
C631			CK73EB1E104K	CHIP C	0.10UF	K
C632,633			CC73GCH1H221J	CHIP C	220PF	J

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KRF-V4060D/V5060D/V5560D/NR-605/615



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⑦

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C634,635 C636,637 C654 C656 C657			CC73GCH1H220J CK73GB1H472K CE04LW1H100M CE04LW1E470M CE04LW1A101M	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	22PF 4700PF 10UF 47UF 100UF	J K 50WV 25WV 10WV
C658 C659 C660 C661 C662			CK73GB1H103K CE04KW1A101M CC73GCH1H820J CK73GB1H103K CE04LW1A101M	CHIP C ELECTRO CHIP C CHIP C ELECTRO	0.010UF 100UF 82PF 0.010UF 100UF	K 10WV J K 10WV
C664 C665 C666 C667 C668,669			CK73EB1E104K CC73GCH1H330J CK73EB1E104K CE04KW1C472M CK73EB1E104K	CHIP C CHIP C CHIP C ELECTRO CHIP C	0.10UF 33PF 0.10UF 4700UF 0.10UF	K J K 16WV K
C670 C671 C672 C673,674 C675,676			CE04LW1H100M CK73EB1E104K CC73GCH1H220J CE04LW1H100M CC73GCH1H220J	ELECTRO CHIP C CHIP C ELECTRO CHIP C	10UF 0.10UF 22PF 10UF 22PF	50WV K J 50WV J
C700 C701,702 C703,704 C705,706 C707,708			CC73GCH1H470J CE04LW1H100M CK73GB1H222K CK73GB1H182K CC73GCH1H101J	CHIP C ELECTRO CHIP C CHIP C CHIP C	47PF 10UF 2200PF 1800PF 100PF	J 50WV K K J
C709 C710 C711,712 C713,714 C715,716			CK73GB1H472K CC73GCH1H101J CE04LW1H100M CK73GB1H821K CK73GB1H222K	CHIP C CHIP C ELECTRO CHIP C CHIP C	4700PF 100PF 10UF 820PF 2200PF	K J 50WV K K
C717,718 C719 C720 C721,722 C723			CC73GCH1H101J CC73GCH1H470J CC73GCH1H330J CE04LW1H100M CK73GB1H222K	CHIP C CHIP C CHIP C ELECTRO CHIP C	100PF 47PF 33PF 10UF 2200PF	J J J 50WV K
C724 C725 C726 C727,728 C737,738			CK73GB1H822K CK73GB1H182K CK73GB1H822K CC73GCH1H101J CC73GCH1H220J	CHIP C CHIP C CHIP C CHIP C CHIP C	8200PF 1800PF 8200PF 100PF 22PF	K K K J J
C739,740 C741 C742 C743 C744			CE04LW1H100M CK73GB1H102K CC73GCH1H101J CK73GB1H102K CC73GCH1H101J	ELECTRO CHIP C CHIP C CHIP C CHIP C	10UF 1000PF 100PF 1000PF 100PF	50WV K J K J
C791,792			CC73GCH1H471J	CHIP C	470PF	J
CN601 CN602 CN603 J601 J602		*	E40-8482-05 E40-8483-05 E40-3246-05 E63-1080-05 E11-0293-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY PIN JACK MINIATURE PHONE JACK(2P)		
X601			L77-2296-05	CRYSTAL RESONATOR(12.288MHZ)		
CP601,602			R90-0714-05	MULTI-COMP	10K X4	

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CP603-605 CP606-608 R601,602 R603,604 R605			R90-0728-05 R90-0720-05 RK73GB1J221J RK73GB1J105J RK73GB1J103J	MULTI-COMP MULTI-COMP CHIP R CHIP R CHIP R	180 X4 100K X4 220 1.0M 10K	J J 1/16W J J 1/16W
R607 R608 R609 R610 R611,612			RK73GB1J471J RK73GB1J221J RK73GB1J104J RK73GB1J221J RK73GB1J332J	CHIP R CHIP R CHIP R CHIP R CHIP R	470 220 100K 220 3.3K	J J 1/16W J J 1/16W
R613,614 R615 R623 R624 R625			RK73GB1J221J RK73GB1J101J RK73GB1J103J RK73GB1J221J RK73GB1J332J	CHIP R CHIP R CHIP R CHIP R CHIP R	220 100 10K 220 3.3K	J J 1/16W J J 1/16W
R626 R627,628 R629 R630 R631			RK73GB1J472J RK73GB1J221J RK73GB1J103J RK73GB1J333J RK73GB1J101J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 220 10K 33K 100	J J 1/16W J J 1/16W
R632,633 R634 R635 R637,638 R639			RK73GB1J472J RK73GB1J471J RK73GB1J820J RK73GB1J220J RK73GB1J183J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 470 82 22 18K	J J 1/16W J J 1/16W
R640,641 R642 R644 R663 R664			RK73GB1J4R7J RK73GB1J220J RK73GB1J820J RK73GB1J221J R92-1993-05	CHIP R CHIP R CHIP R CHIP R METAL GLAZE	4.7 22 82 220 560	J J 1/16W J J 1/4W
R665 R666 R670 R671 R672			RK73GB1J223J RS14KB3D180J RD14NB2E4R7J RD14NB2E1R0J RK73GB1J221J	CHIP R FL-PROOF RS RD RD CHIP R	22K 18 4.7 1 220	J J 2W J 1/4W J 1/16W
R673 R674 R675 R676 R677			RK73GB1J473J RK73GB1J472J RK73GB1J221J RK73GB1J102J RK73GB1J152J	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 4.7K 220 1.0K 1.5K	J J 1/16W J J 1/16W
R678,679 R680 R683,684 R685 R689			RK73GB1J220J RK73GB1J471J RK73GB1J471J R92-1945-05 RK73GB1J220J	CHIP R CHIP R CHIP R METAL GLAZE CHIP R	22 470 470 1 22	J J 1/16W J J 1/16W
R690 R691 R692 R701,702 R703,704			RK73GB1J471J RD14NB2E4R7J RK73GB1J220J RK73GB1J222J RK73GB1J104J	CHIP R RD CHIP R CHIP R CHIP R	470 4.7 22 2.2K 100K	J J 1/16W J J 1/16W
R705,706 R707,708 R709,710 R711,712 R713,714			RK73GB1J222J RK73GB1J103J RK73GB1J472J RK73GB1J332J RK73GB1J104J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K 10K 4.7K 3.3K 100K	J J 1/16W J J 1/16W

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R715,716 R717,718 R719,720 R721 R722			RK73GB1J222J RK73GB1J272J RK73GB1J562J RK73GB1J222J RK73GB1J153J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K 2.7K 5.6K 2.2K 15K	J J J J J	1/16W 1/16W 1/16W 1/16W 1/16W		
R723,724 R725 R726 R727,728 R729			RK73GB1J104J RK73GB1J222J RK73GB1J183J RK73GB1J103J RK73GB1J472J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 2.2K 18K 10K 4.7K	J J J J J	1/16W 1/16W 1/16W 1/16W 1/16W		
R730 R735-740 R741-744 R745 R746-748			RK73GB1J562J RK73GB1J103J RK73GB1J221J RK73GB1J102J RK73GB1J101J	CHIP R CHIP R CHIP R CHIP R CHIP R	5.6K 10K 220 1.0K 100	J J J J J	1/16W 1/16W 1/16W 1/16W 1/16W		
R749,750 R751 R752 R753 R754			RK73GB1J272J RK73GB1J472J RK73GB1J562J RK73GB1J472J RK73GB1J562J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.7K 4.7K 5.6K 4.7K 5.6K	J J J J J	1/16W 1/16W 1/16W 1/16W 1/16W		
R756-758 R759-761 R791,792			RK73GB1J181J RK73GB1J104J RK73GB1J183J	CHIP R CHIP R CHIP R	180 100K 18K	J J J	1/16W 1/16W 1/16W		
S601			S62-0034-05	SLIDE SWITCH				YM	
D601 D602 D602 D602 D603			MA111 DAN202U MA142WK 1SS301 DAP202U	DIODE DIODE DIODE DIODE DIODE					
D603 D603 D604 D604 D605			MA142WA 1SS300 HZU3.9(B2) UDZ3.9B DAN202U	DIODE DIODE ZENER DIODE ZENER DIODE DIODE					
D605 D605 D606,607 D606,607 D608			MA142WK 1SS301 HZU5.6(B2) UDZ5.6B MA111	DIODE DIODE ZENER DIODE ZENER DIODE DIODE					
Δ D609 D610 D610 D611-614 IC601			D2SBA20F03 HZU5.1(B2) UDZ5.1B MA111 * CS493264-CLR	DIODE ZENER DIODE ZENER DIODE DIODE MOS-IC					
IC602 IC603 IC604 IC605 IC606		*	AK4586 TC7WU04FU TC7WH123FU TC74HCT7007AF TC74HC07AF	MOS-IC MOS-IC MOS-IC MOS-IC MOS-IC					
IC609 IC611 IC612 IC701-703 IC705			XC62EP2502MR BA033LBSG BA05T NJM4565MD NJU7311AM	ANALOGUE IC ANALOGUE IC ANALOGUE IC IC(OP AMP X2) MOS-IC					

