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KRF-V7030D/V8030D/VR-407/409

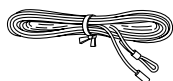
CONTENTS / ACCESSORIES

Contents

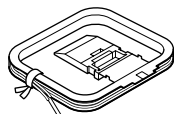
CONTENTS / ACCESSORIES	2	SCHEMATIC DIAGRAM	17
BLOCK DIAGRAM	3	EXPLODED VIEW	37
CIRCUIT DESCRIPTION	4	PARTS LIST	38
ADJUSTMENT	11	SPECIFICATIONS	51
PC BOARD	12		

Accessories

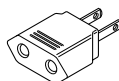
FM indoor antenna (1)
(T90-0836-05)



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

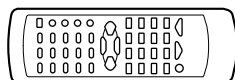


*AC plug adaptor (1)
(E03-0115-05)

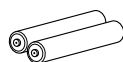


* Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary.)

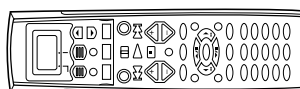
Remote control unit (1)
RC-R0609/R0610



Batteries (R6/AA) (2)



Remote control unit (1)
RC-R0808/0809



Batteries (R6/AA) (2)



Model name vs remote controller

MODEL	Destinations	Remote Controller		
		Parts number	Model name	Battery cover
VR-407	K	A70-1330-05	RC-R0609	A09-1178-08
VR-407	P	A70-1330-05	RC-R0609	A09-1178-08
KRF-V7030D	Y	A70-1330-05	RC-R0609	A09-1178-08
KRF-V7030D-S	M	A70-1330-05	RC-R0609	A09-1178-08
KRF-V7030D-S	I	A70-1330-05	RC-R0609	A09-1178-08
KRF-V7030D-S	X	A70-1330-05	RC-R0609	A09-1178-08
VR-407-S	K1	A70-1330-05	RC-R0609	A09-1178-08
VR-409	K	A70-1315-05	RC-R0809	A09-1166-08
VR-409	P	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D	Y	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D-S	M	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D-S	I	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D-S	X	A70-1315-05	RC-R0809	A09-1166-08
KRF-V8030D	E	A70-1345-05	RC-R0808	A09-1166-08
KRF-V7030D	E1	A70-1331-05	RC-R0610	A09-1178-08
KRF-V7030D	T	A70-1331-05	RC-R0610	A09-1178-08

Cautions

Resetting the Microcomputer

If 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.

