

SERVICE MANUAL

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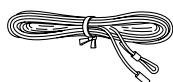
CONTENTS / ACCESSORIES / CAUTIONS

Contents

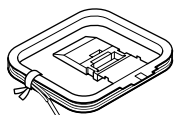
CONTENTS / ACCESSORIES / CAUTIONS	2	SCHEMATIC DIAGRAM	13
EXTERNAL VIEW	3	EXPLODED VIEW	33
WIRING DIAGRAM	4	PARTS LIST	35
PC BOARD	5	SPECIFICATIONS	46

Accessories

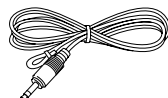
FM indoor antenna (1)
(T90-0877-05)



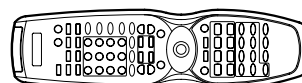
AM loop antenna (1)
(T90-0852-05)



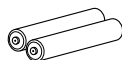
RF remote antenna (1)
(For VR-6060/6070 only)
(T90-0899-05)



Remote control unit (1)
Refer to the table on this page below.



Batteries (R6/AA) (2)



AC Plug Adaptor (1)

(E03-0383-05)



(E03-0382-05)



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

Model name vs Remote controller

MODEL	Destinations	Remote controller		
		Parts number	Model name	Battery cover
VR-6050	KP	A70-1555-05	RC-R0727	A09-1258-08
KRF-V6060D	Y	A70-1555-05	RC-R0727	A09-1258-08
KRF-V6060D	E	A70-1554-05	RC-R0726	A09-1258-08
KRF-V6060D-S	TE	A70-1554-05	RC-R0726	A09-1258-08
KRF-V6060D-S	MIXH	A70-1555-05	RC-R0727	A09-1258-08
KRF-V7060D	E	A70-1554-05	RC-R0726	A09-1258-08
KRF-V7060D-S	E	A70-1554-05	RC-R0726	A09-1258-08
VR-6060	KP	A70-1552-05	RC-R0816	A09-1258-08
KRF-V8060D	E	A70-1554-05	RC-R0726	A09-1258-08
KRF-V8060D-S	E	A70-1554-05	RC-R0726	A09-1258-08
KRF-V8060D-S	X	A70-1553-05	RC-R0725	A09-1258-08
KRF-V8060D-G	M	A70-1553-05	RC-R0725	A09-1258-08
VR-6070	KP	A70-1549-05	RC-R0813	A09-1258-08
KRF-X9060D	E	A70-1551-05	RC-R0815	A09-1258-08
KRF-X9060D	Y	A70-1550-05	RC-R0814	A09-1258-08
KRF-X9060D-S	ET	A70-1551-05	RC-R0815	A09-1258-08
KRF-X9060D-S	X	A70-1550-05	RC-R0814	A09-1258-08
KRF-X9060D-G	MH	A70-1550-05	RC-R0814	A09-1258-08

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 returns the unit to the state it was in when it left the factory.

For the U.S.A. and Canada

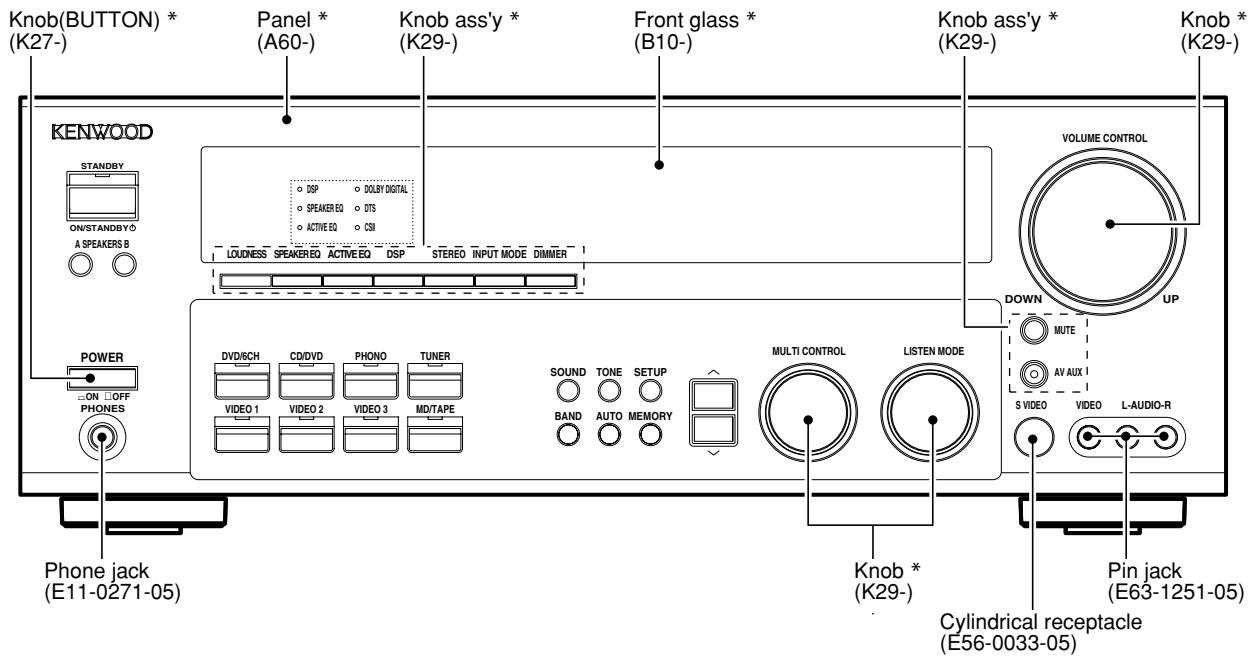
Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER ON/STANDBY  key.

For other countries

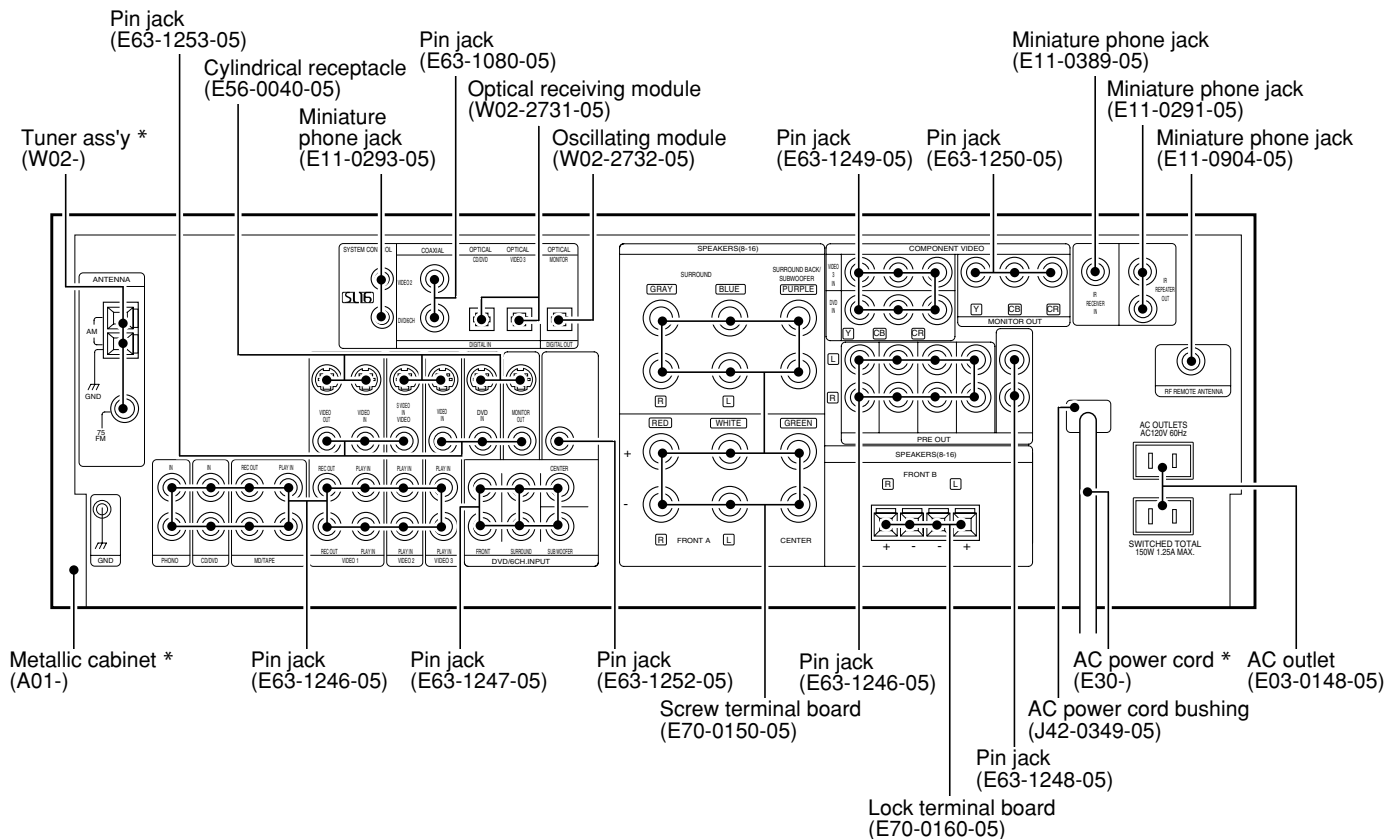
With the power cord plugged in, turn the POWER ON/OFF key OFF. Then, while holding down the ON/STANDBY  key, press POWER ON/OFF.

EXTERNAL VIEW

Illust. is VR-6070/KRF-X9060D.



Illust. is VR-6070.



* Refer to parts list on page 35.

CIRCUIT DESCRIPTION

1. Model Type & TUNER Destination

1-1 Model Type

Model Type	Model Type1 *(94Pin)	Model Type0 *(93Pin)
VR-6070/KRF-X9060D	0	0
VR-6060/KRF-V8060D	1	0
VR-6050/KRF-V6060D/KRF-V7060D	0	1

* Pin Number of Microprocessor

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~1607kHz	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

Input Voltage(V)	Tuner Destination	R (kΩ)	Volt (V)
0	K/P	Open	0
1.6~2.0	E/T	27	1.79
2.1~2.5	-	-	-
2.6~3.0	Y/M/I(M2)	12	2.78
3.1~3.5	-	-	-
3.6~4.0	Y/M/V/X(E1)	4.7	3.81
4.1~4.5	-	-	-

For M type, K2/E1 are decided by CH SPACE
 CH SPACE = 1 → K2 TYPE
 CH SPACE = 0 → 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 1050K	AM 1050K	AM 999K	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

CIRCUIT DESCRIPTION

3. Test Mode

3-1 Entering the Test Mode

- While holding down the "BAND" key, plugged in the power cord to AC power wall outlet.

3-2 Cancelling the Test Mode

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

3-3 Contents of the Test Mode

3-3-1 TUNER mute on/off

- The key is functioning when selector is set to TUNER.

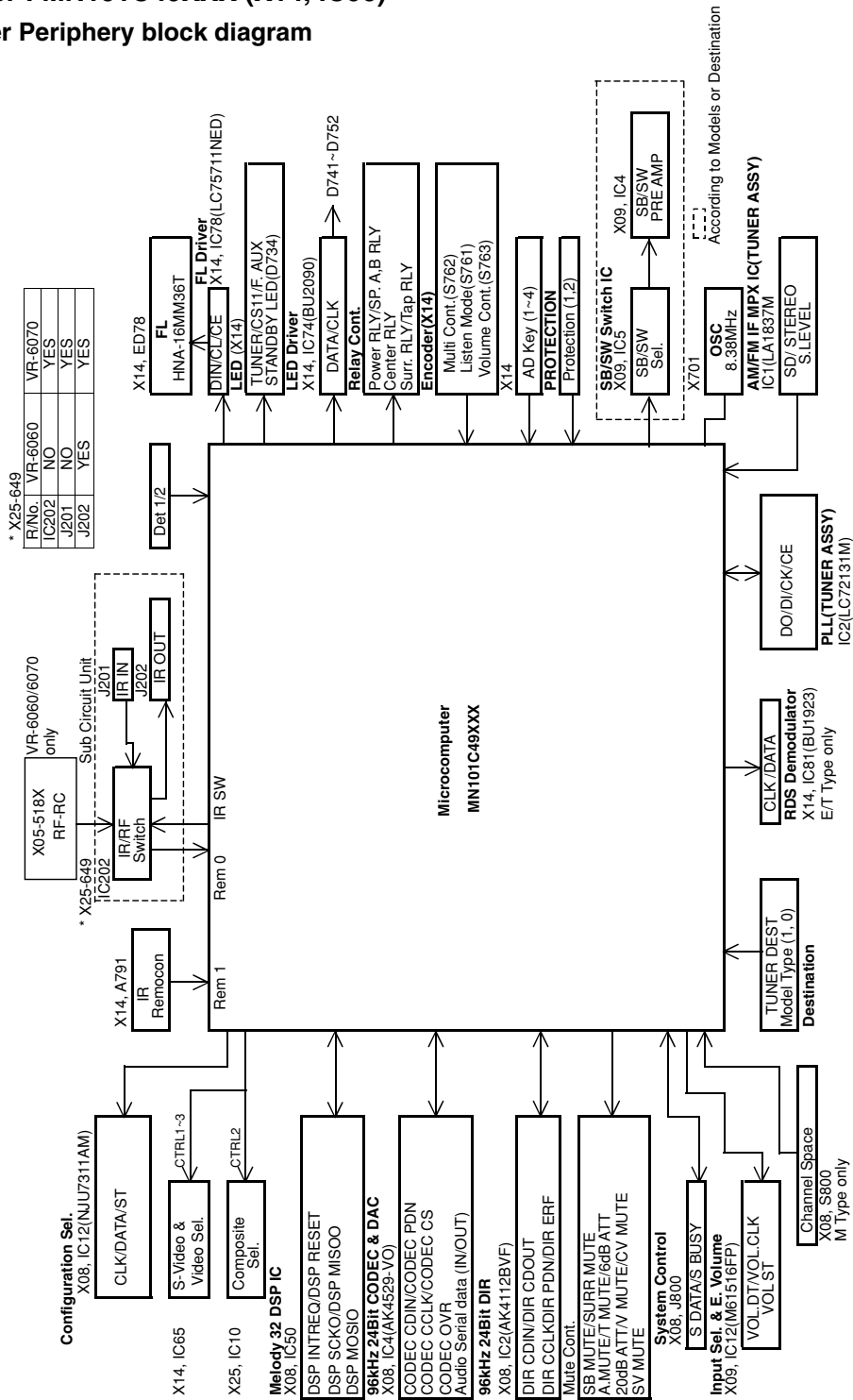
Key	Function
MUTE	TUNER mute on/off

3-3-2 RF ON/RF OFF (VR-6060/6070 only)

Key	Display	Function
SPEAKER EQ.	RF ON	Set up RF ON.
	RF OFF	Set up RF OFF.

4. Microcomputer : MN101C49XXX (X14, IC90)

4-1 Microcomputer Periphery block diagram



CIRCUIT DESCRIPTION

4-2Pin Description for Microcomputer : MN101C49XXX (X14, IC90)

Pin No.	Pin Name	I/O	Pin Description
1	VREF-	-	Connected to ground.
2	T DEST	I	Discrimination pin for tuner destination.
3	DET1	I	Detection pin of output level for FL/FR.
4	DET2	I	Detection pin of output level for SL/SR and Center.
5	S LEVEL	I	Input pin of FM S meter level.
6~9	AD KEY GET(1~4)	I	A/D key (1~4) input.
10	VREF+	-	A/D reference voltage.
11	VDD	-	Power supply (+5V) for microcomputer.
12	OSC2	O	Main clock output (8.388MHz).
13	OSC1	I	Main clock input (8.388MHz).
14	VSS	-	Connected to be ground.
15	XI	-	Connected to be ground.
16	XO	-	Unused.
17	MMOD	-	Memory mode switch input pin (unused).
18	FL DIN	O	Transfer data output to FL driver.
19	FL CS	O	Chip enable output to FL driver.
20	FL CLK	O	Synchronism clock output to FL driver.
21	FL RESET	O	System reset signal output to FL driver.
22	IR SW	O	Switching pin for IR/RF.
23	RF CS	O	Chip select output to PLL of RF-RC demodulator.
24	RF DATA	O	Data output to PLL of RF-RC demodulator.
25	RF CLK	O	Clock output to PLL of RF-RC demodulator.
26	REM I	I	Remote control signal input 1(Front panel).
27	REM O	I	Remote control signal input 1(Rear panel).
28	DIR ERF	I	Detection pin for DIR ERROR signal.
29	DSP INTREQ	I	Detection pin for DSP INTREQ.
30	CE2/RDS CLK	I	Clock input of RDS demodulator IC.
31	CE1	I	Detection pin for DSP INTREQ.
32	N.C.	-	Unused.
33	RESET	I	Reset signal input for microcomputer.
34	S BUSY	I/O	Serial busy signal input/output.
35	S DATA	I/O	Serial data signal input/output.
36	DSP RESET	O	Reset signal output to DSP.
37	CODEC OVR	I	Analog overflow detection pin.
38	CODEC PDN	O	Power down mode pin for CDDEC.
39	DIR PDN	O	Power down mode pin for DIR.
40	AK CS	O	Chip select output to DIR (X08, IC2).
41	N.C.	-	Unused.
42	AK CDTI	O	Control data output to DIR (X08, IC2).
43	DIR CDTO	I	Control data input from DAC (X08, IC4).
44	AK CLK	O	Clock output to DIR (X08, IC2).
45	DSP MOSIO	O	Data output pin to DSP (X08, IC50).
46	DSP MISOO	I	Data input pin from DSP (X08, IC50).
47	DSP SCKO	O	Clock output pin to DSP (X08, IC50).
48	SEL. ST	O	Strobe 1output to selector IC (X08, IC12).
49	SEL. CLK	O	Clock output to selector IC (X08, IC12).
50	SEL. DATA	O	Data output to selector IC (X08, IC12).
51~53	V. CTL 1~3	O	Video switch control.
54	SV. MUTE	O	Mute control to S-video & video selector (X14, IC65).
55	CV. MUTE	O	Mute control to video selector IC (X25, IC102).
56	STEREO	I	Stereo signal input from IC1(TUNER ASSY).
57	SD	I	Synchronized signal detection input.
58	T MUTE	O	Mute signal output for TUNER.
59	PLL DO	I	Data input from PLL IC (TUNER ASSY).

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
60	PLL CLK	O	Clock output to PLL IC (TUNER ASSY).
61	PLL DIN	O	Data output to PLL IC (TUNER ASSY).
62	PLL CE	O	Chip enable output to PLL IC (TUNER ASSY).
63	SURR.MUTE	I	Mute control for surround.
64	SB PREMUTE	O	Mute control for SB.
65	SP. A RLY	O	Relay control for A speaker.
66	C RLY	O	Relay control for center speaker.
67	SURR.RLY	O	Relay control for surround speaker.
68	SP. B RLY	O	Relay control for B speaker.
69	SB SW SELECT	O	Selection port for SB and SW.
70	VOL SEL. ST	O	Strobe output to E. volume IC (X09, IC2).
71	VOL. SEL DATA	O	Data output to E. volume IC (X09, IC2).
72	VOL. SEL CLK	O	Clock output to E. volume IC (X09, IC2).
73	TAP RLY	O	Switching port for transformer tap.
74	LIMITER	O	Power control for A class.
75	DSP CS	I	CS input port from DSP.
76	CH SPACE/RDS DIN	I	Data input of RDS demodulator IC.
77	A. MUTE	O	Audio mute control.
78	PROT2	I	Protection signal detection pin for over voltage.
79	PROT1	I	Detection pin of protection for shorted supply voltage.
80	POWER RLY	O	Control port of power relay.
81	LED DATA	O	Data output to led driver (X14, IC74).
82	LED CLK	O	Clock output to led driver (X14, IC74).
83	F AUX LED	O	LED (F.AUX) control port.
84	TUNER LED	O	LED (TUNER) control port.
85	STANDBY LED	O	LED (STANDBY) control port.
86	CS II LED	O	LED (CS II) control port.
87	MULTI ENC A	I	Encoder (Multi control) upward detection.
88	MULTI ENC B	I	Encoder (Multi control) downward detection.
89	LISTEN ENC A	I	Encoder (LISTEN MODE) upward detection.
90	LISTEN ENC B	I	Encoder (LISTEN MODE) downward detection.
91	VOL. ENC A	I	Encoder (Vol. Cont.) clockwise detection.
92	VOL. ENC B	I	Encoder (Vol. Cont.) counterclockwise detection.
93	MODEL TYPE 0	I	Discrimination port for model type.
94	MODEL TYPE 1	I	Discrimination port for model type.
95	DAVSS	-	Connected to be ground.
96,97	N.C.	-	Unused.
98	20dB ATT.	O	20dB attenuator control.
99	6dB ATT.	O	6dB attenuator control.
100	DAVDD	-	+5V power supply.

5. Key Matrix

Input Voltage (V)	AD Key Get 1 (Pin 6)	AD Key Get 2 (Pin 7)	AD Key Get 3 (Pin 8)	AD Key Get 4 (Pin9)	R (kΩ)	Volt (V)
0.0 to 1.0	Key Off					
1.1 to 1.5	DVD/6CH	LOUDNESS or THX	SOUND	-	43	1.29
1.6 to 2.0	CD/DVD	SP EQ	TONE	STANDBY	27	1.79
2.1 to 2.5	PHONO	ACTIVE EQ	SET UP	-	18	2.27
2.6 to 3.0	TUNER	DSP	BAND	SPA	12	2.78
3.1 to 3.5	VIDEO 1	STEREO	AUTO	SPB	7.5	3.33
3.6 to 4.0	VIDEO 2	INPUT MODE	MEMORY	-	4.7	3.81
4.1 to 4.5	VIDEO 3	DIMMER	UP	MUTE	2.4	4.31
4.6 to 5.0	MD/TAPE	-	DOWN	AV AUX	0.62	4.80

CIRCUIT DESCRIPTION

6. Pin description of ICs

6-1 PLL Frequency Synthesizer LSI : (X05, IC3) VR-6060/6070 (K/P) Type Only

Pin No.	Pin Name	I/O	Pin Description
1	XIN	I	Reference signal input pin (X'tal oscillation pin).
2	CL	I	Data input pin.
3	DI	I	Data input pin.
4	CE	I	Data input pin.
5	VCCR	-	ECL block power supply pin.
6	PI	I	Comparison signal input pin.
7	GND R	-	ECL block GND pin.
8	TEST	-	GND
9	CP	O	Built-in charge pump output pin.
10	PDP	O	Phase comparator output for an external charge pump. (Connected to GND)
11	PDN	O	Unused.
12	GND D	-	GND pin for circuits except the ECL block.
13	VCC D	-	Power supply pin for circuits except the ECL block.
14	PE	O	Phase error output pin for phase comparator (Unused).
15	OUT	O	Output port pin for switching external SW (GND).
16	XOUT	O	Output pin for X'tal oscillation.

6-2 IF MIXER : TK14583V (X05, IC4) VR-6060/6070 (K/P) Type Only

Pin No.	Pin Name	I/O	Pin Description
1	OSCB	-	Colpitts oscillation circuit.
2	OSCE	-	Colpitts oscillation circuit. (Unused)
3	MVCC	-	Supply power for mixer section.
4	MOUT	O	Mixer output port.
5	DECPL1	-	Bypass capacitor connection for limiter amplifier.
6	IF IN	I	Input port of limiter amplifier.
7	DECPL2	-	Bypass capacitor connection for limiter amplifier.
8	CGND	-	Data comparator ground.
9	COUT	O	Data comparator output.
10	CIN-	I	Data comparator input.
11	CIN+	I	Data comparator input.
12	AOUT	O	Ope. Amplifier output.
13	AIN-	I	Ope. Amplifier input.
14	AIN+	I	Ope. Amplifier input.
15	DOUT	-	Detector output. (Unused)
16	DIN	I	Detector input.
17	IFOUT	-	IF limiter output. (Unused)
18	RSSI	O	RSSI output port.
19	IGND	-	IF section ground.
20	IVCC	-	Supply power for IF section.
21	PWSAVE	-	Connected to power supply.
22	MGND	-	Mixer section ground.
23	MIN1	I	Mixer input port.
24	MIN2	I	Mixer input port.

CIRCUIT DESCRIPTION

6-3 96kHz 24Bit DIR : AK4112BVF (X08, IC2)

Pin No.	Pin Name	I/O	Pin Description
1	DVDD	-	Digital power supply pin. (3.3V)
2	DVSS	-	Digital ground pin.
3	TVDD	-	Input buffer power supply pin. (5.0V)
4	TX	O	Transmit channel (through data) output pin in serial mode.
5	XTI	I	X'tal input pin.
6	XTO	O	X'tal output pin. (Open)
7	PDN	I	Power down mode pin. When "L", the AK4112B is powered-down and reset.
8	R	-	External resistor pin.
9	AVDD	-	Analog power supply pin.
10	AVSS	-	Analog ground pin.
11	RX1	I	Receiver channel 1 This channel is selected in parallel mode or default of serial mode.
12	RX2	I	Receiver channel 2 in serial mode.
13	RX3	I	Receiver channel 3 in serial mode.
14	RX4	I	Receiver channel 4 in serial mode.
15	AUTO	O	Non PCM detect pin. "L" : No detect, "H" : Detect (Open)
16	P/S	I	Parallel/Serial select pin. "L" : Serial mode, "H" : Parallel mode (Analog ground)
17	FS96	O	96kHz sampling detect pin. (RX Mode) "H" : fs=88.2kHz or more, "L" fs=54kHz or less. (X'tal Mode) "H" : XFS96=1, "L" : XFS96=0.
18	ERF	O	Unlock & Parity Error output pin. "L" : No error, "H" : Error
19	LRCK	I/O	Output channel clock pin.
20	SDTO	O	Audio serial data output pin.
21	BICK	I/O	Audio serial data clock pin.
22	DAUX	I	Auxiliary audio data input pin. (Analog ground)
23	MCK02	O	Master clock #2 output pin. (Open)
24	MCK01	O	Master clock #1 output pin.
25	CSN	I	Chip select pin in serial mode.
26	CCLK	I	Control data clock pin in serial mode.
27	CDTI	I	Control data input pin in serial mode.
28	CDTO	O	Control data output pin in serial mode.

6-4 96kHz 24Bit CODEC & DAC : AK4529-VQ (X08, IC4)

Pin No.	Pin Name	I/O	Pin Description
1	SDOS	I	SDTO Source Select Pin (unused)
2	I2C	I	Control Mode Select Pin (unused)
3	SMUTE	I	Soft Mute Pin (Unused)
4	BICK	I	Audio Serial Data Clock Pin
5	LRCK	I	Input Channel Clock Pin
6~8	SDTI (1~3)	I	DAC(1~3) Audio Serial Data Input Pin
9	SDTO	O	Audio Serial Data Output Pin
10	DAUX	I	AUX Audio Serial Data Input Pin (GND)
11	DFS	I	Double Speed Sampling Mode Pin (GND)
12	SDTI4	I	DAC4 Audio Serial Data Input Pin (GND)
13	DZFE	I	Zero Input Detect Enable Pin (GND)
14	TVDD	-	Output Buffer Power Supply Pin (+3.3V)
15	DVDD	-	Digital Power Supply Pin (+5.0V)
16	DVSS	-	Digital Ground Pin
17	PDN	-	Power Down & Reset Pin
18	TST	-	Test Pin (GND)
19	CAD1	-	Chip Address 1 Pin (GND)
20	CAD0	-	Chip Address 0 Pin
21	LOUT4	O	DAC4 Center Channel Output Pin
22	ROUT4	O	DAC4 SW Channel Output Pin
23	LOUT3	O	DAC3 SBL Channel Output Pin
24	ROUT3	O	DAC3 SBR Channel Output Pin

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
25	LOUT2	O	DAC2 SL Channel Output Pin
26	ROUT2	O	DAC2 SR Channel Output Pin
27	LOUT1	O	DAC1 FL Channel Output Pin
28	ROUT1	O	DAC1 FR Channel Output Pin
29	NC1	-	Unused
30	NC2	-	Unused
31	LIN	I	Lch Analog Input Pin
32	RIN	I	Rch Analog Input Pin
33	OVR	O	Analog Input Overflow Detect Pin
34	VCOM	O	Common Voltage Output Pin
35	VREFH	I	Positive Voltage Reference Input Pin
36	AVDD	-	Analog Power Supply Pin (+5.0V)
37	AVSS	-	Analog Ground Pin
38	DZF1	-	Zero Input Detect 1 Pin (unused)
39	MCLK	I	Master Clock Input Pin
40	P/S	I	Parallel/Serial Select Pin (GND)
41	CSN	I	Chip Select Pin in 3-wire Serial Control Mode
42	CCLK	I	Control Data Clock Pin in Serial Control Mode
43	CDTI	I	Control Data Input Pin in Serial Control Mode
44	TDM	I	TDM I/F Format Mode Pin (GND)

6-5 Input Selector & E. Volume : M61516FP (X09, IC2)

Pin No.	Pin Name	I/O	Pin Description
1	L V3	I	Input pin of L channel VIDEO 3.
2	L 6CH	I	Input pin of FL channel DVD/6 channel.
3	L REC	I	Input pin of L channel REC.
4	L MD REC	O	Output pin of L channel MD REC.
5	L V1 REC	O	Output pin of L channel VIDEO1 REC.
6	N.C.	-	Unused.
7	N.C.	-	Unused.
8,22,52,53	VOL GND(1~4)	-	Analog ground for 8channel volume.
9	FL IN	I	Input pin of FL channel.
10	SL IN	I	Input pin of SL channel.
11	SBL IN	I	Input pin of SBL channel.
12	C IN	I	Input pin of C channel.
13	SW IN	I	Input pin of SW channel.
14	SBR IN	I	Input pin of SBR channel.
15	SR IN	I	Input pin of SR channel.
16	FR IN	I	Input pin of FR channel.
17,18,42,43	BASS(L1,L2,R1,R2)	-	Frequency characteristic setting pin of the tone control (Bass).
19,41	TRE(L,R)	-	Frequency characteristic setting pin of the tone control (Treble).
20,40	L T/RT OUT	O	Output pin of tone.
21	FL VIN	I	Input pin of FL channel volume.
23	TIM1	-	Timer setting pin for Zero-Cross detector.
24	DVDD	-	Power supply to internal logic circuit.
25	LATCH	I	Latch input from CPU.
26	DATA	I	Data input from CPU.
27	CLOCK	I	Clock input from CPU.
28	DGND	-	Ground of internal logic circuit.
29	AVCC	-	Positive power supply to internal analog circuit.
30	OUT GND	-	Ground for output block.
31	FL OUT	O	Output pin of FL channel.
32	SL OUT	O	Output pin of SL channel.
30	OUT GND	-	Ground for output block.
31	FL OUT	O	Output pin of FL channel.

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Pin Description
32	SL OUT	O	Output pin of SL channel.
33	SBL OUT	O	Output pin of SBL channel.
34	C OUT	O	Output pin of C channel.
35	SW OUT	O	Output pin of SW channel.
36	SBR OUT	O	Output pin of SBR channel.
37	SR OUT	O	Output pin of SR channel.
38	FR OUT	O	Output pin of FR channel.
39	FR VIN	I	Input pin of FR channel volume.
44	DVD/6CH FR	I	Input pin of FR channel DVD/6 channel.
45	DVD/6CH SR	I	Input pin of SR channel DVD/6 channel.
46	N.C.	-	Unused.
47	DVD/6CH SW	I	Input pin of SW channel DVD/6 channel.
48	DVD/6CH C	I	Input pin of C channel DVD/6 channel.
49	N.C.	-	Unused.
50	DVD/6CH SL	I	Input pin of SL channel DVD/6 channel.
51	DVD/6CH FL	I	Input pin of FL channel DVD/6 channel.
54	LCH	O	Output pin of L channel balance (+).
55	L LOUDNESS	-	Frequency characteristic setting pin of the loudness part and output pin of L channel balance (-).
56	IN GND	-	Ground for input block.
57	R LOUDNESS	-	Frequency characteristic setting pin of the loudness part and output pin of R channel balance (-).
58	RCH	O	Output pin of R channel balance (+).
59	N.C.	-	Unused.
60	N.C.	-	Unused.
61	R V1 REC	O	Output pin of R channel VIDEO1 REC.
62	R MD REC	O	Output pin of R channel MD REC.
63	R REC	I	Input pin of R channel REC.
64	R 6CH	I	Input pin of FR channel DVD/6 channel.
65	R V3	I	Input pin of R channel VIDEO 3.
66	R V2	I	Input pin of R channel VIDEO 2.
67	R V1	I	Input pin of R channel VIDEO 1.
68	R MD/TAPE	I	Input pin of R channel MD/TAPE.
69	R AUX	I	Input pin of R channel AUX.
70	R TUNER	I	Input pin of R channel TUNER.
71	R PHONO	I	Input pin of R channel PHONO.
72	R CD/DVD	I	Input pin of R ch CD/DVD.
73	AVEE	-	Negative power supply to internal analog circuit.
74	L CD/DVD	I	Input pin of L channel CD/DVD.
75	L PHONO	I	Input pin of L channel PHONO.
76	L TUNER	I	Input pin of L channel TUNER.
77	L AUX	I	Input pin of L channel AUX .
78	L MD/TAPE	I	Input pin of L ch MD/TAPE.
79	L V1	I	Input pin of L channel VIDEO 1.
80	L V2	I	Input pin of L channel VIDEO 2.

CIRCUIT DESCRIPTION

6-6 S-Video & Video Selector : LA79510M (X14, IC65)

Pin No.	Pin Name	I/O	Pin Description
2	VC1IN	I	Input of C signal for S-video terminal.
4	NFBCG	-	Negative feed-back pin of amplifier (unused).
6	VC2IN	I	Input of C signal for DVD.
8	VC3IN	I	Input of C signal for video 3.
10	VC4IN	I	Input of C signal for video 2.
12	VC5IN	I	Input of C signal for video 1.
14	VC6IN	I	Unused.
15	GND	-	GND
16	MUTE	-	Mute time constant changing pin.
17~19	MUTE(3~1)	-	Changeover pin of mute.
20	CTL 3	I	Video switch control 3 input.
21	CTL 2	I	Video switch control 2 input.
22	CTL 1	I	Video switch control 1 input.
23	VCOUT 2	O	Output of C signal for DVD.
24	VC OUT1	O	Output of C signal for video 1.
25	VCC-	-	Negative power supply.
26	VBOU 2	O	Output of Y signal for DVD.
27	VBOU 1	O	Output of Y signal for video 1.
28	VCCDR-	-	Negative power supply.
29	VAOUT 2	O	Monitor output of ROOM B.
30	VAOUT 1	O	REC output of video 1.
33	VCCDR+	-	Positive power supply.
35	VA6IN	I	Unused.
37	NFBAG	-	Negative feed-back pin of amplifier (unused).
39	VA5 IN	I	Input of video signal for video 1.
41	VA4 IN	I	Input of video signal for video 2.
43	VA3 IN	I	Input of video signal for video 3.
45	VA2 IN	I	Input of DVD signal.
47	VAIN	I	Input of video signal for composite.
50	VB1IN	I	Input of Y signal for S-video terminal.
52	NFB BG	-	Negative feed-back pin of amplifier (unused).
54	VB2 IN	I	Input of Y signal for DVD.
56	VB3 IN	I	Input of Y signal for video 3.
58	VB4 IN	I	Input of Y signal for video 2.
60	VB5 IN	I	Input of Y signal for video 1.
62	VB6 IN	I	Unused.
63	VCC+	-	Positive power supply.