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IC707 Q601,602 Q601,602 Q606 Q608			NJM4565MD DTC124EUA UN5212 2SB1375 2SC4081(R,S)	IC(OP AMP X2) DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR			
Q608 Q609 Q609			2SD1819A(Q,R) 2SA1576A(R,S) 2SB1218A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR			
A601			W02-2802-05	OPTIC RECEIVING MODULE			
<b>AUDIO (X09-6600-10)</b>							
C1 ,2 C101 C101 C102 C102			CE04LW2A100M CC45FSL1H331J CC45FSL1H331J CC45FSL1H101J CC45FSL1H101J	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	10UF 330PF 330PF 100PF 100PF	100WV J J J J	EE1E2 E3TT1 EE1E2 E3TT1
C103,104 C103,104 C105 C105 C106			CC45FCH1H270J CC45FCH1H270J CE04KW1H2R2M CE04KW1H2R2M CK45FF1H103Z	CERAMIC CERAMIC ELECTRO ELECTRO CERAMIC	27PF 27PF 2.2UF 2.2UF 0.010UF	J J 50WV 50WV Z	EE1E2 E3TT1 EE1E2 E3TT1 EE1E2
C106 C107 C107 C108 C108			CK45FF1H103Z CE04KW1A470M CE04KW1A470M CK45FB1H561K CK45FB1H561K	CERAMIC ELECTRO ELECTRO CERAMIC CERAMIC	0.010UF 47UF 47UF 560PF 560PF	Z 10WV 10WV K K	E3TT1 EE1E2 E3TT1 EE1E2 E3TT1
C109 C109 C110 C125 C126			CK45FF1H103Z CK45FF1H103Z CK45FF1H103Z CE04KW1H100M CK45FF1H103Z	CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC	0.010UF 0.010UF 0.010UF 10UF 0.010UF	Z Z Z 50WV Z	EE1E2 E3TT1
C127 C128 C129 Δ C130 C131			CC45FSL1H270J CE04KW1H100M CE04KW1E332M C91-1488-05 CK45FF1H103Z	CERAMIC ELECTRO ELECTRO MF CERAMIC	27PF 10UF 3300UF 6800PF 0.010UF	J 50WV 25WV 250VAC Z	
Δ C132 C133 C134 C135 C137			C91-1635-05 CE04KW1H100M CE04KW1J330M CC45FSL1H100D CK45FF1H103Z	FILM ELECTRO ELECTRO CERAMIC CERAMIC	0.068UF 10UF 33UF 10PF 0.010UF	275WV 50WV 63WV D Z	
Δ C138,139 C140 C141 C142,143 C144,145			CE04KW1E101M CE04KW1E222M CE04KW1E471M C90-5747-05 * C90-5746-05	ELECTRO ELECTRO ELECTRO ELECTRO * ELECTRO	100UF 2200UF 470UF 4700UF 3300UF	25WV 25WV 25WV 75WV 42WV	5 5
C146,147 C148-151 C152,153 C154,155 C156			C91-1422-05 C91-1573-05 C91-1422-05 CQ93FMG1H104J CC45FSL1H330J	MP MP-C MP MYLAR CERAMIC	0.10UF 0.10UF 0.10UF 0.10UF 33PF	250WV J 250WV J J	5
C157 C201,202 C203,204 C203,204			CC45FSL1H270J CC45FSL1H221J CE04KW1H100M CE04KW1H100M	CERAMIC CERAMIC ELECTRO ELECTRO	27PF 220PF 10UF 10UF	J J 50WV 50WV	EE1E3 TT1 5 5

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CN115			E40-4245-05	PIN ASSY	TT1YMX	
CN118			E40-4245-05	PIN ASSY	YM	
CN201		*	E40-8482-05	FLAT CABLE CONNECTOR		
CN806		*	E40-3247-05	PIN ASSY		
J201		*	E63-1256-05	PIN JACK		
J202		*	E63-1258-05	PIN JACK	EE1E3	5
J203		*	E63-1256-05	PIN JACK	TT1YMX	5
J203		*	E63-1256-05	PIN JACK		4
J203		*	E63-1258-05	PIN JACK	KP	5
J203		*	E63-1258-05	PIN JACK		
J204			E63-1260-05	PIN JACK	EE1E3	5
J204			E63-1260-05	PIN JACK	TT1YMX	5
J205			E03-0148-05	AC OUTLET	KPY	5
J206			E03-0149-05	AC OUTLET	EE1E2	
J206			E03-0149-05	AC OUTLET	E3M	
J206			E03-0310-05	AC OUTLET	TT1	
J206			E03-0325-05	AC OUTLET	XX	
J401		*	E70-0156-05	LOCK TERMINAL BOARD		
J402		*	E70-0155-05	LOCK TERMINAL BOARD		
J404			E63-1146-05	PIN JACK		
J603		*	E63-1254-05	PIN JACK		
J604		*	E63-1255-05	PIN JACK		
J801			E11-0271-05	PHONE JACK (METAL SLEEVE)		
F101			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)		4
F101			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	EE1E3	5
F101			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	TT1YMX	
F101			F50-0077-05	FUSE(5X20)	KP	
F102			F06-1022-05	FUSE (SEMKO) (250V T1AL)		4
F102			F06-1022-05	FUSE (SEMKO) (250V T1AL)	EE1E3	5
F102			F06-1022-05	FUSE (SEMKO) (250V T1AL)	TT1MX	5
F103			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	M	4
F103			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	YM	5
CN108,109			J13-0075-05	FUSE CLIP	EE1E3	
CN108,109			J13-0075-05	FUSE CLIP	TT1MX	
CN110,111			J13-0075-05	FUSE CLIP		
CN116,117			J13-0075-05	FUSE CLIP	YM	
E11 -14			J11-0809-05	WIRE CLAMPER		
L301-303			L39-1373-05	PHASE COMPENSATION COIL		
L401,402			L39-1373-05	PHASE COMPENSATION COIL		
T101			L07-2758-05	POWER TRANSFORMER	EE1E2	
T101			L07-2758-05	POWER TRANSFORMER	E3TT1	
T101			L07-2758-05	POWER TRANSFORMER	KPX	
T101			L07-2761-05	POWER TRANSFORMER	EE1E2	
T101			L07-2761-05	POWER TRANSFORMER	E3TT1	
T101			L07-2761-05	POWER TRANSFORMER	KPX	
T101			L07-2805-05	POWER TRANSFORMER	YM	
X101			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	EE1E2	
X101			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	E3TT1	
R123			RD14NB2E1R0J	RD 1 1/4W		
R124			RS14KB3A221J	FL-PROOF RS 220 J 1W		
R125			RD14NB2E270J	RD 27 J 1/4W		
R126			RD14NB2E101J	RD 100 J 1/4W		
R127			RD14NB2E822J	RD 8.2K J 1/4W		