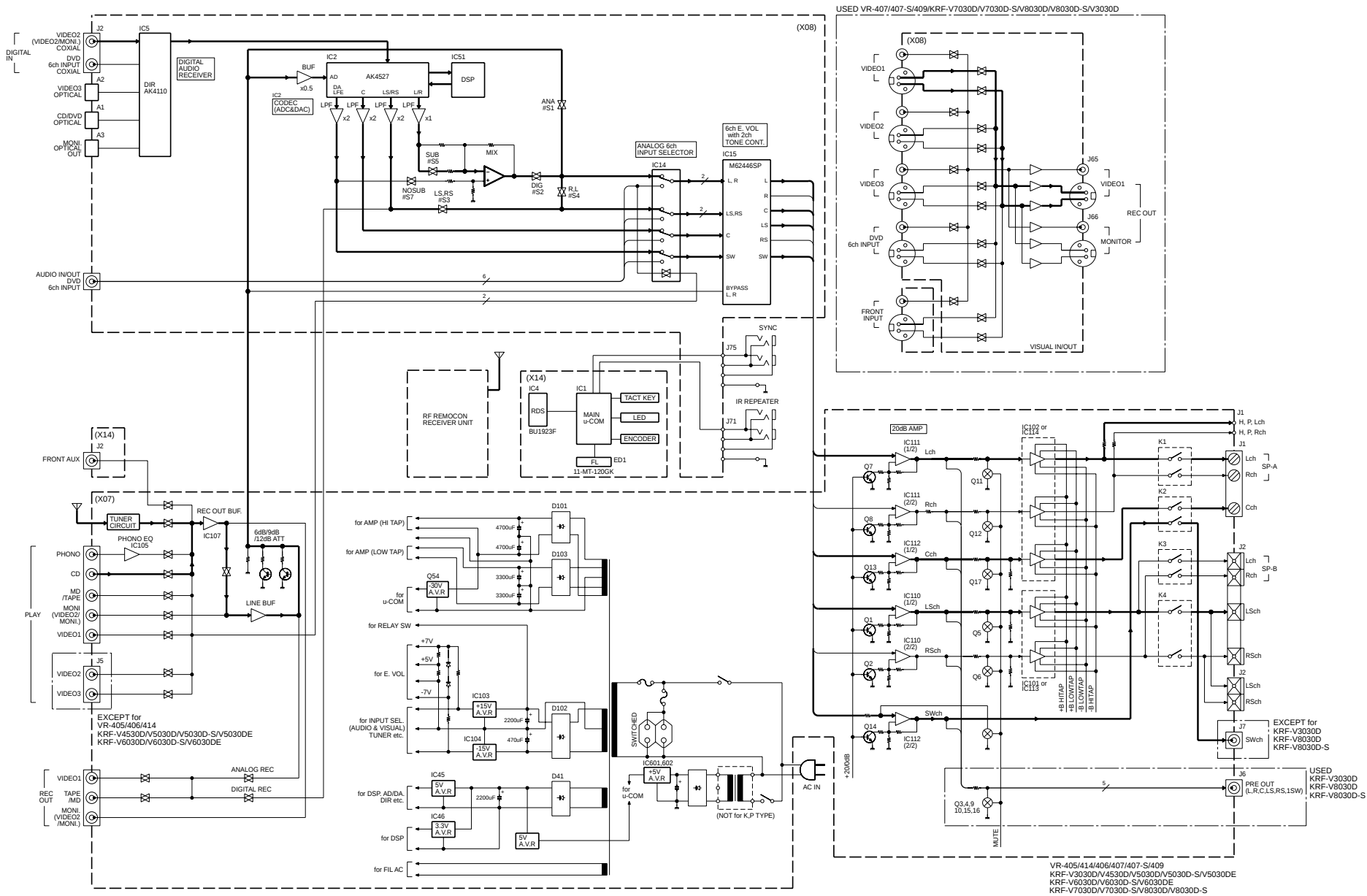
For U.S.A. and Canada

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

For other countries

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

BLOCK DIAGRAM



KRF-V7030D/V8030D/VR-407/409

CIRCUIT DESCRIPTION

This unit works backup by microprocessor if power is off. The microprocessor carries out the power-off-checking by 1ms. It sets up the initialized data if the backup data is destroyed. Also plug in and out the power cord from the outlet with pressing the power switch for initialization.

1. Backupted Data

A) Amp

Power on/off
Selector
Device preset
Video output
Speaker A relay on/off
Speaker B relay on/off
Volume level
Bass, Treble level
Input level(every inputs)
Subwoofer yes/no
Dimmer level

Monitor no/off

MD/TAPE mode

Video2/Monitor mode

b) Surround function

Listen mode(input:analog/PCM only)

Speaker setup

Distance(how far)

Left, Right, Center level

Surround level

Subwoofer level

Input mode(CD,Video2/3)

Midnight on/off(CD,Video2,3)

C) Tuner

Band

Preset channels

Receiving frequency

Auto/manual

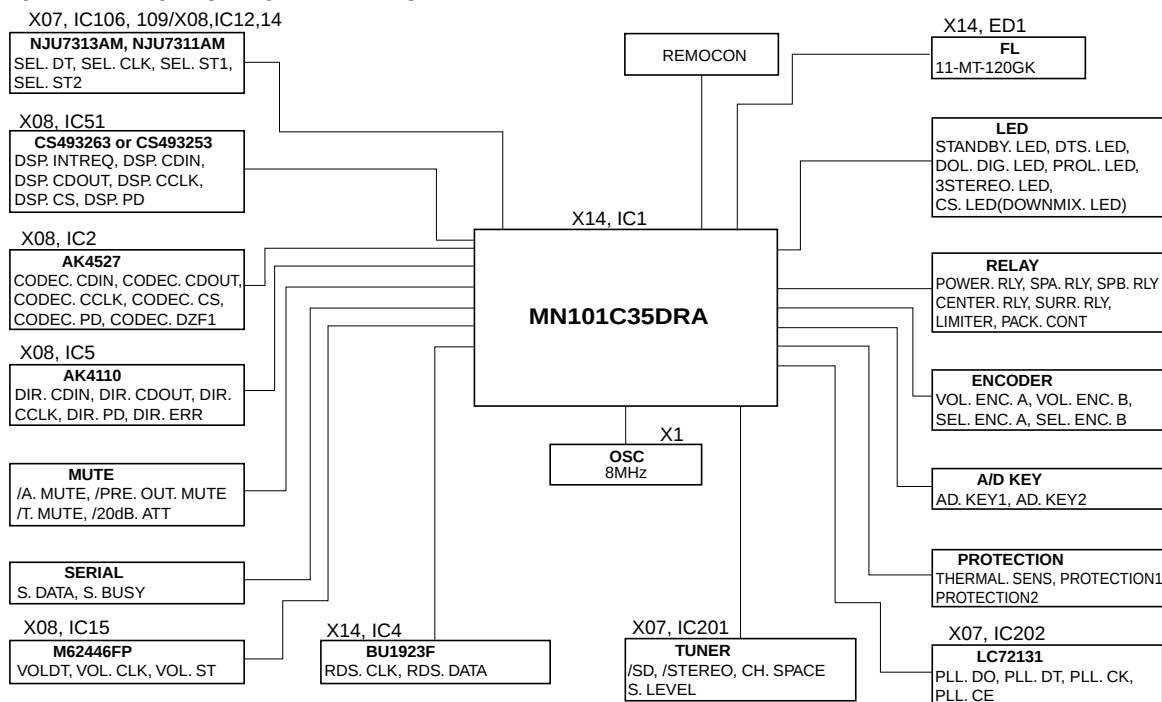
2. Condition by the destination or model

(0 : Pull down, 1 : Pull up)

TYPE	BAND	Reception frequency	Channel space	IF	PLL standard frequency	Diode			
						DSW3	DSW2	DSW1	DSW0
K1 1700	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz				
K2 1610	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	1
	AM	530kHz~1610kHz	10kHz	+450kHz	10kHz				
E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	0	1	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
E3 RDS	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	1	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
M	K2/E1 is switched with only the setting of DSW1 (DSW1 = 0 : K2 type, 1 : E1 type)					0	0	X	1