6-7 Serial in / Parallel out Driver : BU2090F (X14, IC74)

Pin No.	Pin Name	I/O	Pin Description						
1	VSS	-	GND						
2	DATA	I	Serial data input.						
3	CLOCK	I	Shift clock of data.						
4~15	OUT1~OUT12	O	Parallel data output (N ch Open Drain FET). <table><tr><td>Latch Data</td><td>L</td><td>H</td></tr><tr><td>Output FET</td><td>ON</td><td>OFF</td></tr></table>	Latch Data	L	H	Output FET	ON	OFF
Latch Data	L	H							
Output FET	ON	OFF							
16	VDD	-	Power supply.						

CIRCUIT DESCRIPTION

6-8 VFD Display Controller Driver : LC75711NED (X14, IC78)

Pin No.	Pin Name	I/O	Pin Description
1~35 36~38	AM1~AM35 AA1~AA3	O	Output pin of Anode.
39~43	AA4~AA8/ G16~G12	O	Output pin of Anode and Grid.
44~54	G11~G1	O	Output pin of Grid.
55	VFL	-	Power supply for driver section.
56	TEST	-	Connected to be ground.
57	VSS	-	GND
58	OSCO	O	Crystal oscillation circuit output.
59	OSCI	I	Crystal oscillation circuit input.
60	VDD	-	Power supply for logic section (+5.0V).
61	RES	I	Input pin of system reset.
			Serial data transfer pin.
62	CE	I	Chip enable input.
63	CL	I	Synchronism clock input.
64	DI	I	Transfer data input.

6-9 RDS Demodulator IC : BU1923 (X14, IC81) E/T Type Only

Pin No.	Pin Name	I/O	Pin Description
1	QUAL	O	Output signal of demodulation quality.
2	RDATA	O	RDS Demodulation data output.
3	VREF	-	Reference voltage connection pin.
4	MUX	I	Composite signal input.
5	VDD1	-	Analog power supply (+5.0V).
6	VSS1	-	Analog ground.
7	VSS3	I	Comparator input.
8	CMP	O	Comparator output.
9	T2	I	Connected to ground.
10	T1	I	Connected to ground.
11	VSS2	-	Connected to ground.
12	VDD2	-	Digital power supply (+5.0V).
13	XI	I	Crystal oscillator (4.332MHz) output.
14	X0	O	Crystal oscillator (4.332MHz) input.
15	NC	-	Unused.
16	RCLK	O	Demodulation clock (1.1875MHz) output.

6-10 Composite Selector : NJM2284D (X25, IC101)

Pin No.	Pin Name	I/O	Pin Description
1	IN1B	I	Composite Cr signal input.
2,7,12	CTL(1~3)	I	Video switch control input.
3	OUT1	O	Composite Cr signal output.
4,10,15	GND(1~3)	-	GND
5	OUT2	O	Composite Cb signal output.
6	OUT3	O	Composite Y signal output.
8	IN3A	I	Composite Y signal input.
9	IN3B	I	Composite Y signal input.
11	IN2A	I	Composite Cb signal input.
13	V	-	Power supply
14	IN2B	I	Composite Cb signal input.
16	IN1A	I	Composite Cr signal input.

CIRCUIT DESCRIPTION

6-11 3 Channel 75ΩDriver : BA7666FS (X25, IC102)

Pin No.	Pin Name	I/O	Pin Description
1	MUTE	I	Mute control pin.
2	INA	I	Composite Y signal input.
3,5,8	GND	-	Ground pin.
4	INB	I	Composite Cb signal input.
6,11	N.C.	-	Unused.
7	INC	I	Composite Cr signal input.
9	OUTC2	O	Output of the composite Cr signal.
10	OUTC1	O	Output of the composite Cr signal.
12	OUTB2	O	Output of the composite Cb signal.
13	OUTB1	O	Output of the composite Cb signal.
14	OUTA2	O	Output of the composite Y signal.
15	OUTA1	O	Output of the composite Y signal.
16	VCC	-	Power supply pin.

6-12 PLL Frequency Synthesizer LSI : LC72131M (Tuner Assy IC2)

Pin No.	Pin Name	I/O	Pin Description
1	X IN	I	Crystal resonator connection.
2	CE	I	Chip enable.
3	DI	I	Input serial data.
4	CL	I	Used as the synchronization clock when serial data is input to the DI(pin 3), or when serial data is output DO(pin 5).
5	DO	O	Outputs serial data.
6	B01	O	- Dedicated output pins. - The output states are determined by B01 to B04 in the serial data. "Data" =0 : Open "Data" =1 : Low - These pins go to the open state after the power-on reset.
7	B02		
8	B03		
9	B04		
10,12	I01, I02	I/O	Pins used for both input and output. The input or output state is determined by bits I0C1 and I0C2 in the serial data. "Data" = 0 : Open, "Data" = 1: Low
11	IF IN	I	IF count input.
13	AM IN	I	Local oscillator signal input.
14	FM IN	I	Local oscillator signal input.
15	VDD	-	Power supply.
16	PD	O	PLL charge pump output.
17, 18	AIN AOUT	I O	The MOS transistor used for the PLL active low-pass filter.
19	VSS	-	Ground.
20	X OUT	O	Crystal resonator connection.

ADJUSTMENT

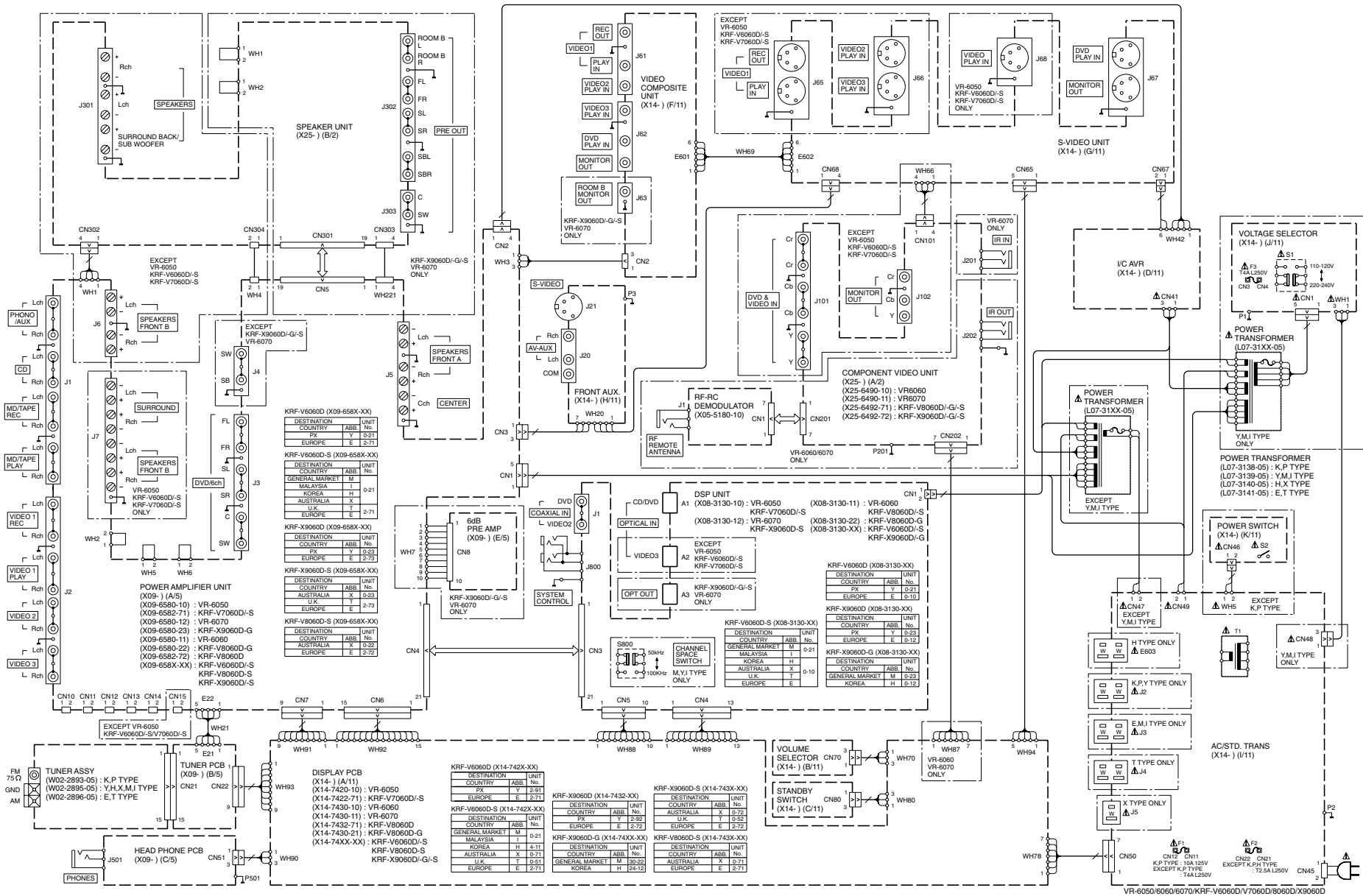
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
AUDIO SECTION		SPEAKER : A					
<1>	IDLE CURRENT	—	CN11, FL ch. CN10, FR ch. CN14, SL ch. CN13, SR ch. CN12, C ch. CN15, SW ch. X09(A/4)	(FRONT 2ch MODE) Volume: Minimum	VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER)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

Idling Current Adjustment

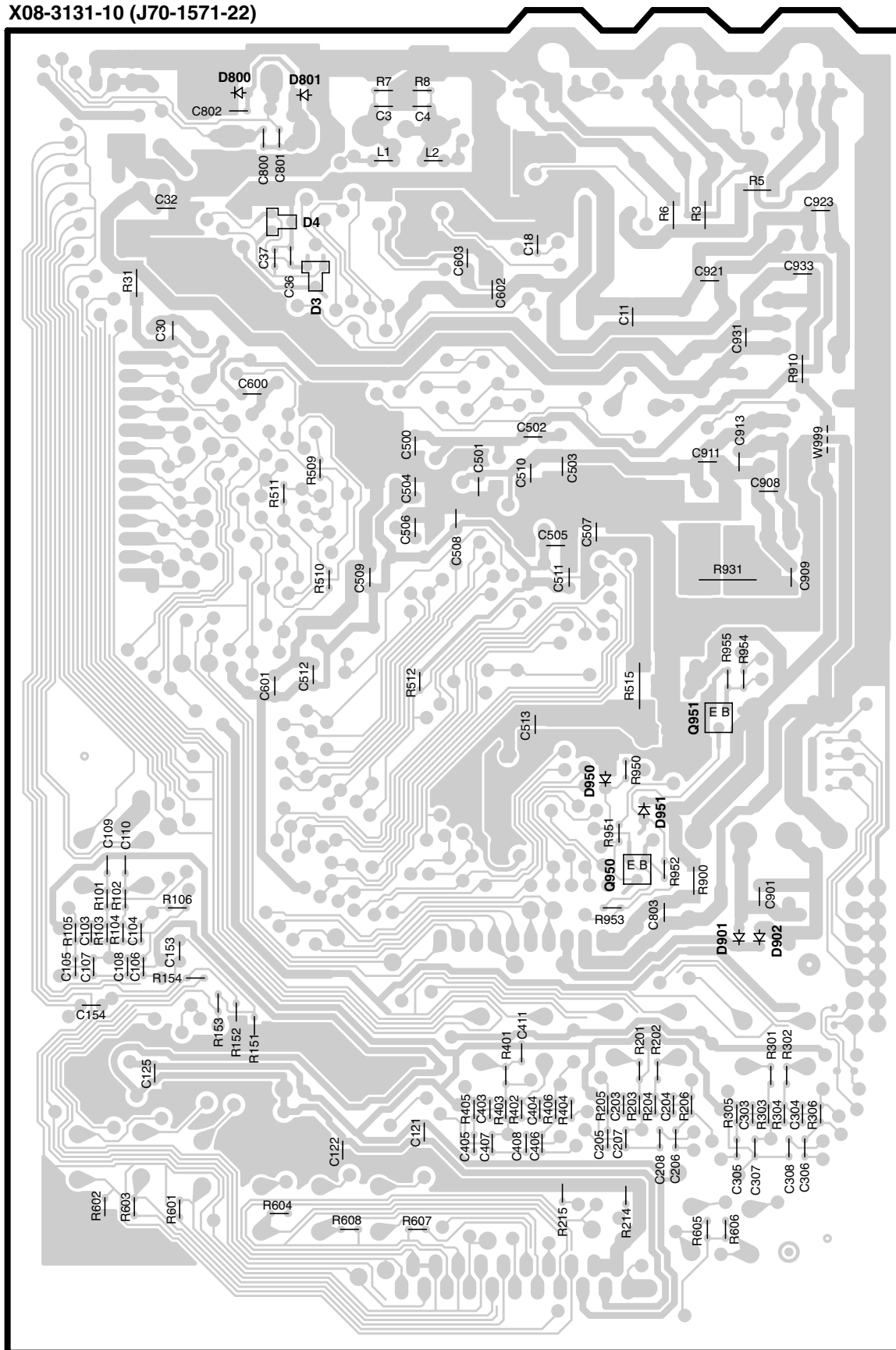
All power amplifier stage need idling current adjustment after the installation of TRAIT transistor.

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

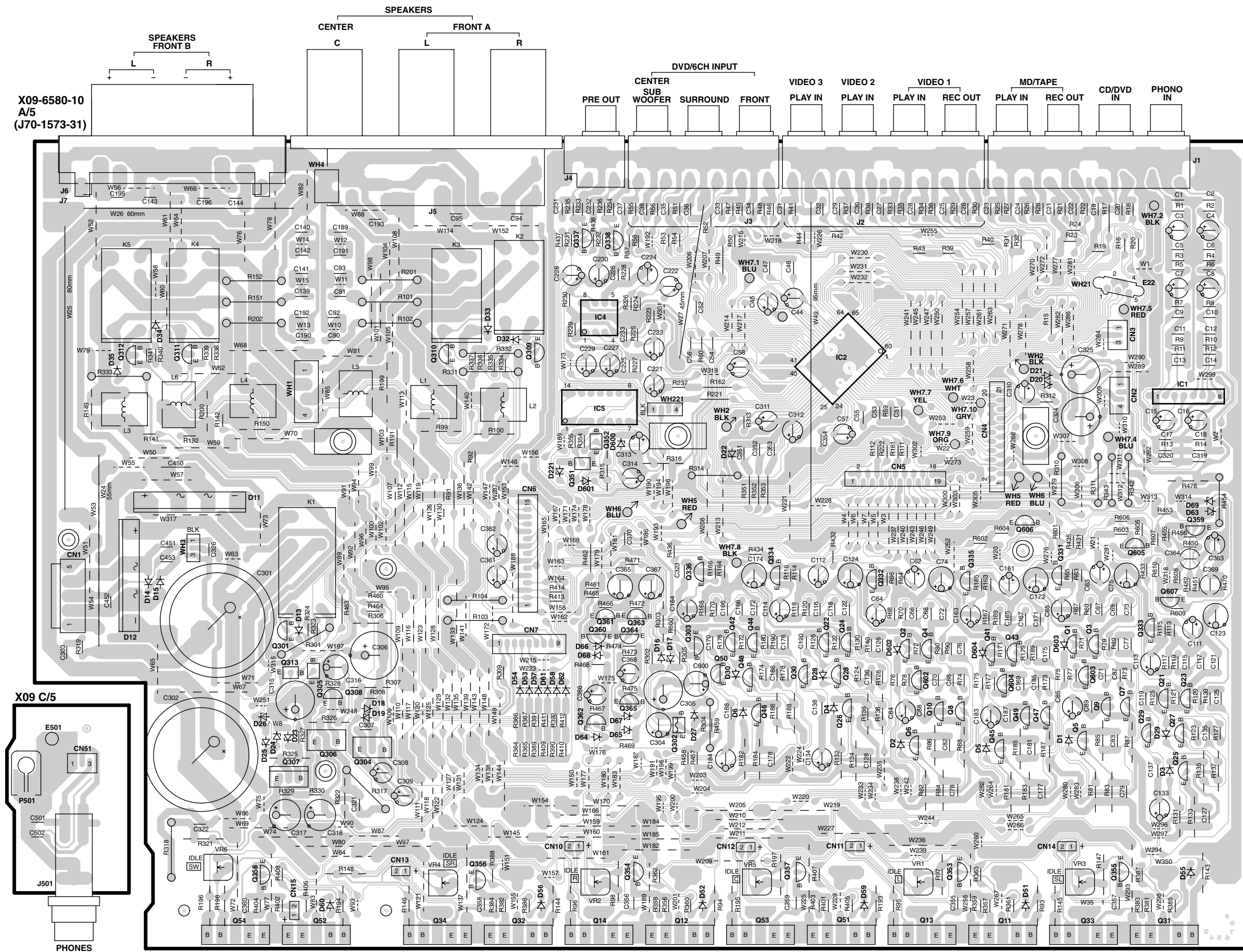
WIRING DIAGRAM



X08-3131-10 (J70-1571-22)

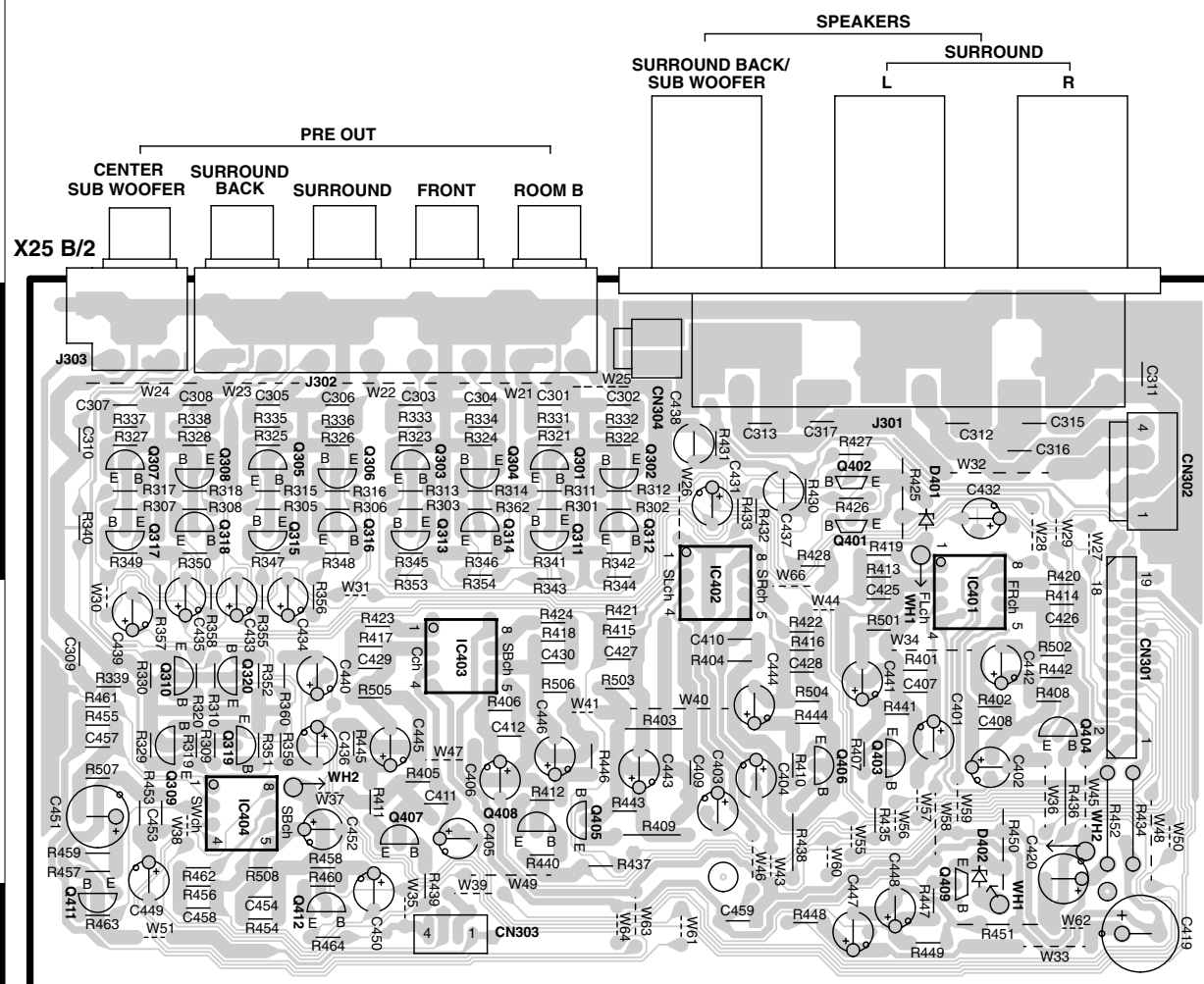
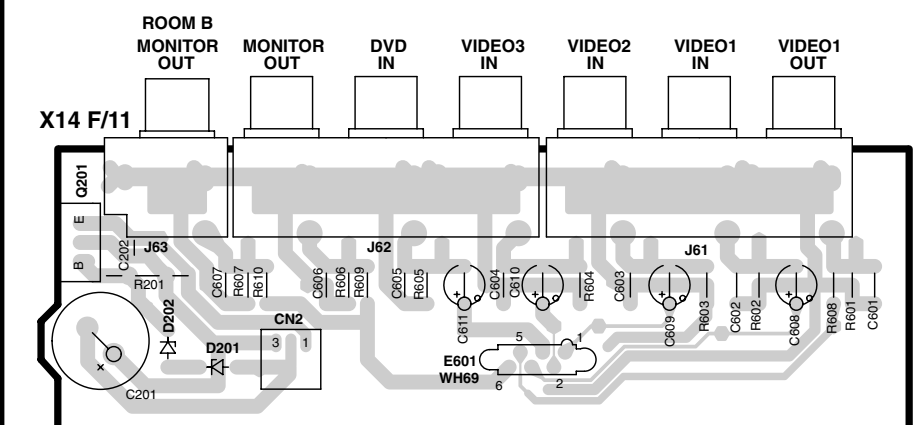
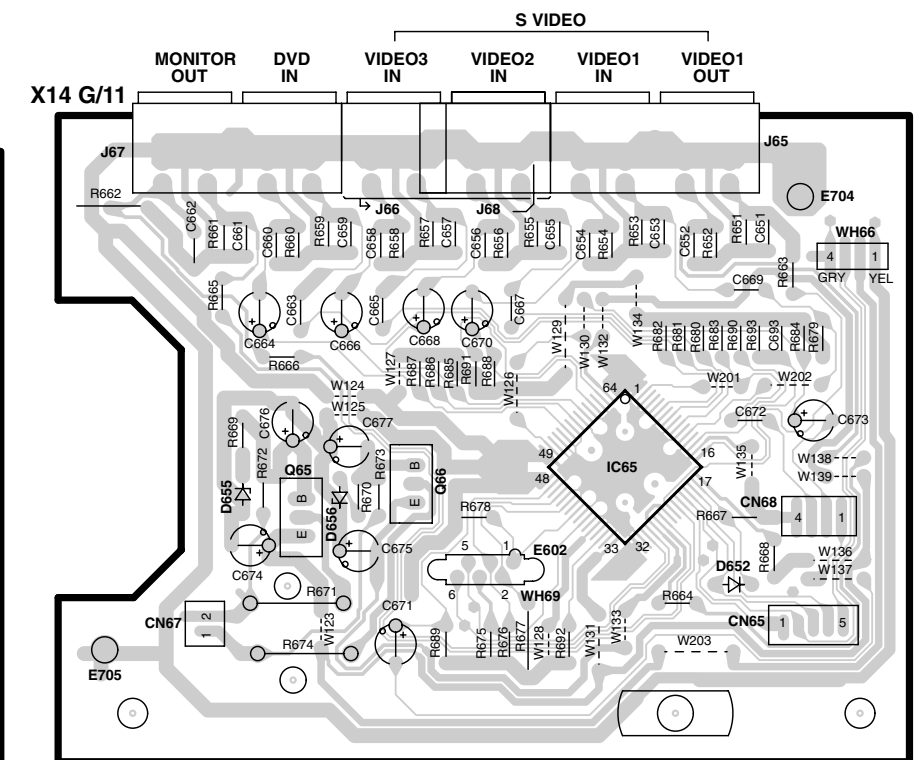
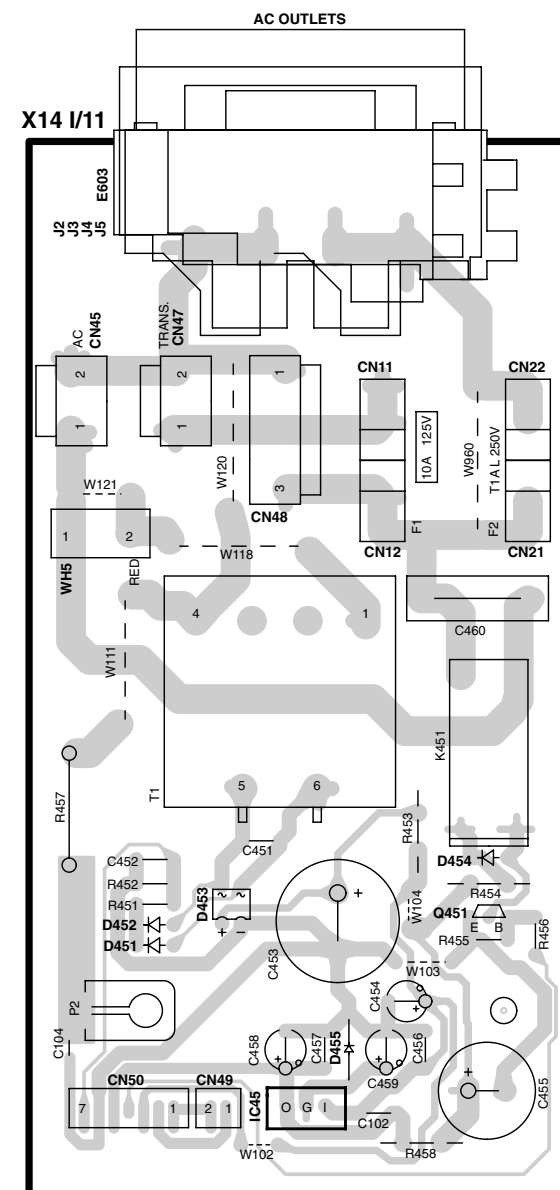
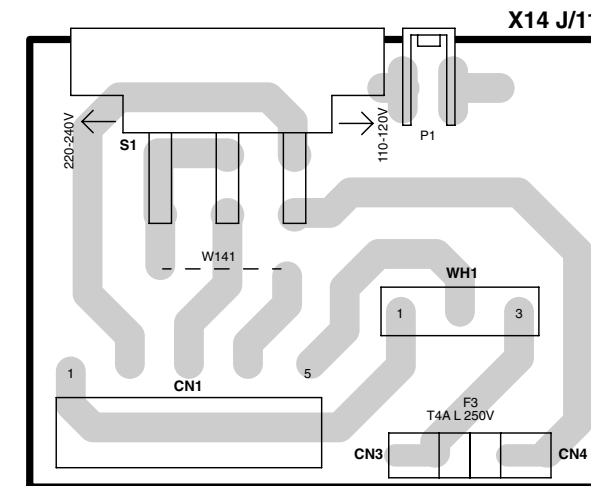
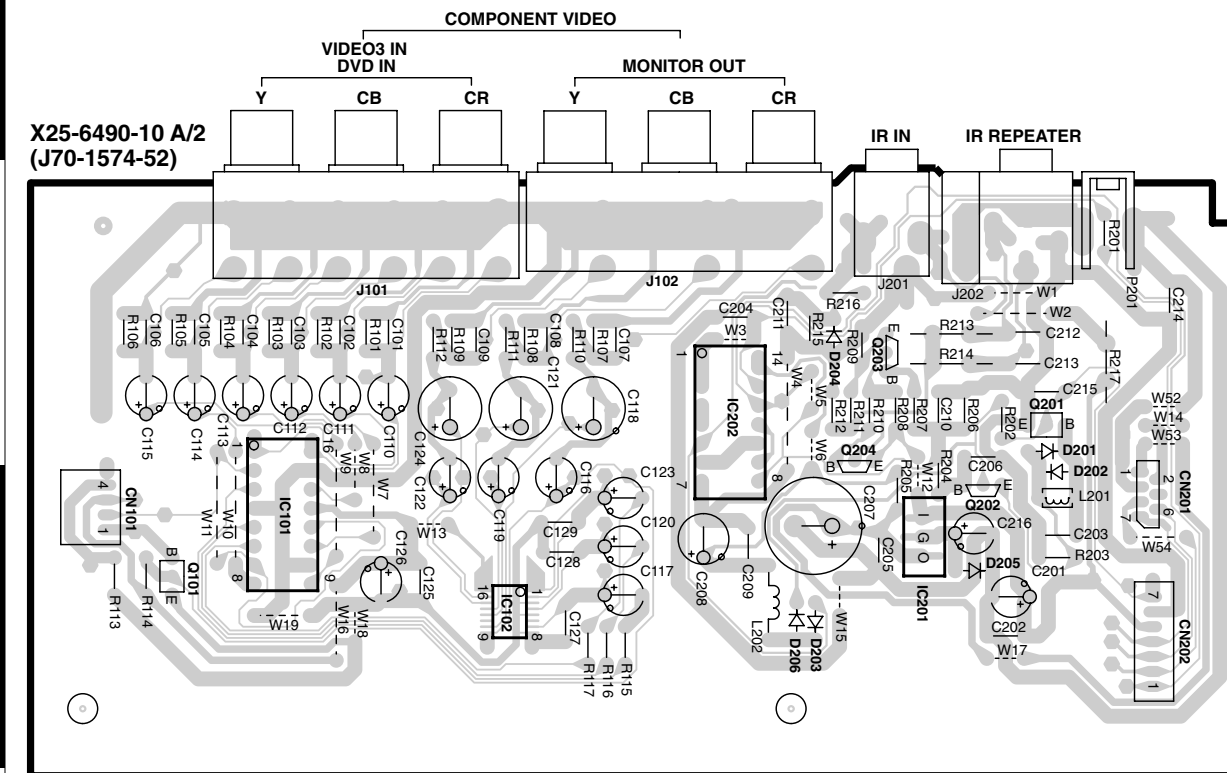


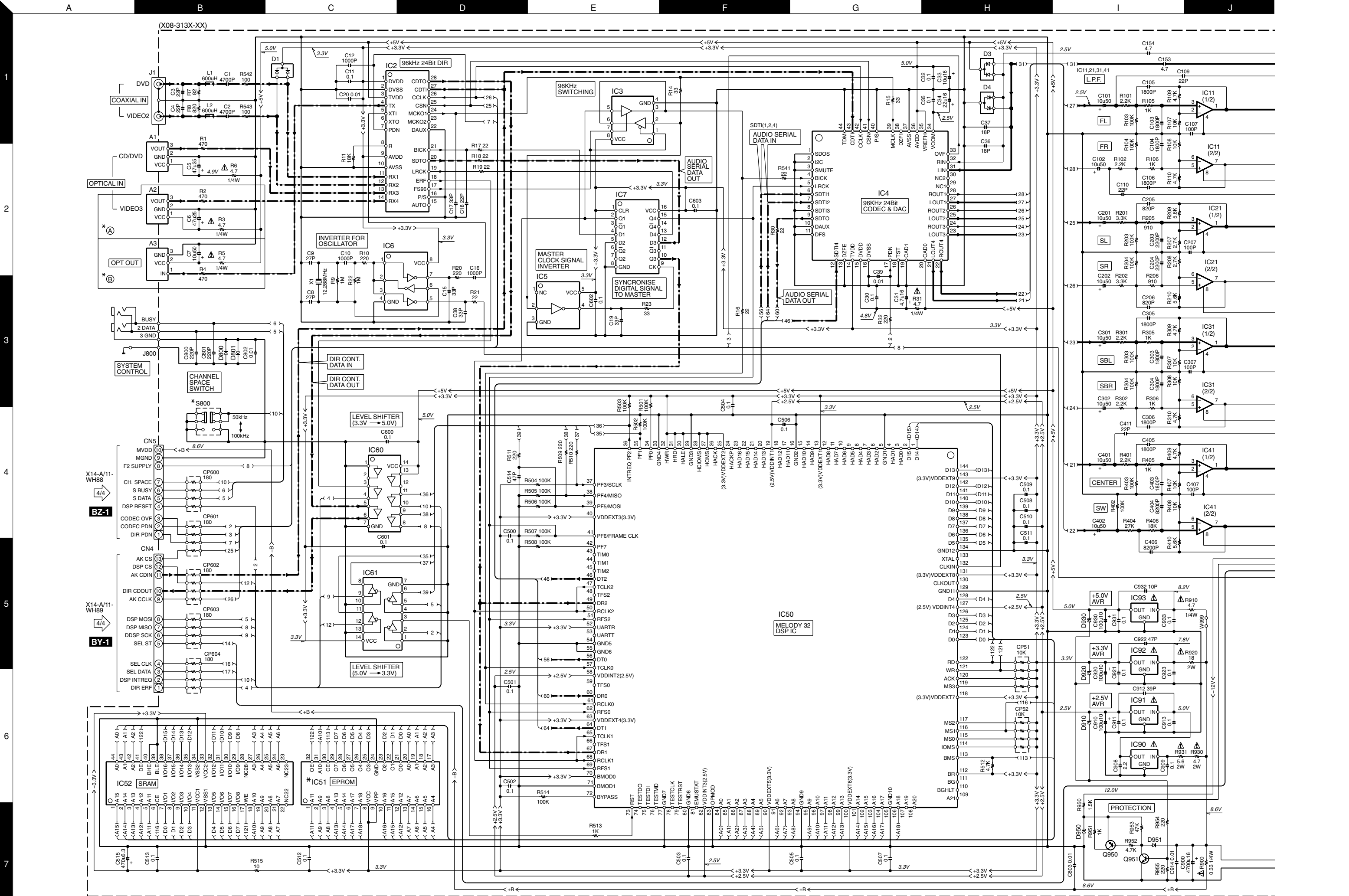
PC BOARD (Component side view)