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R132			R92-1844-05	CARBON 3.3M J 1/2W	KP	
R141,142			RD14NB2E1R0J	RD 1 J 1/4W		
R213,214			RD14BB2C102J	RD 1.0K J 1/6W	EE1E3	5
R316,317			RS14KB3A472J	FL-PROOF RS 4.7K J 1W		
R334,335			RD14NB2E4R7J	RD 4.7 J 1/4W		
R338-341			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R342,343			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R345			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R347			RD14NB2E4R7J	RD 4.7 J 1/4W		
R348,349			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R365			RD14NB2E561J	RD 560 J 1/4W		
R410			RD14NB2E103J	RD 10K J 1/4W		
R411			RD14NB2E101J	RD 100 J 1/4W		
R414			RD14NB2E101J	RD 100 J 1/4W		
R415			RD14NB2E103J	RD 10K J 1/4W		
R438,439			RS14KB3D391J	FL-PROOF RS 390 J 2W		
R452,453			RS14KB3A472J	FL-PROOF RS 4.7K J 1W		
R460-463			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R466,467			RD14NB2E4R7J	RD 4.7 J 1/4W		
R468,469			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R478-480			RS14KB3A151J	FL-PROOF RS 150 J 1W		
K101			S76-0099-05	MAGNETIC RELAY	KP	
K101			S76-0102-05	MAGNETIC RELAY	EE1E2	
K101			S76-0102-05	MAGNETIC RELAY	E3TT1	
K101			S76-0102-05	MAGNETIC RELAY	YM	
K401-403			S76-0097-05	MAGNETIC RELAY		
S101			1.5.S62	SLIDE SWITCH	YM	
S102			S68-0107-05	PUSH SWITCH	EE1E2	
S102			S68-0107-05	PUSH SWITCH	E3TT1	
S102			S68-0107-05	PUSH SWITCH	YM	
D113			RB441Q-40	DIODE		
D114-116			HSS104A	DIODE		
D114-116			1SS133	DIODE		
D117			S1ZB20(4101)	DIODE		
D118			HZS16N(B2)	ZENER DIODE		
D118			MTZJ16(B)	ZENER DIODE		
D119			HZS15N(B2)	ZENER DIODE		
D119			MTZJ15(B)	ZENER DIODE		
D120			D2SBA20F03	DIODE		
D121			D5SBA20F03	DIODE		
D122			D5SBA20F03	DIODE		
D123,124			HSS104A	DIODE	YM	
D123,124			1SS133	DIODE	YM	
D201			HZS6.8N(B2)	ZENER DIODE		
D201			MTZJ6.8(B)	ZENER DIODE		
D202			HZS5.1N(B2)	ZENER DIODE		
D202			MTZJ5.1(B)	ZENER DIODE		
D203			HZS6.8N(B2)	ZENER DIODE		
D203			MTZJ6.8(B)	ZENER DIODE		
D215			HSS104A	DIODE		
D215			1SS133	DIODE		
D301,302			HZS15N(B2)	ZENER DIODE		
D301,302			MTZJ15(B)	ZENER DIODE		
D303,304			HSS104A	DIODE		

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D303,304			1SS133	DIODE		
D305,306			HZS10N(B2)	ZENER DIODE	EE1E2	
D305,306			HZS10N(B2)	ZENER DIODE	E3TT1	
D305,306			HZS10N(B2)	ZENER DIODE	YMX	
D305,306			HZS11N(B2)	ZENER DIODE	KP	
D305,306			MTZJ10(B)	ZENER DIODE	EE1E2	
D305,306			MTZJ10(B)	ZENER DIODE	E3TT1	
D305,306			MTZJ10(B)	ZENER DIODE	YMX	
D305,306			MTZJ11(B)	ZENER DIODE	KP	
D307			HZS3.9N(B2)	ZENER DIODE		
D307			MTZJ3.9(B)	ZENER DIODE		
D308-310			HSS104A	DIODE		
D308-310			1SS133	DIODE		
D311,312			HZS3.9N(B2)	ZENER DIODE		
D311,312			MTZJ3.9(B)	ZENER DIODE		
D313			HSS104A	DIODE		
D313			1SS133	DIODE		
D314			HZS3.9N(B2)	ZENER DIODE		
D314			MTZJ3.9(B)	ZENER DIODE		
D315			HSS104A	DIODE		
D315			1SS133	DIODE		
D316			HZS3.9N(B2)	ZENER DIODE		
D316			MTZJ3.9(B)	ZENER DIODE		
D317,318			HSS104A	DIODE		
D317,318			1SS133	DIODE		
D319			HZS11N(B2)	ZENER DIODE	EE1E3	5
D319			HZS11N(B2)	ZENER DIODE	TT1	5
D319			MTZJ11(B)	ZENER DIODE	EE1E3	5
D319			MTZJ11(B)	ZENER DIODE	TT1	5
D319,320			HZS15N(B2)	ZENER DIODE	KPYMX	5
D319,320			MTZJ15(B)	ZENER DIODE	KPYMX	5
D320			HZS13N(B2)	ZENER DIODE	EE1E3	5
D320			HZS13N(B2)	ZENER DIODE	TT1	5
D320			MTZJ13(B)	ZENER DIODE	EE1E3	5
D320			MTZJ13(B)	ZENER DIODE	TT1	5
D401,402			HZS15N(B2)	ZENER DIODE		5
D401,402			MTZJ15(B)	ZENER DIODE		5
D403,404			HSS104A	DIODE		
D403,404			1SS133	DIODE		
D406-408			HSS104A	DIODE		
D406-408			1SS133	DIODE		
D602,603			HZS5.6N(B2)	ZENER DIODE		
D602,603			MTZJ5.6(B)	ZENER DIODE		
D999			HSS104A	DIODE		
D999			1SS133	DIODE		
IC101			BU1923	ANALOGUE IC	EE1E2	
IC101			BU1923	ANALOGUE IC	E3TT1	
IC105			BA05T	ANALOGUE IC		
IC106			KIA7812API	ANALOGUE IC		
IC107			KIA7912PI	ANALOGUE IC		
IC201			NJM4580L-D	ANALOGUE IC	EE1E3	5
IC201			NJM4580L-D	ANALOGUE IC	TT1	5
IC202			M61516FP	ANALOGUE IC		
IC206			NJM4565D	ANALOGUE IC		
IC301			STK413-020A	HYBRID IC		5

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IC301		*	STK413-220A	HYBRID IC		5
IC301			STK443-070	HYBRID IC		4
IC401			STK412-020A	HYBRID IC		5
IC401		*	STK412-220A	HYBRID IC		5
IC401		*	STK442-070	HYBRID IC		4
IC607			NJM2279D	ANALOGUE IC		
Q113			2SB1640	TRANSISTOR		
Q114			2SC1740S(Q,R)	TRANSISTOR		
Q114			2SC2785(F,E)	TRANSISTOR		
Q201			2SC1845(F,E)	TRANSISTOR		
Q203			2SA992(F,E)	TRANSISTOR		
Q301-306			2SC2878(B)	TRANSISTOR		
Q307,308			2SA992(F,E)	TRANSISTOR		
Q309-315			2SC1845(F,E)	TRANSISTOR		
Q316			2SA992(F,E)	TRANSISTOR		
Q317,318			2SC2878(B)	TRANSISTOR		
Q319			2SA992(F,E)	TRANSISTOR		
Q401			2SC1845(F,E)	TRANSISTOR		
Q402			2SA1535A	TRANSISTOR		
Q403			2SC3944A	TRANSISTOR		
Q404			2SC1845(F,E)	TRANSISTOR		
Q405			2SA992(F,E)	TRANSISTOR		
Q406			2SB1640	TRANSISTOR		
Q407,408			2SC1845(F,E)	TRANSISTOR		
Q410,411			DTC113ZSA	DIGITAL TRANSISTOR		
Q410,411			UN4219	DIGITAL TRANSISTOR		
Q412			2SC1740S(Q,R)	TRANSISTOR		
Q412			2SC2785(F,E)	TRANSISTOR		
<b>AUDIO (X09-6610-10)</b>						
C1_2			CE04LW2A100M	ELECTRO	10UF	100WV
C101			CC45FSL1H331J	CERAMIC	330PF	J
C102			CC45FSL1H101J	CERAMIC	100PF	J
C103,104			CC45FCH1H270J	CERAMIC	27PF	J
C105			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C106			CK45FF1H103Z	CERAMIC	0.010UF	Z
C107			CE04KW1A470M	ELECTRO	47UF	10WV
C108			CK45FB1H561K	CERAMIC	560PF	K
C109			CK45FF1H103Z	CERAMIC	0.010UF	Z
C110			CK45FF1H103Z	CERAMIC	0.010UF	Z
C125			CE04KW1H100M	ELECTRO	10UF	50WV
C126			CK45FF1H103Z	CERAMIC	0.010UF	Z
C127			CC45FSL1H270J	CERAMIC	27PF	J
C128			CE04KW1H100M	ELECTRO	10UF	50WV
C129			CE04KW1E332M	ELECTRO	3300UF	25WV
C130			C91-1488-05	MF	6800PF	250VAC
C131			CK45FF1H103Z	CERAMIC	0.010UF	Z
C132			C91-1635-05	FILM	0.068UF	275WV
C133			CE04KW1H100M	ELECTRO	10UF	50WV
C134			CE04KW1J330M	ELECTRO	33UF	63WV
C135			CC45FSL1H100D	CERAMIC	10PF	D
C137			CK45FF1H103Z	CERAMIC	0.010UF	Z
C138,139			CE04KW1E101M	ELECTRO	100UF	25WV
C140			CE04KW1E222M	ELECTRO	2200UF	25WV
C141			CE04KW1E471M	ELECTRO	470UF	25WV