3. Main microprocessor: X14,IC1(MN101C35DRA)

3-1 Microprocessor periphery block diagram



CIRCUIT DESCRIPTION

3-2 Pin description

Pin No.	Pin Name	I/O	Description
1	S. DATA	I/O	Serial data signal.
2	S.BUS	I/O	Serial busy signal.
3	SEL. ST1	O	Strobe output to input selector (IC106).
4	SEL/VOL/PLL DT	O	Data output to selector,volume and PLL IC.
5	SEL/VOL/PLL CLK	O	Clock output to selector,volume and PLL IC.
6	SEL. ST2	O	Strobe 2 output to input selector (IC109).
7	PLL. CE	O	PLL chip enable.
8	Vdd (+5v)	-	Power supply.
9	OSC OUT	O	8MHz clock output.
10	OSC IN	I	8MHz clock input.
11	Vss	-	Connected to ground.
12	X IN	-	Connected to ground.
13	X OUT	-	No used.
14	MMCD	-	Connected to ground.
15	Vref-	-	Connected to ground.
16,17	KEY2,KEY1	I	Input terminal of key1 and key2.
18	MODEL TYPE	I	Discrimination port of models.
19	TH. SENS	I	No used.
20	PROTECT	I	Detection port of protection signal 1.
21	PROTECT2	I	Detection port of protection signal 2.
22	S.LEVEL/CH SPACE	I	RDS S level and channel space changeover.
23	PLL DO	I	RDS PLL data signal input.
24	Vref+	-	Reference voltage of AD converter..
25	CE	I	Chip enable.
26	RESET	I	Reset signal input.
27	T. MUTE	O	Muting signal output to tuner.
28	RF ST	O	CE signal output of RF receiver IC.
29	RF DT	O	Data signal output of RF receiver IC.
30	RF CLK	O	Clock signal output of RF receiver IC.
31	VOL.ST	O	Latch output of electric volume.
32	DSP INTREQ	I/O	Detection port of DSP INTREQ.
33	DTS DET	I	Detection port of DTS data.
34	REMOCON	I	Remote control signal input.
35	DIR ERR	I	Detection port of DIR error signal.
36	DZF	I	Detection port of CODEC zero input.
37	RDS.CLK	I	RDS clock input.
38	RDS.DAT/CE2	I	RDS data input./u-COM chip enable 2.
39	DSP/DIR/CORDEC CDIN	O	Serial data output.
40	DSP/DIR/CDOUT	I	Serial data input.
41	DSP/DIR/CORDEC CCLK	O	Clock output to IC2, IC5 and IC51on X08.
42	DSP CS	O	DSP chip select.
43	DSP PD	O	DSP power down.
44	DIR CODEC CS	O	CODEC chip select.
45	DIR CODEC PD	O	DIR CODEC power down.
46	NO USE	-	No used.
47-57	1G-11G	O	FL grid control(1G-11G).
58-74	P1-P17	O	FL segment control(P1-P17).
75	PACK CONT.	O	Power pack control.
76	LIMMITER	O	Control port of A class power supply.
77	REAR RE	O	Relay control terminal of surround speaker.
78	CENTER RE	O	Relay control terminal of center speaker.
79	FB RE	O	Relay control terminal of front B speaker.
80	FA RE	O	Relay control terminal of front A speaker.

KRF-V7030D/V8030D/VR-407/409

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description
81	POWER RE	O	Power relay control.
82	CS5. 1(DOWN MIX)LED	O	Control terminal of CS5.1(DOWN MIX) LED.
83	3 STEREO LED	O	Control terminal of 3 STEREO LED.
84	DTS LED	O	Control terminal of DTS LED.
85	DOLBY DIGITAL LED	O	Control terminal of DOLBY DIGITAL LED.
86	PROLOGIC LED	O	Control terminal of PROLOGIC LED.
87	STANDBY LED	O	Control terminal of STANDBY LED.
88	PRE OUT MUTE	O	Muting control terminal of pre out.
89	20dB ATT	O	20dB attenuation(volume) control terminal.
90	A.MUTE	O	Audio muting signal output.
91	ABOOT	O	EPROM CS.
92	MULTI. ENC CW	I	Multi cont. encoder signal input(clockwise).
93	MULTI. ENC CCW	I	Multi cont. encoder signal input(counterclockwise).
94	SEL. ENC CW	I	Selector encoder signal input(clockwise).
95	SEL. ENC CCW	I	Selector encoder signal input(counterclockwise).
96	VOL. ENC CW	I	Volume encoder signal input(clockwise).
97	VOL. ENC CCW	I	Volume encoder signal input(counterclockwise).
98	STEREO	I	Stereo (tuner) signal input.
99	SD	I	Tuner (SD)detector input.
100	Vpp(-30V)	-	FL power supply(-35V).

3-3 SW VS VOLTAGE

IC1(X14) MICROPROCESSOR:MN101C35DRA

VOLTAGE	AD VALUE	KEY1(#16)	KEY2(#17)
5.0V	255		
		ON/STANDBY	KEY OFF
4.5V	230		
		DIMMER	MEMORY
4.0V	205		
		INPUT MODE	AUTO
3.4V	174		
		SETUP	BAND
2.8V	143		
		MONITOR	SOUND
2.1V	108		
		SP.B(MUTE)	LISTEN MODE
1.4V	72		
		SP.A(SP ON/OFF)	SOURCE DIRECT
0.8V	41		
		KEY OFF	KEY OFF
0.0V	0		

KRF-V7030D/V8030D/VR-407/409

CIRCUIT DESCRIPTION

3-4 Switch control table

3-4-1 IC106(X07) INPUT/REC OUT SELECTOR:NJU7313AM

SW#	L-ch pin#	R-ch pin#	Function	INPUT SELECTOR								MODE		TAPE MON		ATT.		
				TUNER	PHONO	CD	TAPE/MD	VIDEO1	VIDEO2	VIDEO3	FRONT AUX	ANALOG	DIGITAL	ON	OFF	ATT1 (-6dB)	ATT2 (-3dB)	OFF
S1	27	2	TUNER	1	0	0	0	0	0	0	0							
S2	26	3	PHONO	0	1	0	0	0	0	0	0							
S3	25	4	CD	0	0	1	0	0	0	0	0							
S4	24	5	TAPE/MD	0	0	0	1	0	0	0	0							
S5	22	7	TAPE/MD REC OUT	1	1	1	0	1	1	1	1							
S6	21	8	VIDEO1 REC OUT	1	1	1	1	0	1	1	1							
S7	19	10	ANALOG									1	0					
S8	18	11	DIGITAL									0	1					