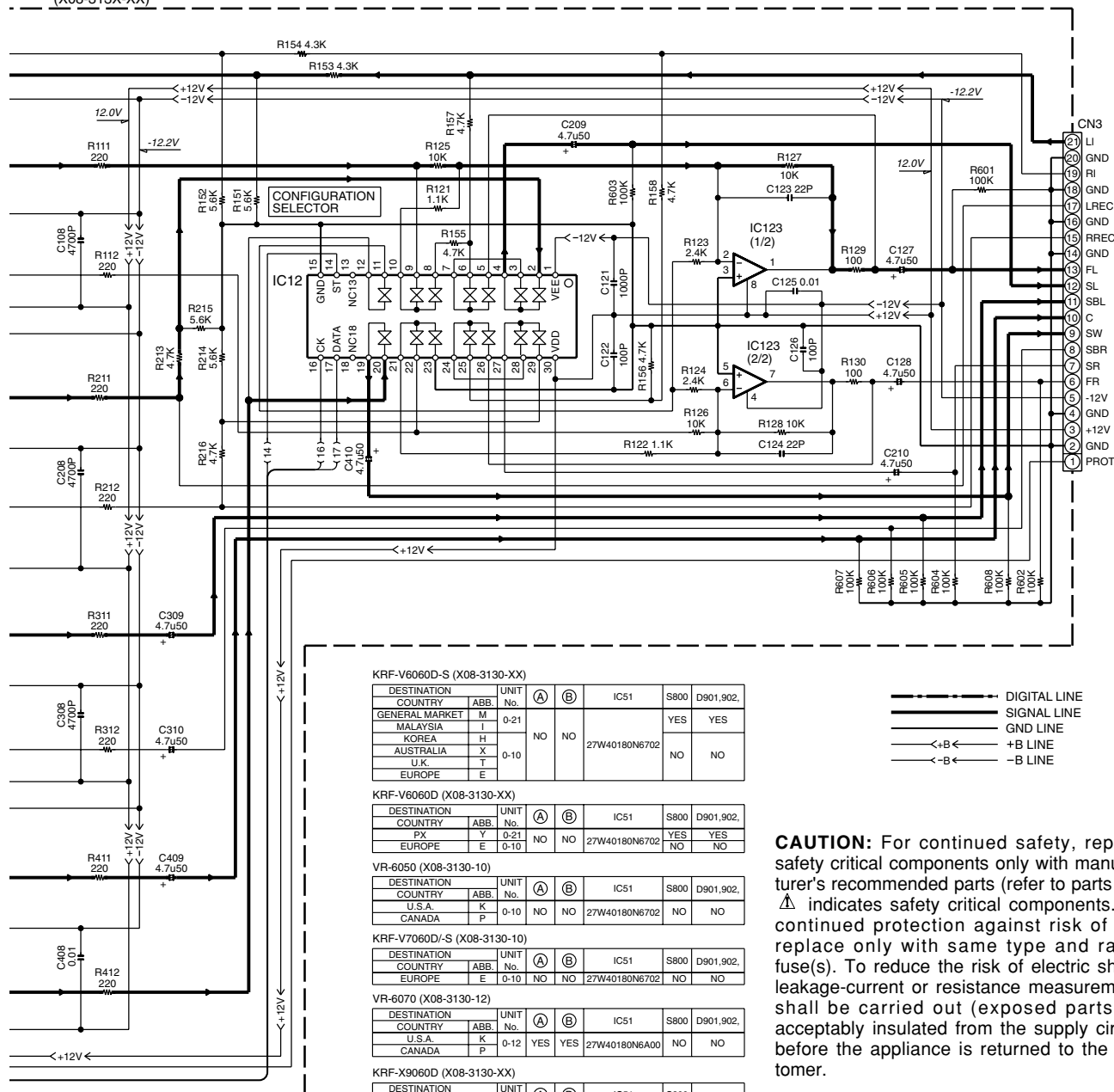


Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)







X09-A/5-
CMA

AF-7

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE

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 no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

KRF-V6060D-S (X08-3130-XX)

DESTINATION		UNIT	(A)	(B)	IC51	S800	D901,902
COUNTRY	ABB.	No.					
GENERAL MARKET	M	0-21	NO	NO	27W40180N6702	YES	YES
MALAYSIA	I						
KOREA	H						
AUSTRALIA	X	0-10				NO	NO
U.K.	T						
EUROPE	F						

KRF-V6060D (X08-3130-XX)

DESTINATION		UNIT	(A)	(B)	IC51	S800	D901,902
COUNTRY	ABB.	No.					
PX	Y	0-21	NO	NO	27W40180N6702	YES	YES
EUROPE	E	0-10				NO	NO

VR-6050 (X08-3130-10)

DESTINATION		UNIT	(A)	(B)	IC51	S800	D901,902
COUNTRY	ABB.	No.					
U.S.A.	K	0-10	NO	NO	27W40180N6702	NO	NO
CANADA	P						

KRF-V7060D/-S (X08-3130-10)

DESTINATION		UNIT	(A)	(B)	IC51	S800	D901,902
COUNTRY	ABB.	No.					
EUROPE	E	0-10	NO	NO	27W40180N6702	NO	NO

VR-6070 (X08-3130-12)

DESTINATION		UNIT	(A)	(B)	IC51	S800	D901,902
COUNTRY	ABB.	No.					
U.S.A.	K	0-12	YES	YES	27W40180N6A00	NO	NO
CANADA	P						

KRF-X9060D (X08-3130-XX)

DESTINATION		UNIT	(A)	(B)	IC51	S800	D901,902
COUNTRY	ABB.	No.					
PX	Y	0-23	YES	YES	27W40180N6A00	YES	YES
EUROPE	E	0-12				NO	NO

KRF-X9060D-G (X08-3130-XX)

DESTINATION		UNIT	(A)	(B)	IC51	S800	D901,902
COUNTRY	ABB.	No.					
GENERAL MARKET	M	0-23	YES	YES	27W40180N6A00	YES	YES
KOREA	H	0-12				NO	NO

KRF-X9060D-S (X08-3130-12)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	IC51	S800	D901,902
COUNTRY	ABB.						
AUSTRALIA	X	0-12	YES	YES	27W40180N6A00	NO	NO
U.K.	T						
EUROPE	F						

VR-6060 (X08-3130-11)

DESTINATION		UNIT	(A)	(B)	IC51	S800	D901,902
COUNTRY	ABB.	No.					
U.S.A.	K	0-11	YES	NO	27W40180N6902	NO	NO
CANADA	P						

KRF-V8060D-G (X08-3130-22)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	IC51	S800	D901,902
COUNTRY	ABB.						
GENERAL MARKET	M	0-22	YES	NO	27W40180N6902	YES	YES

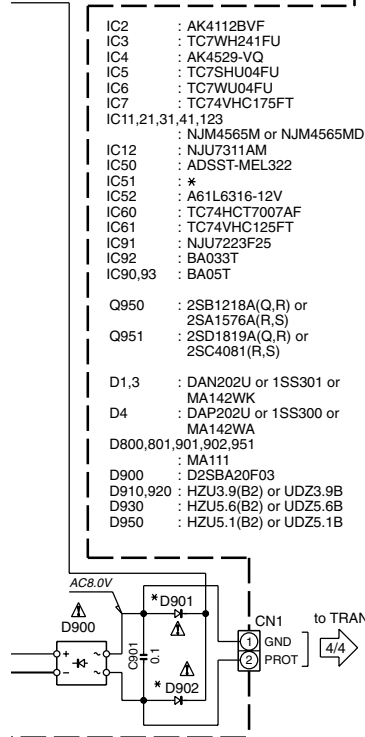
KRF-V8060D-S (X08-3130-11)

DESTINATION		UNIT	Ⓐ	Ⓑ	IC51	S800	D901,902
COUNTRY	ABB.	No.					
AUSTRALIA	X	0-11	YES	NO	27W40180N6902	NO	NO
EUROPE	E						

KRF-V8060D (X08-3130-11)

DESTINATION		UNIT No.	Ⓐ	Ⓑ	IC51	S800	D901,902
COUNTRY	ABB.						
EUROPE	E	0-11	YES	NO	27W40180N6902	NO	NO

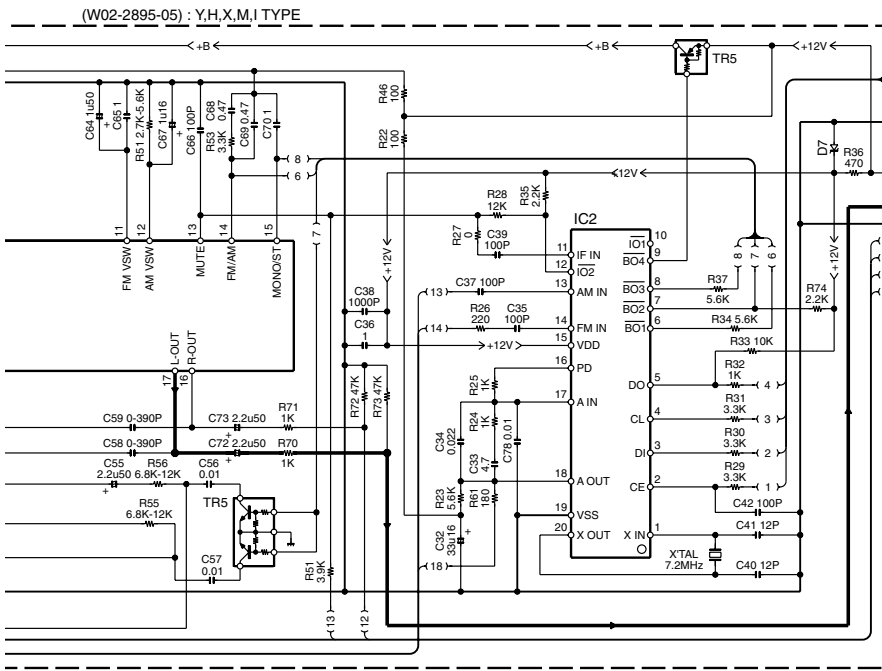
VR-6050/6060/6070/KRF-V6060D/V7060D/V8060D/X9060D (1/4)



Y05-4660-10

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

KENWOOD



K2-5	L6	Q313	R13, 14	R65,66,318, 603,604	R79,80,129, 130,179	R180, 200,202	R303	R304,358,359, 383,384,403,404	R317, 413,414	W1,2,5-8,10-12, 14,15,20-23	W3,4, 13	WH1,4, 221
S76-0045-15	NO	NO	220K	1.5K	390	NO	1	10K	1.2K	YES	NO	NO

K2-5	L6	Q313	R13, 14	R65,66, 603,604	R79,80,129, 130,179	R180, 200,202	R303	R304,358,359, 383,384,403,404	R317	R318	R413, 414	W1,2, 20-23	W5-8, 10-15	W3,4, 10-15	WH1,4, 221
S76-0045-15	NO	NO	220K	1.5K	390	NO	1	10K	2.2K	2.2K	1.2K	YES	YES	NO	NO
S76-0098-05	NO	NO	47K	1.5K	430	NO	1	10K	1.2K	1.5K	1.5K	NO	YES	NO	NO

K2-5	L6	Q313	R13, 14	R65,66, 603,604	R79,80,129, 130,179	R180, 200,202	R303	R304,358,359, 383,384,403,404	R317	R318	R413, 414	W1,2, 20-23	W5-8, 10-15	W3,4, 10-15	WH1,4, 221
S76-0045-15	NO	NO	220K	1.5K	390	NO	1	10K	2.2K	2.2K	1.2K	YES	YES	NO	NO
S76-0098-05	NO	NO	47K	1.5K	430	NO	1	10K	1.2K	1.5K	1.5K	NO	YES	NO	NO

R13, 14	R65,66,318, 413,414,603,604	R79,80,129, 130,179	R180, 200,202	R303	R304,358,359, 383,384,403,404	R317	W1-4, 10-15	W5-8, 20-23	WH1,4, 221
47K	1.5K	430	NO	1	10K	1.2K	NO	YES	NO

L6	Q313	R13, 14	R65, 66	R79,80,129, 130,179,180	R200, 202	R303	R304	R317	R318	R358,359,383, 384,403,404	R603, 604	W1,2,5-8, 10-15	W3,4, 8	WH1,4, 221
YES	NO	47K	2.2K	1.6K	YES	560	8.2K	2.2K	2.2K	9.1K	470	NO	YES	YES

Q313	R13, 14	R65, 66	R79,80,129, 130,179,180	R200, 202	R303	R304	R317	R318	R358,359,383, 384,403,404	R413, 414	R603, 604	W1,2,5-7, 10-15,20-23	W3,4	W8	WH1,4, 221
NO	47K	2.2K	1.6K	YES	560	8.2K	2.2K	2.2K	9.1K	1.2K	470	NO	YES	YES	YES

Q313	R13, 14	R65,66, 317,318	R79,80,129, 130,179,180	R200, 202	R303	R304	R358,359,383, 384,403,404	R413, 414	R603, 604	W1,2,5-7, 10-15,20-23	W3, 4,8	WH1,4, 221
NO	47K	2.2K	1.6K	YES	560	8.2K	9.1K	1.2K	470	NO	YES	YES

Q313	R13, 14	R65, 66	R79,80,129, 130,179,180	R200, 202	R303	R304	R317	R318	R356,359,383, 384,403,404	R413, 414	R603, 604	W1,2,5-7, 10-15,20-23	W3,4	W8	WH1,4, 221
NO	47K	2.2K	1.6K	YES	560	8.2K	2.2K	2.2K	9.1K	1.2K	470	NO	YES	NO	YES
YES					1	10K	1.2K	1.5K		1.5K					

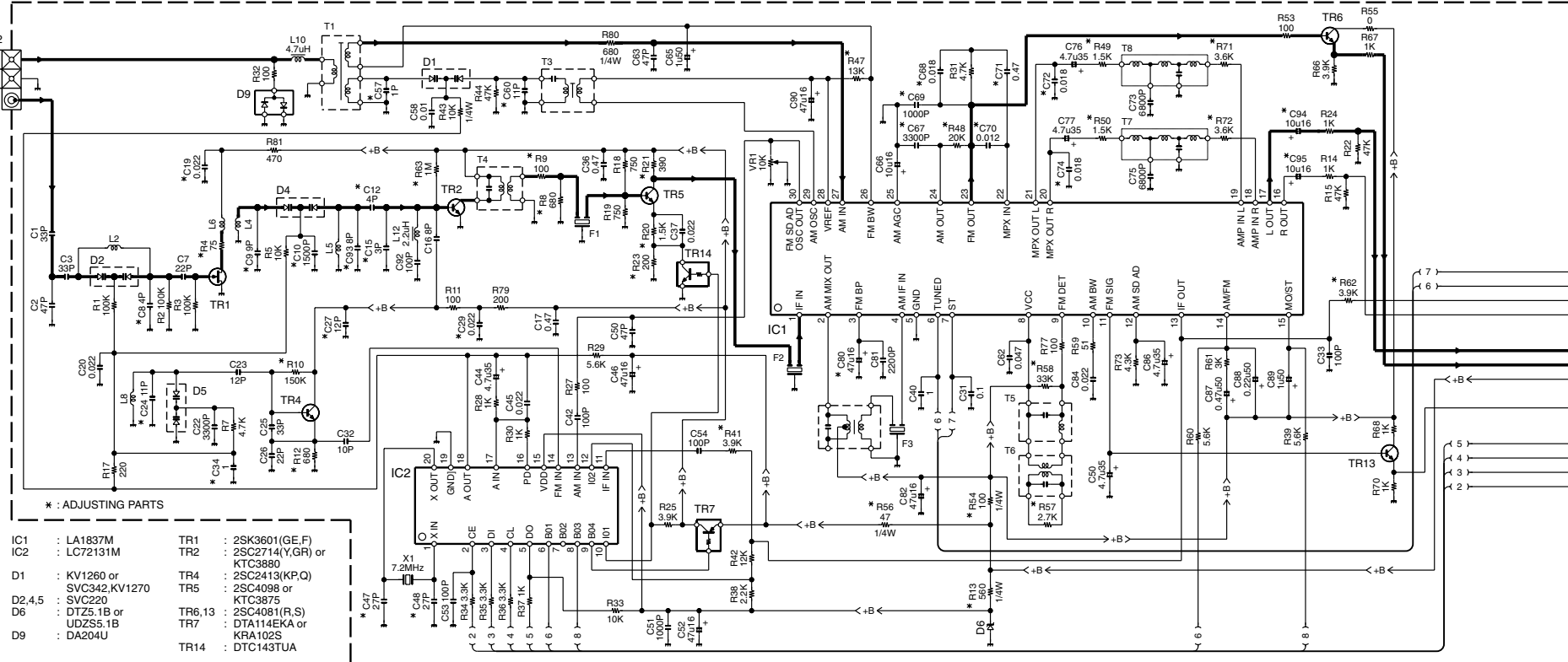
K2-5	L6	Q313	R13, 14	R65,66,318, 603,604	R79,80,129, 130,179	R180	R200, 202	R303	R304,358,359, 383,384,403,404	R317	R318	R413, 414	W1-4, 10-15	W5-8, 20-23	WH1, 4	WH221
S76-0045-15	YES	NO	47K	1.5K	390	4.7K	YES	1	10K	2.2K	1.2K	NO	YES	YES	NO	NO

K2-5	L6	Q313	R13, 14	R65,66, 603,604	R79,80,129, 130,179	R180	R200, 202	R303	R304,358,359, 383,384,403,404	R317	R318	R413, 414	W1-4, 10-15	W5-8, 20-23	WH1, 4	WH221
S76-0045-15	YES	NO	47K	1.5K	390	4.7K	YES	1	10K	2.2K	1.2K	NO	YES	YES	NO	NO

K2-5	L6	Q313	R13, 14	R65,66,318, 603,604	R79,80,129, 130,179	R180	R200, 202	R303	R304,358,359, 383,384,403,404	R317	R318	R413, 414	W1-4, 10-15	W5-8, 20-23	WH1, 4	WH221
S76-0045-15	YES	NO	47K	1.5K	390	4.7K	YES	1	10K	2.2K	1.2K	NO	YES	YES	NO	NO

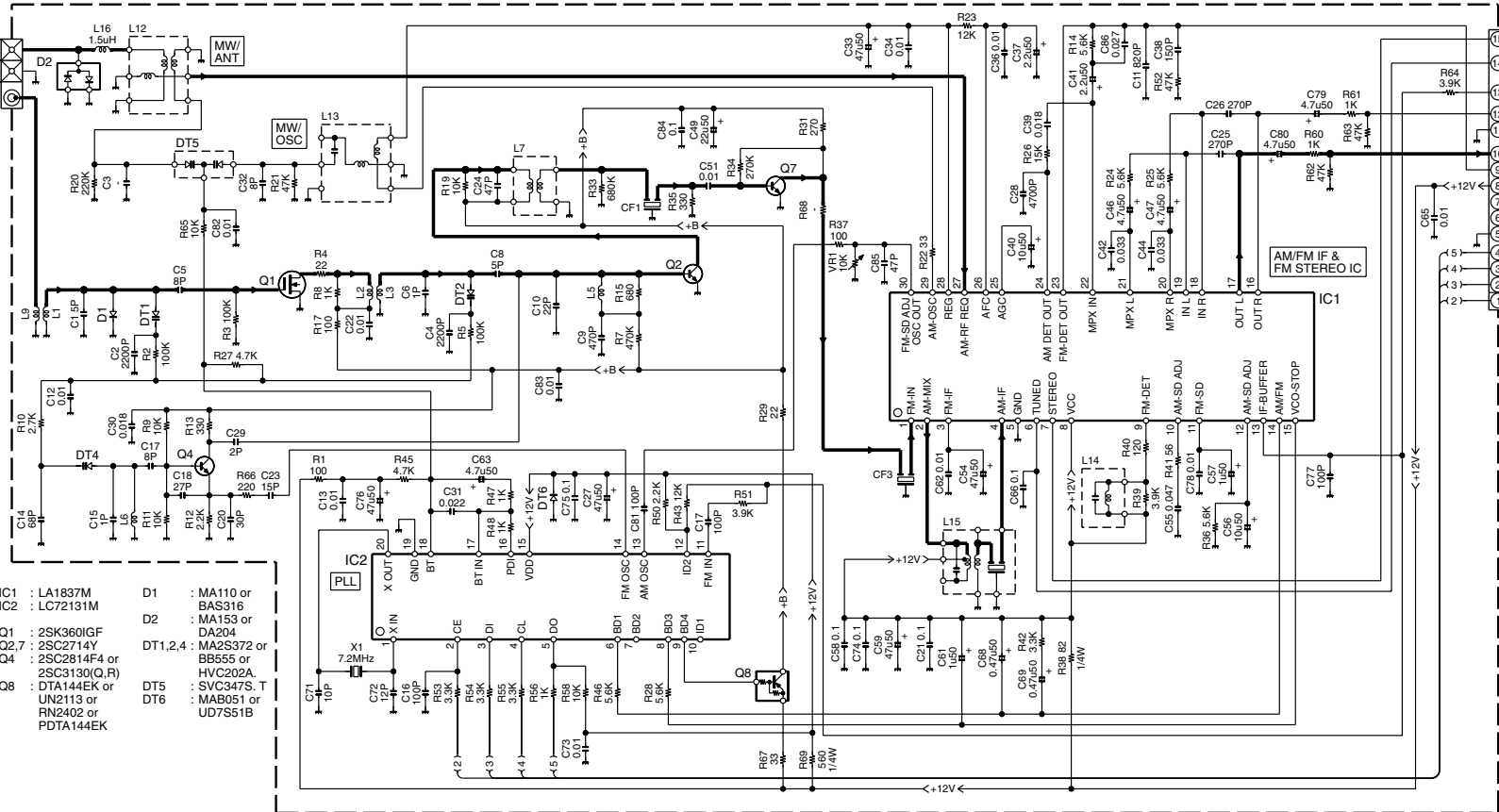
Q313	R13, 14	R65,66,318, 413,414,603,604	R79,80,129, 130,179	R180	R200, 202	R303	R304,358,359, 383,384,403,404	R317	W1-4, 10-15	W5-8, 20-23	WH1, 4	WH221
NO	47K	1.5K	430	5.1K	YES	1	10K	1.2K	NO	YES	YES	NO

(W02-2896-05) : E,T TYPE

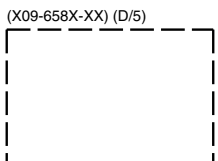


- * : ADJUSTING PARTS
- IC1 : LA1837M
IC2 : LC72131M
- D1 : KSU277
D2-4 : BBS04SF3 or 2,4
D5 : DA204U
D6 : SVC347S or T
D7 : UDZS5.1B
- TR1 : 2SK3601 (GE,F)
TR2 : 2SC2714 (Y,GR) or KTC3860
TR3 : 2SC4098P or 2SC2413 (KP,Q)
TR4 : 2SC4098 or KTC3875
TR5 : 2SC3053D
TR6,13 : 2SC4081 (R,S)
TR7 : DTA114EKA or KRA102S
TR14 : DTC143TUA

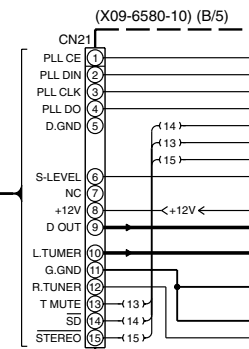
(W02-2893-05) : K,P TYPE



- IC1 : LA1837M
IC2 : LC72131M
- Q1 : 2SK3601GF
Q2,7 : 2SC2714Y
Q4 : 2SC2814F4 or 2SC3130 (Q,R)
Q8 : DTA144EK or UN2113 or RN2402 or PDTA144EK
- D1 : MA110 or BAS316
D2 : MA153 or DA204
DT1,2,4 : MA2S372 or BB55S or HVC202A
DT5 : SVC347S, T
DT6 : MAB051 or UD7S51B

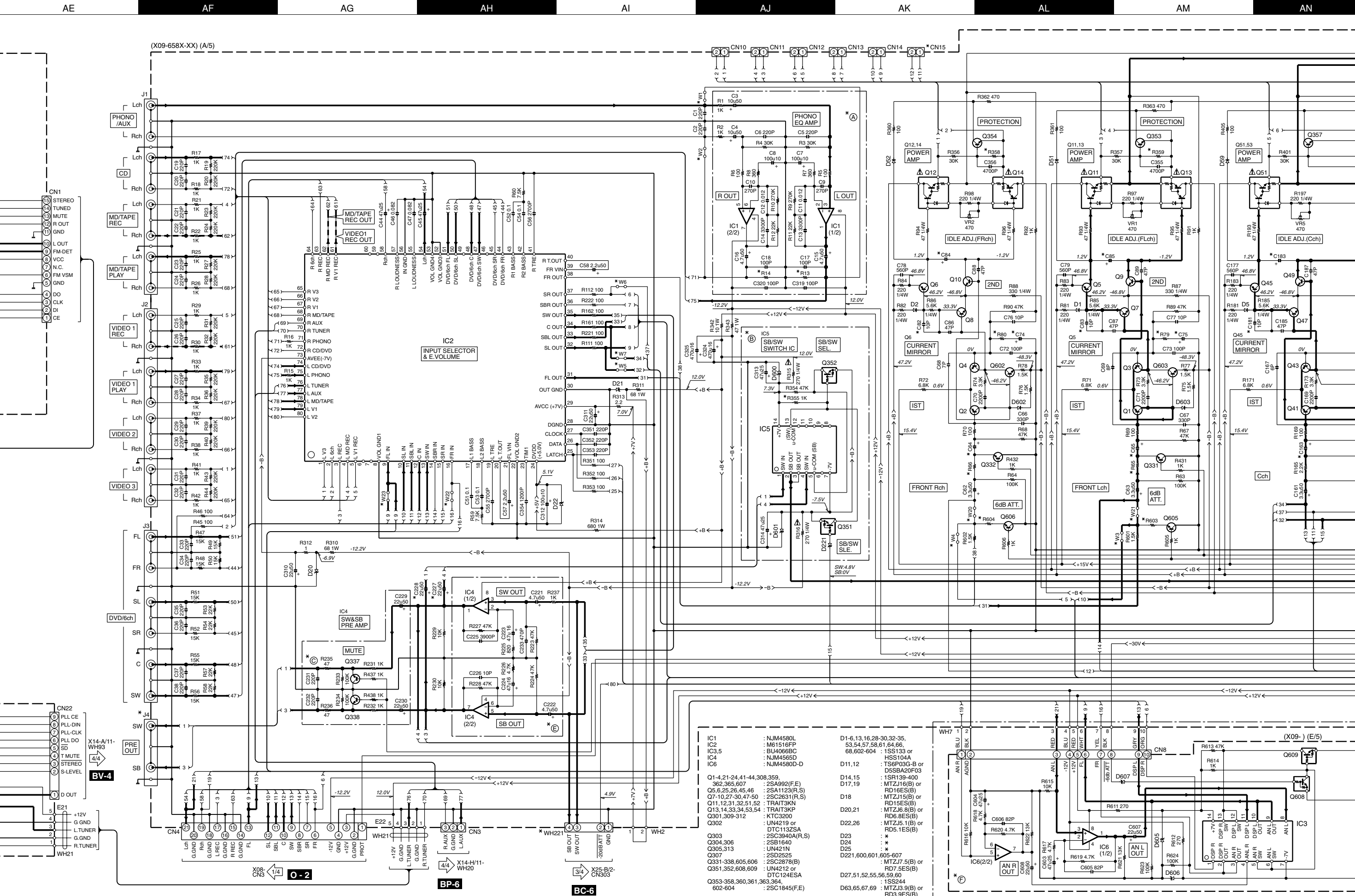


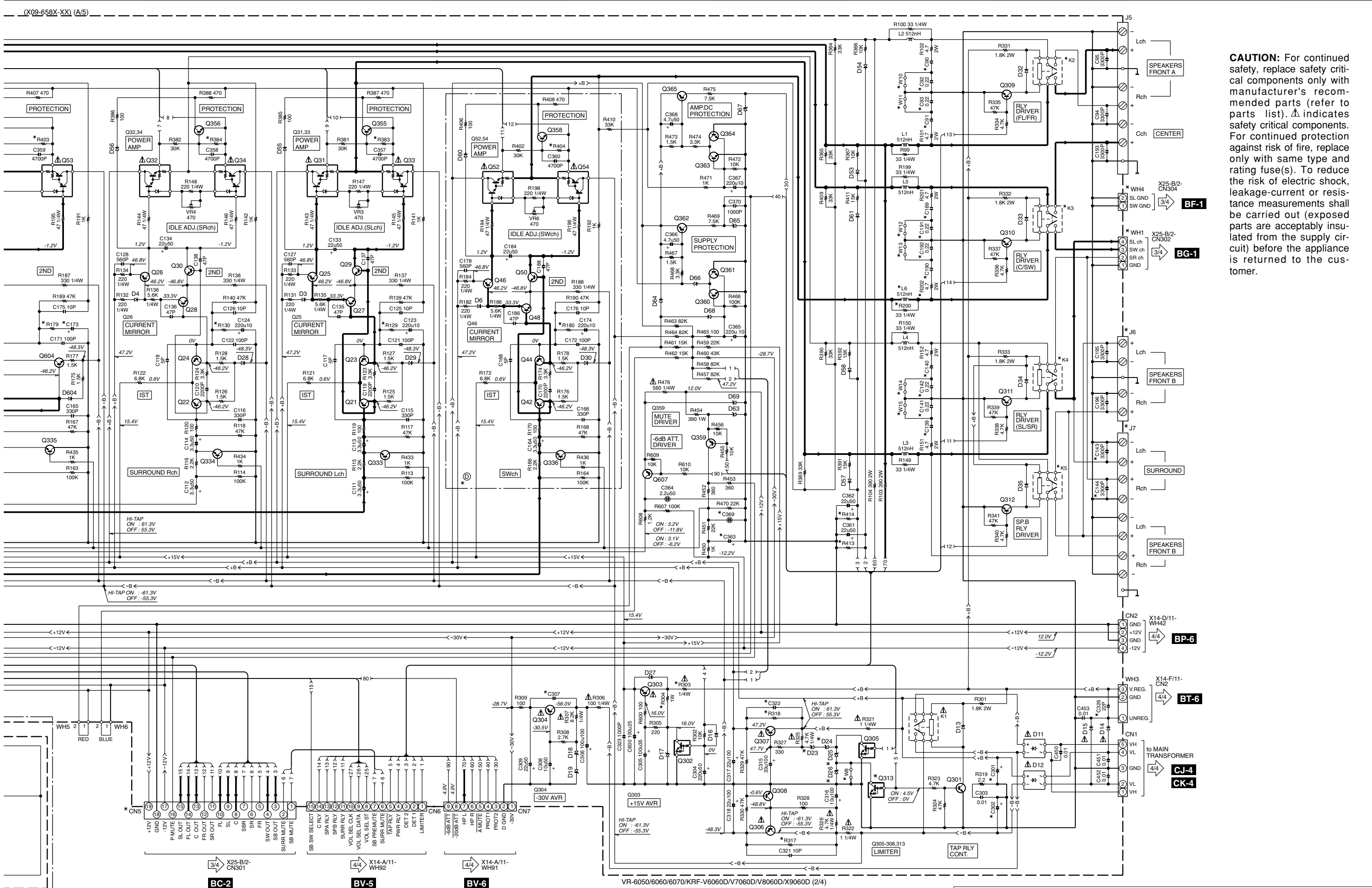
- RECORDING LINE
--- SIGNAL LINE
--- GND LINE
--- +B LINE
--- -B LINE



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 right. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM mode.