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C142,143			C90-5747-05	ELECTRO 4700UF	75WV	
C144,145			C90-5746-05	ELECTRO 3300UF	42WV	
C146,147			C91-1422-05	MP 0.10UF	250WV	
C148-151			C91-1573-05	MP-C 0.10UF	J	
C156			CC45FSL1H330J	CERAMIC 33PF	J	
C157			CC45FSL1H270J	CERAMIC 27PF	J	
C201,202			CC45FSL1H221J	CERAMIC 220PF	J	
C221,222			CC45FSL1H221J	CERAMIC 220PF	J	
C225,226			CC45FSL1H221J	CERAMIC 220PF	J	
C229,230			CC45FSL1H221J	CERAMIC 220PF	J	
C233,234			CC45FSL1H221J	CERAMIC 220PF	J	
C237,238			CC45FSL1H221J	CERAMIC 220PF	J	
C241,242			CC45FSL1H221J	CERAMIC 220PF	J	
C245,246			CC45FSL1H221J	CERAMIC 220PF	J	
C251,252			CC45FSL1H221J	CERAMIC 220PF	J	KP
C255,256			CC45FSL1H221J	CERAMIC 220PF	J	KP
C259,260			CC45FSL1H221J	CERAMIC 220PF	J	KP
C265,266			CE04RW1H4R7M	ELECTRO 4.7UF	50WV	
C268-271			CC45FSL1H101J	CERAMIC 100PF	J	
C272			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C273			CK45FB1H471K	CERAMIC 470PF	K	
C274			CC45FSL1H331J	CERAMIC 330PF	J	
C275			CE04KW1A470M	ELECTRO 47UF	10WV	
C276			CE04KW1A101M	ELECTRO 100UF	10WV	
C278			CE04KW1A101M	ELECTRO 100UF	10WV	
C279			CE04KW1A470M	ELECTRO 47UF	10WV	
C280			CE04KW1A101M	ELECTRO 100UF	10WV	
C281			CC45FSL1H101J	CERAMIC 100PF	J	
C283-288			CC45FSL1H101J	CERAMIC 100PF	J	
C290-300			CC45FSL1H101J	CERAMIC 100PF	J	
C301,302			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C303,304			CK45FB1H471K	CERAMIC 470PF	K	
C305			CK45FB1H391K	CERAMIC 390PF	K	
C306			CC45FSL1H331J	CERAMIC 330PF	J	
C307			CE04KW1H101M	ELECTRO 100UF	50WV	
C308			CQ93FMG1H473J	MYLAR 0.047UF	J	
C309,310			CE04KW1A101M	ELECTRO 100UF	10WV	
C311			CE04RW1V4R7M	ELECTRO 4.7UF	35WV	
C312			CQ93FMG1H473J	MYLAR 0.047UF	J	
C313			CC45FSL1H101J	CERAMIC 100PF	J	
C316,317			CC45FSL1H100D	CERAMIC 10PF	D	
C318			CE04KW1H101M	ELECTRO 100UF	50WV	
C319,320			CE04KW2A101M	ELECTRO 100UF	100WV	
C321,322			CK45FF1H472Z	CERAMIC 4700PF	Z	
C323-328			C91-1573-05	MP-C 0.10UF	J	
C329			CK45FF1H472Z	CERAMIC 4700PF	Z	
C330			CC45FSL1H100D	CERAMIC 10PF	D	
C332			CE04KW1A101M	ELECTRO 100UF	10WV	
C333			CE04KW1H4R7M	ELECTRO 4.7UF	50WV	
C334			CE04KW1H010M	ELECTRO 1.0UF	50WV	
C335			CE04LW1H100M	ELECTRO 10UF	50WV	
C336			CE04KW1A221M	ELECTRO 220UF	10WV	
C337			CE04HW1E100M	NP-ELEC 10UF	25WV	
C338			CE04KW1E470M	ELECTRO 47UF	25WV	
C339-349			CC45FSL1H101J	CERAMIC 100PF	J	

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C350			CQ93FMG1H122J	MYLAR 1200PF	J	
C351			CQ93FMG1H332J	MYLAR 3300PF	J	
C352,353			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C354			CK45FB1H471K	CERAMIC 470PF	K	
C355,356			CK45FB1H102K	CERAMIC 1000PF	K	
C357			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C358			CQ93FMG1H104J	MYLAR 0.10UF	J	
C359-364			CE04KW1H4R7M	ELECTRO 4.7UF	50WV	
C365-370			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C371			CQ93FMG1H104J	MYLAR 0.10UF	J	
C372			CQ93FMG1H332J	MYLAR 3300PF	J	
C373,374			CQ93FMG1H104J	MYLAR 0.10UF	J	
C375			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C376,377			CE04LW1H220M	ELECTRO 22UF	50WV	
C378			CE04KW1H010M	ELECTRO 1.0UF	50WV	
C380			CE04RW1V4R7M	ELECTRO 4.7UF	35WV	
C384-386			CK45FB1H471K	CERAMIC 470PF	K	
C401			CE04KW1A101M	ELECTRO 100UF	10WV	
C403,404			CE04KW2A100M	ELECTRO 10UF	100WV	
C405			CC45FSL1H470J	CERAMIC 47PF	J	
C406,407			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C408,409			CK45FB1H471K	CERAMIC 470PF	K	
C410,411			CC45FSL1H331J	CERAMIC 330PF	J	
C412,413			CE04KW1A101M	ELECTRO 100UF	10WV	
C416,417			CC45FSL1H100D	CERAMIC 10PF	D	
C424,425			CK45FF1H472Z	CERAMIC 4700PF	Z	
C426-429			C91-1573-05	MP-C 0.10UF	J	
C430			CK45FF1H472Z	CERAMIC 4700PF	Z	
C431			CC45FSL1H100D	CERAMIC 10PF	D	
C433			CE04KW1A101M	ELECTRO 100UF	10WV	
C434			CC45FSL1H331J	CERAMIC 330PF	J	
C435			CK45FB1H471K	CERAMIC 470PF	K	
C436			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C437,438			C91-1573-05	MP-C 0.10UF	J	
C439-443			CK45FB1H222K	CERAMIC 2200PF	K	
C444			CC45FSL1H221J	CERAMIC 220PF	J	
C445			CC45FSL1H560J	CERAMIC 56PF	J	
C446			CK45FB1H222K	CERAMIC 2200PF	K	
C638-642			CC45FSL1H470J	CERAMIC 47PF	J	
C643-645			CE04KW1E470M	ELECTRO 47UF	25WV	
C648			CE04RW1C100M	ELECTRO 10UF	16WV	
C652			CE04RW1C100M	ELECTRO 10UF	16WV	
C826,827			CK45FB1H471K	CERAMIC 470PF	K	
CN101			E40-8481-05	FLAT CABLE CONNECTOR		
CN102			E40-8502-05	FLAT CABLE CONNECTOR		
CN103			E40-8481-05	FLAT CABLE CONNECTOR		
CN104			E40-4428-05	PIN ASSY		YM
CN105			E40-4245-05	PIN ASSY		
CN112			E40-4245-05	PIN ASSY		EE3T1
CN112			E40-4245-05	PIN ASSY		KPXH
CN114			E40-3262-05	PIN ASSY		
CN115			E40-4245-05	PIN ASSY		EE3T1
CN115			E40-4245-05	PIN ASSY		YMXH
CN118			E40-4245-05	PIN ASSY		YM