IC109(X07) INPUT/ATT. SELECTOR:NJU7313AM

S1	27	2	VIDEO1	0	0	0	0	1	0	0	0							
S2	26	3	VIDEO2	0	0	0	0	0	1	0	0							
S3	25	4	VIDEO3	0	0	0	0	0	0	1	0							
S4	24	5	FRONT AUX	0	0	0	0	0	0	0	1							
S5	20	9	LINE											0	1			
S6	21	8	MONITOR											1	0			
S7	19	10	ATT1													1	0	0
S8	18	11	ATT2													0	1	0

3-4-2 ANALOG 6CH INPUT SELECTOR

IC14(X08) ANALOG 6-CH INPUT SELECTOR: NJU7311AM

PORT	PIN#	FUNCTION		SELECTOR		
				6-CH INPUT	OTHERS	TAPE2
LS1	3	CENTER	OTHERS	0	1	1
LS2	2		6-CH INPUT	1	0	0
LS3	5	SURROUND L-CH	OTHERS	0	1	1
LS4	6		6-CH INPUT	1	0	0
LS5	9	FRONT L-CH	OTHERS	0	1	1
LS6	8		6-CH INPUT	1	0	0
LS7	11	REC OUT SW L FOR 6-CH INPUT		1	0	1
RS1	28	SUBWOOFER	OTHERS	0	1	1
RS2	29		6-CH INPUT	1	0	0
RS3	25	SURROUND R-CH	OTHERS	0	1	1
RS4	26		6-CH INPUT	1	0	0
RS5	22	FRONT R-CH	OTHERS	0	1	1
RS6	23		6-CH INPUT	1	0	0
RS7	20	REC OUT SW R FOR 6-CH INPUT		1	0	1

3-4-3 CONFIGURATION SELECTOR

IC12(X08) CONFIGURATION SELECTOR: NJU7311AM

SW#	L-ch pin#	R-ch pin#	Function	MODE		OUTPUT		CONFIGURATION	
				SURROUND	STEREO	DSP	ANALOG	SW OFF	SW ON
S1	2	29	SURROUND	1	0				
S2	3	28	STEREO	0	1				
S3	5	26	DIGITAL			1	0		
S4	6	25	ANALOG			0	1		
S5									
S6									
S7		11/20	CONFIG.					1	0

KRF-V7030D/V8030D/VR-407/409

CIRCUIT DESCRIPTION

3-4-4 DESTINATION

		VR-409						VR-407				VR-406				VR-405/VR-414			
		KRF-V8030D						KRF-V7030D				KRF-V6030D				KRF-V5030D			
PORT#	PORT NAME	K/P	E/T	M/V/I/Y	X	J	K/P	E/T	M/V/I/Y	X	K/P	E/T	M/V/I/Y	X	K/P	E/T	M/V/I/Y	X	
67	D25	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	
66	D26	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
65	D27	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	
64	D28	0	1	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	
63	D29	0	0	0	1	1	0	0	0	1	0	0	0	1	0	0	0	1	
62	D30	0	1	0	0	1	0	1	0	0	0	1	0	0	0	1	0	0	

3-4-5 Listen Mode

Mode	DTS	Dolby Digital	Pro Logic	3 Stereo	DSP	CS	Stereo
DTS	yes						yes
Dolby Digital (no2-ch)		yes					yes
Dolby Digital (2-ch)			yes	yes			yes
Pro Logic			yes	yes			yes
PCM			yes	yes	yes	yes	yes

Note: Auto Mode function is not change after setting listen mode

3-4-6 MODEL vs FEATURE

Function	KRF-V3030D	VR-409	VR-407	VR-406 (except K,P)	VR-406(K,P)	VR-405 (except K,P)	VR-405(K,P)
DTS	yes	yes	yes	no	no	no	no
CS	yes	yes	no	no	no	no	no
6ch input	yes	yes	yes	yes	yes	yes	no
Speaker B	yes	yes	yes	yes	yes	mute	mute
Multi Control	Encoder	Encoder	Encoder	Tact	Tact	Tact	Tact
Monitor	yes(on/off)	yes(on/off)	yes(on/off)	VIDEO2/MONI	VIDEO2/MONI	VIDEO2/MONI	VIDEO2/MONI
AV AUX	yes	yes	yes	no	AUX	no	AUX
PHONO	yes	yes	yes	yes	no	yes	no
Remocon	RF	Preset	Preset	Normal	Normal	Normal	Normal
Diode SW	D1	D2	D3	D4	D5	D6	D7

KRF-V7030D/V8030D/VR-407/409

CIRCUIT DESCRIPTION

3-4-7 Speaker Setup

Subwoofer	yes								
Front SP.	Large								
Center SP.	Large			Normal			no		
Surround SP.	Large	Normal	no	-	Normal(yes)	no	-	Normal(yes)	no
Center Mode (Pro Logic)	Wide	Wide	-	-	Normal	-	-	Phantom	-

Subwoofer	yes								
Front SP.	Normal								
Center SP.	-			Normal(yes)			no		
Surround SP.	-	-	-	-	Normal(yes)	no	-	Normal(yes)	no
Center Mode (Pro Logic)	-	-	-	-	Normal	-	-	Phantom	-

Subwoofer	no								
Front SP.	Large								
Center SP.	Large			Normal			no		
Surround SP.	Large	Normal	no	-	Normal(yes)	no	-	Normal(yes)	no
Center Mode (Pro Logic)	Wide	Wide	-	-	Normal	-	-	Phantom	-

4. Test mode specification

1. How to set up the test mode.

Test mode	How to set up.
Normal test mode	BAND key+AC-ON

2. How to cancel the test mode.

- TEST MODE is initialized by cutting off the power supply.
- Power off is initialization can't be set up. Power off cancels only the test mode.

3. How to set up the initialization of the set.

An initialization movement is done, and FL indication is erased when AC is turned on with pushing POWER key of set.