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





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

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

VR-6060 (X25-6490-10)

DESTINATION	UNIT	W5
COUNTRY	ABB.	No.
U.S.A.	K	0-10
CANADA	P	NO

VR-6070 (X25-6490-11)

DESTINATION	UNIT	W5
COUNTRY	ABB.	No.
U.S.A.	K	0-11
CANADA	P	YES

SIGNAL LINE
GND LINE
+B LINE
-B LINE

KRF-V8060D (X25-6492-71)

DESTINATION	UNIT	W5
COUNTRY	ABB.	No.
U.S.A.	K	0-10
CANADA	P	NO

KRF-V8060D-G (X25-6492-71)

DESTINATION	UNIT	W5
COUNTRY	ABB.	No.
U.S.A.	K	0-11
CANADA	P	YES

KRF-V8060D-S (X25-6492-71)

DESTINATION	UNIT	W5
COUNTRY	ABB.	No.
U.S.A.	K	0-11
CANADA	P	YES

KRF-X9060D (X25-6492-72)

DESTINATION	UNIT	W5
COUNTRY	ABB.	No.
U.S.A.	K	0-10
CANADA	P	NO

KRF-X9060D-G (X25-6492-72)

DESTINATION	UNIT	W5
COUNTRY	ABB.	No.
U.S.A.	K	0-11
CANADA	P	YES

KRF-X9060D-S (X25-6492-72)

DESTINATION	UNIT	W5
COUNTRY	ABB.	No.
U.S.A.	K	0-11
CANADA	P	YES

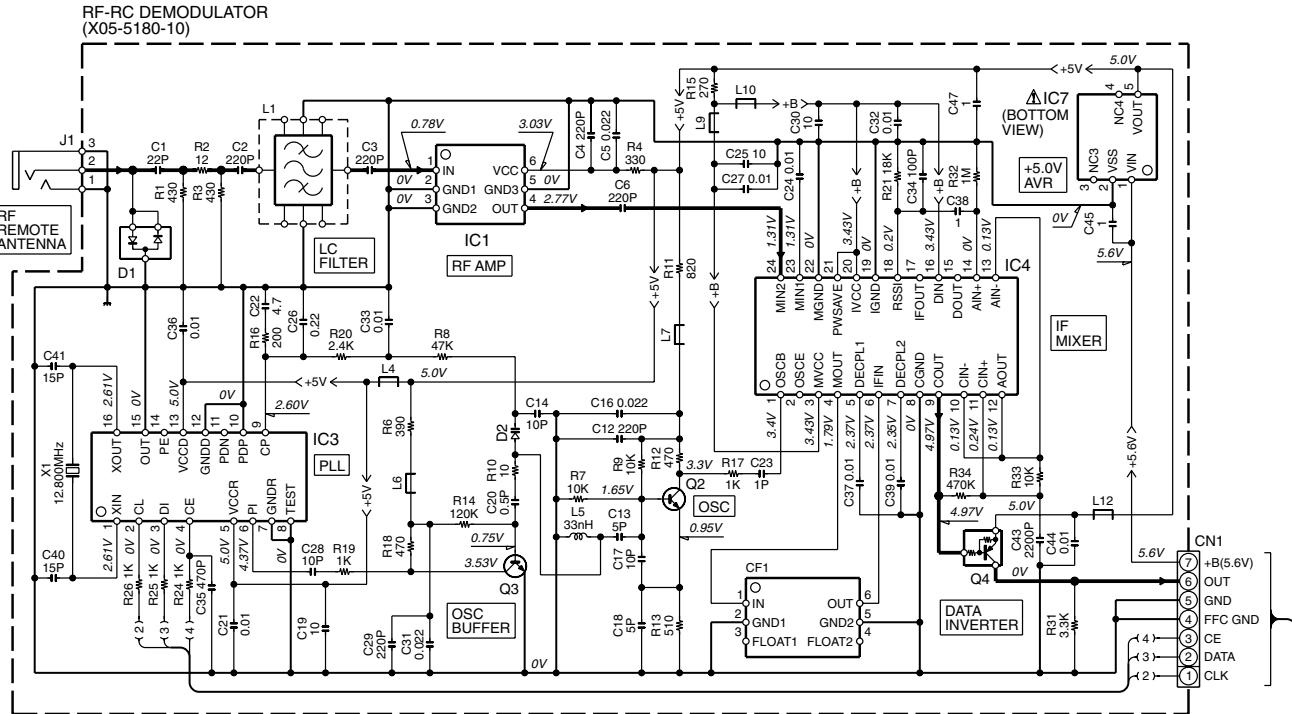
IC101 : NJM2284D
IC102 : BA7666FS
IC201 : BA05T
IC202 : TC74HC00AP
IC401,403 : NJM4580D-D
IC402,404 : NJM4565D-D

Q101,201 : UN4212 or DTC124ESA
Q202,203 : KTC3199(Y,GR) or 2SC2785(F,E) or 2SC1740S(Q,R)

Q204 : KTA1267(Y,GR) or 2SA1175(F,E) or 2SA933AS(Q,R)
Q301-320,403-408,411,412 : 2SC2878(B)
Q401,402,409 : DTA124ESA or UN4112

D201-206 : 1SS133 or HSS104A
D401 : MTZJ3.9(B) or RD3.9ES(B)
D402 : MTZJ5.1(B) or RD5.1ES(B)

X09-A/5-WH4
X09-A/5-WH1



RECEIVING FREQUENCY(MHz)/
VCO OSCILLATING FREQUENCY(MHz)/
TUNING VOLTAGE(V) TABLE

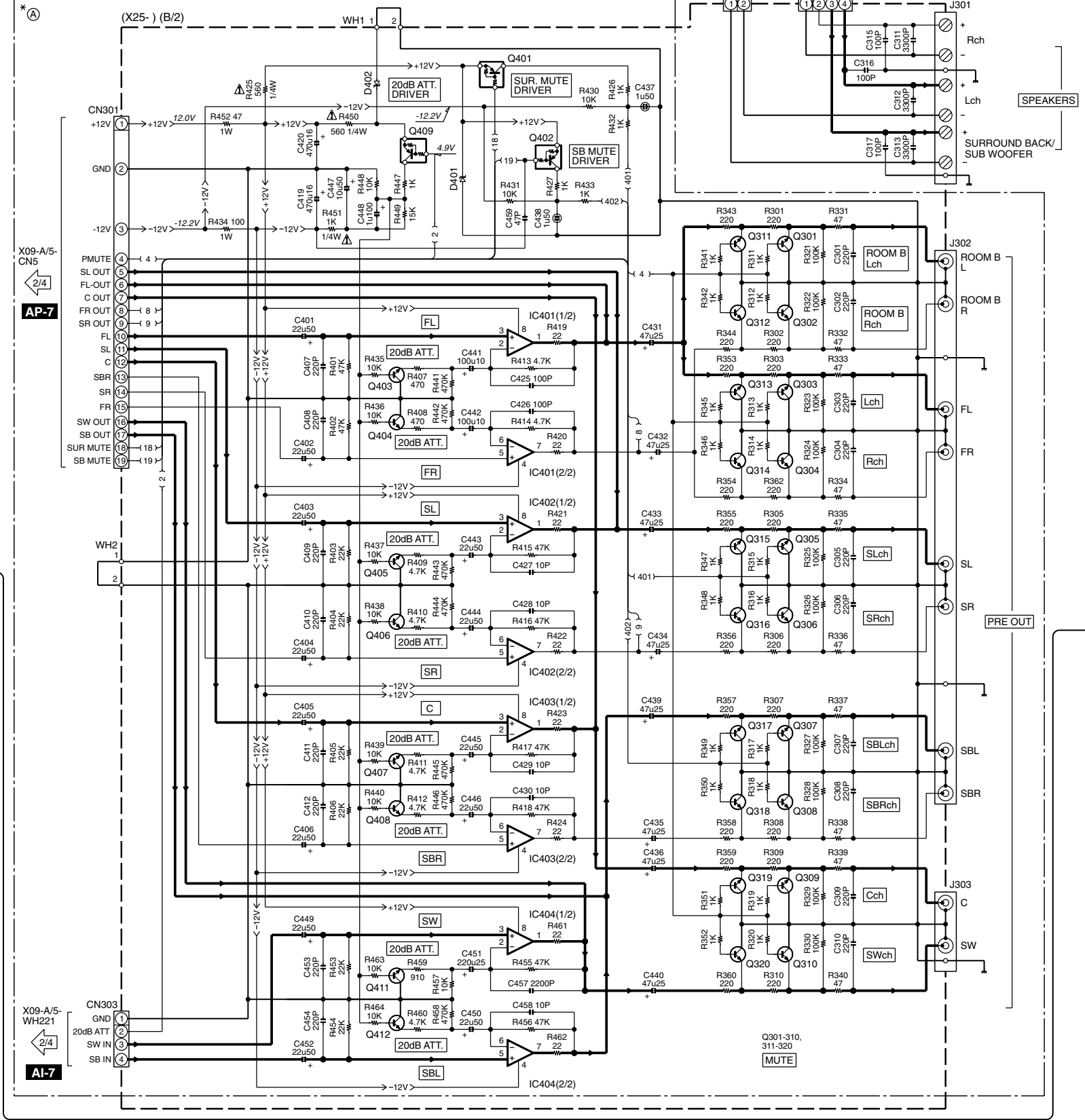
RECEIVING FREQUENCY	VCO OSCILLATING FREQUENCY	TUNING VOLTAGE
309.5	298.8	2.38 ± 0.5
315.0	304.3	2.56 ± 0.5

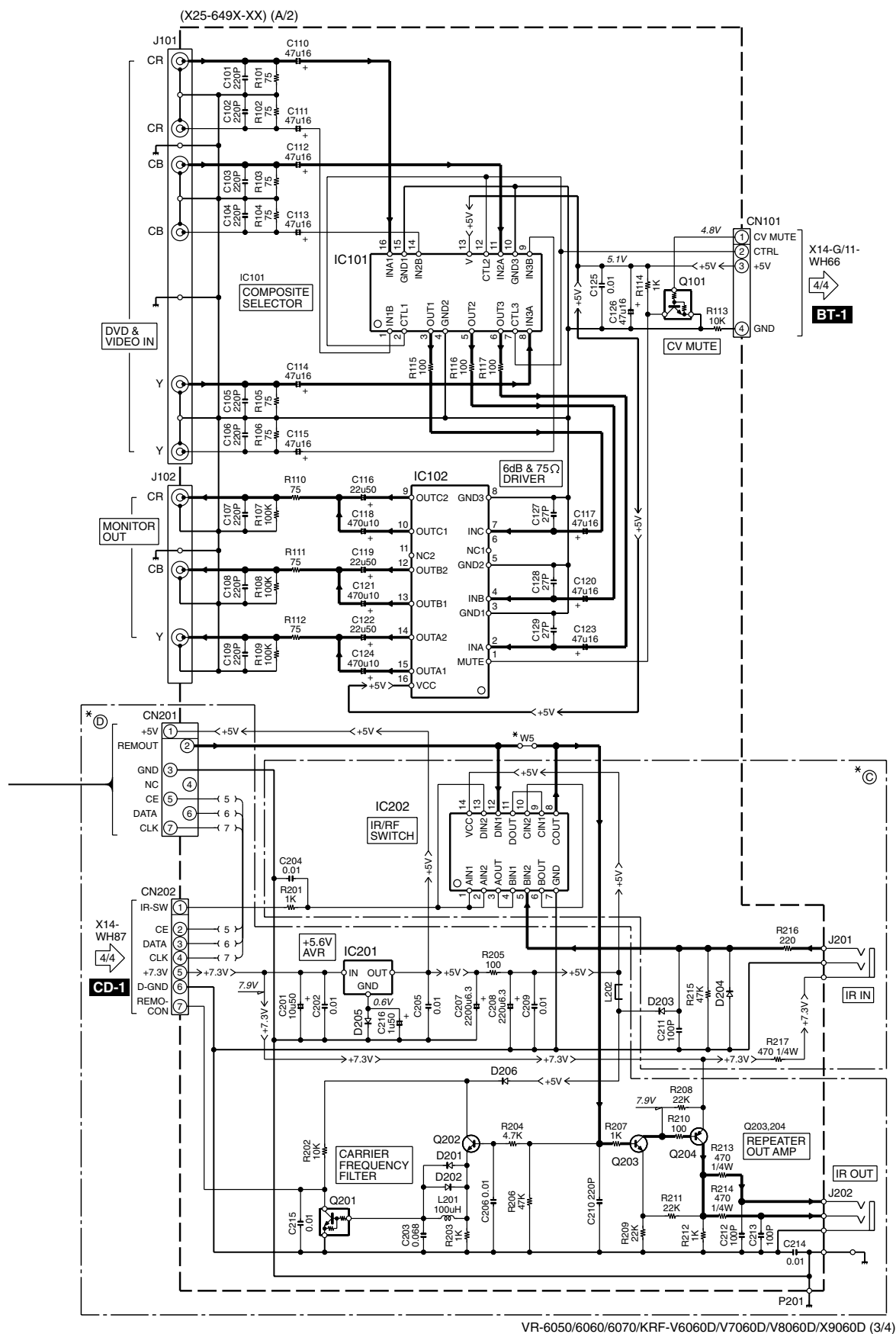
IC1 : UPC2748T-E3
IC3 : LV2105V
IC4 : TK14583V
IC7 : XC6201P502MR
Q2,3 : 2SC5065(O, Y)
Q4 : DTA124EUA
D1 : 1SS302
D2 : KV1832E

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

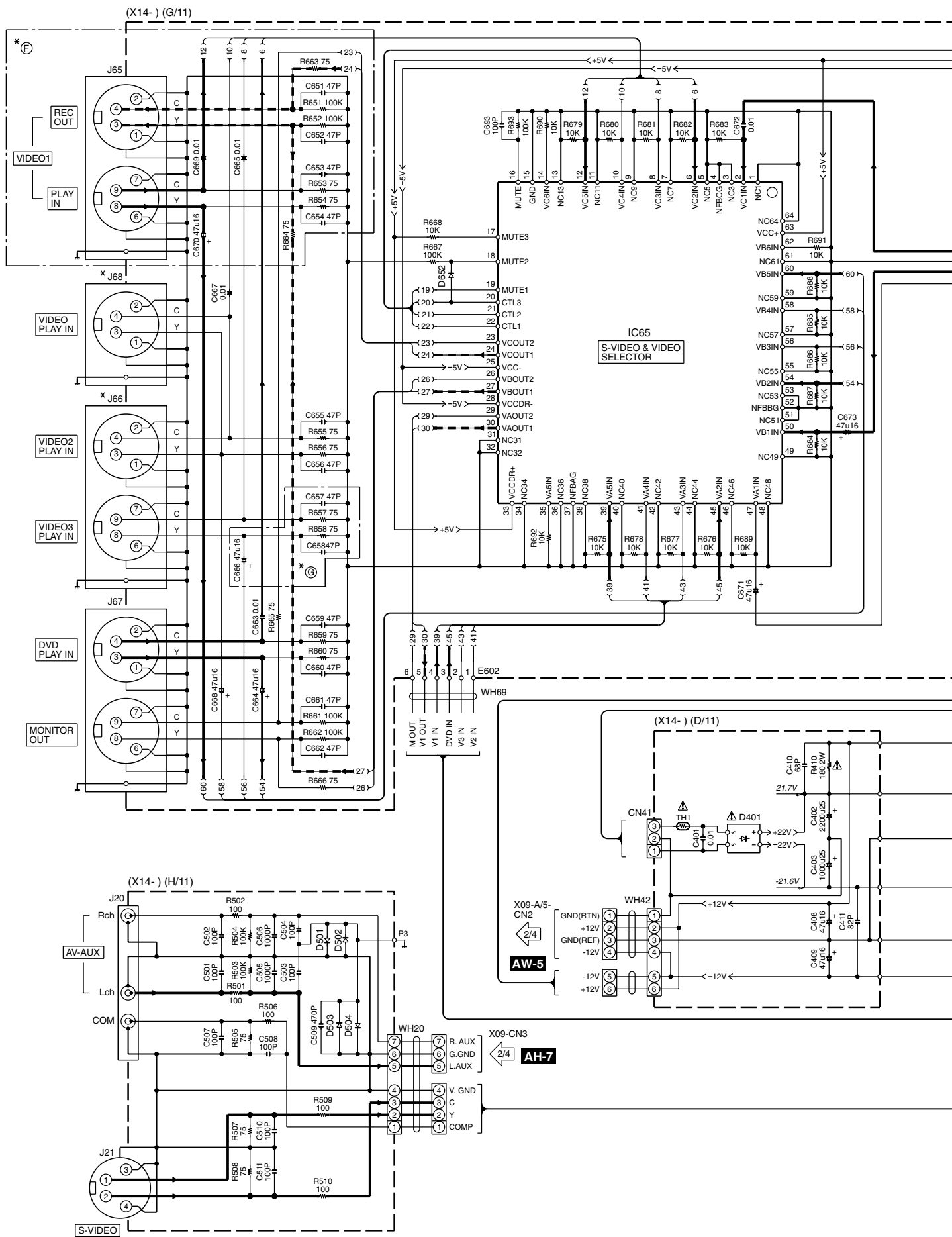
The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading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

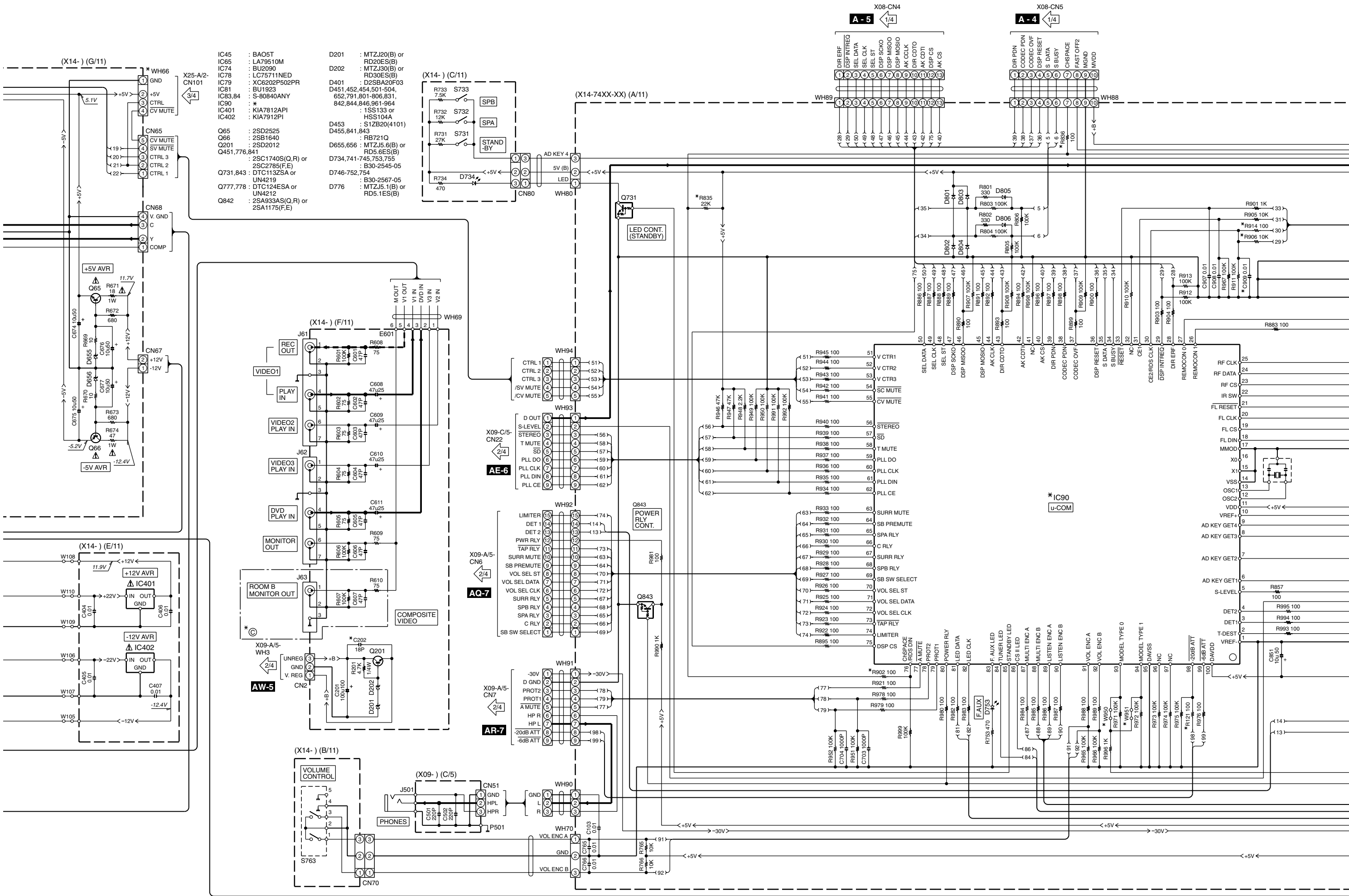
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

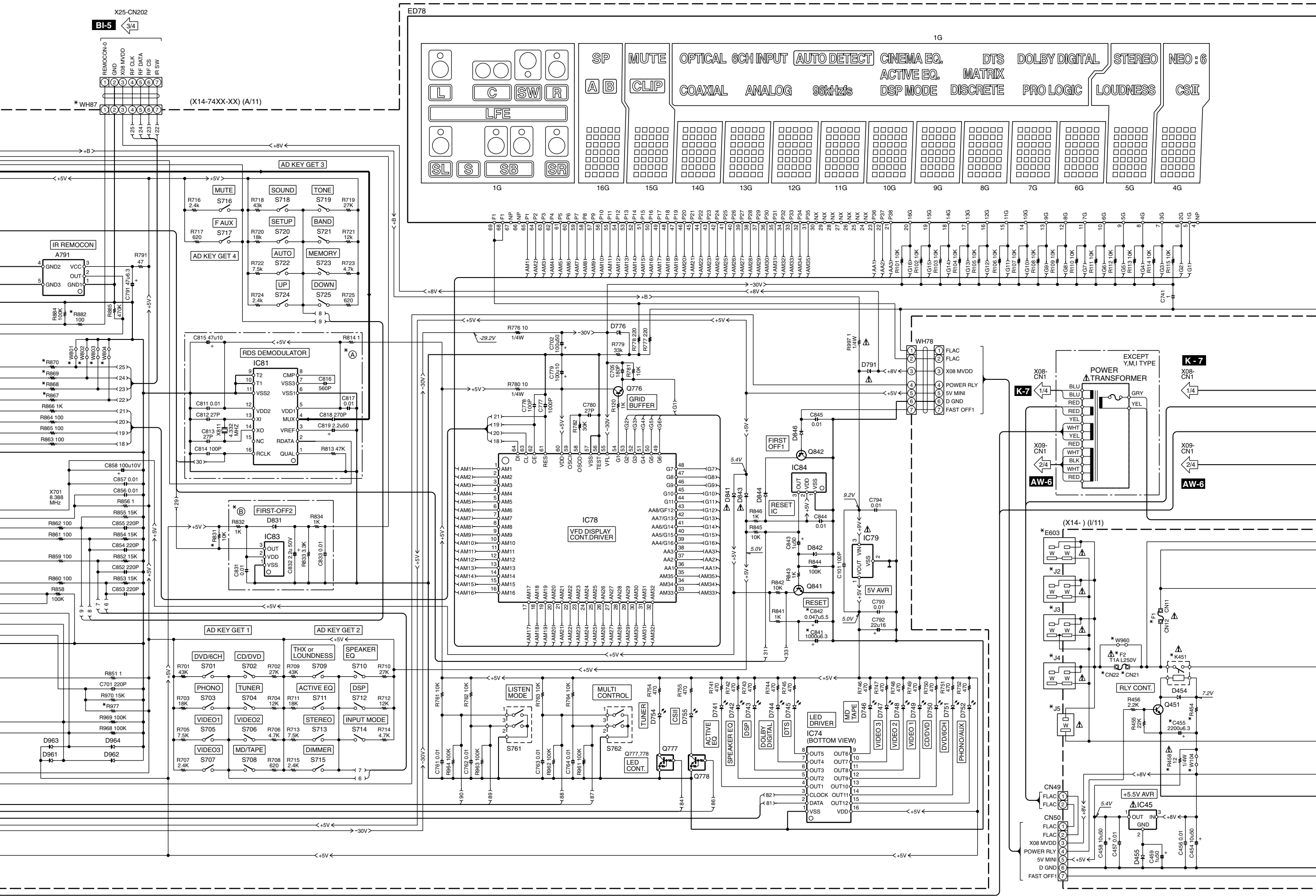


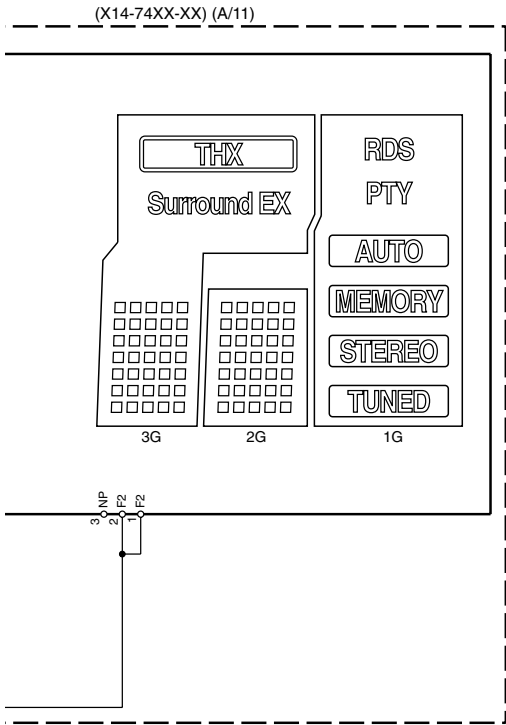


KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070



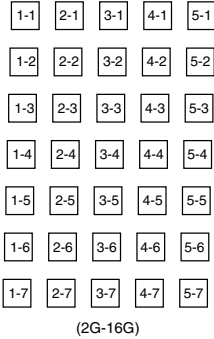






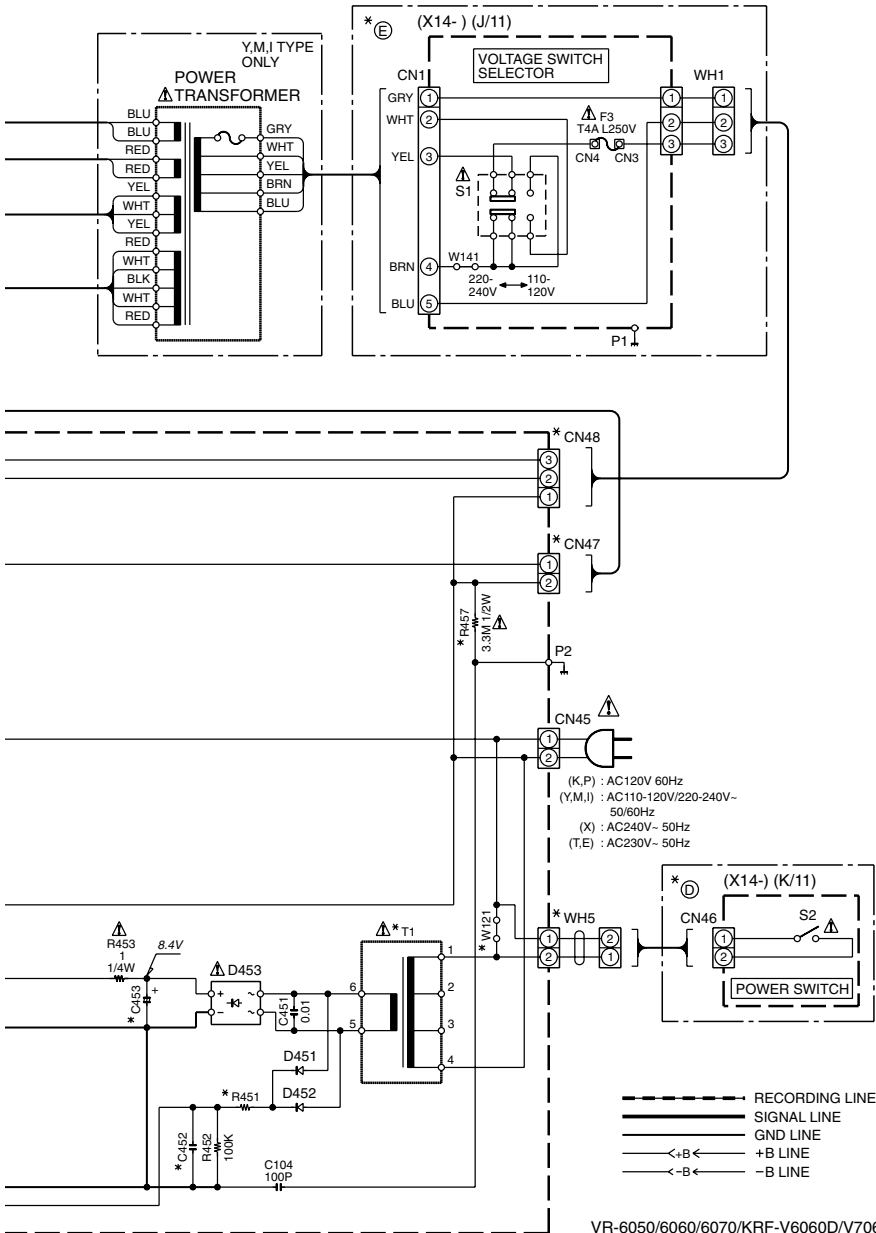
ANODE CONNECTION								
	1G	2G	3G	4G	5G	6-14G	15G	16G
P1		1-1	1-1	1-1	1-1	1-1	1-1	1-1
P2		2-1	2-1	2-1	2-1	2-1	2-1	2-1
P3		3-1	3-1	3-1	3-1	3-1	3-1	3-1
P4		4-1	4-1	4-1	4-1	4-1	4-1	4-1
P5		5-1	5-1	5-1	5-1	5-1	5-1	5-1
P6		1-2	1-2	1-2	1-2	1-2	1-2	1-2
P7		2-2	2-2	2-2	2-2	2-2	2-2	2-2
P8		3-2	3-2	3-2	3-2	3-2	3-2	3-2
P9		4-2	4-2	4-2	4-2	4-2	4-2	4-2
P10		5-2	5-2	5-2	5-2	5-2	5-2	5-2
P11		1-3	1-3	1-3	1-3	1-3	1-3	1-3
P12		2-3	2-3	2-3	2-3	2-3	2-3	2-3
P13		3-3	3-3	3-3	3-3	3-3	3-3	3-3
P14		4-3	4-3	4-3	4-3	4-3	4-3	4-3
P15		5-3	5-3	5-3	5-3	5-3	5-3	5-3
P16		1-4	1-4	1-4	1-4	1-4	1-4	1-4
P17		2-4	2-4	2-4	2-4	2-4	2-4	2-4

P18	OPTICAL	3-4	3-4	3-4	3-4	3-4	3-4
P19	COAXIAL	4-4	4-4	4-4	4-4	4-4	4-4
P20	8CH INPUT	5-4	5-4	5-4	5-4	5-4	5-4
P21	ANALOG	1-5	1-5	1-5	1-5	1-5	1-5
P22	AUTO DETECT	2-5	2-5	2-5	2-5	2-5	2-5
P23	STEREO	3-5	3-5	3-5	3-5	3-5	3-5
P24	CINEMA EQ	4-5	4-5	4-5	4-5	4-5	4-5
P25	ACTIVE EQ	5-5	5-5	5-5	5-5	5-5	5-5
P26	DSP MODE	1-6	1-6	1-6	1-6	1-6	1-6
P27	DTS	2-6	2-6	2-6	2-6	2-6	2-6
P28	MATRIX	3-6	3-6	3-6	3-6	3-6	3-6
P29	DISCRETE	4-6	4-6	4-6	4-6	4-6	4-6
P30	DOLBY DIGITAL	5-6	5-6	5-6	5-6	5-6	5-6
P31	PRO LOGIC	1-7	1-7	1-7	1-7	1-7	1-7
P32		2-7	2-7	2-7	2-7	2-7	2-7
P33	RDS	3-7	3-7	3-7	3-7	3-7	3-7
P34	PTY	4-7	4-7	4-7	4-7	4-7	4-7
P35	AUTO	5-7	5-7	5-7	5-7	5-7	5-7
P36	MEMORY	—	THX	NBD:6	LOUDNESS	—	MUTE SP
P37	STEREO	—	Surround EX	CSI	STEREO	—	CLIP A
P38	TUNED	—	—	—	—	—	B



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 no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



VR-6050 (X14-742X-XX)

DESTINATION	UNIT No.	A	B	C	D	E	F	G	C202,455,842,909	C452	C453	C841	CN21,22,48	CN47	E603	F1	F2	IC90	J2,66	J3-5,66	K451	R121,458,831,835,836,882,902,906,914,977	R451	R454	R457	R867	T1	W121,801,-804,950,960	W951	WH5	WH6,87
COUNTRY	ABB.																														
U.S.A.	K	0-10							NO																						
CANADA	P									0.1	3300u16	YES	NO	YES	NO	125V10A	NO	MN101C49GGH	YES	NO	S76-0107-05		39K	271/4W	YES	100K	L07-2809-05	YES	NO	NO	

KRF-V6060D (X14-742X-XX)

DESTINATION		UNIT No.	(A)	(B)	(C)	(F)	(G)	(D)	C202, 841	C452	C453	C455, 909	C842	CN21, 22	CN47	CN48	E603	F1	F2	IC90	J2	J3	J4,5, 66	J68	K451	R121, 457,882	R451	R454	R458,831, 835,836,906	R867 -870	R902	R914	R977	T1	W121, 951,960	W801-804,950	WH5	WH66, 87		
COUNTRY	ABB.																																							
PX	Y	2-91	NO	YES						0.068	3300u25	YES		YES	NO	YES			250V T4A L	YES	MN101C49 GGH	YES	NO	NO	YES	S76-0110-05	NO	18K	15 1/4W	YES	100K	YES	NO	12K	L07-2805-05	NO	YES	YES	NO	
EUROPE	E	2-71	YES	NO		NO		YES	NO	0.039		NO		YES	NO							NO	YES	NO	YES	S76-0110-05	NO	130K	27 1/4W	NO		YES	27K	L07-2761-05					NO	

KRF-V6060D-S (X14-742X-XX)

DESTINATION		UNIT No.	(A)	(B)	(C)	(F)	(G)	(D)	C202,841	C452	C453	C455,909	C842	CN21,22	CN47	CN48	E603	F1	F2	IC90	J2,66	J3	J4	J5	J68	K451	R121,457,882	R451	R454	R458,836	R831,835,906	R867-870	R902	R914	R977	T1	W121,951,960	W801-804,950	WH5	WH66,87		
COUNTRY	ABB.																																									
GENERAL MARKET	M	0-21	NO	YES						0.068		YES		YES	NO	YES	NO			YES		YES	NO	NO	NO				18K	15 1/4W	YES				12K	L07-2805-05						
MALAYSIA	I													NO						NO		NO	NO	YES					14W				NO	4.7K	L07-2758-05							
KOREA	H	4-11						YES	NO	0.047	3300u25		YES					YES	250V T4A L		MN101C49 GGH	NO	NO	YES	YES	YES	S76-0110-05	NO	150K	27 1/4W		YES	100K	YES	NO	4.7K	L07-2758-05	NO	YES	YES	NO	
AUSTRALIA	X	0-71										NO		YES	YES	NO						YES	NO	NO									YES	27K	L07-2761-05							
U.K.	T	0-51		NO																			YES	NO																		
EUROPE	E	2-71	YES							0.039										YES		YES	NO	NO					130K		NO			YES								

KRF-V7060D/-S (X14-7422-71)

DESTINATION		UNIT NO.	A	D	B	C	E	F	G	C202,455,841,909	C452	C453	C842	CN21,22,47	CN48	E603	F1	F2	IC90	J2,4,5,66	J3,68	K451	R121,457,458,831,835,836,882,906	R451	R454	R867	R902	R914	R977	T1	W121,951,960	W801-804,950	WH5	WH66,87
COUNTRY	ABB.																																	
EUROPE	E	2-71	YES				NO			NO	0.039	3300u25	YES	YES	NO	NO	250V T4A L	YES	MN101C49GGH	NO	YES	S76-0110-05	NO	130K	271/4W	100K	YES	27K	L07-2761-05	NO	YES	YES	NO	

VR-6070 (X14-7430-11)

DESTINATION	UNIT No.	A	B	D	E	C	F	G	C202,455,842,909	C452	C453	C841	CN21,22,48	CN47	E603	F1	F2	IC90	J2,66	J3-5,66	K451	R121,457,882	R451	R454	R458,831,835,836,882,906,914,977	R867	T1	W121,960	W801-804,950,951	WH5	WH66,87		
COUNTRY	ABB.																																
U.S.A.	K	0-11							NO	0.1	3300u16	YES	NO	YES	NO	125V10A	NO	MN101C49GGK	YES	NO	S76-0107-05	YES	39K	271/4W	NO	100	L07-2809-05	YES	NO	NO	YES		
CANADA	P																																

KRF-X9060D (X14-7432-XX)

DESTINATION		UNIT NO.	(A)	(B)	(E)	(C)	(D)	(F)	(G)	C202, 841	C452	C453	C455, 909	C842	CN21, 22	CN47	CN48	E603	F1	F2	IC90	J2	J3	J4, 5, 68	J66	K451	R121, 902	R451	R454	R457, 882	R458, 831, 835, 836, 906	R867	R870	R914	R977	T1	W121, 950, 951, 960	W801 -804,	WH5, 66	WH87	
COUNTRY	ABB.																																								
PX	Y	2-92	NO	YES						NO	0.068	3300u 25	YES		YES	YES	NO	YES		NO	250V T4A L	YES	MN101C49 GKG	YES	NO	NO	YES	S76-0110-05	YES	18K	15 1/4W	NO	YES	100K	NO	12K	L07-2805-05	NO	YES	YES	NO
EUROPE	E	2-72	YES	NO						YES	0.039		NO				YES	NO		NO				NO	YES	S76-0110-05	YES	130K	27 1/4W	NO		NO		YES	27K	L07-2761-05					

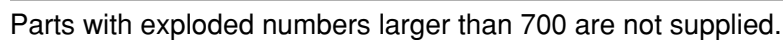
KRF-X9060D-G (X14-74XX-XX)