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PARTS LIST

KRF-V4060D/V5060D/V5560D/NR-605/615

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
CN201		*	E40-8482-05	FLAT CABLE CONNECTOR		
CN806			E40-3247-05	PIN ASSY		
J201		*	E63-1256-05	PIN JACK		
J202		*	E63-1258-05	PIN JACK		
J203		*	E63-1256-05	PIN JACK	KP	
J203		*	E63-1258-05	PIN JACK	EE3T1	
J203		*	E63-1258-05	PIN JACK	YMXH	
J204		*	E63-1260-05	PIN JACK	KP	
△ J205			E03-0148-05	AC OUTLET	KPY	
△ J206			E03-0149-05	AC OUTLET	MEE3	
△ J206			E03-0310-05	AC OUTLET	T1	
△ J206			E03-0325-05	AC OUTLET	XH	
J401		*	E70-0156-05	LOCK TERMINAL BOARD		
J403		*	E70-0154-05	LOCK TERMINAL BOARD		
J603		*	E63-1254-05	PIN JACK		
J604		*	E63-1255-05	PIN JACK		
J801			E11-0271-05	PHONE JACK (METAL SLEEVE)		
△ F101			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	EE3T1	
△ F101			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	YMXH	
△ F101			F50-0077-05	FUSE(5X20)	KP	
△ F102			F06-1022-05	FUSE (SEMKO) (250V T1AL)	EE3T1	
△ F102			F06-1022-05	FUSE (SEMKO) (250V T1AL)	MX	
△ F103			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	YM	
CN108,109			J13-0075-05	FUSE CLIP	EE3T1	
CN108,109			J13-0075-05	FUSE CLIP	MX	
CN110,111			J13-0075-05	FUSE CLIP		
CN116,117			J13-0075-05	FUSE CLIP	YM	
E11 -14			J11-0809-05	WIRE CLAMPER		
L301-303			L39-1373-05	PHASE COMPENSATION COIL		
L401-403			L39-1373-05	PHASE COMPENSATION COIL		
△ T101			L07-2758-05	POWER TRANSFORMER	EE3T1	
△ T101			L07-2758-05	POWER TRANSFORMER	KPXH	
△ T101			L07-2761-05	POWER TRANSFORMER	EE3T1	
△ T101			L07-2761-05	POWER TRANSFORMER	KPXH	
△ T101			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	YM	
X101			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	EE3T1	
△ R123			RD14NB2E1R0J	RD 1 1/4W		
R124			RS14KB3A221J	FL-PROOF RS 220 J 1W	KPYM	
R125			RD14NB2E270J	RD 27 J 1/4W		
△ R126			RD14NB2E101J	RD 100 J 1/4W		
R127			RD14NB2E822J	RD 8.2K J 1/4W		
△ R132			R92-1844-05	CARBON 3.3M J 1/2W	KPH	
△ R141,142			RD14NB2E1R0J	RD 1 J 1/4W		
R316,317			RS14KB3A472J	FL-PROOF RS 4.7K J 1W		
R334,335			RD14NB2E4R7J	RD 4.7 J 1/4W		
R338-341			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R342,343			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R345			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R347			RD14NB2E4R7J	RD 4.7 J 1/4W		
R348,349			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R365			RD14NB2E561J	RD 560 J 1/4W		
R410			RD14NB2E103J	RD 10K J 1/4W		
R411			RD14NB2E101J	RD 100 J 1/4W		

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R414			RD14NB2E101J	RD 100 J 1/4W		
R415			RD14NB2E103J	RD 10K J 1/4W		
R438,439			RS14KB3D391J	FL-PROOF RS 390 J 2W		
R452,453			RS14KB3A472J	FL-PROOF RS 4.7K J 1W		
R460-463			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R466,467			RD14NB2E4R7J	RD 4.7 J 1/4W		
R468,469			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R473,474			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R475			RD14NB2E4R7J	RD 4.7 J 1/4W		
R476			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R478-480			RS14KB3A151J	FL-PROOF RS 150 J 1W		
△ K101			S76-0099-05	MAGNETIC RELAY	KP	
△ K101			S76-0102-05	MAGNETIC RELAY	EE3T1	
△ K101			S76-0102-05	MAGNETIC RELAY	YMXH	
K401-403			S76-0097-05	MAGNETIC RELAY		
△ S101			S62-0001-05	SLIDE SWITCH	YM	
△ S102			S68-0107-05	PUSH SWITCH	EE3T1	
△ S102			S68-0107-05	PUSH SWITCH	YMXH	
D113		*	RB441Q-40	DIODE		
△ D114-116			HSS104A	DIODE		
△ D114-116			1SS133	DIODE		
△ D117			S1ZB20(4101)	DIODE		
D118			HZS16N(B2)	ZENER DIODE		
D118			MTZJ16(B)	ZENER DIODE		
D119			HZS15N(B2)	ZENER DIODE		
D119			MTZJ15(B)	ZENER DIODE		
△ D120			D2SBA20F03	DIODE		
△ D121,122			D5SBA20F03	DIODE		
D123,124			HSS104A	DIODE		
D123,124			1SS133	DIODE	YM	
D201			HZS6.8N(B2)	ZENER DIODE	YM	
D201			MTZJ6.8(B)	ZENER DIODE		
△ D202			HZS5.1N(B2)	ZENER DIODE		
△ D202			MTZJ5.1(B)	ZENER DIODE		
D203			HZS6.8N(B2)	ZENER DIODE		
D203			MTZJ6.8(B)	ZENER DIODE		
D215			HSS104A	DIODE		
D215			1SS133	DIODE		
D301,302			HZS15N(B2)	ZENER DIODE		
D301,302			MTZJ15(B)	ZENER DIODE		
D303,304			HSS104A	DIODE		
D303,304			1SS133	DIODE		
D305,306			HZS10N(B2)	ZENER DIODE	EE3T1	
D305,306			HZS10N(B2)	ZENER DIODE	YMXH	
D305,306			HZS11N(B2)	ZENER DIODE	KP	
D305,306			MTZJ10(B)	ZENER DIODE	EE3T1	
D305,306			MTZJ10(B)	ZENER DIODE	YMXH	
D305,306			MTZJ11(B)	ZENER DIODE	KP	
D307			HZS3.9N(B2)	ZENER DIODE		
D307			MTZJ3.9(B)	ZENER DIODE		
D308-310			HSS104A	DIODE		
D308-310			1SS133	DIODE		
D311,312			HZS3.9N(B2)	ZENER DIODE		