4. A key movement during the all LCDs lighting.

4-1 A setup of Rf receiving frequency one touch. (only VR-410)

Operation key	DISPLAY	Function
SOUND key	Normal indication	RF frequency indication is outputted together in the FL indication when the establishment of the RF receiving frequency is made 411.3MHz. (test mode is not cancel it.)
LISTEN MODE key	Normal indication	RF frequency indication is outputted together in the FL indication when the establishment of the RF receiving frequency is made 414.3MHz. (test mode is not cancel it.)
SOURCE DIRECT key	Normal indication	RF frequency indication is outputted together in the FL indication when the establishment of the RF receiving frequency is made 417.3MHz. (test mode is not cancel it.)

CIRCUIT DESCRIPTION

4-2 S LEVEL indication(only E/T TYPE)

Operation key	DISPLAY	Function
MEMORY key Cyclic function	ATT_ON_HEX DATA	RF ATT ON
	↓ The signal level of tuner	
	ATT_ON_HEX DATA	RF ATT OFF
	↓ The signal level of tuner	
	Normal indication	Normal function

4-3 CHANNEL SPACE SW(50kHz/100kHz) indication(only M/C/Y/I/V TYPE)

When SPEAKERS A key is pushed, it is checked, and the condition of CHANNEL SPACE SW of the TUNER circuit board is indicated with EON of the FL indication and TI.VOL.

(It is made to indication of CHANNEL SPACE SW at that time at the time of POWER supply on in FL)

Operation key	DISPLAY	Function
SPEAKERS B key Cyclic function	It turns on EON indication.	When CHANNEL SPACE SW is 50kHz, it turns on EON.
	It turns on TI.VOL indication.	When CHANNEL SPACE SW is 100kHz, it turns on TI.VOL.

5. TEST TONE easy function

The key movement when selector is DVD.

Operation key	DISPLAY	FUNCTION
SPEAKERS A key	Normal indication	TEST TONE ON ← → TEST TONE OFF The speaker output of each ch is mode one second.

6. A release of TEST MODE

The Key movement when selector is DVD.

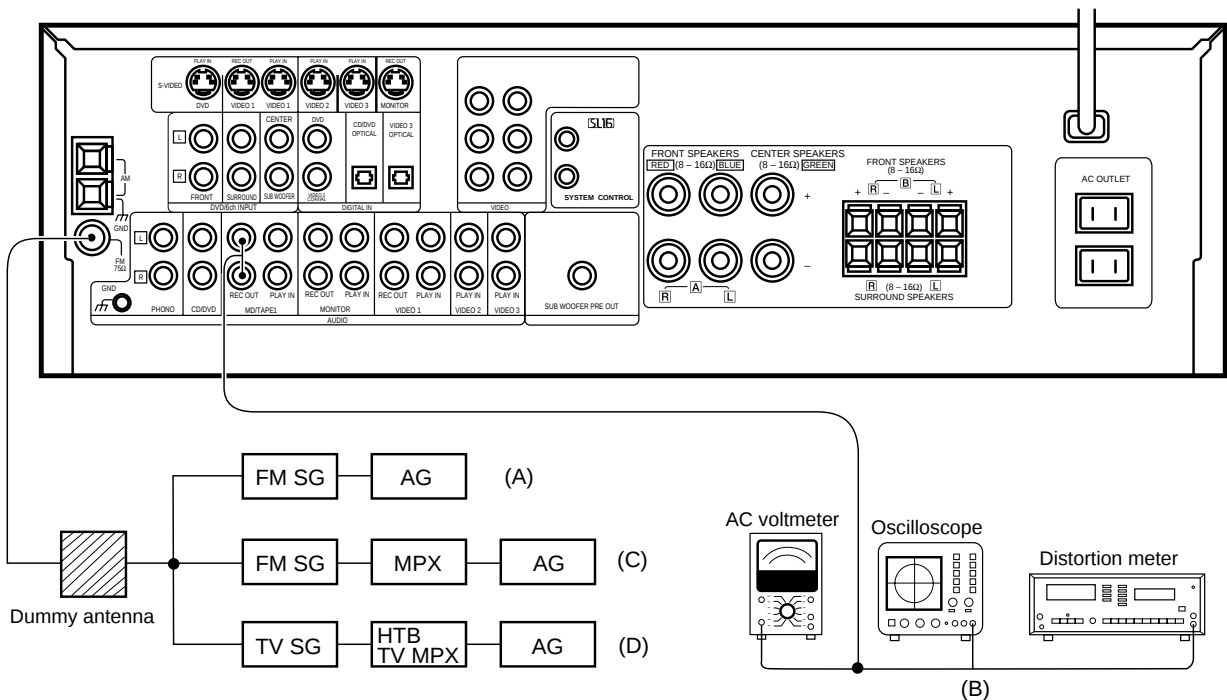
Operation key	DISPLAY	FUNCTION
SPEAKERS B key	Normal indication	TEST MODE is canceled. It doesn't need to initialization.