DESTINATION		UNIT NO.	(A)	(B)	(E)	(C)	(D)	(F)	(G)	C202, 841	C452	C453	C455, 909	C842	CN21, 22	CN47	CN48	E603	F1	F2	IC90	J2, 4, 5, 68	J3	J66	K451	R121, 831, 835, 902, 906	R451	R454	R457, 882, 914	R458, 836	R867 -870	R977	T1	W121, 950, 951, 960	W801 -804,	WH5, 66	WH87
COUNTRY	ABB.																																				
GENERAL MARKET	M	30-22	NO	YES						NO	0.068	3300u 25	YES		YES	NO	YES	NO	250V T4A L	YES		MN101C49 G GK	NO	YES		S76-0110-05	YES	18K 15 1/4W	NO	YES	100K	12K L07-2805-05		NO	YES	YES	NO
KOREA	H	24-12		NO						NO	0.047		NO		YES	YES	NO	YES	250V T4A L	NO			NO	YES		S76-0110-05	YES	150K 27 1/4W	NO	NO	100K	4.7K L07-2758-05		NO	YES	YES	NO

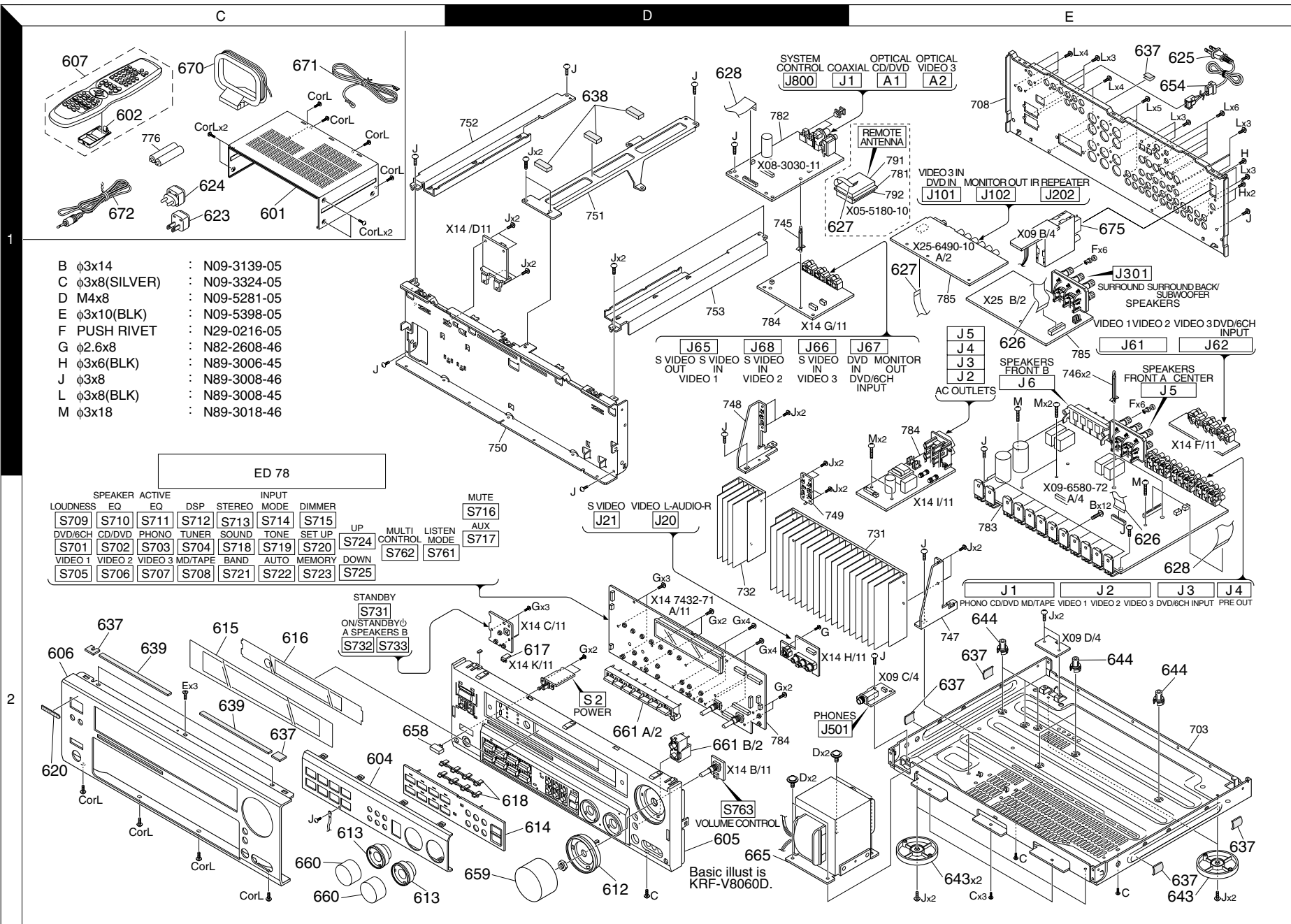
KRF-X9060D-S (X14-743X-XX)

DESTINATION		UNIT NO.	(A)	(B)	(E)	(C)	(D)	(F)	(G)	C202,455,841,909	C452	C453	C842	CN21,22,47	CN48	E603	F1	F2	IC90	J2,68	J3	J4	J5	J66	K451	R121,902	R451	R454	R457,458,836,882	R831,835,906	R867-870	R914	R977	T1	W121,950,951,960	W801-804,	WH5,66	WH87		
COUNTRY	ABB.																																							
AUSTRALIA	X	0-72	NO							NO	0.047	3300u25	YES	YES	NO	NO	250V T4A L	YES	MN101C49 G GK	NO	NO	NO	YES	YES	S76-0110-05	YES	150K	27 1/4W	NO	YES	100K	NO	4.7K	L07-2758-05	NO	YES	YES	NO		
U.K.	T	0-52		NO			YES			NO	0.039										YES	NO	YES	NO	YES	S76-0110-05	YES	130K		NO	NO	100K	YES	27K	L07-2761-05	NO	YES	YES	NO	
EUROPE	E	2-72	YES																			YES	NO	NO	YES	S76-0110-05	YES			NO	100K	YES	27K	L07-2761-05	NO	YES	YES	NO		

EXPLODED VIEW



EXPLODED VIEW



* New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

1

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
VR-6050, KRF-V6060D/KRF-V6060D-S						
601	1C	*	A01-3840-01	METALLIC CABINET	KPYE	
601	1C	*	A01-3841-01	METALLIC CABINET	MIH	
601	1C	*	A01-3841-01	METALLIC CABINET	XTES	
602	1C	*	A09-1258-08	BATTERY COVER		
606	3B	*	A60-2169-01	PANEL	KP	
606	3B	*	A60-2170-01	PANEL	YE	
606	3B	*	A60-2171-01	PANEL	MIH	
606	3B	*	A60-2171-01	PANEL	XTES	
607	1C	*	A70-1554-05	REMOTE CONTROLLER ASSY	TEES	
607	1C	*	A70-1555-05	REMOTE CONTROLLER ASSY	KPY	
607	1C	*	A70-1555-05	REMOTE CONTROLLER ASSY	MIHX	
611	3A	*	B07-2596-12	ESCUTCHEON	E	
611	3A	*	B07-2597-12	ESCUTCHEON	TES	
611	3A	*	B07-2598-12	ESCUTCHEON	KPY	
611	3A	*	B07-2599-12	ESCUTCHEON	MIHX	
612	3B	*	B07-2606-03	ESCUTCHEON	KPYE	
612	3B	*	B07-2607-03	ESCUTCHEON	MIH	
612	3B	*	B07-2607-03	ESCUTCHEON	XTES	
613	3A	*	B07-2608-03	ESCUTCHEON	KPYE	
613	3A	*	B07-2609-03	ESCUTCHEON	MIH	
613	3A	*	B07-2609-03	ESCUTCHEON	XTES	
615	2A	*	B10-3792-02	FRONT GLASS	KP	
615	2A	*	B10-3793-02	FRONT GLASS	YMIHX	
615	2A	*	B10-3794-02	FRONT GLASS	TEES	
616	2A	*	B11-1544-03	COLOR FILTER		
617	2A	*	B12-0441-04	INDICATOR		
618	3A	*	B12-0442-04	INDICATOR		
620	2A	*	B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	TEES	
-			B46-0328-03	WARRANTY CARD	Y	
-			B46-0330-03	WARRANTY CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-		*	B46-0365-04	QUESTIONAIRE CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0945-03	CAUTION CARD	T	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	XT	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	ES	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MIE	
-			B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B60-5192-10	INST MANUAL (EN)	KPYMIX	
-		*	B60-5192-10	INST MANUAL (EN)	T	
-		*	B60-5193-00	INST MANUAL (FR)	P	
-		*	B60-5194-00	INST MANUAL (ES/FR/GE/NE/IT)	EES	
-		*	B60-5195-00	INST MANUAL (ES/TC)	MI	
△ 623	1C		E03-0382-05	AC PLUG ADAPTER(WA-6)	M	
△ 624	1C		E03-0383-05	AC PLUG ADAPTER(WA-9C)	M	
△ 625	1E		E30-2605-05	AC POWER CORD	Y	
△ 625	1E		E30-2717-05	AC POWER CORD	X	
△ 625	1E		E30-2721-05	AC POWER CORD	MIT	

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai) ES : KRF-V6060D-S(Etype)
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas △ indicates safety critical components .

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Teile ohne **Parts No.** werden nicht geliefert.

2

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ 625	1E		E30-2941-05	AC POWER CORD	KP	
△ 625	1E		E30-2942-05	AC POWER CORD	EES	
△ 625	1E		E30-2950-05	AC POWER CORD	H	
628	1D,2E	*	E35-3216-05	FLAT CABLE		
637	2C,2E	*	G11-2885-04	CUSHION		
638	1D	*	G11-2886-04	CUSHION		
-		*	H10-7800-02	POLYSTYRENE FOAMED FIXTURE R		
-		*	H10-7801-02	POLYSTYRENE FOAMED FIXTURE L		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0391-04	PROTECTION BAG		
-		*	H50-4369-04	ITEM CARTON CASE	KP	
-		*	H50-4370-04	ITEM CARTON CASE	Y	
-		*	H50-4371-04	ITEM CARTON CASE	MIH	
-		*	H50-4372-04	ITEM CARTON CASE	X	
-		*	H50-4373-04	ITEM CARTON CASE	T	
-		*	H50-4374-04	ITEM CARTON CASE	E	
-		*	H50-4375-04	ITEM CARTON CASE	ES	
643	2E	*	J02-1532-03	FOOT		
644	2E	*	J19-3751-04	UNIT HOLDER		
△ 654	1E		J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
658	2C		K27-2384-04	KNOB (BUTTON) POWER	YE	
658	2C		K27-2481-04	KNOB (BUTTON) POWER	MIH	
658	2C		K27-2481-04	KNOB (BUTTON) POWER	XTES	
659	3A		K29-8103-04	KNOB VOLUME	KPYE	
659	3A		K29-8104-04	KNOB VOLUME	MIH	
659	3A		K29-8104-04	KNOB VOLUME	XTES	
660	3A		K29-8105-04	KNOB MULTI/LISTEN	KPYE	
660	3A		K29-8106-04	KNOB MULTI/LISTEN	MIH	
660	3A		K29-8106-04	KNOB MULTI/LISTEN	XTES	
661	2B	*	K29-8136-03	KNOB ASSY	KPYE	
661	2B	*	K29-8137-03	KNOB ASSY	MIH	
661	2B	*	K29-8137-03	KNOB ASSY	XTES	
662	2A	*	K29-8107-02	KNOB ON/STANDBY	KPYE	
662	2A	*	K29-8108-02	KNOB ON/STANDBY	MIH	
662	2A	*	K29-8108-02	KNOB ON/STANDBY	XTES	
663	3A	*	K29-8111-02	KNOB VIDEO1-SETUP-2	KPYE	
663	3A	*	K29-8112-02	KNOB VIDEO1-SETUP-2	MIH	
663	3A	*	K29-8112-02	KNOB VIDEO1-SETUP-2	XTES	
△ 665	2D	*	L07-3138-05	POWER TRANSFORMER	KP	
△ 665	2D	*	L07-3139-05	POWER TRANSFORMER	YMI	
△ 665	2D	*	L07-3140-05	POWER TRANSFORMER	HX	
△ 665	2D	*	L07-3141-05	POWER TRANSFORMER	TEES	
670	1C		T90-0852-05	LOOP ANTENNA		
671	1C		T90-0877-05	LEAD WIRE ANTENNA		
675	1E	*	W02-2893-05	TUNER ASSY	KP	
675	1E	*	W02-2894-05	TUNER ASSY	KP	
675	1E	*	W02-2895-05	TUNER ASSY	YMIHX	
675	1E	*	W02-2896-05	TUNER ASSY	TEES	
675	1E	*	W02-2897-05	TUNER ASSY	TEES	
675	1E	*	W02-2906-05	TUNER ASSY	KP	

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PARTS LIST

KRF-V6060D/V7060D/V8060D/V8060D/V9060D/V9060D/VR-6050/6060/6070

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

③

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
KRF-V7060D/V7060D-S						
601	1C	*	A01-3842-01	METALLIC CABINET	E	
601	1C	*	A01-3843-01	METALLIC CABINET	ES	
602	1C	*	A09-1258-08	BATTERY COVER		
604	2C	*	A21-3982-12	DRESSING PANEL	E	
604	2C	*	A21-3983-12	DRESSING PANEL	ES	
605	2D	*	A22-1873-01	SUB PANEL ASSY	E	
605	2D	*	A22-1874-01	SUB PANEL ASSY	ES	
606	2C	*	A60-2181-02	PANEL	E	
606	2C	*	A60-2182-12	PANEL	ES	
607	1C	*	A70-1554-05	REMOTE CONTROLLER ASSY		
612	2D	*	B07-2606-03	ESCUTCHEON	E	
612	2D	*	B07-2607-03	ESCUTCHEON	ES	
613	2C	*	B07-2608-03	ESCUTCHEON	E	
613	2C	*	B07-2609-03	ESCUTCHEON	ES	
614	2D	*	B07-2619-13	ESCUTCHEON	E	
614	2D	*	B07-2620-13	ESCUTCHEON	ES	
615	2C	*	B10-3791-02	FRONT GLASS		
616	2C	*	B11-1544-03	COLOR FILTER		
617	2D	*	B12-0440-04	INDICATOR		
618	2D	*	B12-0442-04	INDICATOR		
620	2C	*	B43-0314-04	KENWOOD BADGE		
-		*	B46-0310-03	WARRANTY CARD		
-		*	B58-0966-13	CAUTION CARD (ELMtypePL)		
-		*	B60-5194-00	INST MANUAL (ES/FR/GE/NE/IT)		
△ 625	1E	*	E30-2942-05	AC POWER CORD		
628	1D,1E	*	E35-3216-05	FLAT CABLE		
637	2C,2E	*	G11-2885-04	CUSHION		
638	1D	*	G11-2886-04	CUSHION		
639	2C	*	G11-2887-04	CUSHION		
-		*	H10-7800-02	POLYSTYRENE FOAMED FIXTURE R		
-		*	H10-7801-02	POLYSTYRENE FOAMED FIXTURE L		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0391-04	PROTECTION BAG		
-		*	H50-4367-04	ITEM CARTON CASE	E	
-		*	H50-4368-04	ITEM CARTON CASE	ES	
643	2E	*	J02-1532-03	FOOT		
644	2E	*	J19-3751-04	UNIT HOLDER		
△ 654	1E	*	J42-0349-05	POWER CORD BUSHING		
-		*	J61-0307-05	WIRE BAND		
658	2C	*	K27-2384-04	KNOB (BUTTON) POWER	E	
658	2C	*	K27-2481-04	KNOB (BUTTON) POWER	ES	
659	2D	*	K29-8099-04	KNOB VOLUME	E	
659	2D	*	K29-8100-04	KNOB VOLUME	ES	
660	2C	*	K29-8101-04	KNOB MULTI/LISTEN	E	
660	2C	*	K29-8102-04	KNOB MULTI/LISTEN	ES	
661	2D	*	K29-8136-03	KNOB ASSY	E	
661	2D	*	K29-8137-03	KNOB ASSY	ES	
△ 665	2D	*	L07-3141-05	POWER TRANSFORMER		
670	1C	*	T90-0852-05	LOOP ANTENNA		
671	1C	*	T90-0877-05	LEAD WIRE ANTENNA		

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△ indicates safety critical components .

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④

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
675	1E	*	W02-2896-05	TUNER ASSY		
675	1E	*	W02-2897-05	TUNER ASSY		
VR-6060, KRF-V8060D/V8060D-S/V8060D-G						
601	1C	*	A01-3840-01	METALLIC CABINET	KP	
601	1C	*	A01-3842-01	METALLIC CABINET	E	
601	1C	*	A01-3843-01	METALLIC CABINET	XES	
601	1C	*	A01-3851-01	METALLIC CABINET	M	
602	1C	*	A09-1258-08	BATTERY COVER		
604	2C	*	A21-3982-12	DRESSING PANEL	E	
604	2C	*	A21-3983-12	DRESSING PANEL	XES	
604	2C	*	A21-3984-12	DRESSING PANEL	M	
605	2D	*	A22-1873-01	SUB PANEL ASSY	E	
605	2D	*	A22-1874-01	SUB PANEL ASSY	XES	
605	2D	*	A22-1875-01	SUB PANEL ASSY	M	
606	3B	*	A60-2168-01	PANEL	KP	
606	2C	*	A60-2181-02	PANEL	E	
606	2C	*	A60-2182-12	PANEL	XES	
606	2C	*	A60-2196-12	PANEL	M	
607	1C	*	A70-1552-05	REMOTE CONTROLLER ASSY	KP	
607	1C	*	A70-1553-05	REMOTE CONTROLLER ASSY	MX	
607	1C	*	A70-1554-05	REMOTE CONTROLLER ASSY	EES	
611	3A	*	B07-2596-12	ESCUTCHEON	KP	
612	3B,2D	*	B07-2606-03	ESCUTCHEON	KPE	
612	2D	*	B07-2607-03	ESCUTCHEON	XES	
612	2D	*	B07-2614-03	ESCUTCHEON	M	
613	3A,2C	*	B07-2608-03	ESCUTCHEON	KPE	
613	2C	*	B07-2609-03	ESCUTCHEON	XES	
613	2C	*	B07-2615-03	ESCUTCHEON	M	
614	2D	*	B07-2619-13	ESCUTCHEON	E	
614	2D	*	B07-2620-13	ESCUTCHEON	XES	
614	2D	*	B07-2621-13	ESCUTCHEON	M	
615	2A	*	B10-3786-02	FRONT GLASS	KP	
615	2C	*	B10-3787-02	FRONT GLASS	MX	
615	2C	*	B10-3788-02	FRONT GLASS	EES	
616	2A,2C	*	B11-1544-03	COLOR FILTER		
617	2D	*	B12-0440-04	INDICATOR	ES	
617	2D	*	B12-0440-04	INDICATOR	MXE	
617	2A	*	B12-0441-04	INDICATOR	KP	
618	3A,2D	*	B12-0442-04	INDICATOR		
620	2A,2C	*	B43-0314-04	KENWOOD BADGE		
-		*	B46-0096-53	WARRANTY CARD	X	
-		*	B46-0310-03	WARRANTY CARD	EES	
-		*	B46-0330-03	WARRANTY CARD	K	
-		*	B46-0347-03	WARRANTY CARD	P	
-		*	B46-0365-04	QUESTIONNAIRE CARD	K	
-		*	B58-0964-13	CAUTION CARD (UL)	K	
-		*	B58-0965-13	CAUTION CARD (T.XtypePL)	X	
-		*	B58-0966-13	CAUTION CARD (ELMtypePL)	MEES	
-		*	B58-0967-03	CAUTION CARD (PtypePL)	P	
-		*	B60-5188-20	INST MANUAL (EN)	KPMX	
-		*	B60-5189-10	INST MANUAL (FR)	P	
-		*	B60-5190-00	INST MANUAL (ES/FR/GE/NE/IT)	EES	
-		*	B60-5191-00	INST MANUAL (ES/TC)	M	

L : Scandinavia
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H : Korea

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M : Other Areas

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ES : KRF-V8060D-S(Etype)
△ indicates safety critical components .

PARTS LIST

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

* New Parts

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5

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ 623	1C		E03-0382-05	AC PLUG ADAPTER(WA-6)	M	
△ 624	1C		E03-0383-05	AC PLUG ADAPTER(WA-9C)	M	
△ 625	1E		E30-2717-05	AC POWER CORD	X	
△ 625	1E		E30-2721-05	AC POWER CORD	M	
△ 625	1E		E30-2941-05	AC POWER CORD	KP	
△ 625	1E		E30-2942-05	AC POWER CORD	EES	
△ 627	1D,1E		E35-2873-15	FLAT CABLE	KP	
628	1D,2E	*	E35-3216-05	FLAT CABLE		
637	2B,2C	*	G11-2885-04	CUSHION		
638	1D	*	G11-2886-04	CUSHION		
639	2C	*	G11-2887-04	CUSHION	ES	
639	2C	*	G11-2887-04	CUSHION	MXE	
-		*	H10-7800-02	POLYSTYRENE FOAMED FIXTURE R		
-		*	H10-7801-02	POLYSTYRENE FOAMED FIXTURE L		
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0391-04	PROTECTION BAG		
-		*	H50-4360-04	ITEM CARTON CASE	KP	
-		*	H50-4361-04	ITEM CARTON CASE	M	
-		*	H50-4362-04	ITEM CARTON CASE	X	
-		*	H50-4363-04	ITEM CARTON CASE	E	
-		*	H50-4364-04	ITEM CARTON CASE	ES	
643	2E	*	J02-1532-03	FOOT		
644	2E		J19-3751-04	UNIT HOLDER		
△ 654	1E		J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
658	2C		K27-2384-04	KNOB (BUTTON) POWER	E	
658	2C		K27-2481-04	KNOB (BUTTON) POWER	XES	
658	2C	*	K27-2482-04	KNOB (BUTTON) POWER	M	
659	3A,2D	*	K29-8099-04	KNOB VOLUME	E	
659	3A,2D	*	K29-8100-04	KNOB VOLUME	XES	
659	3A,2D		K29-8103-04	KNOB VOLUME	KP	
659	3A,2D	*	K29-8127-04	KNOB VOLUME	M	
660	3A,2C	*	K29-8101-04	KNOB MULTI/LISTEN	E	
660	3A,2C	*	K29-8102-04	KNOB MULTI/LISTEN	XES	
660	3A,2C		K29-8105-04	KNOB MULTI/LISTEN	KP	
660	3A,2C	*	K29-8128-04	KNOB MULTI/LISTEN	M	
661	2B,2D	*	K29-8136-03	KNOB ASSY	KPE	
661	2B,2D	*	K29-8137-03	KNOB ASSY	XES	
661	2B,2D	*	K29-8138-03	KNOB ASSY	M	
662	2A	*	K29-8107-02	KNOB ON/STANDBY	KP	
663	3A	*	K29-8111-02	KNOB VIDEO1-SETUP-2	KP	
△ 665	2D	*	L07-3138-05	POWER TRANSFORMER	KP	
△ 665	2D	*	L07-3139-05	POWER TRANSFORMER	M	
△ 665	2D	*	L07-3140-05	POWER TRANSFORMER	X	
△ 665	2D	*	L07-3141-05	POWER TRANSFORMER	EES	
670	1C		T90-0852-05	LOOP ANTENNA		
671	1C		T90-0877-05	LEAD WIRE ANTENNA		
672	1C	*	T90-0899-05	ANTENNA ASSY	KP	
675	1E	*	W02-2893-05	TUNER ASSY	KP	
675	1E	*	W02-2894-05	TUNER ASSY	KP	
675	1E	*	W02-2895-05	TUNER ASSY	MX	
675	1E	*	W02-2896-05	TUNER ASSY	EES	
675	1E	*	W02-2897-05	TUNER ASSY	EES	

L : Scandinavia

Y : PX(Far East,Hawaii)

Y : AAFES(Europe)

K : USA

T : England

X : Australia

P : Canada

E : Europe

Q : Russia

R : Mexico

G : Germany

H : Korea

C : China

V : China(Shanghai)

M : Other Areas

I : Malaysia

ES : KRF-V8060D-S(Etype)

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6

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
675	1E	*	W02-2906-05	TUNER ASSY	KP	
VR-6070, KRF-X9060D/X9060D-S/X9060D-G						
601	1C	*	A01-3842-01	METALLIC CABINET	KPYE	
601	1C	*	A01-3843-01	METALLIC CABINET	XTES	
601	1C	*	A01-3851-01	METALLIC CABINET	MH	
602	1C	*	A09-1258-08	BATTERY COVER		
604	2C	*	A21-3982-12	DRESSING PANEL	KPYE	
604	2C	*	A21-3983-12	DRESSING PANEL	XTES	
604	2C	*	A21-3984-12	DRESSING PANEL	MH	
605	2D	*	A22-1873-01	SUB PANEL ASSY	KPYE	
605	2D	*	A22-1874-01	SUB PANEL ASSY	XTES	
605	2D	*	A22-1875-01	SUB PANEL ASSY	MH	
606	2C	*	A60-2178-12	PANEL	KP	
606	2C	*	A60-2179-02	PANEL	YE	
606	2C	*	A60-2180-12	PANEL	XTES	
606	2C	*	A60-2195-12	PANEL	MH	
607	1C	*	A70-1549-05	REMOTE CONTROLLER ASSY	KP	
607	1C	*	A70-1550-05	REMOTE CONTROLLER ASSY	YMHX	
607	1C	*	A70-1551-05	REMOTE CONTROLLER ASSY	TEES	
612	2D		B07-2606-03	ESCUTCHEON	KPYE	
612	2D		B07-2607-03	ESCUTCHEON	XTES	
612	2D	*	B07-2614-03	ESCUTCHEON	MH	
613	2C	*	B07-2608-03	ESCUTCHEON	KPYE	
613	2C	*	B07-2609-03	ESCUTCHEON	XTES	
613	2C	*	B07-2615-03	ESCUTCHEON	MH	
614	2D	*	B07-2619-13	ESCUTCHEON	KPYE	
614	2D	*	B07-2620-13	ESCUTCHEON	XTES	
614	2D	*	B07-2621-13	ESCUTCHEON	MH	
615	2C	*	B10-3783-02	FRONT GLASS	KP	
615	2C	*	B10-3784-02	FRONT GLASS	YMHX	
615	2C	*	B10-3785-02	FRONT GLASS	TEES	
616	2C	*	B11-1543-03	COLOR FILTER		
617	2D	*	B12-0440-04	INDICATOR		
618	2D	*	B12-0442-04	INDICATOR		
620	2C		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	TEES	
-			B46-0328-03	WARRANTY CARD	Y	
-			B46-0330-03	WARRANTY CARD	K	
-		*	B46-0347-03	WARRANTY CARD	P	
-			B46-0365-04	QUESTIONNAIRE CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0945-03	CAUTION CARD	T	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	XT	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MEES	
-			B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B60-5183-00	INST MANUAL (EN)	KPYMX	
-		*	B60-5184-00	INST MANUAL (FR)	P	
-		*	B60-5185-00	INST MANUAL (ES/FR/GE/NE/IT)	EES	
-		*	B60-5186-00	INST MANUAL (ES/TC)	M	
△ 623	1C		E03-0382-05	AC PLUG ADAPTER(WA-6)	M	

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M : Other Areas

I : Malaysia

ES : KRF-X9060D-S(Etype)

△ indicates safety critical components .

PARTS LIST

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

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7

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ 624	1C		E03-0383-05	AC PLUG ADAPTER(WA-9C)	M	
△ 625	1E		E30-2605-05	AC POWER CORD	Y	
△ 625	1E		E30-2717-05	AC POWER CORD	X	
△ 625	1E		E30-2721-05	AC POWER CORD	MT	
△ 625	1E		E30-2941-05	AC POWER CORD	KP	
△ 625	1E		E30-2942-05	AC POWER CORD	EES	
△ 625	1E		E30-2950-05	AC POWER CORD	H	
626	1E,2E		E35-2841-05	FLAT CABLE		
627	1D,1E		E35-2873-15	FLAT CABLE	KP	
628	1D,2E	*	E35-3216-05	FLAT CABLE		
637	2C,2E	*	G11-2885-04	CUSHION		
638	1D	*	G11-2886-04	CUSHION		
639	2C	*	G11-2887-04	CUSHION		
-		*	H10-7800-02	POLYSTYRENE FOAMED FIXTURE R		
-		*	H10-7801-02	POLYSTYRENE FOAMED FIXTURE L		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		*	H50-4353-04	ITEM CARTON CASE	KP	
-		*	H50-4354-04	ITEM CARTON CASE	Y	
-		*	H50-4355-04	ITEM CARTON CASE	MH	
-		*	H50-4356-04	ITEM CARTON CASE	X	
-		*	H50-4357-04	ITEM CARTON CASE	T	
-		*	H50-4358-04	ITEM CARTON CASE	E	
-		*	H50-4359-04	ITEM CARTON CASE	ES	
643	2E	*	J02-1532-03	FOOT		
△ 644	2E		J19-3751-04	UNIT HOLDER		
654	1E		J42-0349-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
658	2C		K27-2384-04	KNOB (BUTTON) POWER	YE	
658	2C		K27-2481-04	KNOB (BUTTON) POWER	XTES	
658	2C	*	K27-2482-04	KNOB (BUTTON) POWER	MH	
659	2D	*	K29-8099-04	KNOB VOLUME	KPYE	
659	2D	*	K29-8100-04	KNOB VOLUME	XTES	
659	2D	*	K29-8127-04	KNOB VOLUME	MH	
660	2C	*	K29-8101-04	KNOB MULTI/LISTEN	KPYE	
660	2C	*	K29-8102-04	KNOB VOLUME	XTES	
660	2C	*	K29-8128-04	KNOB VOLUME	MH	
661	2D	*	K29-8136-03	KNOB ASSY	KPYE	
661	2D	*	K29-8137-03	KNOB ASSY	XTES	
661	2D	*	K29-8138-03	KNOB ASSY	MH	
△ 665	2D	*	L07-3138-05	POWER TRANSFORMER	KP	
△ 665	2D	*	L07-3139-05	POWER TRANSFORMER	YM	
△ 665	2D	*	L07-3140-05	POWER TRANSFORMER	HX	
△ 665	2D	*	L07-3141-05	POWER TRANSFORMER	TEES	
670	1C		T90-0852-05	LOOP ANTENNA		
671	1C		T90-0877-05	LEAD WIRE ANTENNA		
672	1C	*	T90-0899-05	ANTENNA ASSY	KP	
675	1E	*	W02-2893-05	TUNER ASSY	KP	
675	1E	*	W02-2894-05	TUNER ASSY	KP	
675	1E	*	W02-2895-05	TUNER ASSY	YMHX	
675	1E	*	W02-2896-05	TUNER ASSY	TEES	
675	1E	*	W02-2897-05	TUNER ASSY	TEES	

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8

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675	1E	*	W02-2906-05	TUNER ASSY	KP	
RF-RC DEMODULATOR UNIT (X05-5180-10) VR-6060/6070 only						
C1			CC73GCH1H220J	CHIP C	22PF	J
C2 -4			CC73GCH1H221J	CHIP C	220PF	J
C5			CK73GB1E223K	CHIP C	0.022UF	K
C6			CC73GCH1H221J	CHIP C	220PF	J
C12			CC73GCH1H221J	CHIP C	220PF	J
C13			CC73GCH1H050C	CHIP C	5.0PF	C
C14			CC73GCH1H100D	CHIP C	10PF	D
C16			CK73GB1E223K	CHIP C	0.022UF	K
C17			CC73GCH1H100D	CHIP C	10PF	D
C18			CC73GCH1H050C	CHIP C	5.0PF	C
C19			CK73EB0J106K	CHIP C	10UF	K
C20			CC73GCH1H0R5C	CHIP C	0.5PF	C
C21			CK73GB1H103K	CHIP C	0.010UF	K
C22			CK73FB0J475K	CHIP C	4.7UF	K
C23			CC73GCH1H010C	CHIP C	1.0PF	C
C24			CK73GB1H103K	CHIP C	0.010UF	K
C25			CK73EB0J106K	CHIP C	10UF	K
C26			CK73GF1C224Z	CHIP C	0.22UF	Z
C27			CK73GB1H103K	CHIP C	0.010UF	K
C28			CC73GCH1H100D	CHIP C	10PF	D
C29			CC73GCH1H221J	CHIP C	220PF	J
C30			CK73EB0J106K	CHIP C	10UF	K
C31			CK73GB1E223K	CHIP C	0.022UF	K
C32 ,33			CK73GB1H103K	CHIP C	0.010UF	K
C34			CC73GCH1H101J	CHIP C	100PF	J
C35			CC73GCH1H471J	CHIP C	470PF	J
C36 ,37			CK73GB1H103K	CHIP C	0.010UF	K
C38			CK73GF1A105Z	CHIP C	1.0UF	Z
C39			CK73GB1H103K	CHIP C	0.010UF	K
C40 ,41			CC73GCH1H150J	CHIP C	15PF	J
C43			CK73GB1H222K	CHIP C	2200PF	K
C44			CK73GB1H103K	CHIP C	0.010UF	K
C45			CK73GF1A105Z	CHIP C	1.0UF	Z
C47			CK73GF1A105Z	CHIP C	1.0UF	Z
CN1			E40-8530-05	FLAT CABLE CONNECTOR		
J1			E11-0904-05	MINIATURE PHONE JACK(STEREO MI)		
CF1			L72-0643-05	CERAMIC FILTER		
L1			L79-1294-05	LC FILTER		
L4			L92-0140-05	CHIP FERRITE		
L5			L32-1058-05	FM OSCILLATING COIL		
L6 ,7			L92-0140-05	CHIP FERRITE		
L9 ,10			L92-0140-05	CHIP FERRITE		
L12			L92-0140-05	CHIP FERRITE		
X1			L77-2382-05	CRYSTAL RESONATOR(12.8MHZ,50PP)		
R1			RK73GB1J431J	CHIP R	430	J 1/16W
R2			RK73GB1J120J	CHIP R	12	J 1/16W
R3			RK73GB1J431J	CHIP R	430	J 1/16W
R4			RK73GB1J331J	CHIP R	330	J 1/16W
R6			RK73GB1J391J	CHIP R	390	J 1/16W
R7			RK73GB1J103J	CHIP R	10K	J 1/16W
R8			RK73GB1J473J	CHIP R	47K	J 1/16W

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KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070
PARTS LIST