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D311,312			MTZJ3.9(B)	ZENER DIODE		
D313			HSS104A	DIODE		
D313			1SS133	DIODE		
D314			HZS3.9N(B2)	ZENER DIODE		
D314			MTZJ3.9(B)	ZENER DIODE		
D315			HSS104A	DIODE		
D315			1SS133	DIODE		
D316			HZS3.9N(B2)	ZENER DIODE		
D316			MTZJ3.9(B)	ZENER DIODE		
D317,318			HSS104A	DIODE		
D317,318			1SS133	DIODE		
D319			HZS11N(B2)	ZENER DIODE	EE3T1H	
D319			HZS15N(B2)	ZENER DIODE	KPYMX	
D319			MTZJ11(B)	ZENER DIODE	EE3T1H	
D319			MTZJ15(B)	ZENER DIODE	KPYMX	
D320			HZS13N(B2)	ZENER DIODE	EE3T1H	
D320			HZS15N(B2)	ZENER DIODE	KPYMX	
D320			MTZJ13(B)	ZENER DIODE	EE3T1H	
D320			MTZJ15(B)	ZENER DIODE	KPYMX	
D401,402			HZS15N(B2)	ZENER DIODE		
D401,402			MTZJ15(B)	ZENER DIODE		
D403,404			HSS104A	DIODE		
D403,404			1SS133	DIODE		
D406-408			HSS104A	DIODE		
D406-408			1SS133	DIODE		
D602,603			HZS5.6N(B2)	ZENER DIODE		
D602,603			MTZJ5.6(B)	ZENER DIODE		
D999			HSS104A	DIODE		
D999			1SS133	DIODE		
IC101			BU1923	ANALOGUE IC	EE3T1	
△ IC105			BA05T	ANALOGUE IC		
△ IC106			KIA7812API	ANALOGUE IC		
△ IC107			KIA7912PI	ANALOGUE IC		
△ IC202			M61516FP	ANALOGUE IC		
△ IC206			NJM4565D	ANALOGUE IC		
△ IC301			STK413-020A	HYBRID IC		
△ IC301		*	STK413-220A	HYBRID IC		
△ IC401			STK413-020A	HYBRID IC		
△ IC401		*	STK413-220A	HYBRID IC		
△ IC607			NJM2279D	ANALOGUE IC		
△ Q113			2SB1640	TRANSISTOR		
△ Q114			2SC1740S(Q,R)	TRANSISTOR		
△ Q114			2SC2785(F,E)	TRANSISTOR		
△ Q201			2SC1845(F,E)	TRANSISTOR		
△ Q203			2SA992(F,E)	TRANSISTOR		
Q301-306			2SC2878(B)	TRANSISTOR		
Q307,308			2SA992(F,E)	TRANSISTOR		
Q309-315			2SC1845(F,E)	TRANSISTOR		
Q316			2SA992(F,E)	TRANSISTOR		
Q317,318			2SC2878(B)	TRANSISTOR		
Q319			2SA992(F,E)	TRANSISTOR		
Q401			2SC1845(F,E)	TRANSISTOR		
Q402			2SA1535A	TRANSISTOR		
Q403			2SC3944A	TRANSISTOR		
Q404			2SC1845(F,E)	TRANSISTOR		

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Q405			2SA992(F,E)	TRANSISTOR		
Q406			2SB1640	TRANSISTOR		
Q407-409			2SC1845(F,E)	TRANSISTOR		
Q410,411			DTC113ZSA	DIGITAL TRANSISTOR		
Q410,411			UN4219	DIGITAL TRANSISTOR		
Q412			2SC1740S(Q,R)	TRANSISTOR		
Q412			2SC2785(F,E)	TRANSISTOR		
<b>DISPLAY (X14-7470-10)</b>						
D805-808			B30-2545-05	LED(RED3(160))		
C801			CE04RW1H330M	ELECTRO	33UF	50WV
C802,803			CE04RW1H010M	ELECTRO	1.0UF	50WV
C804			CE04LW1H470M	ELECTRO	47UF	50WV
C805			CE04RW1A101M	ELECTRO	100UF	10WV
C806			CE04RW1E470M	ELECTRO	47UF	25WV
C807			CE04PW1H100M	ELECTRO	10UF	50WV
C809			CE04RW1H010M	ELECTRO	1.0UF	50WV
C810			C90-1826-05	BACKUP-C	0.047F	5.5WV
C811			CE04RW1A101M	ELECTRO	100UF	10WV
C812			CE04HW1H100M	NP-ELEC	10UF	50WV
C813			CK45FF1H103Z	CERAMIC	0.010UF	Z
C814			CC45FSL1H101J	CERAMIC	100PF	J
C815,816			CK45FF1H103Z	CERAMIC	0.010UF	Z
C817			CC45FSL1H101J	CERAMIC	100PF	J
C818,819			CK45FF1H103Z	CERAMIC	0.010UF	Z
C820,821			C91-0769-05	CERAMIC	0.010UF	K
C822-825			CK45FF1H103Z	CERAMIC	0.010UF	Z
C828,829			CK45FF1H103Z	CERAMIC	0.010UF	Z
C830			CC45FSL1H101J	CERAMIC	100PF	J
C831,832			CK45FF1H103Z	CERAMIC	0.010UF	Z
C833			CC45FSL1H101J	CERAMIC	100PF	J
C834			CQ93FMG1H103J	MYLAR	0.010UF	J
C835			CK45FF1H103Z	CERAMIC	0.010UF	Z
C836-839			C91-0745-05	CERAMIC	100PF	K
C840			CQ93FMG1H104J	MYLAR	0.10UF	J
C841			C91-0745-05	CERAMIC	100PF	K
C842			CE04PW1H100M	ELECTRO	10UF	50WV
C843			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C844,845			CK45FF1H103Z	CERAMIC	0.010UF	Z
C846			CQ93FMG1H103J	MYLAR	0.010UF	J
C847,848			C91-0745-05	CERAMIC	100PF	K
C849			CC45FSL1H100D	CERAMIC	10PF	D
CN801			E40-8502-05	FLAT CABLE CONNECTOR		
CN802			E40-8501-05	FLAT CABLE CONNECTOR		
CN803			E40-8503-05	FLAT CABLE CONNECTOR		
CN805			E40-3263-05	PIN ASSY		
E1			J11-0808-05	WIRE CLAMPER		
E2			J11-0809-05	WIRE CLAMPER		
E4			J11-0808-05	WIRE CLAMPER		
X800		*	L78-0747-05	RESONATOR	(4MHZ)	
X801			L78-0725-05	RESONATOR	(8.38MHZ)	
CP801			R90-0500-05	MULTI-COMP	100KX6	J 1/4W
CP802			R90-0855-05	MULTI-COMP	100KX5	J

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CP803 R849			R90-0493-05 RD14NB2E2R2J	MULTI-COMP 100KX9 J 1/6W RD 2.2 J 1/4W		
S801-812 S801-812			S70-0031-05 S70-0086-05	TACT SWITCH TACT SWITCH		
S813.814 S815			T99-0666-05 T99-0664-05	ROTARY ENCODER ROTARY ENCODER		
D801 D801 D802-804 D802-804 D809			MTZJ6.2(B) RD6.2ES(B) HSS104A 1SS133 HSS104A	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D809 D810 D810 D811 D811			1SS133 HSS104A 1SS133 HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE	KPYM KPYP	
Δ D812.813 D814 D814 D816 D816			RB441Q-40 HSS104A 1SS133 HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE	YM YM	
D819-828 D819-828 ED801 IC801 IC802			HSS104A 1SS133 * 11MT129GNK * MN12510F S-80840ANY	DIODE DIODE FLUORESCENT INDICATOR TUBE MOS-IC ANALOGUE IC		
IC803 IC804 IC806 Q802 Q802			* XC6202P502TH * MN101C51FGA S-80840ANY 2SC1740S(Q,R) 2SC2785(F,E)	MOS-IC MI-COM IC ANALOGUE IC TRANSISTOR TRANSISTOR	YM	
Q803 Q803 Q804-807 Q804-807			2SA1175(F,E) 2SA933AS(Q,R) 2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
A801			W02-2759-05	ELECTRIC CIRCUIT MODULE		