KRF-V7030D/V8030D/VR-407/409

ADJUSTMENT

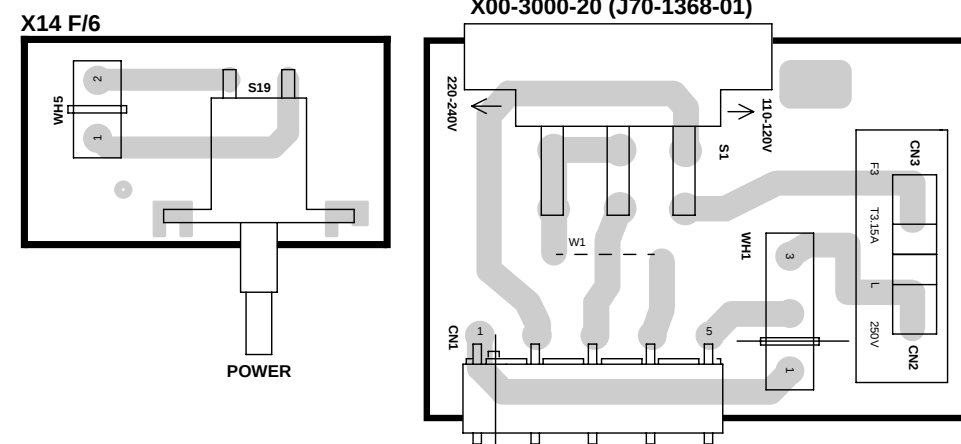
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION : EXCEPT E,T type SELECTOR : FM							
1	DISCRIMINATOR (K,P only)	(A) 98.0MHz 1kHz, ±75kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	98.0MHz	L4 (X07)	0V	
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±75kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	
FM SECTION : E,T type only SELECTOR : FM ※ Adjust NO.1 and NO.2 repeat.							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X07)	MONO 98.0MHz	L4 (X07)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X07)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (FRONT END : A1)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 29.2dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (X07)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	