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9

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R9			RK73GB1J103J	CHIP R 10K J 1/16W		
R10			RK73GB1J100J	CHIP R 10 J 1/16W		
R11			RK73GB1J821J	CHIP R 820 J 1/16W		
R12			RK73GB1J471J	CHIP R 470 J 1/16W		
R13			RK73GB1J511J	CHIP R 510 J 1/16W		
R14			RK73GB1J124J	CHIP R 120K J 1/16W		
R15			RK73GB1J271J	CHIP R 270 J 1/16W		
R16			RK73GB1J201J	CHIP R 200 J 1/16W		
R17			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R18			RK73GB1J471J	CHIP R 470 J 1/16W		
R19			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R20			RK73GB1J242J	CHIP R 2.4K J 1/16W		
R21			RK73GB1J183J	CHIP R 18K J 1/16W		
R24 -26			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R31			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R32			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R33			RK73GB1J103J	CHIP R 10K J 1/16W		
R34			RK73GB1J474J	CHIP R 470K J 1/16W		
D1			1SS302	DIODE		
D2			KV1832E	VARIABLE CAPACITANCE DIODE		
IC1			UPC2748T-E3	ANALOGUE IC		
IC3			LV2105V	MOS-IC		
IC4			TK14583V	ANALOGUE IC		
IC7		*	XC6201P502MR	ANALOGUE IC		
Q2 ,3			2SC5065(O,Y)	TRANSISTOR		
Q4			DTA124EUA	DIGITAL TRANSISTOR		
SURROUND UNIT (X08-3130-XX)						
C1 ,2			CK73GB1H472K	CHIP C 4700PF K		
C3 ,4			CC73GCH1H220J	CHIP C 22PF J		
C5			CE04LW1E470M	ELECTRO 47UF 25WV		
C6			CE04LW1E470M	ELECTRO 47UF 25WV		
C7			CE04LW1H100M	ELECTRO 10UF 50WV		
C8 ,9			CC73GCH1H270J	CHIP C 27PF J		
C10			CK73GB1H102K	CHIP C 1000PF K		
C11			CK73FB1E104K	CHIP C 0.10UF K		
C12			CK73GB1H102K	CHIP C 1000PF K		
C15			CC73GCH1H330J	CHIP C 33PF J		
C16			CK73GB1H102K	CHIP C 1000PF K		
C17			CC73GCH1H330J	CHIP C 33PF J		
C18			CC73GCH1H220J	CHIP C 22PF J		
C19			CC73GCH1H330J	CHIP C 33PF J		
C20			CK73GB1H103K	CHIP C 0.010UF K		
C30			CK73FB1E104K	CHIP C 0.10UF K		
C31			CE04RW1C4R7M	ELECTRO 4.7UF 16WV		
C32			CK73FB1E104K	CHIP C 0.10UF K		
C33			CE04KW1C100M	ELECTRO 10UF 16WV		
C34			CE04KW1C220M	ELECTRO 22UF 16WV		
C35			CK73FB1E104K	CHIP C 0.10UF K		
C36 ,37			CC73GCH1H180J	CHIP C 18PF J		
C38			CC73GCH1H330J	CHIP C 33PF J		
C39			CK73GB1H103K	CHIP C 0.010UF K		
C101,102			CE04KW1H100M	ELECTRO 10UF 50WV		
C103-106			CK73GB1H182K	CHIP C 1800PF K		
C107			CC73GCH1H101J	CHIP C 100PF J		

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10

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C108			CK73GB1H472K	CHIP C 4700PF K		
C109,110			CC73GCH1H220J	CHIP C 22PF J		
C121			CC73GCH1H102J	CHIP C 1000PF J		
C122			CC73GCH1H101J	CHIP C 100PF J		
C123,124			CC73GCH1H220J	CHIP C 22PF J		
C125			CK73GB1H103K	CHIP C 0.010UF K		
C126			CC73GCH1H101J	CHIP C 100PF J		
C127,128			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C153,154			C91-1597-05	CERAMIC 4.7UF Z		
C201,202			CE04KW1H100M	ELECTRO 10UF 50WV		
C203,204			CK73GB1H222K	CHIP C 2200PF K		
C205,206			CK73GB1H821K	CHIP C 820PF K		
C207			CC73GCH1H101J	CHIP C 100PF J		
C208			CK73GB1H472K	CHIP C 4700PF K		
C209,210			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C301,302			CE04KW1H100M	ELECTRO 10UF 50WV		
C303-306			CK73GB1H182K	CHIP C 1800PF K		
C307			CC73GCH1H101J	CHIP C 100PF J		
C308			CK73GB1H472K	CHIP C 4700PF K		
C309,310			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C401,402			CE04KW1H100M	ELECTRO 10UF 50WV		
C403			CK73GB1H182K	CHIP C 1800PF K		
C404			CK73GB1H822K	CHIP C 8200PF K		
C405			CK73GB1H182K	CHIP C 1800PF K		
C406			CK73GB1H822K	CHIP C 8200PF K		
C407			CC73GCH1H101J	CHIP C 100PF J		
C408			CK73GB1H103K	CHIP C 0.010UF K		
C409,410			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C411			CC73GCH1H220J	CHIP C 22PF J		
C500-513			CK73FB1E104K	CHIP C 0.10UF K		
C514			CC73GCH1H470J	CHIP C 47PF J		
C515			CE04LW0J471M	ELECTRO 470UF 6.3WV		
C600-603			CK73FB1E104K	CHIP C 0.10UF K		
C800,801			CC73GCH1H221J	CHIP C 220PF J		
C802			CK73GB1H103K	CHIP C 0.010UF K		
C803			CK73FB1H103K	CHIP C 0.010UF K		
C900			CE04KW1C472M	ELECTRO 4700UF 16WV		
C901			CK73FB1E104K	CHIP C 0.10UF K		
C908			CK73FF1C225Z	CHIP C 2.2UF Z		
C909			CK73FB1E104K	CHIP C 0.10UF K		
C910			CE04KW1A101M	ELECTRO 100UF 10WV		
C911			CK73FB1E104K	CHIP C 0.10UF K		
C912			CC73GCH1H390J	CHIP C 39PF J		
C913			CK73FB1E104K	CHIP C 0.10UF K		
C914			CK73FB1H103K	CHIP C 0.010UF K		
C920			CE04KW1A101M	ELECTRO 100UF 10WV		
C921			CK73FB1E104K	CHIP C 0.10UF K		
C922			CC73GCH1H470J	CHIP C 47PF J		
C923			CK73FB1E104K	CHIP C 0.10UF K		
C930			CE04KW1A101M	ELECTRO 100UF 10WV		
C931			CK73FB1E104K	CHIP C 0.10UF K		
C932			CC73GCH1H100D	CHIP C 10PF D		
C933			CK73FB1E104K	CHIP C 0.10UF K		
CN1			E40-3246-05	PIN ASSY		

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PARTS LIST

KRF-V6060D/V7060D/V8060D/V8060D/V9060D/VF-6050/6060/6070

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11

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CN3			E40-8484-05	FLAT CABLE CONNECTOR		
CN4			E40-3257-05	PIN ASSY		
CN5			E40-3254-05	PIN ASSY		
J1			E63-1080-05	PIN JACK		
J800			E11-0293-05	MINIATURE PHONE JACK(2P)		
L1 ,2			L92-0510-05	CHIP FERRITE		
X1			L77-2296-05	CRYSTAL RESONATOR(12.288MHZ)		
CP51,52			R90-0714-05	MULTI-COMP 10K X4		
CP600-604			R90-0728-05	MULTI-COMP 180 X4		
R1			RK73GB1J471J	CHIP R 470 J 1/16W		
R2			RK73GB1J471J	CHIP R 470 J 1/16W		59
R3			R92-1946-05	METAL GLAZE 4.7 J 1/4W		59
R4			RK73GB1J471J	CHIP R 470 J 1/16W		5
R5			R92-1946-05	METAL GLAZE 4.7 J 1/4W		5
R6			R92-1946-05	METAL GLAZE 4.7 J 1/4W		
R7			RK73GB1J820J	CHIP R 82 J 1/16W		
R8			RK73GB1J821J	CHIP R 820 J 1/16W		
R9			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R10			RK73GB1J221J	CHIP R 220 J 1/16W		
R11			RK73GB1J183J	CHIP R 18K J 1/16W		
R14 ,15			RK73GB1J330J	CHIP R 33 J 1/16W		
R16 -19			RK73GB1J220J	CHIP R 22 J 1/16W		
R20			RK73GB1J221J	CHIP R 220 J 1/16W		
R21			RK73GB1J220J	CHIP R 22 J 1/16W		
R22			RK73GB1J105J	CHIP R 1.0M J 1/16W		
R23			RK73GB1J330J	CHIP R 33 J 1/16W		
R30			RK73GB1J220J	CHIP R 22 J 1/16W		
R31			R92-1946-05	METAL GLAZE 4.7 J 1/4W		
R32			RK73GB1J221J	CHIP R 220 J 1/16W		
R101,102			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R103,104			RK73GB1J104J	CHIP R 100K J 1/16W		
R105,106			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R107,108			RK73GB1J103J	CHIP R 10K J 1/16W		
R109,110			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R111,112			RK73GB1J221J	CHIP R 220 J 1/16W		
R121,122			RK73GB1J112J	CHIP R 1.1K J 1/16W		
R123,124			RK73GB1J242J	CHIP R 2.4K J 1/16W		
R125-128			RK73GB1J103J	CHIP R 10K J 1/16W		
R129,130			RK73GB1J101J	CHIP R 100 J 1/16W		
R151,152			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R153,154			RK73GB1J432J	CHIP R 4.3K J 1/16W		
R155-158			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R201,202			RK73GB1J332J	CHIP R 3.3K J 1/16W		
R203,204			RK73GB1J104J	CHIP R 100K J 1/16W		
R205,206			RK73GB1J911J	CHIP R 910 J 1/16W		
R207,208			RK73GB1J272J	CHIP R 2.7K J 1/16W		
R209,210			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R211,212			RK73GB1J221J	CHIP R 220 J 1/16W		
R213			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R214,215			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R216			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R301,302			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R303,304			RK73GB1J104J	CHIP R 100K J 1/16W		
R305,306			RK73GB1J102J	CHIP R 1.0K J 1/16W		

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12

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R307,308			RK73GB1J103J	CHIP R 10K J 1/16W		
R309,310			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R311,312			RK73GB1J221J	CHIP R 220 J 1/16W		
R401			RK73GB1J222J	CHIP R 2.2K J 1/16W		
R402,403			RK73GB1J104J	CHIP R 100K J 1/16W		
R404			RK73GB1J273J	CHIP R 27K J 1/16W		
R405			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R406			RK73GB1J183J	CHIP R 18K J 1/16W		
R407,408			RK73GB1J103J	CHIP R 10K J 1/16W		
R409			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R410			RK73GB1J562J	CHIP R 5.6K J 1/16W		
R411,412			RK73GB1J221J	CHIP R 220 J 1/16W		
R501-508			RK73GB1J104J	CHIP R 100K J 1/16W		
R509-511			RK73GB1J221J	CHIP R 220 J 1/16W		
R512			RK73GB1J104J	CHIP R 100K J 1/16W		
R513			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R514			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R515		*	R92-4583-05	METAL GLAZE RESISTOR		
R541			RK73GB1J220J	CHIP R 22 J 1/16W		
R542,543			RK73GB1J101J	CHIP R 100 J 1/16W		
R601-608			RK73GB1J104J	CHIP R 100K J 1/16W		
R900			R92-1918-05	CHIP R 0.33 J 1/4W		
R910			R92-1946-05	METAL GLAZE 4.7 J 1/4W		
R920			RS14KB3D180J	FL-PROOF RS 18 J 2W		
R930			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R931			RS14KB3D5R6J	FL-PROOF RS 5.6 J 2W		
R950			RK73GB1J152J	CHIP R 1.5K J 1/16W		
R951			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R952			RK73GB1J472J	CHIP R 4.7K J 1/16W		
R953			RK73GB1J473J	CHIP R 47K J 1/16W		
R954,955			RK73GB1J221J	CHIP R 220 J 1/16W		
W999			R92-0679-05	CHIP R 0 OHM		
S800			S62-0034-05	SLIDE SWITCH	YMI	
D1			DAN202U	DIODE		
D1			MA142WK	DIODE		
D1			1SS301	DIODE		
D3			DAN202U	DIODE		
D3			MA142WK	DIODE		
D3			1SS301	DIODE		
D4			DAP202U	DIODE		
D4			MA142WA	DIODE		
D4			1SS300	DIODE		
D800,801			MA111	DIODE		
D900			D2SBA20F03	DIODE	YM	
D901,902			MA111	DIODE		
D910			HZU3.9(B2)	ZENER DIODE		
D910			UDZ3.9B	ZENER DIODE		
D920			HZU3.9(B2)	ZENER DIODE		
D920			UDZ3.9B	ZENER DIODE		
D930			HZU5.6(B2)	ZENER DIODE		
D930			UDZ5.6B	ZENER DIODE		
D950			HZU5.1(B2)	ZENER DIODE		
D950			UDZ5.1B	ZENER DIODE		

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13

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D951 IC2 IC3 IC4 IC5			MA111 AK4112BVF TC7WH241FU AK4529-VQ TC7SHU04FU	DIODE MOS-IC MOS-IC MOS-IC MOS-IC		
IC6 IC7 IC11 IC11 IC12			TC7WU04FU TC74VHC175FT NJM4565M NJM4565MD NJU7311AM	MOS-IC MOS-IC ANALOGUE IC IC(OP AMP X2) MOS-IC		
IC21 IC21 IC31 IC31 IC41			NJM4565M NJM4565MD NJM4565M NJM4565MD NJM4565M	ANALOGUE IC IC(OP AMP X2) ANALOGUE IC IC(OP AMP X2) ANALOGUE IC		
IC41 IC50 IC51 IC51 IC51		*	NJM4565MD ADSST-MEL322 27W40180N6A00 27W40180N6702 27W40180N6902	IC(OP AMP X2) MOS-IC ROM IC ROM IC ROM IC		5 6 7 9
IC52 IC60 IC61 IC90 IC91		*	A61L6316-12V TC74HCT7007AF TC74VHC125FT BA05T NJU7223F25	SRAM IC MOS-IC MOS-IC ANALOGUE IC ANALOGUE IC		
IC92 IC93 IC123 IC123 Q950		*	BA033T BA05T NJM4565M NJM4565MD 2SA1576A(R,S)	ANALOGUE IC ANALOGUE IC ANALOGUE IC IC(OP AMP X2) TRANSISTOR		
Q950 Q951 Q951			2SB1218A(Q,R) 2SC4081(R,S) 2SD1819A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR		
A1 A2 A3			W02-2731-05 W02-2731-05 W02-2732-05	OPTIC RECEIVING MODULE OPTIC RECEIVING MODULE OSCILLATING MODULE		59 5
AUDIO UNIT (X09-658X-XX)						
C1 ,2 C3 ,4 C3 ,4 C5 ,6 C5 ,6			CC45FSL1H221J CE04LW1H100M CE04LW1H100M CC45FSL1H221J CC45FSL1H221J	CERAMIC 220PF ELECTRO 10UF 50WV ELECTRO 10UF 50WV CERAMIC 220PF CERAMIC 220PF	J 50WV 50WV J J	579 6 579 6
C7 ,8 C7 ,8 C9 ,10 C9 ,10 C11 ,12			CE04LW1A101M CE04LW1A101M CC45FSL1H271J CC45FSL1H271J CQ93FMG1H123J	ELECTRO 100UF 10WV ELECTRO 100UF 10WV CERAMIC 270PF CERAMIC 270PF MYLAR 0.012UF	J 10WV J J J	579 6 579 6 579
C11 ,12 C13 ,14 C13 ,14 C15 ,16 C15 ,16			CQ93FMG1H123J CK45FB1H332K CK45FB1H332K CE04LW1H4R7M CE04LW1H4R7M	MYLAR 0.012UF CERAMIC 3300PF CERAMIC 3300PF ELECTRO 4.7UF 50WV ELECTRO 4.7UF 50WV	J K K 50WV 50WV	579 6 579 6 6
C17 ,18 C17 ,18			CC45FCH1H101J CC45FCH1H101J	CERAMIC 100PF CERAMIC 100PF	J J	579 6

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14

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C19 -38 C44 ,45 C46 ,47 C51 -54 C55 ,56			CC45FSL1H221J CE04LW1E470M CQ93FMG1H823J C91-1573-05 CQ93FMG1H272J	CERAMIC 220PF ELECTRO 47UF 25WV MYLAR 0.082UF MP-C 0.10UF MYLAR 2700PF	J 25WV J J J	
C57 ,58 C62 ,63 C64 ,65 C64 ,65 C66 ,67			CE04LW1H2R2M CE04KW1H3R3M CE04KW1H3R3M CE04KW2A3R3M CC45FSL1H331J	ELECTRO 2.2UF 50WV ELECTRO 3.3UF 50WV ELECTRO 3.3UF 50WV ELECTRO 3.3UF 100WV CERAMIC 330PF	J 50WV 50WV 100WV J	679 5
C68 C69 C70 ,71 C72 ,73 C74 ,75			CC45FCH1H070D CC45FCH1H080D CK45FB1H222K CC45FCH1H101J CE04KW1A221M	CERAMIC 7.0PF CERAMIC 8.0PF CERAMIC 2200PF CERAMIC 100PF ELECTRO 220UF	D D K J 10WV	5
C74 ,75 C76 ,77 C78 ,79 C82 ,83 C84 ,85			CE04KW1E101M CC45FCH1H100D CK45FB1H561K CC45FCH1H100D CE04KW1E470M	ELECTRO 100UF 25WV CERAMIC 10PF CERAMIC 560PF CERAMIC 10PF ELECTRO 47UF 25WV	D D K D 25WV	679 5 679 5
C84 ,85 C86 ,87 C88 ,89 C90 ,91 C90 ,91			CE04KW1H220M CC45FSL1H470J CC45FSL2H470J C91-1573-05 C91-1577-05	ELECTRO 22UF 50WV CERAMIC 47PF CERAMIC 47PF MP-C 0.10UF MP-C 0.22UF	J J J J J	679 KP YMHXTE
C92 ,93 C94 ,95 C111 ,112 C113 ,114 C115 ,116			C91-1577-05 CK45FB1H332K CE04KW1H3R3M CE04LW1H3R3M CC45FSL1H331J	MP-C 0.22UF CERAMIC 3300PF ELECTRO 3.3UF 50WV ELECTRO 3.3UF 50WV CERAMIC 330PF	J K 50WV 50WV J	YMHXTE
C117 ,118 C119 ,120 C121 ,122 C123 ,124 C125 ,126			CC45FCH1H050C CK45FB1H222K CC45FCH1H101J CE04KW1A221M CC45FCH1H100D	CERAMIC 5.0PF CERAMIC 2200PF CERAMIC 100PF ELECTRO 220UF CERAMIC 10PF	C K J 10WV D	
C127 ,128 C133 ,134 C135 ,136 C137 ,138 C139 ,140			CK45FB1H561K CE04LW1H220M CC45FSL1H470J CC45FSL2H470J C91-1573-05	CERAMIC 560PF ELECTRO 22UF 50WV CERAMIC 47PF CERAMIC 47PF MP-C 0.10UF	K 50WV J J J	KP
C139 ,140 C141 ,142 C143 ,144 C161 C163			C91-1577-05 C91-1577-05 CK45FB1H332K CE04KW1H3R3M CE04KW1H3R3M	MP-C 0.22UF MP-C 0.22UF CERAMIC 3300PF ELECTRO 3.3UF 50WV ELECTRO 3.3UF 50WV	J J K 50WV 50WV	67 679
C163 C164 C165 C166 C167			CE04KW2A3R3M CE04LW1H3R3M CC45FSL1H331J CC45FSL1H331J CC45FCH1H060D	ELECTRO 3.3UF 100WV ELECTRO 3.3UF 50WV CERAMIC 330PF CERAMIC 330PF CERAMIC 6.0PF	100WV 50WV J J D	5 59 59
C168 C169 C170 C171 C172			CC45FCH1H050C CK45FB1H222K CK45FB1H222K CC45FCH1H101J CC45FCH1H101J	CERAMIC 5.0PF CERAMIC 2200PF CERAMIC 2200PF CERAMIC 100PF CERAMIC 100PF	C K K J J	59 59 59

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15

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C173			CE04KW1A221M	ELECTRO 220UF 10WV		5
C173			CE04KW1E101M	ELECTRO 100UF 25WV		679
C174			CE04KW1A221M	ELECTRO 220UF 10WV		5
C175			CC45FCH1H100D	CERAMIC 10PF D		
C176			CC45FCH1H100D	CERAMIC 10PF D		59
C177			CK45FB1H561K	CERAMIC 560PF K		
C178			CK45FB1H561K	CERAMIC 560PF K		59
C181			CC45FCH1H100D	CERAMIC 10PF D		679
C183			CE04KW1E470M	ELECTRO 47UF 25WV		5
			CE04KW1H220M	ELECTRO 22UF 50WV		679
C184			CE04LW1H220M	ELECTRO 22UF 50WV		59
C185			CC45FSL1H470J	CERAMIC 47PF J		
C186			CC45FSL1H470J	CERAMIC 47PF J		59
C187			CC45FSL2H470J	CERAMIC 47PF J		
C188			CC45FSL2H470J	CERAMIC 47PF J		59
C189			C91-1573-05	MP-C 0.10UF J	KP	
C189			C91-1577-05	MP-C 0.22UF J	YMHXTE	
C190			C91-1573-05	MP-C 0.10UF J	KP	59
C190			C91-1577-05	MP-C 0.22UF J	YMHXTE	59
C191			C91-1577-05	MP-C 0.22UF J	YMHXTE	59
C192			C91-1577-05	MP-C 0.22UF J	YMHXTE	59
C193			CK45FB1H332K	CERAMIC 3300PF K		
C195,196			CK45FB1H332K	CERAMIC 3300PF K		
C221,222			CE04LW1H470M	ELECTRO 4.7UF 50WV		679
C223,224			CE04LW1C470M	ELECTRO 47UF 16WV		679
C225			CQ93FMG1H392J	MYLAR 3900PF J		679
C226			CC45FCH1H100D	CERAMIC 10PF D		679
C227,228			CE04LW1H220M	ELECTRO 22UF 50WV		59
C229,230			CE04LW1H220M	ELECTRO 22UF 50WV		679
C231,232			CC45FSL1H221J	CERAMIC 220PF J		679
C233			CK45FB1H471K	CERAMIC 470PF K		679
C301,302			C90-3984-05	ELECTRO 4700UF 75WV		679
C301,302			C90-5749-05	ELECTRO 1000UF 74WV		5
C303			CQ93FMG1H103J	MYLAR 0.010UF J		
C304			CE04LW0J221M	ELECTRO 220UF 6.3WV		
C305			CE04KW1V101M	ELECTRO 100UF 35WV		
C306			CE04LW2A101M	ELECTRO 100UF 100WV		5
C307			CC45FSL1H181J	CERAMIC 180PF J		679
C307			CC45FSL1H221J	CERAMIC 220PF J		
C308			CE04LW1H100M	ELECTRO 10UF 50WV		
C309			CE04LW1H220M	ELECTRO 22UF 50WV		
C310,311			CE04KW1H220M	ELECTRO 22UF 50WV		
C312			CE04LW1A101M	ELECTRO 100UF 10WV		
C313,314			CE04LW1E470M	ELECTRO 47UF 25WV		59
C315			CE04DW2A330M	ELECTRO 33UF 100WV		
C316			CE04LW2A100M	ELECTRO 10UF 100WV		
C317,318			CE04KW2A220M	ELECTRO 22UF 100WV		
C319,320			CC45FCH1H101J	CERAMIC 100PF J		
C321			CC45FCH1H100D	CERAMIC 10PF D		
C322			CC45FCH1H120J	CERAMIC 12PF J		5
C322			CC45FCH1H150J	CERAMIC 15PF J		679
C323			CK45FB1H102K	CERAMIC 1000PF K		
C324,325			CE04DW1C471M	ELECTRO 470UF 16WV		
C326			CC45FCH1H220J	CERAMIC 22PF J		5
C351-353			CC45FSL1H221J	CERAMIC 220PF J		

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16

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C354			CQ93FMG1H122J	MYLAR 1200PF J		
C355-359			CK45FF1H472Z	CERAMIC 4700PF Z		59
C360			CK45FF1H472Z	CERAMIC 4700PF Z		
C361			CE04KW1H220M	ELECTRO 22UF 50WV		
C362			CE04LW1H220M	ELECTRO 22UF 50WV		
C363			CE04KW1C220M	ELECTRO 22UF 16WV		679
C363			CE04KW1E470M	ELECTRO 47UF 25WV		5
C364			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C365			CE04LW1A221M	ELECTRO 220UF 10WV		
C366			CE04LW1H470M	ELECTRO 4.7UF 50WV		
C367			CE04LW1A221M	ELECTRO 220UF 10WV		
C368			CE04LW1H470M	ELECTRO 4.7UF 50WV		
C369			CE04HW1C330M	NP-ELEC 33UF 16WV		679
C369			CE04HW1E220M	NP-ELEC 22UF 25WV		5
C370			CK45FB1H102K	CERAMIC 1000PF K		
C450			CK45FE2H103P	CERAMIC 0.010UF P		
C451-453			CK45FB2H102K	CERAMIC 1000PF K		
C501,502			CC45FSL1H221J	CERAMIC 220PF J		
C600			CE04KW1E101M	ELECTRO 100UF 25WV		5
C603,604			CE04KW1E470M	ELECTRO 47UF 25WV		
C605,606			CC45FCH1H820J	CERAMIC 82PF J		5
C607,608			CE04KW1H220M	ELECTRO 22UF 50WV		5
CN1			E40-8361-05	PIN ASSY		
CN2			E40-3248-05	PIN ASSY		
CN3			E40-3247-05	PIN ASSY		
CN4			E40-8484-05	FLAT CABLE CONNECTOR		5
CN5			E40-8483-05	FLAT CABLE CONNECTOR		
CN6			E40-3259-05	PIN ASSY		
CN7			E40-3253-05	PIN ASSY		5
CN8			E40-3254-05	PIN ASSY		
CN10-14			E40-4871-05	PIN ASSY		59
CN15			E40-4871-05	PIN ASSY		
CN21			E40-8429-05	SOCKET FOR PIN ASSY		
CN22			E40-3253-05	PIN ASSY		
CN51			E40-3247-05	PIN ASSY		
J1 ,2		*	E63-1246-05	PIN JACK		
J3		*	E63-1247-05	PIN JACK		
J4		*	E63-1248-05	PIN JACK		679
J5		*	E70-0150-05	SCREW TERMINAL BOARD		
J6		*	E70-0160-05	LOCK TERMINAL BOARD		59
J7		*	E70-0161-05	LOCK TERMINAL BOARD		67
J501		*	E11-0190-05	PHONE JACK (3P)		
J501			E11-0271-05	PHONE JACK (METAL SLEEVE)		
W1 ,2			E31-0002-00	JUMPER WIRE	KPYMIH	6
W1 ,2			E31-0002-00	JUMPER WIRE	X	6
W3 ,4			E31-0002-00	JUMPER WIRE		5
W5 -7			E31-0002-00	JUMPER WIRE		679
W8			E31-0002-00	JUMPER WIRE		679
W8			E31-0002-00	JUMPER WIRE	KPYMHX	5
W13			E31-0002-00	JUMPER WIRE		59
W20 -23			E31-0002-00	JUMPER WIRE	KP	679
W24		*	E29-1680-05	LEAD PLATE		
W25		*	E29-1685-05	LEAD PLATE		
W26		*	E29-1681-05	LEAD PLATE		

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17

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W27 W49 W350,351		** ** **	E29-1678-05 E29-1688-05 E29-1677-14	LEAD PLATE LEAD PLATE LEAD PLATE		
E501			J11-0808-05	WIRE CLAMPER	YMHXTE	
L1 -5 L6			L39-0085-05 L39-0085-05	PHASE COMPENSATION COIL PHASE COMPENSATION COIL		59
R1 ,2 R1 ,2 R3 ,4 R3 ,4 R5 ,6			RD14BB2C102J RD14BB2C102J RD14BB2C303J RD14BB2C303J RD14BB2C101J	RD 1.0K J 1/6W RD 1.0K J 1/6W RD 30K J 1/6W RD 30K J 1/6W RD 100 J 1/6W	TE TE	579 6 579 6 579
R5 ,6 R7 ,8 R7 ,8 R9 ,10 R9 ,10			RD14BB2C101J RD14BB2C361J RD14BB2C361J RD14BB2C274J RD14BB2C274J	RD 100 J 1/6W RD 360 J 1/6W RD 360 J 1/6W RD 270K J 1/6W RD 270K J 1/6W	TE TE TE TE	6 579 6 579 6
R11 ,12 R11 ,12 R13 ,14 R13 ,14 R13 ,14			RD14BB2C223J RD14BB2C223J RD14BB2C224J RD14BB2C224J RD14BB2C473J	RD 22K J 1/6W RD 22K J 1/6W RD 220K J 1/6W RD 220K J 1/6W RD 47K J 1/6W	TE KPYMIH X	579 6 6 6 579
R13 ,14 R65 ,66 R65 ,66 R79 ,80 R79 ,80			RD14BB2C473J RD14BB2C152J RD14BB2C222J RD14BB2C162J RD14BB2C391J	RD 47K J 1/6W RD 1.5K J 1/6W RD 2.2K J 1/6W RD 1.6K J 1/6W RD 390 J 1/6W	TE KPYIHM	6 679 5 5 69
R79 ,80 R79 ,80 R81 -84 R85 ,86 R87 ,88			RD14BB2C391J RD14BB2C391J RD14BB2C431J RD14BB2C431J RD14BB2C431J	RD 390 J 1/6W RD 430 J 1/6W RD 220 J 1/4W RD 5.6K J 1/4W RD 330 J 1/4W	X TE	69 679
R93 -96 R97 ,98 R99 ,100 R101 ,102 R103 ,104			RD14NB2E470J RD14NB2E221J RD14NB2E330J RS14KB3D4R7J RS14KB3D391J	RD 47 J 1/4W RD 220 J 1/4W RD 33 J 1/4W FL-PROOF RS 4.7 J 2W FL-PROOF RS 390 J 2W		
R129 ,130 R129 ,130 R129 ,130 R129 ,130 R131-134			RD14BB2C162J RD14BB2C391J RD14BB2C391J RD14BB2C431J RD14NB2E221J	RD 1.6K J 1/6W RD 390 J 1/6W RD 390 J 1/6W RD 430 J 1/6W RD 220 J 1/4W	KPYIHM X TE	5 69 69 679
R135,136 R137,138 R143-146 R147,148 R149,150			RD14NB2E562J RD14NB2E331J RD14NB2E470J RD14NB2E221J RD14NB2E330J	RD 5.6K J 1/4W RD 330 J 1/4W RD 47 J 1/4W RD 220 J 1/4W RD 33 J 1/4W		
R151,152 R164 R166 R168 R170			RS14KB3D4R7J RD14BB2C104J RD14BB2C222J RD14BB2C473J RD14BB2C101J	FL-PROOF RS 4.7 J 2W RD 100K J 1/6W RD 2.2K J 1/6W RD 47K J 1/6W RD 100 J 1/6W		59 59 59 59
R172 R174			RD14BB2C682J RD14BB2C332J	RD 6.8K J 1/6W RD 3.3K J 1/6W		59 59

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18

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R176 R178 R179 R179 R179			RD14BB2C152J RD14BB2C152J RD14BB2C162J RD14BB2C391J RD14BB2C391J	RD 1.5K J 1/6W RD 1.5K J 1/6W RD 1.6K J 1/6W RD 390 J 1/6W RD 390 J 1/6W	KPYIHM X	59 59 5 69 69
R179 R180 R180 R180 R181			RD14BB2C431J RD14BB2C162J RD14BB2C472J RD14BB2C512J RD14NB2E221J	RD 430 J 1/6W RD 1.6K J 1/6W RD 4.7K J 1/6W RD 5.1K J 1/6W RD 220 J 1/4W	TE KPMX E	679 5 9 9
R182 R183 R184 R185 R186			RD14NB2E221J RD14NB2E221J RD14NB2E221J RD14NB2E562J RD14NB2E562J	RD 220 J 1/4W RD 220 J 1/4W RD 220 J 1/4W RD 5.6K J 1/4W RD 5.6K J 1/4W		59 59 59 59
R187 R188 R190 R192 R193			RD14NB2E331J RD14NB2E331J RD14BB2C473J RD14BB2C102J RD14NB2E470J	RD 330 J 1/4W RD 330 J 1/4W RD 47K J 1/6W RD 1.0K J 1/6W RD 47 J 1/4W		59 59 59 59
R194 R195 R196 R197 R198			RD14NB2E470J RD14NB2E470J RD14NB2E470J RD14NB2E221J RD14NB2E221J	RD 47 J 1/4W RD 47 J 1/4W RD 47 J 1/4W RD 220 J 1/4W RD 220 J 1/4W		59 59 59 59
R199 R200 R201 R202 R223,224			RD14NB2E330J RD14NB2E330J RS14KB3D4R7J RS14KB3D4R7J RD14BB2C473J	RD 33 J 1/4W RD 33 J 1/4W FL-PROOF RS 4.7 J 2W FL-PROOF RS 4.7 J 2W RD 47K J 1/6W		59 59 59 679
R225 R226 R227,228 R231,232 R233,234			RD14BB2C821J RD14BB2C472J RD14BB2C473J RD14BB2C102J RD14BB2C104J	RD 820 J 1/6W RD 4.7K J 1/6W RD 47K J 1/6W RD 1.0K J 1/6W RD 100K J 1/6W		679 679 679 679 679
R235,236 R237 R301 R303 R303			RD14BB2C470J RD14BB2C102J RS14KB3D182J RD14NB2E1R0J RD14NB2E1R0J	RD 47 J 1/6W RD 1.0K J 1/6W FL-PROOF RS 1.8K J 2W RD 1 J 1/4W RD 1 J 1/4W		679 679 679 679
R303 R304 R304 R304 R306			RD14NB2E561J RS14KB3A103J RS14KB3A103J RS14KB3A822J RD14NB2E101J	RD 560 J 1/4W FL-PROOF RS 10K J 1W FL-PROOF RS 10K J 1W FL-PROOF RS 8.2K J 1W RD 100 J 1/4W	KPYMHX TE KPYMHX	5 679 5 5
R307 R310,311 R314 R315,316 R317	⚠		RD14NB2E822J RS14KB3A680J RS14KB3A681J RD14NB2E271J RS14KB3D122J	RD 8.2K J 1/4W FL-PROOF RS 68 J 1W FL-PROOF RS 680 J 1W RD 270 J 1/4W FL-PROOF RS 1.2K J 2W		59
R317 R318 R318 R321,322 R325,326	⚠		RS14KB3D222J RS14KB3D152J RS14KB3D222J RD14NB2E1R0J RD14NB2E472J	FL-PROOF RS 2.2K J 2W FL-PROOF RS 1.5K J 2W FL-PROOF RS 2.2K J 2W RD 1 J 1/4W RD 4.7K J 1/4W	YMIHX KPT YMIHX	