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## PARTS LIST

### PCB # vs Model

MALYSIA MADE					INDONESIA MADE				
KRF-V4060D	E	X08-3180-10	X09-6622-72	X14-7482-73	KRF-V4060D	E	X08-3160-10	X09-6602-72	X14-7472-73
KRF-V4060DE	E1	X08-3180-10	X09-6622-72	X14-7482-73	KRF-V4060DE	E1	X08-3160-10	X09-6602-72	X14-7472-73
KRF-V4060D-S	E3	X08-3180-10	X09-6622-72	X14-7482-73	KRF-V4060D-S	E3	X08-3160-10	X09-6602-72	X14-7472-73
KRF-V4060DE-S	E2	X08-3180-10	X09-6622-72	X14-7482-73	KRF-V4060DE-S	E2	X08-3160-10	X09-6602-72	X14-7472-73
KRF-V4060D-S	M	X08-3180-21	X09-6620-22	X14-7480-23	KRF-V4060D-S	M	X08-3160-21	X09-6600-22	X14-7470-23
KRF-V4060D-S	X	X08-3180-10	X09-6620-72	X14-7480-73	KRF-V4060D-S	X	X08-3160-10	X09-6600-72	X14-7470-73
KRF-V4060D	T	X08-3180-10	X09-6620-52	X14-7482-73	KRF-V4060D	T	X08-3160-10	X09-6600-52	X14-7472-73
KRF-V4060D-S	T1	X08-3180-10	X09-6620-52	X14-7482-73	KRF-V4060D-S	T1	X08-3160-10	X09-6600-52	X14-7472-73
VR-605	K	X08-3180-10	X09-6620-10	X14-7480-10	VR-605	K	X08-3160-10	X09-6600-10	X14-7470-10
VR-605	P	X08-3180-10	X09-6620-10	X14-7480-10	VR-605	P	X08-3160-10	X09-6600-10	X14-7470-10
KRF-V5060D	Y	X08-3180-21	X09-6622-91	X14-7480-21	KRF-V5060D	Y	X08-3160-21	X09-6602-91	X14-7470-21
KRF-V5060D-S	M	X08-3180-21	X09-6620-21	X14-7480-21	KRF-V5060D-S	M	X08-3160-21	X09-6600-21	X14-7470-21
KRF-V5060D-S	X	X08-3180-10	X09-6620-71	X14-7480-71	KRF-V5060D-S	X	X08-3160-10	X09-6600-71	X14-7470-71
KRF-V5060D	E	X08-3180-10	X09-6622-71	X14-7482-71	KRF-V5060D	E	X08-3160-10	X09-6602-71	X14-7472-71
KRF-V5060D	T	X08-3180-10	X09-6620-51	X14-7482-71	KRF-V5060D	T	X08-3160-10	X09-6600-51	X14-7472-71
KRF-V5060DE	E1	X08-3180-10	X09-6622-71	X14-7482-71	KRF-V5060DE	E1	X08-3160-10	X09-6602-71	X14-7472-71
KRF-V5060D-S	E3	X08-3180-10	X09-6622-71	X14-7482-71	KRF-V5060D-S	E3	X08-3160-10	X09-6602-71	X14-7472-71
KRF-V5060D-S	T1	X08-3180-10	X09-6620-51	X14-7482-71	KRF-V5060D-S	T1	X08-3160-10	X09-6600-51	X14-7472-71
VR-615	K	X08-3180-10	X09-6630-10	X14-7480-11	VR-615	K	X08-3160-10	X09-6610-10	X14-7470-11
VR-615	P	X08-3180-10	X09-6630-10	X14-7480-11	VR-615	P	X08-3160-10	X09-6610-10	X14-7470-11
KRF-V5560D	Y	X08-3180-21	X09-6632-91	X14-7480-22	KRF-V5560D	Y	X08-3160-21	X09-6612-91	X14-7470-22
KRF-V5560D-S	M	X08-3180-21	X09-6630-21	X14-7480-22	KRF-V5560D-S	M	X08-3160-21	X09-6610-21	X14-7470-22
KRF-V5560D-S	X	X08-3180-10	X09-6630-71	X14-7480-72	KRF-V5560D-S	X	X08-3160-10	X09-6610-71	X14-7470-72
KRF-V5560D	E	X08-3180-10	X09-6632-71	X14-7482-72	KRF-V5560D	E	X08-3160-10	X09-6612-71	X14-7472-72
KRF-V5560D-S	E3	X08-3180-10	X09-6632-71	X14-7482-72	KRF-V5560D-S	E3	X08-3160-10	X09-6612-71	X14-7472-72
KRF-V5560D-S	T1	X08-3180-10	X09-6630-51	X14-7482-72	KRF-V5560D-S	T1	X08-3160-10	X09-6610-51	X14-7472-72
KRF-V5560D-S	H	X08-3180-10	X09-6634-11	X14-7482-72	KRF-V5560D-S	H	X08-3160-10	X09-6614-11	X14-7472-72

### HOW TO READ THE PARTS LIST

#### ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
KRF-V4060D	4	-	-	-	T	E	-	-	-
KRF-V4060DE	4	-	-	-	-	E1	-	-	-
KRF-V4060DE-S	4	-	-	-	-	E2	-	-	-
KRF-V4060D-S	4	X	-	-	T1	E3	-	-	-
KRF-V5060D	5	-	-	-	T	E	-	-	-
KRF-V5060DE	5	-	-	-	-	E1	-	-	-
KRF-V5060D-S	5	X	-	-	T1	E3	-	-	-
VR-605	5	-	P	-	-	-	-	-	-
KRF-V5560D	6	-	-	-	-	E	-	-	-
KRF-V5560D-S	6	X	-	-	T1	E3	-	H	-
VR-615	6	-	P	-	-	-	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
KRF-V4060D	4	-	-	-	-	-	-	-	
KRF-V4060DE	4	-	-	-	-	-	-	-	
KRF-V4060DE-S	4	-	-	-	-	-	-	-	
KRF-V4060D-S	4	-	-	-	-	-	-	M	
KRF-V5060D	5	-	Y	-	-	-	-	-	
KRF-V5060DE	5	-	-	-	-	-	-	-	
KRF-V5060D-S	5	-	-	-	-	-	-	M	
VR-605	5	-	-	-	-	-	K	-	
KRF-V5560D	6	-	Y	-	-	-	-	-	
KRF-V5560D-S	6	-	-	-	-	-	-	M	
VR-615	6	-	-	-	-	-	K	-	

# KRF-V4060D/V5060D/V5560D/VR-605/615

## SPECIFICATIONS

### For the U.S.A and Canada

#### AUDIO section (VR-605/615)

Rated power output during STEREO operation

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

Effective power output during SURROUND operation	
FRONT (40 ~ 20 kHz, 0.7% T.H.D. at 8Ω one channel driven)	100 W + 100 W
CENTER (40 ~ 20 kHz, 0.7% T.H.D. at 8Ω one channel driven)	100 W
SURROUND (40 ~ 20 kHz, 0.7% T.H.D. at 8Ω one channel driven)	100 W + 100 W
SUBWOOFER (80 Hz, 0.7% T.H.D. at 8Ω one channel driven) (VR-615)	100 W
Total harmonic distortion	0.05% (1 kHz, 50 W, 8Ω)
Frequency response	CD ..... 20 Hz ~ 70 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	CD ..... 95 dB
Input sensitivity / impedance	CD ..... 550 mV / 47 kΩ DVD/6CH INPUT (VR-615) ..... 550 mV / 47 kΩ
Output level / impedance	TAPE REC ..... 550 mV / 1 kΩ PRE OUT (SUBWOOFER) (VR-605) ..... 1.5 V / 2.2 kΩ
Tone control	BASS ..... ±10 dB (at 100 Hz) TREBLE ..... ±10 dB (at 10 kHz)
Loudness control	VOLUME at -30dB level ..... +8 dB (at 100 Hz)

### For other countries

#### AUDIO section (KRF-V5060D/V5560D)

Rated power output during STEREO operation

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

Effective power output during SURROUND operation	
FRONT (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)	100 W + 100 W
CENTER (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)	100 W
SURROUND (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)	100 W + 100 W
SUBWOOFER (80 Hz, 0.7% T.H.D. at 8Ω one channel driven) (KRF-V5560D)	100 W
Total harmonic distortion	0.05% (1 kHz, 50 W, 8Ω)
Frequency response	CD ..... 20 Hz ~ 70 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	CD, TUNER, AUX, TAPE ..... 95 dB
Input sensitivity / impedance	CD ..... 550 mV / 47 kΩ DVD/6CH INPUT (KRF-V5060D) ..... 550 mV / 10 kΩ
Output level / impedance	TAPE REC ..... 550 mV / 1 kΩ PRE OUT (SUBWOOFER) (KRF-V5060D) ..... 1.5 V / 2.2 kΩ
Tone control	BASS ..... ±10 dB (at 100 Hz) TREBLE ..... ±10 dB (at 10 kHz)
Loudness control	VOLUME at -30dB level ..... +8 dB (at 100 Hz)