SYSTEM CONNECTIONS

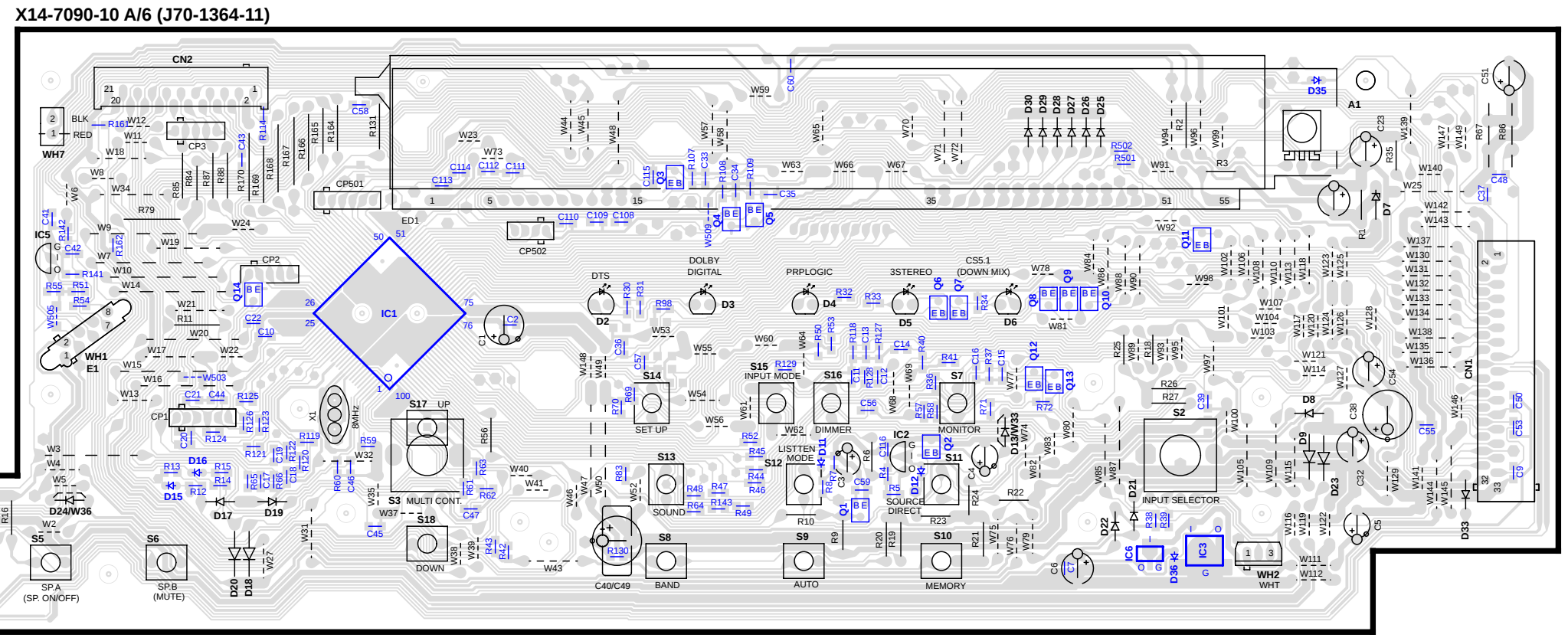
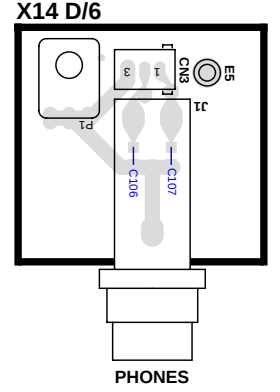
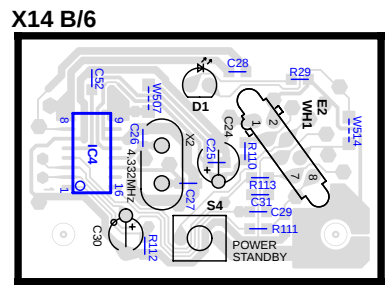
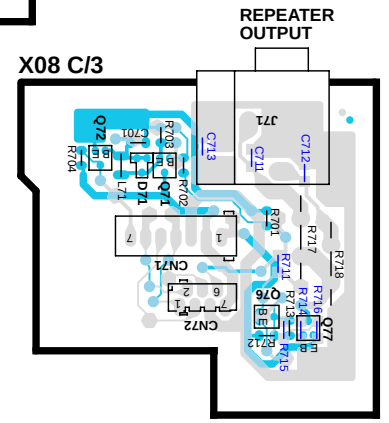
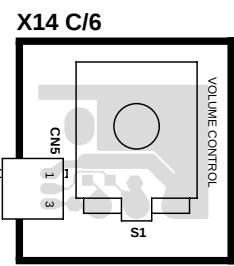
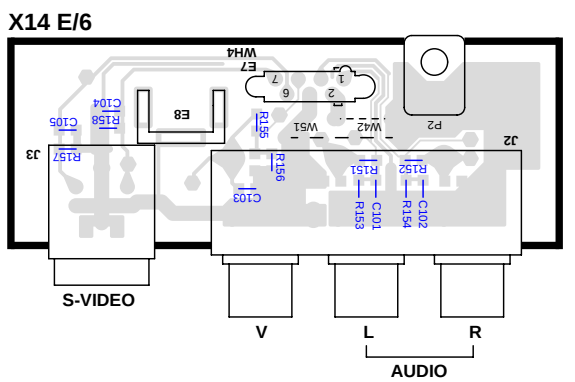
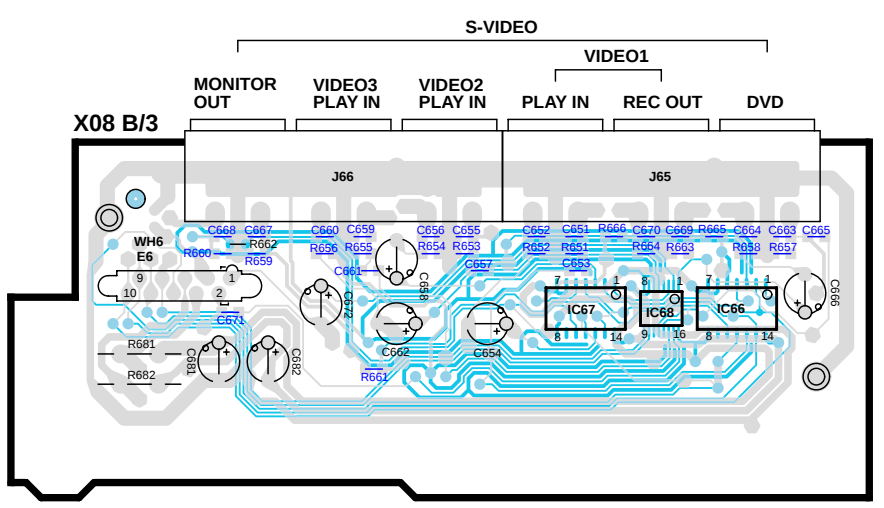
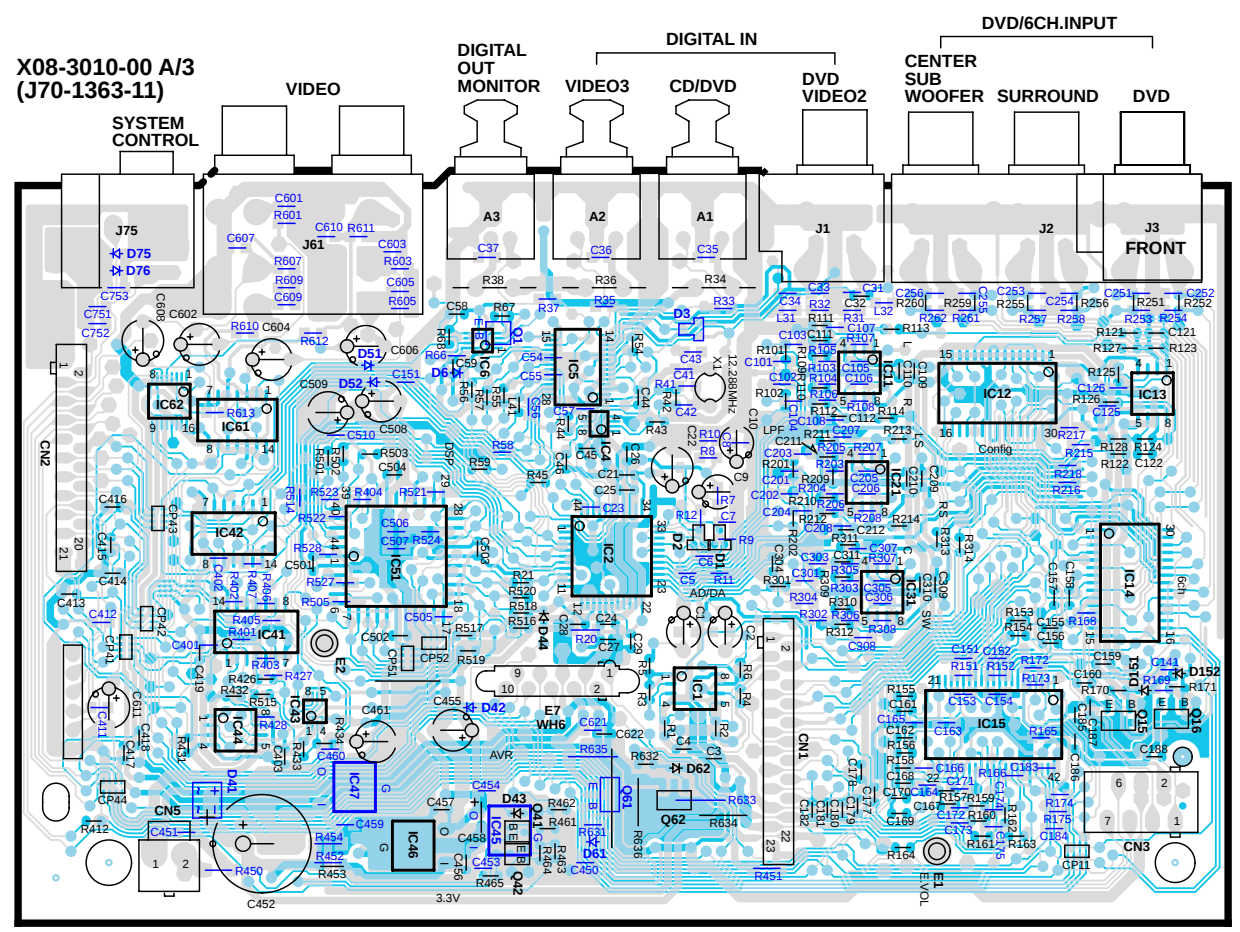