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19

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R331-333			RS14KB3D182J	FL-PROOF RS 1.8K J 2W		
R342			RS14KB3A100J	FL-PROOF RS 10 J 1W		
R343			RS14KB3A470J	FL-PROOF RS 47 J 1W		
R354			RD14BB2C473J	RD 47K J 1/6W		59
R355			RD14BB2C102J	RD 1.0K J 1/6W		59
R358,359			RD14BB2C103J	RD 10K J 1/6W		679
R358,359			RD14BB2C912J	RD 9.1K J 1/6W		5
R383,384			RD14BB2C103J	RD 10K J 1/6W		679
R383,384			RD14BB2C912J	RD 9.1K J 1/6W		5
R402			RD14BB2C303J	RD 30K J 1/6W		59
R403			RD14BB2C103J	RD 10K J 1/6W		679
R403			RD14BB2C912J	RD 9.1K J 1/6W		5
R404			RD14BB2C103J	RD 10K J 1/6W		79
R404			RD14BB2C912J	RD 9.1K J 1/6W		5
R406			RD14BB2C101J	RD 100 J 1/6W		59
R408			RD14BB2C471J	RD 470 J 1/6W		59
R410			RD14BB2C333J	RD 33K J 1/6W		59
R436			RD14BB2C102J	RD 1.0K J 1/6W		59
R437,438			RD14BB2C102J	RD 1.0K J 1/6W		679
R454			RS14KB3A391J	FL-PROOF RS 390 J 1W		
△ R476			RD14NB2E561J	RD 560 J 1/4W		
R603,604			RD14BB2C152J	RD 1.5K J 1/6W		679
R603,604			RD14BB2C471J	RD 470 J 1/6W		5
R611,612			RD14BB2C271J	RD 270 J 1/6W		5
R613			RD14BB2C473J	RD 47K J 1/6W		5
R614			RD14BB2C102J	RD 1.0K J 1/6W		5
R615,616			RD14BB2C103J	RD 10K J 1/6W		5
R617-620			RD14BB2C472J	RD 4.7K J 1/6W		5
R621,622			RD14BB2C133J	RD 13K J 1/6W		5
R623,624			RD14BB2C104J	RD 100K J 1/6W		5
VR1 -5			R32-0032-05	SEMI FIXED VARIABLE RESISTOR		
VR6			R32-0032-05	SEMI FIXED VARIABLE RESISTOR		59
△ K1		*	S76-0134-05	MAGNETIC RELAY	KPYIMH	
K2 -5			S76-0045-15	MAGNETIC RELAY	X	
K2 -5			S76-0045-15	MAGNETIC RELAY	TE	
K2 -5			S76-0098-05	MAGNETIC RELAY		
D1 -5			HSS104A	DIODE		
D1 -5			1SS133	DIODE		
D6			HSS104A	DIODE		59
D6			1SS133	DIODE		59
△ D11 ,12			D5SBA20F03	DIODE		
△ D11 ,12			TS6P03G-B	DIODE		
D13			HSS104A	DIODE		
D13			1SS133	DIODE		
△ D14 ,15			1SR139-400	DIODE		
D16			HSS104A	DIODE		
D16			1SS133	DIODE		
D17			MTZJ16(B)	ZENER DIODE		
D17			RD16ES(B)	ZENER DIODE		
D18			MTZJ15(B)	ZENER DIODE		
D18			RD15ES(B)	ZENER DIODE		
D19			MTZJ16(B)	ZENER DIODE		
D19			RD16ES(B)	ZENER DIODE		
D20 ,21			MTZJ6.8(B)	ZENER DIODE		

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20

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D20 ,21			RD6.8ES(B)	ZENER DIODE		
D22			MTZJ5.1(B)	ZENER DIODE		
D22			RD5.1ES(B)	ZENER DIODE		
D23			MTZJ10(B)	ZENER DIODE	KPTE	
D23			MTZJ11(B)	ZENER DIODE	YMIHX	
D23			RD10ES(B)	ZENER DIODE		
D23			RD11ES(B)	ZENER DIODE	KPTE	
D24			MTZJ10(B)	ZENER DIODE	YMIHX	
D24			MTZJ15(B)	ZENER DIODE	TE	
D24			MTZJ7.5(B)	ZENER DIODE	KP	
D24			RD10ES(B)	ZENER DIODE	YMIHX	
D24			RD15ES(B)	ZENER DIODE	TE	
D24			RD7.5ES(B)	ZENER DIODE	KP	
D25			MTZJ24(B)	ZENER DIODE	YMIHX	
D25			MTZJ30(B)	ZENER DIODE	YMIHX	
D25			RD24ES(B)	ZENER DIODE		
D25			RD30ES(B)	ZENER DIODE	KPTE	
D26			MTZJ5.1(B)	ZENER DIODE	YMHX	
D26			RD5.1ES(B)	ZENER DIODE	TE	
D27			1SS244	DIODE	TE	
D28 ,29			HSS104A	DIODE		
D28 ,29			1SS133	DIODE		
D30			HSS104A	DIODE		59
D30			1SS133	DIODE		59
D32 -35			HSS104A	DIODE		
D32 -35			1SS133	DIODE		
D51 ,52			1SS244	DIODE		
D53 ,54			HSS104A	DIODE		
D53 ,54			1SS133	DIODE		
D55 ,56			1SS244	DIODE		
D57 ,58			HSS104A	DIODE		
D57 ,58			1SS133	DIODE		
D59			1SS244	DIODE		
D60			1SS244	DIODE		
D61			HSS104A	DIODE		59
D61			1SS133	DIODE		
D63			MTZJ3.9(B)	ZENER DIODE		
D63			RD3.9ES(B)	ZENER DIODE		
D64			HSS104A	DIODE		
D64			1SS133	DIODE		
D65			MTZJ3.9(B)	ZENER DIODE		
D65			RD3.9ES(B)	ZENER DIODE		
D66			HSS104A	DIODE		
D66			1SS133	DIODE		
D67			MTZJ3.9(B)	ZENER DIODE		
D67			RD3.9ES(B)	ZENER DIODE		
D68			HSS104A	DIODE		
D68			1SS133	DIODE		
D69			MTZJ3.9(B)	ZENER DIODE		
D69			RD3.9ES(B)	ZENER DIODE		
D221			MTZJ7.5(B)	ZENER DIODE		59
D221			RD7.5ES(B)	ZENER DIODE		59
D600,601			MTZJ7.5(B)	ZENER DIODE		59
D600,601			RD7.5ES(B)	ZENER DIODE		59
D602-604			HSS104A	DIODE		

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21

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D602-604 D605-607 D605-607 IC1 IC1			1SS133 MTZJ7.5(B) RD7.5ES(B) NJM4580L NJM4580L	DIODE ZENER DIODE ZENER DIODE ANALOGUE IC ANALOGUE IC	TE	5 5 579 6
IC2 IC3 IC4 IC5 IC6			M61516FP BU4066BC NJM4565D BU4066BC NJM4580D-D	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC IC(OP AMP X2)		5 679 59 5
Q1 -4 Q5 ,6 Q7 -10 Q11 ,12 Q13 ,14			2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) TRAIT3KN TRAIT3KP	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q21 -24 Q25 ,26 Q27 -30 Q31 ,32 Q33 ,34			2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) TRAIT3KN TRAIT3KP	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q41 Q42 Q43 Q44 Q45			2SA992(F,E) 2SA992(F,E) 2SA992(F,E) 2SA992(F,E) 2SA1123(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		59 59
Q46 Q47 Q48 Q49 Q50			2SA1123(R,S) 2SC2631(R,S) 2SC2631(R,S) 2SC2631(R,S) 2SC2631(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		59 59 59 59
Q51 Q52 Q53 Q54 Q301			TRAIT3KN TRAIT3KN TRAIT3KP TRAIT3KP KTC3200	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		59 59 59
Q302 Q302 Q303 Q304 Q305	⚠		DTC113ZSA UN4219 2SC3940A(R,S) 2SB1640 UN421N	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q306 Q307 Q308 Q309-312 Q313	⚠	*	2SB1640 2SD2525 2SA992(F,E) KTC3200 UN421N	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	TE	5
Q331-335 Q336 Q337,338 Q351,352 Q351,352			2SC2878(B) 2SC2878(B) 2SC2878(B) DTC124ESA UN4212	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		59 679 59 59
Q353-357 Q358 Q359 Q360,361 Q362			2SC1845(F,E) 2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		59

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22

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q363,364 Q365 Q602-604 Q605,606 Q607			2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SC2878(B) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q608,609 Q608,609			DTC124ESA UN4212	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		5 5
DISPLAY UNIT (X14-742X-XX) VR-6050, KRF-V6060D/-S/V7060D/-S/X9060D-G(Htype)						
D734 D741-745 D746-752 D753 D754			B30-2545-05 B30-2545-05 B30-2567-05 B30-2545-05 B30-2567-05	LED(RED3(160)) LED(RED3(160)) LED(RED(80) HI-BR) LED(RED3(160)) LED(RED(80) HI-BR)		
D755			B30-2545-05	LED(RED3(160))		
C101 C103 C104 C201 C202			CC45FSL1H101J CK73GB1H103K CC73GCH1H101J CE04KW2A101M CC73GCH1H180J	CERAMIC 100PF CHIP C 0.010UF CHIP C 100PF ELECTRO 100UF CHIP C 18PF	J K J 100WV J	67
C401 C402 C403 C404-407 C408,409			CK45FE2H103P CE04KW1E222M CE04KW1E102M CK73GB1H103K CE04KW1C470M	CERAMIC 0.010UF ELECTRO 2200UF ELECTRO 1000UF CHIP C 0.010UF ELECTRO 47UF	P 25WV 25WV K 16WV	
C410 C411 C451 C452 C452			CC73GCH1H680J CC73GCH1H820J CK45FF1H103Z CQ93FMG1H104J CQ93FMG1H393J	CHIP C 68PF CHIP C 82PF CERAMIC 0.010UF MYLAR 0.10UF MYLAR 0.039UF	J J Z J J	KP TE 6 67
C452 C452 C453 C453 C453			CQ93FMG1H473J CQ93FMG1H683J CE04LW1C332M CE04LW1E332M CE04LW1E332M	MYLAR 0.047UF MYLAR 0.068UF ELECTRO 3300UF ELECTRO 3300UF ELECTRO 3300UF	J J 16WV 25WV 25WV	HX YMI KP TE YMIHX 6 6 67 6
C454 C455 C456,457 C458 C459			CE04LW1H100M CE04LW0J222M CK45FF1H103Z CE04LW1H100M CE04LW1H010M	ELECTRO 10UF ELECTRO 2200UF CERAMIC 0.010UF ELECTRO 10UF ELECTRO 1.0UF	50WV 6.3WV Z 50WV 50WV	YMI 6
C501-504 C505,506 C507,508 C509 C510			CC45FCH1H101J CK45FB1H102K CC45FCH1H101J CK45FB1H471K CC73GCH1H101J	CERAMIC 100PF CERAMIC 1000PF CERAMIC 100PF CERAMIC 470PF CHIP C 100PF	J K J K J	
C511 C601-606 C607 C608-611 C651-654			CC45FCH1H101J CC45FSL1H470J CC45FSL1H470J CE04LW1E470M CC45FSL1H470J	CERAMIC 100PF CERAMIC 47PF CERAMIC 47PF ELECTRO 47UF CERAMIC 47PF	J J J 25WV J	H H 5 5
C655,656 C657,658 C659-662 C663 C664			CC45FSL1H470J CC45FSL1H470J CC45FSL1H470J CK45FF1H103Z CE04LW1C470M	CERAMIC 47PF CERAMIC 47PF CERAMIC 47PF CERAMIC 0.010UF ELECTRO 47UF	J J J Z 16WV	H 5

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23

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C665			CK45FF1H103Z	CERAMIC 0.010UF	Z	H
C666			CE04LW1C470M	ELECTRO 47UF	16WV	H
C667			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C668			CE04LW1C470M	ELECTRO 47UF	16WV	
C669			CK45FF1H103Z	CERAMIC 0.010UF	Z	H
C670			CE04LW1C470M	ELECTRO 47UF	16WV	H
C671			CE04LW1C470M	ELECTRO 47UF	16WV	
C672			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C673			CE04LW1C470M	ELECTRO 47UF	16WV	
C674-677			CE04LW1H100M	ELECTRO 10UF	50WV	
C693			CC45FSL1H101J	CERAMIC 100PF	J	
C701			CC73GCH1H221J	CHIP C 220PF	J	
C702			CE04LW1H101M	ELECTRO 100UF	50WV	
C703,704			CC73GCH1H102J	CHIP C 1000PF	J	
C705			CC73GCH1H181J	CHIP C 180PF	J	
C741			CK73EF1E105Z	CHIP C 1.0UF	Z	
C761,762			CK73GB1H103K	CHIP C 0.010UF	K	
C763,764			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C765,766			CK73GB1H103K	CHIP C 0.010UF	K	
C777			CK45FB1H102K	CERAMIC 1000PF	K	
C778			CC45FCH1H101J	CERAMIC 100PF	J	
C779			CE04LW1A101M	ELECTRO 100UF	10WV	
C780			CC73GCH1H270J	CHIP C 27PF	J	
C791			CE04RW0J470M	ELECTRO 47UF	6.3WV	
C792			CE04LW1C220M	ELECTRO 22UF	16WV	
C793,794			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C811			CK45FF1H103Z	CERAMIC 0.010UF	Z	TE
C812,813			CC45FCH1H270J	CERAMIC 27PF	J	TE
C814			CC45FCH1H101J	CERAMIC 100PF	J	TE
C815			CE04LW1A470M	ELECTRO 47UF	10WV	TE
C816			CK45FB1H561K	CERAMIC 560PF	K	TE
C817			CK45FF1H103Z	CERAMIC 0.010UF	Z	TE
C818			CC45FSL1H271J	CERAMIC 270PF	J	TE
C819			CE04LW1H2R2M	ELECTRO 2.2UF	50WV	TE
C831			CK45FF1H103Z	CERAMIC 0.010UF	Z	YMI
C832			CE04LW1H2R2M	ELECTRO 2.2UF	50WV	YMI
C833			CK45FF1H103Z	CERAMIC 0.010UF	Z	YMI
C841			CE04EW0J102M	ELECTRO 1000UF	6.3WV	KP
C842			C90-1826-05	BACKUP-C 0.047F	5.5WV	TE
C842			C90-1826-05	BACKUP-C 0.047F	5.5WV	YMIHX
C843			CE04PW1H010M	ELECTRO 1UF	50WV	
C844			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C845			CK73GB1H103K	CHIP C 0.010UF	K	
C851			CE04LW1H100M	ELECTRO 10UF	50WV	
C852-855			CC45FSL1H221J	CERAMIC 220PF	J	
C856,857			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C858			CE04PW1A101M	ELECTRO 100UF	10WV	
C907			CK73GB1H103K	CHIP C 0.010UF	K	
C908			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C909			CK45FF1H103Z	CERAMIC 0.010UF	Z	YMI
CN1			E40-8386-05	PIN ASSY		YMI
CN2			E40-3261-05	PIN ASSY		
CN41			E40-3261-05	PIN ASSY		
CN45			E40-4245-05	PIN ASSY		
CN46			E40-4632-05	PIN ASSY		TE

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24

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CN46			E40-4632-05	PIN ASSY		YMIHX
CN47			E40-4245-05	PIN ASSY		KPHX
CN47			E40-4245-05	PIN ASSY		TE
CN48			E40-4428-05	PIN ASSY		YMI
CN49			E40-3246-05	PIN ASSY		6
CN50			E40-3251-05	PIN ASSY		
CN65			E40-3249-05	PIN ASSY		
CN67			E40-3246-05	PIN ASSY		
CN68			E40-3248-05	PIN ASSY		
CN70			E40-3261-05	PIN ASSY		
CN80			E40-3261-05	PIN ASSY		
J2			E03-0148-05	AC OUTLET		KPY
J3			E03-0149-05	AC OUTLET		E
J3			E03-0149-05	AC OUTLET		MIE
J4			E03-0310-05	AC OUTLET		T
J5			E03-0325-05	AC OUTLET		X
J20		*	E63-1251-05	PIN JACK		
J21		*	E56-0033-05	CYLINDRICAL RECEPTACLE		
J61 ,62		*	E63-1253-05	PIN JACK		
J63		*	E63-1252-05	PIN JACK		H
J65 ,66		*	E56-0040-05	CYLINDRICAL RECEPTACLE		H
J67			E56-0040-05	CYLINDRICAL RECEPTACLE		
J68			E56-0042-05	CYLINDRICAL RECEPTACLE		
P1			E23-1785-05	TERMINAL		YMI
W104			E31-0002-00	JUMPER WIRE		TE
W111			E31-0002-00	JUMPER WIRE		KP
W121			E31-0002-00	JUMPER WIRE		KP
W141			E31-0002-00	JUMPER WIRE		YMI
W202			E31-0002-00	JUMPER WIRE		H
W302,303			E31-0002-00	JUMPER WIRE		TE
W719			E31-0002-00	JUMPER WIRE		YMI
W723			E31-0002-00	JUMPER WIRE		YMI
W726			E31-0002-00	JUMPER WIRE		YMI
W730			E31-0002-00	JUMPER WIRE		YMI
W950			E31-0002-00	JUMPER WIRE		67
W960			E31-0002-00	JUMPER WIRE		KP
Δ F1			F05-4025-05	FUSE (SEMKO) (250V T4A L)		TE
Δ F1			F05-4025-05	FUSE (SEMKO) (250V T4A L)		YMIHX
Δ F2			F50-0078-05	FUSE (5X20)		KP
Δ F2			F06-1022-05	FUSE (SEMKO) (250V T1AL)		TE
Δ F2			F06-1022-05	FUSE (SEMKO) (250V T1AL)		YMI
Δ F3			F05-4025-05	FUSE (SEMKO) (250V T4A L)		TYMI
-		*	J19-6287-03	HOLDER		
CN3 ,4			J13-0075-05	FUSE CLIP		YMI
CN11,12			J13-0075-05	FUSE CLIP		
CN21,22			J13-0075-05	FUSE CLIP		TE
CN21,22			J13-0075-05	FUSE CLIP		YMI
Δ E603			J19-6288-03	HOLDER		
E701			J11-0809-05	WIRE CLAMPER		H
E702,703			J11-0808-05	WIRE CLAMPER		
E705			J11-0808-05	WIRE CLAMPER		
Δ T1			L07-2758-05	POWER TRANSFORMER		H
Δ T1			L07-2758-05	POWER TRANSFORMER		HX

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25

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ T1			L07-2761-05	POWER TRANSFORMER	TE	67
△ T1			L07-2805-05	POWER TRANSFORMER	YMI	6
△ T1			L07-2809-05	POWER TRANSFORMER	KP	6
X701			L78-0725-05	RESONATOR (8.38MHZ)		
X811			L77-2002-05	CRYSTAL RESONATOR (4.332MHZ)	TE	67
R120			RK73GB1J102J	CHIP R 1.0K J 1/16W		
R121			RD14BB2C101J	RD 100 J 1/6W	H	5
R201			RD14NB2E472J	RD 4.7K J 1/4W		
△ R410			RS14KB3D181J	FL-PROOF RS 180 J 2W		
R451			RD14BB2C134J	RD 130K J 1/6W	TE	67
R451			RD14BB2C183J	RD 18K J 1/6W	YMI	6
△ R451			RD14BB2C393J	RD 39K J 1/6W	KP	6
R453			RD14NB2E1R0J	RD 1 J 1/4W		
R454			RD14NB2E150J	RD 15 J 1/4W	YMI	6
R454			RD14NB2E270J	RD 27 J 1/4W	KPHX	
R454			RD14NB2E270J	RD 27 J 1/4W	TE	67
R457			R92-1844-05	CARBON 3.3M J 1/2W	KP	6
R458			RD14BB2E120J	RD 12 J 1/4W	YMI	6
R607			RD14BB2C104J	RD 100K J 1/6W	H	5
R610			RD14BB2C750J	RD 75 J 1/6W	H	5
R651,652			RD14BB2C104J	RD 100K J 1/6W	H	5
R653,654			RD14BB2C750J	RD 75 J 1/6W	H	5
R657,658			RD14BB2C750J	RD 75 J 1/6W	H	5
R663,664			RD14BB2C750J	RD 75 J 1/6W	H	5
△ R671			RS14KB3A180J	FL-PROOF RS 18 J 1W		
△ R674			RS14KB3A470J	FL-PROOF RS 47 J 1W		
R776			RD14NB2E100J	RD 10 J 1/4W		
R779			RK73GB1J333J	CHIP R 33K J 1/16W		
R780			RD14NB2E100J	RD 10 J 1/4W		
R782			RK73GB1J303J	CHIP R 30K J 1/16W		
R801,802			RK73GB1J331J	CHIP R 330 J 1/16W		
R803			RK73GB1J104J	CHIP R 100K J 1/16W		
R805			RK73GB1J104J	CHIP R 100K J 1/16W		
R813			RD14BB2C473J	RD 47K J 1/6W	TE	67
R814			RD14BB2C1R0J	RD 1 J 1/6W	TE	67
R832			RD14BB2C102J	RD 1.0K J 1/6W	YMI	6
R833			RD14BB2C332J	RD 3.3K J 1/6W	YMI	6
R834			RD14BB2E102J	RD 1.0K J 1/4W	YMI	6
R836			RD14BB2C101J	RD 100 J 1/6W	YMI	6
R894			RK73GB1J101J	CHIP R 100 J 1/16W		
R896-898			RK73GB1J101J	CHIP R 100 J 1/16W		
R902			RD14BB2C101J	RD 100 J 1/6W	TE	67
R910,911			RK73GB1J104J	CHIP R 100K J 1/16W		
R914			RD14BB2C104J	RD 100K J 1/6W	TE	67
R922-924			RK73GB1J101J	CHIP R 100 J 1/16W		
R926			RK73GB1J101J	CHIP R 100 J 1/16W		
R935			RK73GB1J101J	CHIP R 100 J 1/16W		
R938,939			RK73GB1J101J	CHIP R 100 J 1/16W		
R951,952			RK73GB1J104J	CHIP R 100K J 1/16W		
R967-969			RK73GB1J104J	CHIP R 100K J 1/16W		
R970			RK73GB1J153J	CHIP R 15K J 1/16W		
R971,972			RK73GB1J104J	CHIP R 100K J 1/16W		
R977			RK73GB1J123J	CHIP R 12K J 1/16W	YMI	6
R977			RK73GB1J273J	CHIP R 27K J 1/16W	TE	67
R977			RK73GB1J472J	CHIP R 4.7K J 1/16W	HX	

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26

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R993			RK73GB1J101J	CHIP R 100 J 1/16W		
△ R997			RD14NB2E1R0J	RD 1 J 1/4W		
△ K451			S76-0107-05	MAGNETIC RELAY		
△ K451			S76-0110-05	MAGNETIC RELAY		
△ K451			S76-0110-05	MAGNETIC RELAY		
△ S1			S62-0001-05	SLIDE SWITCH		
△ S2			S68-0142-05	PUSH SWITCH		
△ S2			S68-0142-05	PUSH SWITCH		
S701-725			S70-0086-05	TACT SWITCH		
S731-733			S70-0086-05	TACT SWITCH		
S761,762		*	T99-0663-05	ROTARY ENCODER		
S763			T99-0664-05	ROTARY ENCODER		
D201			MTZJ20(B)	ZENER DIODE		
D201			RD20ES(B)	ZENER DIODE		
D202			MTZJ30(B)	ZENER DIODE		
D202			RD30ES(B)	ZENER DIODE		
△ D401			D2SBA20F03	DIODE		
D451,452			HSS104A	DIODE		
D451,452			1SS133	DIODE		
D453			S1ZB20(4101)	DIODE		
D454			HSS104A	DIODE		
D454			1SS133	DIODE		
D455			RB721Q	DIODE		
D501-504			HSS104A	DIODE		
D501-504			1SS133	DIODE		
D652			HSS104A	DIODE		
D652			1SS133	DIODE		
D655,656			MTZJ5.6(B)	ZENER DIODE		
D655,656			RD5.6ES(B)	ZENER DIODE		
D776			MTZJ5.1(B)	ZENER DIODE		
D776			RD5.1ES(B)	ZENER DIODE		
△ D791			HSS104A	DIODE		
△ D791			1SS133	DIODE		
D801-806			HSS104A	DIODE		
D801-806			1SS133	DIODE		
D831			HSS104A	DIODE		
D831			1SS133	DIODE		
△ D841			RB721Q	DIODE		
D842			HSS104A	DIODE		
△ D842			1SS133	DIODE		
D843			RB721Q	DIODE		
D844			HSS104A	DIODE		
D844			1SS133	DIODE		
D846			HSS104A	DIODE		
D846			1SS133	DIODE		
D961-964			HSS104A	DIODE		
D961-964			1SS133	DIODE		
△ ED78		*	HNA-16MM36T	FLUORESCENT INDICATOR TUBE		
△ IC45			BA05T	ANALOGUE IC		
△ IC65		*	LA79510M	ANALOGUE IC		
△ IC74			BU2090	ANALOGUE IC		
△ IC78			LC75711NED	MOS-IC		
△ IC79		*	XC6202P502PR	ANALOGUE IC		

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27

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28

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IC81			BU1923	ANALOGUE IC	TE	67
IC83			S-80840ANY	ANALOGUE IC	YMI	6
IC84			S-80840ANY	ANALOGUE IC		
IC90		*	MN101C49GGH	MI-COM IC		67
IC90		*	MN101C49GGK	MI-COM IC		5
△ IC401			KIA7812API	ANALOGUE IC		
△ IC402			KIA7912PI	ANALOGUE IC		
△ Q65			2SD2525	TRANSISTOR		
△ Q66			2SB1640	TRANSISTOR		
△ Q201			2SD2012	TRANSISTOR		
Q451			2SC1740S(Q,R)	TRANSISTOR		
Q451			2SC2785(F,E)	TRANSISTOR		
Q731			DTC113ZSA	DIGITAL TRANSISTOR		
Q731			UN4219	DIGITAL TRANSISTOR		
Q776			2SC1740S(Q,R)	TRANSISTOR		
Q776			2SC2785(F,E)	TRANSISTOR		
Q777,778			DTC124ESA	DIGITAL TRANSISTOR		
Q777,778			UN4212	DIGITAL TRANSISTOR		
Q841			2SC1740S(Q,R)	TRANSISTOR		
Q841			2SC2785(F,E)	TRANSISTOR		
Q842			2SA1175(F,E)	TRANSISTOR		
Q842			2SA933AS(Q,R)	TRANSISTOR		
Q843			DTC113ZSA	DIGITAL TRANSISTOR		
Q843			UN4219	DIGITAL TRANSISTOR		
△ TH1		*	MF-R090	THERMISTOR		
A791			W02-2769-05	ELECTRIC CIRCUIT MODULE		
DISPLAY UNIT (X14-743X-XX)						
VR-6060/6070, KRF-V8060D/-S/-G/X9060D/-S/-G						
D734			B30-2545-05	LED(RED3(160))		
D741-745			B30-2545-05	LED(RED3(160))		
D746-752			B30-2567-05	LED(RED(80) HI-BR)		
D753			B30-2545-05	LED(RED3(160))		
D754			B30-2567-05	LED(RED(80) HI-BR)		
D755			B30-2545-05	LED(RED3(160))		
C101			CC45FSL1H101J	CERAMIC	100PF	J
C103			CK73GB1H103K	CHIP C	0.010UF	K
C104			CC73GCH1H101J	CHIP C	100PF	J
C201			CE04KW2A101M	ELECTRO	100UF	100WV
C202			CC73GCH1H180J	CHIP C	18PF	J
C401			CK45FE2H103P	CERAMIC	0.010UF	P
C402			CE04KW1E222M	ELECTRO	2200UF	25WV
C403			CE04KW1E102M	ELECTRO	1000UF	25WV
C404-407			CK73GB1H103K	CHIP C	0.010UF	K
C408,409			CE04KW1C470M	ELECTRO	47UF	16WV
C410			CC73GCH1H680J	CHIP C	68PF	J
C411			CC73GCH1H820J	CHIP C	82PF	J
C451			CK45FF1H103Z	CERAMIC	0.010UF	Z
C452			CQ93FMG1H104J	MYLAR	0.10UF	J
C452			CQ93FMG1H393J	MYLAR	0.039UF	J
C452			CQ93FMG1H473J	MYLAR	0.047UF	J
C452			CQ93FMG1H683J	MYLAR	0.068UF	J
C453			CE04LW1C332M	ELECTRO	3300UF	16WV
C453			CE04LW1E332M	ELECTRO	3300UF	25WV
C454			CE04LW1H100M	ELECTRO	10UF	50WV

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C455			CE04LW0J222M	ELECTRO	2200UF	6.3WV
C456,457			CK45FF1H103Z	CERAMIC	0.010UF	Z
C458			CE04LW1H100M	ELECTRO	10UF	50WV
C459			CE04LW1H010M	ELECTRO	1.0UF	50WV
C501-504			CC45FCH1H101J	CERAMIC	100PF	J
C505,506			CK45FB1H102K	CERAMIC	1000PF	K
C507,508			CC45FCH1H101J	CERAMIC	100PF	J
C509			CK45FB1H471K	CERAMIC	470PF	K
C510			CC73GCH1H101J	CHIP C	100PF	J
C511			CC45FCH1H101J	CERAMIC	100PF	J
C601-606			CC45FSL1H470J	CERAMIC	47PF	J
C607			CC45FSL1H470J	CERAMIC	47PF	J
C608-611			CE04LW1E470M	ELECTRO	47UF	25WV
C651-662			CC45FSL1H470J	CERAMIC	47PF	J
C663			CK45FF1H103Z	CERAMIC	0.010UF	Z
C664			CE04LW1C470M	ELECTRO	47UF	16WV
C665			CK45FF1H103Z	CERAMIC	0.010UF	Z
C666			CE04LW1C470M	ELECTRO	47UF	16WV
C667			CK45FF1H103Z	CERAMIC	0.010UF	Z
C668			CE04LW1C470M	ELECTRO	47UF	16WV
C669			CK45FF1H103Z	CERAMIC	0.010UF	Z
C670,671			CE04LW1C470M	ELECTRO	47UF	16WV
C672			CK45FF1H103Z	CERAMIC	0.010UF	Z
C673			CE04LW1C470M	ELECTRO	47UF	16WV
C674-677			CE04LW1H100M	ELECTRO	10UF	50WV
C693			CC45FSL1H101J	CERAMIC	100PF	J
C701			CC73GCH1H221J	CHIP C	220PF	J
C702			CE04LW1H101M	ELECTRO	100UF	50WV
C703,704			CC73GCH1H102J	CHIP C	1000PF	J
C705			CC73GCH1H181J	CHIP C	180PF	J
C741			CK73EF1E105Z	CHIP C	1.0UF	Z
C761,762			CK73GB1H103K	CHIP C	0.010UF	K
C763,764			CK45FF1H103Z	CERAMIC	0.010UF	Z
C765,766			CK73GB1H103K	CHIP C	0.010UF	K
C777			CK45FB1H102K	CERAMIC	1000PF	K
C778			CC45FCH1H101J	CERAMIC	100PF	J
C779			CE04LW1A101M	ELECTRO	100UF	10WV
C780			CC73GCH1H270J	CHIP C	27PF	J
C791			CE04RW0J470M	ELECTRO	47UF	6.3WV
C792			CE04LW1C220M	ELECTRO	22UF	16WV
C793,794			CK45FF1H103Z	CERAMIC	0.010UF	Z
C811			CK45FF1H103Z	CERAMIC	0.010UF	Z
C812,813			CC45FCH1H270J	CERAMIC	27PF	J
C814			CC45FCH1H101J	CERAMIC	100PF	J
C815			CE04LW1A470M	ELECTRO	47UF	10WV
C816			CK45FB1H561K	CERAMIC	560PF	K
C817			CK45FF1H103Z	CERAMIC	0.010UF	Z
C818			CC45FSL1H271J	CERAMIC	270PF	J
C819			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C831			CK45FF1H103Z	CERAMIC	0.010UF	Z
C832			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C833			CK45FF1H103Z	CERAMIC	0.010UF	Z
C841			CE04EW0J102M	ELECTRO	1000UF	6.3WV
C842			C90-1826-05	BACKUP-C	0.047F	5.5WV
C843			CE04PW1H010M	ELECTRO	1UF	50WV

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KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070
PARTS LIST

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25

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C844 C845 C851 C852-855 C856,857			CK45FF1H103Z CK73GB1H103K CE04LW1H100M CC45FSL1H221J CK45FF1H103Z	CERAMIC 0.010UF Z CHIP C 0.010UF K ELECTRO 10UF 50WV CERAMIC 220PF J CERAMIC 0.010UF Z		
C858 C907 C908 C909			CE04PW1A101M CK73GB1H103K CK45FF1H103Z CK73GB1H103K	ELECTRO 100UF 10WV CHIP C 0.010UF K CERAMIC 0.010UF Z CHIP C 0.010UF K	YM	
CN1 CN2 CN41 CN45 CN46			E40-8386-05 E40-3261-05 E40-3261-05 E40-4245-05 E40-4632-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY	YM	
CN47 CN48 CN49 CN50 CN65			E40-4245-05 E40-4428-05 E40-3246-05 E40-3251-05 E40-3249-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY	YMXTE	
CN67 CN68 CN70 CN80			E40-3246-05 E40-3248-05 E40-3261-05 E40-3261-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY	KPXTE	
Δ J2			E03-0148-05	AC OUTLET	KPY	
Δ J3 Δ J4 Δ J5 Δ J20 Δ J21		*	E03-0149-05 E03-0310-05 E03-0325-05 E63-1251-05 E56-0033-05	AC OUTLET AC OUTLET AC OUTLET PIN JACK CYLINDRICAL RECEPTACLE	ME T X	
J61 ,62 J63 J65 -67 W961		*	E63-1253-05 E63-1252-05 E56-0040-05 E31-0002-00	PIN JACK PIN JACK CYLINDRICAL RECEPTACLE JUMPER WIRE		5 9
Δ F1 Δ F1 Δ F2 Δ F3			F05-4025-05 F50-0078-05 F06-1022-05 F05-4025-05	FUSE (SEMKO) (250V T4A L) FUSE(5X20) FUSE (SEMKO) (250V T1AL) FUSE (SEMKO) (250V T4A L)	YMXTE KP YMXTE YM	
- CN3 ,4 CN11,12 CN21,22 E701		*	J19-6287-03 J13-0075-05 J13-0075-05 J13-0075-05 J11-0809-05	HOLDER FUSE CLIP FUSE CLIP FUSE CLIP WIRE CLAMPER	YM	
E702,703 E705			J11-0808-05 J11-0808-05	WIRE CLAMPER WIRE CLAMPER	YMXTE	
Δ T1 Δ T1 Δ T1 Δ T1 Δ X701			L07-2758-05 L07-2761-05 L07-2805-05 L07-2809-05 L78-0725-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER RESONATOR (8.38MHZ)	X TE YM KP1	
X811			L77-2002-05	CRYSTAL RESONATOR (4.332MHZ)	TE	
R120 R121 R201			RK73GB1J102J RD14BB2C101J RD14NB2E472J	CHIP R 1.0K J 1/16W RD 100 J 1/6W RD 4.7K J 1/4W		5