#### AUDIO section (KRF-V4060D)

Effective power output during STEREO operation  
1 kHz, 0.7% T.H.D., at 8Ω ..... 50 W + 50 W  
Rated power output during STEREO operation

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

Effective power output during SURROUND operation	
FRONT (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)	50 W + 50 W
CENTER (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)	50 W

SURROUND (1 kHz, 0.7% T.H.D. at 8Ω one channel driven)	50 W + 50 W
Total harmonic distortion	0.15% (1 kHz, 20 W, 8Ω)
Frequency response	CD ..... 20 Hz ~ 70 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	CD, TUNER, AUX, TAPE ..... 95 dB
Input sensitivity / impedance	CD ..... 400 mV / 47 kΩ
Output level / impedance	TAPE REC ..... 400 mV / 1 kΩ PRE OUT (SUBWOOFER) ..... 1.5 V / 2.2 kΩ
Tone control	BASS ..... ±10 dB (at 70 Hz) TREBLE ..... ±10 dB (at 10 kHz)
Loudness control	VOLUME at -30dB level ..... +8 dB (at 100 Hz)

#### DIGITAL AUDIO section

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

#### VIDEO section

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

#### FM tuner section

Tuning frequency range	87.5 MHz ~ 108.0 MHz
Usable sensitivity (MONO)	VR-605/615 ..... 1.3 μV (75 Ω) / 13.2 dBf (75 kHz DEV., SINAD 30 dB) KRF-V5060D/V4060D/V5560D ..... 1.6 μV (75 Ω) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity	STEREO ..... 28 μV (75 Ω) / 40.2 dBf
Total harmonic distortion (1 kHz)	MONO ..... 0.5% (71.2 dBf input) STEREO ..... 0.7% (71.2 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)	MONO ..... 75 dB (71.2 dBf input) STEREO ..... 68 dB (71.2 dBf input)
Stereo separation (1 kHz)	40 dB
Selectivity (±400 kHz)	VR-605/615 ..... 70 dB KRF-V5060D/V4060D/V5560D ..... 50 dB
Frequency response	(30 Hz ~ 15kHz), +0.5 dB, -3.0 dB

#### AM tuner section

Tuning frequency range	10 kHz step (VR-605/615) ..... 530 kHz ~ 1,700 kHz 10 kHz step (KRF-V5060D/V4060D/V5560D) ..... 530 kHz ~ 1,610 kHz 9 kHz step (KRF-V5060D/V4060D/V5560D) ..... 531 kHz ~ 1,602 kHz
Usable sensitivity (30% mod., S/N 20dB) (VR-606/615)	16 μV / (600 μV/m)
Usable sensitivity (KRF-V5060D/V5560D/V4060D)	16 μV / (600 μV/m)
Signal to noise ratio (30% mod. 1 mV input)	50 dB

#### GENERAL

Power consumption	VR-605/615 ..... 2.2 A KRF-V5060D/V5560D ..... 280W KRF-V4060D ..... 200W
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AC outlet	SWITCHED
VR-605/615	(total 150 W, 1.25 A max.)
KRF-V5060D/V4060D/V5560D	(total 90 W max.)
Dimensions	W : 440 mm (17-5/16") H : 143 mm (5-5/8") D : 303 mm (11-15/16")

Weight (Net)	
VR-605/615	7.7 kg (17.00 lb)
KRF-V5060D/V5560D	8.8 kg (19.40 lb)
KRF-V4060D	7.9 kg (17.41 lb)

# KRF-V4060D/V5060D/V5560D/VR-605/615

## SPECIFICATIONS

### For the U.K and Europe

#### AUDIO section (KRF-V5060D)

Rated power output during STEREO operation DIN/IEC (63 Hz ~ 12.5 kHz, 0.7% T.H.D., at 6Ω)	100 W + 100 W
Effective power output during SURROUND operation	100 W + 100 W
FRONT (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)	100 W + 100 W
CENTER (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)	100 W
SURROUND (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)	100 W + 100 W
Total harmonic distortion	0.05% (1kHz, 50 W, 6Ω)
Frequency response (IHF'66)	20 Hz ~ 70 kHz, +0 dB, -3.0 dB
CD	20 Hz ~ 70 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	74 dB
PHONO (MM)	74 dB
CD	95 dB
Input sensitivity / impedance	6.0 mV / 27 kΩ
PHONO (MM)	6.0 mV / 27 kΩ
CD	500 mV / 47 kΩ
DVD/6CH INPUT	500 mV / 47 kΩ
Output level / impedance	500 mV / 1 kΩ
TAPE REC	500 mV / 1 kΩ
PRE OUT (SUBWOOFER)	1.5 V / 2.2 kΩ
Tone control	
BASS	±10 dB (at 100 Hz)
TREBLE	±10 dB (at 10 kHz)
Loudness control	
VOLUME at -30dB level	+8 dB (at 100 Hz)

#### AUDIO section (KRF-V4060D)

Rated power output during STEREO operation (DIN 1 kHz 0.7% T.H.D., at 6Ω)	50 W + 50 W
Effective power output during SURROUND operation	50 W + 50 W
FRONT (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)	50 W + 50 W
CENTER (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)	50 W
SURROUND (1 kHz, 0.7% T.H.D. at 6Ω one channel driven)	50 W + 50 W
Total harmonic distortion	0.15% (1 kHz, 20 W, 6Ω)
Frequency response (IHF'66)	20 Hz ~ 70 kHz, +0 dB, -3.0 dB
CD	20 Hz ~ 70 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	95 dB
CD	95 dB
Input sensitivity / impedance	400 mV / 47 kΩ
CD	400 mV / 47 kΩ
Output level / impedance	400 mV / 1 kΩ
TAPE REC	400 mV / 1 kΩ
PRE OUT (SUBWOOFER)	1.5 V / 2.2 kΩ

#### Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without no tice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

Tone control	
BASS	±10 dB (at 100 Hz)
TREBLE	±10 dB (at 10 kHz)
Loudness control	
VOLUME at -30dB level	+8 dB (at 100 Hz)

#### DIGITAL AUDIO section

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

#### VIDEO section

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

#### FM tuner section

Tuning frequency range	87.5 MHz ~ 108.0 MHz
Usable sensitivity (DIN at 75 Ω)	
MONO	1.3 μV / 13.2 dBf (40 kHz DEV., S/N 26 dB)
STEREO	45 μV / 42.1 dBf (46 kHz DEV., S/N 46 dB)
Total harmonic distortion (1 kHz)	
MONO	0.2% (71.2 dBf input)
STEREO	0.8% (71.2 dBf input)
Signal to noise ratio (DIN weighted)	
MONO	65 dB (40 kHz DEV. 71.2 dBf input)
STEREO	60 dB (46 kHz DEV. 71.2 dBf input)
Stereo separation (DIN 1 kHz)	36 dB
Selectivity (DIN ±300 kHz)	64 dB
Frequency response	(30 Hz ~ 15 kHz), +0.5 dB, -3.0 dB

#### AM tuner section

Tuning frequency range	531 kHz ~ 1,602 kHz
Usable sensitivity	16 μV / (600 μV/m)
Signal to noise ratio (30% mod. 1 mV input)	50 dB

#### GENERAL

Power consumption	
KRF-V5060D	280W
KRF-V4060D	200W
AC outlet	
SWITCHED	(total 90 W max.)
Dimensions	W : 440 mm
	H : 143 mm
	D : 303 mm
Weight (Net)	7.8 kg

## KENWOOD CORPORATION

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