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30

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Δ R410 Δ R453 R454 Δ R454 Δ R457			RS14KB3D181J RD14NB2E1R0J RD14NB2E150J RD14NB2E270J R92-1844-05	FL-PROOF RS 180 J 2W RD 1 J 1/4W RD 15 J 1/4W RD 27 J 1/4W CARBON 3.3M J 1/2W	YM KPXTE KP	
Δ R458 R607 R610 Δ R671 Δ R674			RD14NB2E120J RD14BB2C104J RD14BB2C104J RS14KB3A180J RS14KB3A470J	RD 12 J 1/4W RD 100K J 1/6W RD 100K J 1/6W FL-PROOF RS 18 J 1W FL-PROOF RS 47 J 1W	YM	5 5
R776 R779 R780 R782 R801,802			RD14NB2E100J RK73GB1J333J RD14NB2E100J RK73GB1J303J RK73GB1J331J	RD 10 J 1/4W CHIP R 33K J 1/16W RD 10 J 1/4W CHIP R 30K J 1/16W CHIP R 330 J 1/16W		
R803 R805 R834 R894 R896-898			RK73GB1J104J RK73GB1J104J RD14NB2E102J RK73GB1J101J RK73GB1J101J	CHIP R 100K J 1/16W CHIP R 100K J 1/16W RD 1.0K J 1/4W CHIP R 100 J 1/16W CHIP R 100 J 1/16W	YM	
R910,911 R922-924 R926 R935 R938,939			RK73GB1J104J RK73GB1J101J RK73GB1J101J RK73GB1J101J RK73GB1J101J	CHIP R 100K J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W CHIP R 100 J 1/16W		
R951,952 R967-969 R970 R971,972 R977			RK73GB1J104J RK73GB1J104J RK73GB1J153J RK73GB1J104J RK73GB1J123J	CHIP R 100K J 1/16W CHIP R 100K J 1/16W CHIP R 15K J 1/16W CHIP R 100K J 1/16W CHIP R 12K J 1/16W	YM	
R977 R977 R993 R997 Δ W724,725			RK73GB1J273J RK73GB1J472J RK73GB1J101J RD14NB2E1R0J E31-0001-00	CHIP R 27K J 1/16W CHIP R 4.7K J 1/16W CHIP R 100 J 1/16W RD 1 J 1/4W JUMPER WIRE	TE X	
Δ K451 Δ K451 Δ S1 Δ S2 S701-725			S76-0107-05 S76-0110-05 S62-0001-05 S68-0142-05 S70-0086-05	MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH PUSH SWITCH TACT SWITCH	KP YMXTE YM YMXTE	
S731-733			S70-0086-05	TACT SWITCH		
S761,762 S763		*	T99-0663-05 T99-0664-05	ROTARY ENCODER ROTARY ENCODER		
D201 D201 D202 D202 Δ D401			MTZJ20(B) RD20ES(B) MTZJ30(B) RD30ES(B) D2SBA20F03	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
Δ D451,452 Δ D451,452 Δ D453 D454 D454			HSS104A 1SS133 S1ZB20(4101) HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE		

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KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

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31

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D455 D501-504 D501-504 D652 D652			RB721Q HSS104A 1SS133 HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE		
D655,656 D655,656 D776 D776 D791			MTZJ5.6(B) RD5.6ES(B) MTZJ5.1(B) RD5.1ES(B) HSS104A	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
D791 D801-806 D801-806 D831 D831			1SS133 HSS104A 1SS133 HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE	YM YM	
D841 D842 D842 D843 D844			RB721Q HSS104A 1SS133 RB721Q HSS104A	DIODE DIODE DIODE DIODE DIODE		
D844 D846 D846 D961-964 D961-964			1SS133 HSS104A 1SS133 HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE		
ED78 IC45 IC65 IC74 IC78		*	HNA-16MM36T BA05T LA79510M BU2090 LC75711NED	FLUORESCENT INDICATOR TUBE ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC		
IC79 IC81 IC83 IC84 IC90		*	XC6202P502PR BU1923 S-80840ANY S-80840ANY MN101C49GGH	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC MI-COM IC	TE YM	9
IC90 IC401 IC402 Q65 Q66		*	MN101C49GGK KIA7812API KIA7912PI 2SD2525 2SB1640	MI-COM IC ANALOGUE IC ANALOGUE IC TRANSISTOR TRANSISTOR		5
Q201 Q451 Q451 Q731 Q731			2SD2012 2SC1740S(Q,R) 2SC2785(F,E) DTC113ZSA UN4219	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q776 Q776 Q777,778 Q777,778 Q841			2SC1740S(Q,R) 2SC2785(F,E) DTC124ESA UN4212 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Q841 Q842 Q842 Q843 Q843			2SC2785(F,E) 2SA1175(F,E) 2SA933AS(Q,R) DTC113ZSA UN4219	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		

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32

△

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TH1		*	MF-R090	THERMISTOR		
A791			W02-2769-05	ELECTRIC CIRCUIT MODULE		
SUB CIRCUIT UNIT (X25-649X-XX)						
C101-109 C110-115 C116 C117 C118			CC45FSL1H221J CE04LW1C470M CE04LW1H220M CE04LW1C470M CE04LW1A471M	CERAMIC ELECTRO ELECTRO ELECTRO ELECTRO	220PF 47UF 22UF 47UF 470UF	J 16WV 50WV 16WV 10WV
C119 C120 C121 C122 C123			CE04LW1H220M CE04LW1C470M CE04LW1A471M CE04LW1H220M CE04LW1C470M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	22UF 47UF 470UF 22UF 47UF	50WV 16WV 10WV 50WV 16WV
C124 C125 C126 C127-129 C201			CE04LW1A471M CK45FF1H103Z CE04LW1C470M CC45FCH1H270J CE04LW1H100M	ELECTRO CERAMIC ELECTRO CERAMIC ELECTRO	470UF 0.010UF 47UF 27PF 10UF	10WV Z 16WV J 50WV
C202 C203 C204 C205,206 C207			CK45FF1H103Z CQ93FMG1H683J CK45FF1H103Z CK45FF1H103Z CE04LW0J222M	CERAMIC MYLAR CERAMIC CERAMIC ELECTRO	0.010UF 0.068UF 0.010UF 0.010UF 2200UF	Z J Z Z 6.3WV
C208 C209 C210 C211 C212,213			CE04LW0J221M CK45FF1H103Z CC45FSL1H221J CC45FSL1H101J CC45FSL1H101J	ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC	220UF 0.010UF 220PF 100PF 100PF	6.3WV Z J J J
C214,215 C216 C301-310 C311-313 C315-317			CK45FF1H103Z CE04LW1H010M CC45FSL1H221J CK45FB1H332K CC45FSL1H101J	CERAMIC ELECTRO CERAMIC CERAMIC CERAMIC	0.010UF 1.0UF 220PF 3300PF 100PF	Z 50WV J K J
C401-406 C407-412 C419 C420 C425,426			CE04KW1H220M CC45FSL1H221J CE04DW1C471M CE04KW1C101M CC45FCH1H101J	ELECTRO CERAMIC ELECTRO ELECTRO CERAMIC	22UF 220PF 470UF 100UF 100PF	50WV J 16WV 16WV J
C427-430 C431-436 C437,438 C439,440 C441,442			CC45FCH1H100D CE04KW1E470M CE04HW1H010M CE04KW1E470M CE04KW1A101M	CERAMIC ELECTRO NP-ELEC ELECTRO ELECTRO	10PF 47UF 1.0UF 47UF 100UF	D 25WV 50WV 25WV 10WV
C443-446 C447 C448 C449,450 C451			CE04KW1H220M CE04LW1H100M CE04KW2A010M CE04KW1H220M CE04KW1E221M	ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	22UF 10UF 1.0UF 22UF 220UF	50WV 50WV 100WV 50WV 25WV
C452 C453,454 C457 C458 C459			CE04KW1H220M CC45FSL1H221J CQ93FMG1H222J CC45FCH1H100D CC45FSL1H470J	ELECTRO CERAMIC MYLAR CERAMIC CERAMIC	22UF 220PF 2200PF 10PF 47PF	50WV J J D J

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33

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CN101			E40-3262-05	PIN ASSY		
CN201			E40-8531-05	FLAT CABLE CONNECTOR	KP	
CN202			E40-3251-05	PIN ASSY		
CN301			E40-8483-05	FLAT CABLE CONNECTOR		5
CN302			E40-4101-05	PIN ASSY		
CN303			E40-3248-05	PIN ASSY		5
CN304			E40-4248-05	PIN ASSY		
J101		*	E63-1249-05	PIN JACK		
J102		*	E63-1250-05	PIN JACK		
J201		*	E11-0389-05	MINIATURE PHONE JACK(3.5 STERE)	KP	5
J202			E11-0291-05	MINIATURE PHONE JACK(2P)		
J301		*	E70-0150-05	SCREW TERMINAL BOARD	KP	
J302		*	E63-1246-05	PIN JACK		5
J303		*	E63-1248-05	PIN JACK		5
W2 ,3			E31-0002-00	JUMPER WIRE		5
W5			E31-0002-00	JUMPER WIRE	KP	9
W15			E31-0002-00	JUMPER WIRE		5
W17			E31-0002-00	JUMPER WIRE		5
W26 -31			E31-0002-00	JUMPER WIRE		5
W43			E31-0002-00	JUMPER WIRE		5
W55 -64			E31-0002-00	JUMPER WIRE	YMHXTE	5
W66			E31-0002-00	JUMPER WIRE		5
L201			L40-1011-58	SMALL FIXED INDUCTOR(100UH,K)	KP	
L202			L92-0017-05	FERRITE CORE	KP	
R201			RD14BB2C102J	RD 1.0K J 1/6W	KP	5
R213,214			RD14NB2E471J	RD 470 J 1/4W	KP	
R215			RD14BB2C473J	RD 47K J 1/6W	KP	5
R216			RD14BB2C221J	RD 220 J 1/6W	KP	5
R217			RD14NB2E471J	RD 470 J 1/4W	KP	5
R301-303			RD14BB2C221J	RD 220 J 1/6W		5
R305-310			RD14BB2C221J	RD 220 J 1/6W		5
R311-320			RD14BB2C102J	RD 1.0K J 1/6W		5
R321-330			RD14BB2C104J	RD 100K J 1/6W		5
R331-340			RD14BB2C470J	RD 47 J 1/6W		5
R341,342			RD14BB2C102J	RD 1.0K J 1/6W		5
R343,344			RD14BB2C221J	RD 220 J 1/6W		5
R345-352			RD14BB2C102J	RD 1.0K J 1/6W		5
R353-360			RD14BB2C221J	RD 220 J 1/6W		5
R362			RD14BB2C221J	RD 220 J 1/6W		5
R401,402			RD14BB2C103J	RD 10K J 1/6W		5
R403-406			RD14BB2C223J	RD 22K J 1/6W		5
R407,408			RD14BB2C471J	RD 470 J 1/6W		5
R409-414			RD14BB2C472J	RD 4.7K J 1/6W		5
R415-418			RD14BB2C473J	RD 47K J 1/6W		5
R419-424			RD14BB2C220J	RD 22 J 1/6W		5
R425			RD14NB2E561J	RD 560 J 1/4W		5
R426,427			RD14BB2C102J	RD 1.0K J 1/6W		5
R430,431			RD14BB2C103J	RD 10K J 1/6W		5
R432,433			RD14BB2C102J	RD 1.0K J 1/6W		5
R434			RS14KB3A101J	FL-PROOF RS 100 J 1W		5
R435-440			RD14BB2C103J	RD 10K J 1/6W		5
R441-446			RD14BB2C474J	RD 470K J 1/6W		5
R447			RD14BB2C102J	RD 1.0K J 1/6W		5
R448			RD14BB2C103J	RD 10K J 1/6W		5

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34

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R449			RD14BB2C153J	RD 15K J 1/6W		5
R450			RD14NB2E561J	RD 560 J 1/4W		5
R451			RD14NB2E102J	RD 1.0K J 1/4W		5
R452			RS14KB3A470J	FL-PROOF RS 47 J 1W		5
R453,454			RD14BB2C223J	RD 22K J 1/6W		5
R455,456			RD14BB2C473J	RD 47K J 1/6W		5
R457			RD14BB2C103J	RD 10K J 1/6W		5
R458			RD14BB2C474J	RD 470K J 1/6W		5
R459			RD14BB2C911J	RD 910 J 1/6W		5
R460			RD14BB2C472J	RD 4.7K J 1/6W		5
R461,462			RD14BB2C220J	RD 22 J 1/6W		5
R463,464			RD14BB2C103J	RD 10K J 1/6W		5
D201,202			HSS104A	DIODE	KP	
D201,202			1SS133	DIODE	KP	
D203,204			HSS104A	DIODE	KP	5
D203,204			1SS133	DIODE	KP	
D205,206			HSS104A	DIODE	KP	
D205,206			1SS133	DIODE		
D401			MTZJ3.9(B)	ZENER DIODE	KP	5
D401			RD3.9ES(B)	ZENER DIODE		5
D402			MTZJ5.1(B)	ZENER DIODE		5
D402			RD5.1ES(B)	ZENER DIODE		5
IC101		*	NJM2284D	ANALOGUE IC		
IC102		*	BA7666FS	ANALOGUE IC	KP	
IC201			BA05T	ANALOGUE IC	KP	
IC202			TC74HC00AP	IC(2INPUT NAND GATE)		5
IC401			NJM4580D-D	IC(OP AMP X2)		5
IC402			NJM4565D-D	IC(OP AMP X2)		5
IC403			NJM4580D-D	IC(OP AMP X2)		5
IC404			NJM4565D-D	IC(OP AMP X2)		5
Q101			DTC124ESA	DIGITAL TRANSISTOR		
Q101			UN4212	DIGITAL TRANSISTOR		
Q201			DTC124ESA	DIGITAL TRANSISTOR	KP	
Q201			UN4212	DIGITAL TRANSISTOR	KP	
Q202,203			KTC3199(Y,GR)	TRANSISTOR	KP	
Q202,203			2SC1740S(Q,R)	TRANSISTOR	KP	
Q202,203			2SC2785(F,E)	TRANSISTOR	KP	
Q204			KTA1267(Y,GR)	TRANSISTOR	KP	
Q204			2SA1175(F,E)	TRANSISTOR	KP	
Q204			2SA933AS(Q,R)	TRANSISTOR	KP	
Q301-320			2SC2878(B)	TRANSISTOR		5
Q401,402			DTA124ESA	DIGITAL TRANSISTOR		5
Q401,402			UN4112	DIGITAL TRANSISTOR		5
Q403-408			2SC2878(B)	TRANSISTOR		5
Q409			DTA124ESA	DIGITAL TRANSISTOR		5
Q409			UN4112	DIGITAL TRANSISTOR		5
Q411,412			2SC2878(B)	TRANSISTOR		5

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PARTS LIST

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
		X	P	C	T	E	G	H	I
VR-6050	6	-	P	-	-	-	-	-	-
KRF-V6060D		-	-	-	-	E	-	-	-
KRF-V6060D-S		X	-	-	T	E	-	H	I
KRF-V7060D	7	-	-	-	-	E	-	-	-
KRF-V7060D-S		-	-	-	-	E	-	-	-
VR-6060	9	-	P	-	-	-	-	-	-
KRF-V8060D		-	-	-	-	E	-	-	-
KRF-V8060D-S		X	-	-	-	E	-	-	-
KRF-V8060D-G		-	-	-	-	-	-	-	-
VR-6070	5	-	P	-	-	-	-	-	-
KRF-X9060D		-	-	-	-	E	-	-	-
KRF-X9060D-S		X	-	-	T	E	-	-	-
KRF-X9060D-G		-	-	-	-	-	-	H	-
MODEL	CNT ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
		R	Y	Q	L	V	K	M	
VR-6050	6	-	-	-	-	-	K	-	-
KRF-V6060D		-	Y	-	-	-	-	-	-
KRF-V6060D-S		-	-	-	-	-	-	M	-
KRF-V7060D	7	-	-	-	-	-	-	-	-
KRF-V7060D-S		-	-	-	-	-	-	-	-
VR-6060	9	-	-	-	-	-	K	-	-
KRF-V8060D		-	-	-	-	-	-	-	-
KRF-V8060D-S		-	-	-	-	-	-	-	-
KRF-V8060D-G		-	-	-	-	-	-	M	-
VR-6070	5	-	-	-	-	-	K	-	-
KRF-X9060D		-	Y	-	-	-	-	-	-
KRF-X9060D-S		-	-	-	-	-	-	-	-
KRF-X9060D-G		-	-	-	-	-	-	M	-

SPECIFICATIONS

For the U.S.A and Canada

AUDIO section (VR-6050)

Rated power output during STEREO operation

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

Effective power output during SURROUND operation

FRONT (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)

..... 100 W + 100 W

CENTER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)

100 W

SURROUND (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven)

..... 100 W + 100 W

Total harmonic distortion 0.009 % (1 kHz, 50 W, 8 Ω)

Frequency response

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)

..... 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB

Signal to noise ratio (IHF'66)

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)

..... 95 dB

Loudness control

VOLUME at -30 dB level +6 dB (100 Hz)

Input sensitivity / impedance

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)

..... 500 mV / 47 k Ω

Output level / impedance

TAPE REC 500 mV / 1 k Ω

PRE OUT (SURROUND BACK CHANNEL) 2.5 V / 1 k Ω

PRE OUT (SUBWOOFER) 2.5 V / 1 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)

TREBLE ± 10 dB (at 10 kHz)

For other countries (except for the U.K.)

AUDIO section (KRF-V7060D/V6060D)

Effective power output during STEREO operation

1 kHz, 10 %, 8 Ω 110 W + 110 W

Rated power output during STEREO operation

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

Effective power output during SURROUND operation

FRONT (1 kHz, 10 % T.H.D. at 8 Ω one channel driven)

..... 110 W + 110 W

CENTER (1kHz, 10 % T.H.D. at 8 Ω one channel driven)

..... 110 W

SURROUND (1 kHz, 10 % T.H.D. at 8 Ω one channel driven)

..... 110 W + 110 W

Total harmonic distortion 0.009% (1 kHz, 50 W, 8 Ω)

Frequency response

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)

..... 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB

PHONO 'RIAA' response (KRF-V7060D)

..... 40 Hz ~ 20 kHz, 1.5 dB ~ -3.0 dB

Maximum input level

PHONO (MM) (KRF-V7060D) 45 mV, 1 % T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)

PHONO (MM) (KRF-V7060D) 75 dB

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)

..... 95 dB

Loudness control

VOLUME at -30 dB level +6 dB (100 Hz)

Input sensitivity / impedance

PHONO (MM) (KRF-V7060D) 6.0 mV / 47 k Ω

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)

..... 500 mV / 47 k Ω

Output level / impedance

TAPE REC 500 mV / 1 k Ω

PRE OUT (SURROUND BACK CHANNEL) 2.5 V / 1 k Ω

PRE OUT (SUBWOOFER) 2.5 V / 1 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)

TREBLE ± 10 dB (at 10 kHz)

DIGITAL AUDIO section

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

Input level / impedance / wave length

Optical (-15 dBm ~ -24 dBm), 660 nm ± 30 nm

Coaxial 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) 1 Vp-p / 75 Ω

S VIDEO inputs / outputs

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

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

FM tuner section

Tuning frequency range 87.5 MHz ~ 108.0 MHz

Usable sensitivity (MONO)

VR-6050 1.3 μ V (75 Ω) / 13.2 dBf (75 kHz dev, SINAD 30 dB)

KRF-V7060D/V6060D

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

50 dB quieting sensitivity

STEREO 28 μ V (75 Ω) / 40.2 dBf

Total harmonic distortion

MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input)

STEREO (1 kHz, 67.5 + 6.75 kHz dev) 0.7% (65 dBf input)

Signal to noise ratio

MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input)

STEREO (1 kHz, 67.5 + 6.75 kHz dev) 68 dB (65 dBf input)

Stereo separation (1 kHz) 40 dB

Selectivity (± 400 kHz) (VR-6050) 70 dB

(KRF-V7060D/V6060D) 50 dB

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

AM tuner section

Tuning frequency range

10 kHz step 530 kHz ~ 1,700 kHz (VR-6050)

10 kHz step 530 kHz ~ 1,610 kHz (KRF-V7060D/V6060D)

9 kHz step 531 kHz ~ 1,602 kHz (KRF-V7060D/V6060D)

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

..... 16 μ V / (600 μ V/m)

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

..... 50 dB (60 dB μ VEMF input)

GENERAL

Power consumption VR-6050 3 A

KRF-V7060D/V6060D 300 W

AC outlet

SWITCHED VR-6050 (total 150 W, 1.25 A max.)

KRF-V7060D/V6060D (total 90 W max.)

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

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

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

Weight (Net)

VR-6050 9.4 kg (20.7 lb)

KRF-V7060D/V6060D 10.0 kg (22.0 lb)

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.K. only

AUDIO section (KRF-V6060D)

Rated power output during STEREO operation	
DIN/IEC (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω)	100 W + 100 W
Effective power output during SURROUND operation	
FRONT (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω one channel driven)	100 W + 100 W
CENTER (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω one channel driven)	100 W
SURROUND (63 Hz ~ 12.5 kHz, 0.7 % T.H.D. at 6 Ω one channel driven)	100 W + 100 W
Total harmonic distortion	0.009 % (1 kHz, 50 W, 6 Ω)
Frequency response	
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB
PHONO 'RIAA' response	40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB
Maximum input level	
PHONO (MM)	45 mV, 1 % T.H.D. at 1 kHz
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	95 dB
Loudness control	
VOLUME at -30 dB level	+6 dB (100 Hz)
Input sensitivity / impedance	
PHONO (MM)	6.0 mV / 47 kΩ
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH)	500 mV / 47 kΩ
Output level / impedance	
TAPE REC	500 mV / 1 kΩ
PRE OUT (SURROUND BACK CHANNEL)	2.5 V / 1 kΩ
PRE OUT (SUBWOOFER)	2.5 V / 1 kΩ
Tone control	
BASS	±10 dB (at 100 Hz)
TREBLE	±10 dB (at 10 kHz)

DIGITAL AUDIO section

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

VIDEO section

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

FM tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Usable sensitivity	
MONO	1.3 μV (75 Ω) / 13.2 dBf (40 kHz dev, S/N 26 dB)
STEREO	45 μV (75 Ω) / 42.1 dBf (40 + 6 kHz dev, S/N 46 dB)
Total harmonic distortion	
MONO (1 kHz, 40 kHz dev)	0.2% (65.2 dBf input)
STEREO (1 kHz, 40 + 6 kHz dev)	0.8% (65.2 dBf input)
Signal to noise ratio (DIN weighted at 1 kHz)	
MONO	65 dB (65.2 dBf input)
STEREO	60 dB (65.2 dBf input)
Stereo separation (1 kHz)	36 dB
Selectivity (±300 kHz)	64 dB
Frequency response (30 Hz ~ 15kHz)	+0.5 dB, -3.0 dB

MW tuner section

Tuning frequency range	531 kHz ~ 1,602 kHz
Usable sensitivity (30% mod, S/N 20 dB)	16 μV / (600 μV/m)
Signal to noise ratio (400 Hz, 30% mod)	50 dB (60 dBμ VEMF input)

GENERAL

Power consumption	330 W
AC outlet	
SWITCHED	(total 90 W max.)
Dimensions	W : 440 mm (17-5/16")
	H : 159 mm (6-1/4")
	D : 392 mm (15-7/16")
Weight (Net)	9.8 kg (21.6 lb)

Notes

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

SPECIFICATIONS

For the U.S.A and Canada**AUDIO section (VR-6060)**

Rated power output during STEREO operation

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

FRONT (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
CENTER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W
SURROUND (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven)	100 W + 100 W
SURROUND BACK/SUBWOOFER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven)	100 W
Total harmonic distortion	0.009 % (1 kHz, 50 W, 8 Ω)
Frequency response	Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB
PHONO 'RIAA' response	40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB
Maximum input level	PHONO (MM) 45 mV, 1 % T.H.D. at 1 kHz
Signal to noise ratio (IHF'66)	PHONO (MM) 75 dB
	Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB
Loudness control	VOLUME at -30 dB level +6 dB (100 Hz)
Input sensitivity / impedance	PHONO (MM) 6.0 mV / 47 k Ω
	Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 500 mV / 47 k Ω
Output level / impedance	TAPE REC 500 mV / 1 k Ω
	PRE OUT (SURROUND BACK CHANNEL) 2.5 V / 1 k Ω
	PRE OUT (SUBWOOFER) 2.5 V / 1 k Ω
Tone control	BASS ± 10 dB (at 100 Hz)
	TREBLE ± 10 dB (at 10 kHz)

For other countries**AUDIO section (KRF-V8060D)**

Effective power output during STEREO operation

1 kHz, 10 %, 8 Ω	110 W + 110 W
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Rated power output during STEREO operation

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

FRONT (1 kHz, 10% T.H.D. at 8 Ω one channel driven)	110 W + 110 W
CENTER (1 kHz, 10% T.H.D. at 8 Ω one channel driven)	110 W
SURROUND (1 kHz, 10% T.H.D. at 8 Ω one channel driven)	110 W + 110 W
SURROUND BACK/SUBWOOFER (1 kHz, 10% T.H.D. at 8 Ω one channel driven)	110 W
Total harmonic distortion	0.009% (1 kHz, 50 W, 8 Ω)
Frequency response	Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB
PHONO 'RIAA' response	40 Hz ~ 20 kHz, 1.5 dB ~ -3.0 dB
Maximum input level	PHONO (MM) 45 mV, 1 % T.H.D. at 1 kHz
Signal to noise ratio (IHF'66)	PHONO (MM) 75 dB
	Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB
Loudness control	VOLUME at -30 dB level +6 dB (100 Hz)
Input sensitivity / impedance	PHONO (MM) 6.0 mV / 47 k Ω
	Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 500 mV / 47 k Ω
Output level / impedance	TAPE REC 500 mV / 1 k Ω
	PRE OUT (SURROUND BACK CHANNEL) 2.5 V / 1 k Ω
	PRE OUT (SUBWOOFER) 2.5 V / 1 k Ω
Tone control	BASS ± 10 dB (at 100 Hz)
	TREBLE ± 10 dB (at 10 kHz)

DIGITAL AUDIO section

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

VIDEO section

VIDEO inputs / outputs	VIDEO (composite) 1 Vp-p / 75 Ω
S VIDEO inputs / outputs	S VIDEO (luminance signal) 1 Vp-p / 75 Ω
	S VIDEO (chrominance signal) 0.286 Vp-p / 75 Ω
COMPONENT VIDEO inputs / outputs	COMPONENT VIDEO (luminance signal) 1 Vp-p / 75 Ω
	COMPONENT VIDEO (CB/CR-signal) ± 0.32 Vp-p / 75 Ω

FM tuner section

Tuning frequency range	87.5 MHz ~ 108.0 MHz
Usable sensitivity (MONO)	VR-6060 1.3 μ V (75 Ω) / 13.2 dBf (75 kHz dev, SINAD 30 dB)
	KRF-V8060D 1.6 μ V (75 Ω) / 15.2 dBf (75 kHz dev, SINAD 30 dB)
50 dB quieting sensitivity	STEREO 28 μ V (75 Ω) / 40.2 dBf
Total harmonic distortion	MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input)
	STEREO (1 kHz, 67.5 + 6.75 kHz dev) 0.7% (65 dBf input)
Signal to noise ratio	MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input)
	STEREO (1 kHz, 67.5 + 6.75 kHz dev) 68 dB (65 dBf input)
Stereo separation (1 kHz)	40 dB
Selectivity (± 400 kHz) (VR-6060)	70 dB
	(KRF-V8060D) 50 dB
Frequency response (30 Hz ~ 15 kHz)	+0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range	10 kHz step 530 kHz ~ 1,700 kHz (VR-6060)
	10 kHz step 530 kHz ~ 1,610 kHz (KRF-V8060D)
	9 kHz step 531 kHz ~ 1,602 kHz (KRF-V8060D)
Usable sensitivity (30% mod, S/N 20 dB)	16 μ V / (600 μ V/m)
Signal to noise ratio (30% mod, 400 Hz)	50 dB (60 dB μ VEMF input)

GENERAL

Power consumption	VR-6060 3 A
	KRF-V8060D 300 W
AC outlet	SWITCHED VR-6060 (total 150 W, 1.25 A max.)
	KRF-V8060D (total 90 W max.)
Dimensions	W : 440 mm (17-5/16")
	H : 159 mm (6-1/4")
	D : 392 mm (15-7/16")
Weight (Net)	VR-6060 9.4 kg (20.7 lb)
	KRF-V8060D 10.0 kg (22.0 lb)

Notes

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

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.S.A and Canada

AUDIO section (VR-6070)

Rated power output during STEREO operation

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

Effective power output during SURROUND operation

FRONT (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) 100 W + 100 W
CENTER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) 100 W
SURROUND (20 Hz ~ 20 kHz, 0.7% T.H.D. at 8 Ω one channel driven) 100 W + 100 W
SURROUND BACK/SUBWOOFER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) 100 W

Total harmonic distortion 0.009% (1 kHz, 50 W, 8 Ω)
Frequency response

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB

PHONO 'RIAA' response 40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB
Maximum input level

PHONO (MM) 45 mV, 1% T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)

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

Loudness control

VOLUME at -30 dB level +6 dB (100 Hz)

Input sensitivity / impedance

PHONO (MM) 4.0 mV / 47 k Ω
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 320 mV / 47 k Ω

Output level / impedance

TAPE REC 320 mV / 1 k Ω
PRE OUT (FRONT,CENTER,SURROUND) 1 V / 500 Ω
PRE OUT (SURROUND BACK) 1 V / 500 Ω
PRE OUT (SUBWOOFER) 1 V / 500 Ω

Tone control

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

For other countries (except for the U.K.)

AUDIO section (KRF-X9060D)

Effective power output during STEREO operation

1 kHz, 10 %, 8 Ω 130 W + 130 W

Rated power output during STEREO operation

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

Effective power output during SURROUND operation

FRONT (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) 130 W + 130 W
CENTER (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) 130 W
SURROUND (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) 130 W + 130 W
SURROUND BACK/SUBWOOFER (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) 130 W

Total harmonic distortion 0.009% (1 kHz, 50 W, 8 Ω)
Frequency response

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB

PHONO 'RIAA' response 40 Hz ~ 20 kHz, 1.5 dB ~ -3.0 dB
Maximum input level

PHONO (MM) 45 mV, 1 % T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)

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

Loudness control

VOLUME at -30 dB level +6 dB (100 Hz)

Input sensitivity / impedance

PHONO (MM) 4.0 mV / 47 k Ω
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 320 mV / 47 k Ω

Output level / impedance

TAPE REC 320 mV / 1 k Ω
PRE OUT (FRONT,CENTER,SURROUND) 1 V / 500 Ω
PRE OUT (SURROUND BACK) 1 V / 500 Ω
PRE OUT (SUBWOOFER) 1 V / 500 Ω

Tone control

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

DIGITAL AUDIO section

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

Input level / impedance / wave length

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

Output level / impedance / wave length

Optical (-21 dBm ~ -15 dBm), 660 nm ± 30 nm

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) 1 Vp-p / 75 Ω

S VIDEO inputs / outputs

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

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

COMPONENT VIDEO inputs / outputs

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

COMPONENT VIDEO (CB/CR-signal) ± 0.32 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO)

VR-6070

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

KRF-X9060D

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

50 dB quieting sensitivity

STEREO 28 μ V (75 Ω) / 40.2 dBf

Total harmonic distortion

MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input)

STEREO (1 kHz, 67.5 + 6.75 kHz dev) 0.7% (65 dBf input)

Signal to noise ratio

MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input)

STEREO (1 kHz, 67.5 + 6.75 kHz dev) 68 dB (65 dBf input)

Stereo separation (1 kHz)

..... 40 dB

Selectivity (± 400 kHz) (VR-6070)

..... 70 dB

(KRF-X9060D) 50 dB

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

AM tuner section

Tuning frequency range

10 kHz step 530 kHz ~ 1,700 kHz (VR-6070)

10 kHz step 530 kHz ~ 1,610 kHz (KRF-X9060D)

9 kHz step 531 kHz ~ 1,602 kHz (KRF-X9060D)

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

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

..... 50 dB (60 dB μ VEMF input)

GENERAL

Power consumption VR-6070 3 A
KRF-X9060D 300 W

AC outlet

SWITCHED VR-6070 (total 150 W, 1.25 A max.)
KRF-X9060D (total 90 W max.)

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

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

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

Weight (Net)

VR-6070 9.4 kg (20.7 lb)

KRF-X9060D 10.0 kg (22.0 lb)

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.K. only

AUDIO section (KRF-X9060D)

Rated power output during STEREO operation
DIN/IEC (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω) 100 W + 100 W

Effective power output during SURROUND operation
FRONT (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) 100 W + 100 W
CENTER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) 100 W
SURROUND (20 Hz ~ 20 kHz, 0.7% T.H.D. at 6 Ω one channel driven) 100 W + 100 W
SURROUND BACK/SUBWOOFER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) 100 W

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

Frequency response
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB

PHONO 'RIAA' response 40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB

Maximum input level
PHONO (MM) 45 mV, 1% T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)
PHONO (MM) 75 dB
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB

Loudness control
VOLUME at -30 dB level +6 dB (100 Hz)

Input sensitivity / impedance
PHONO (MM) 4.0 mV / 47 k Ω
Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 320 mV / 47 k Ω

Output level / impedance
TAPE REC 320 mV / 1 k Ω
PRE OUT (FRONT,CENTER,SURROUND) 1 V / 500 Ω
PRE OUT (SURROUND BACK) 1 V / 500 Ω
PRE OUT (SUBWOOFER) 1 V / 500 Ω

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

DIGITAL AUDIO section

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

Input level / impedance / wave length
Optical (-15 dBm ~ -24 dBm), 660 nm ± 30 nm
Coaxial 0.5 Vp-p / 75 Ω

Output level / impedance / wave length
Optical (-21 dBm ~ -15 dBm), 660 nm ± 30 nm

Notes

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

VIDEO section

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

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

COMPONENT VIDEO inputs / outputs
COMPONENT VIDEO (luminance signal) 1 Vp-p / 75 Ω
COMPONENT VIDEO (CB/CR-signal) ± 0.32 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity
MONO 1.3 μ V (75 Ω) / 13.2 dBf (40 kHz dev, S/N 26 dB)
STEREO 45 μ V (75 Ω) / 42.1 dBf (40 + 6 kHz dev, S/N 46 dB)

Total harmonic distortion
MONO (1 kHz, 40 kHz dev) 0.2% (65.2 dBf input)
STEREO (1 kHz, 40 + 6 kHz dev) 0.8% (65.2 dBf input)

Signal to noise ratio (DIN weighted at 1 kHz)
MONO 65 dB (65.2 dBf input)
STEREO 60 dB (65.2 dBf input)

Stereo separation (1 kHz) 36 dB

Selectivity (± 300 kHz) 64 dB

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

MW tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

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

Signal to noise ratio (400 Hz, 30% mod)
..... 50 dB (60 dB μ VEMF input)

GENERAL

Power consumption 330 W

AC outlet
SWITCHED (total 90 W max.)

Dimensions W : 440 mm (17-5/16")
H : 159 mm (6-1/4")
D : 392 mm (15-7/16")

Weight (Net) 9.8 kg (21.6 lb)

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