X07-3120-10 C/3 (J70-1362-11)
X07-3130-10 C/3 (J70-1412-11)

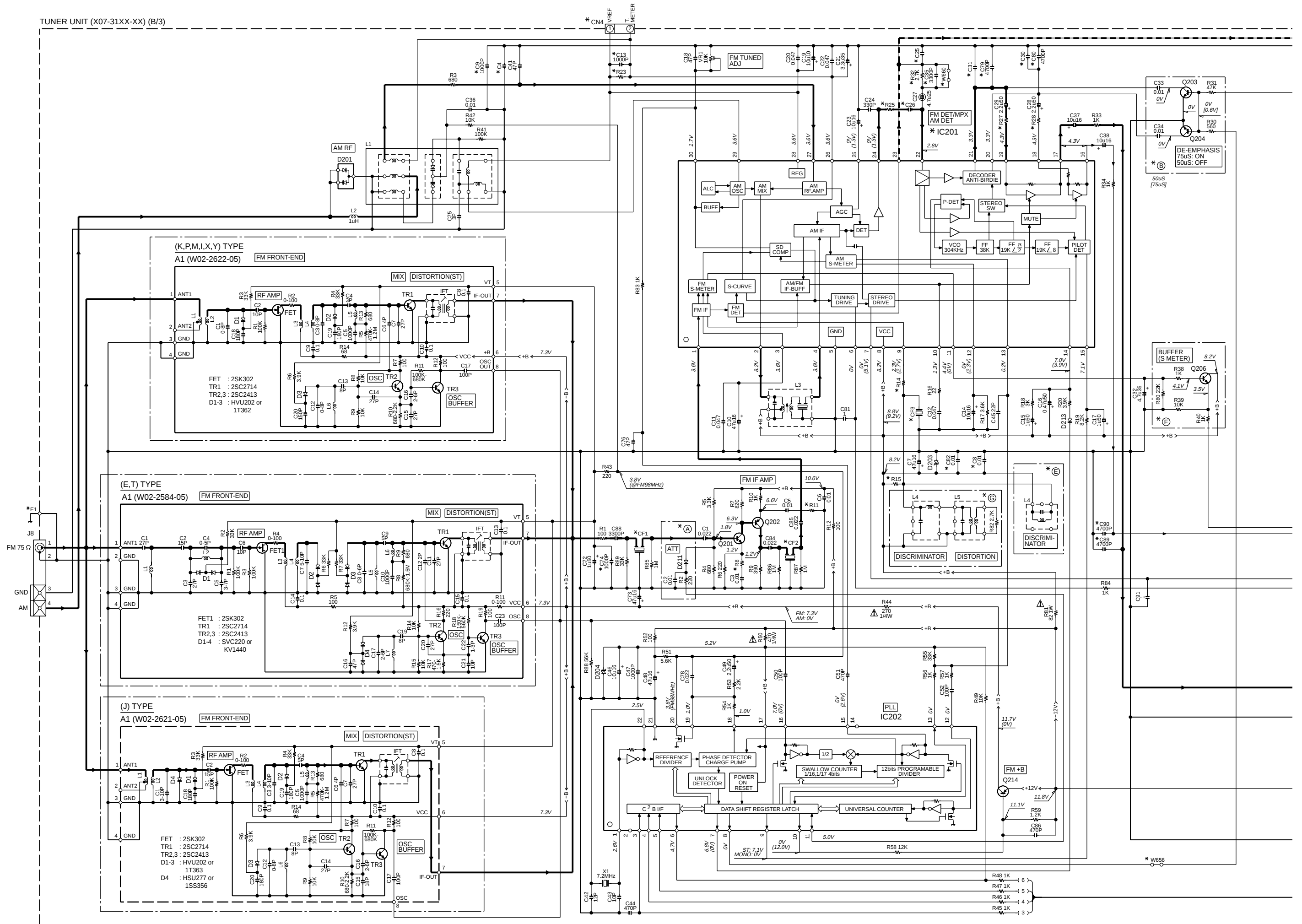


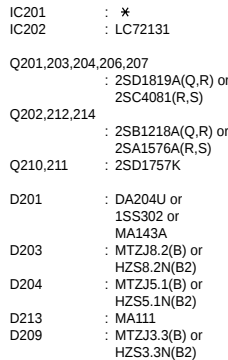


PC BOARD(Component side view)



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





DESTINATION			UNIT No.	(A)	(C)	(F)	(E)	(G)	(B)	R8, 11	R14	R15	R23	R25	R27, 28	R29	R32	R72, 73	C4,70,71 79,80,82	C8,9,35, 89,90	C13, 74	C25	C26	C30, 31	C77	CF1,2	CF3	IC201	L6,7	CN4	W656	W660	W682, 683	S1	E1
COUNTRY	ABB.																																		
GENERAL MARKET	M	0-21	NO					YES	33	270	NO	3.3K	18K	7.5K	YES	YES	8.2K	NO	YES	NO	470P	0.022	0.022	YES	L72-0531 (MA5)	YES	LA1838	NO	NO	YES	NO	YES	YES	F10-1129	
MALAYSIA	I																																		
AUSTRALIA	X	0-71						NO							NO									NO						NO			NO		


 Dashed line: DIGITAL LINE
 Solid line: SIGNAL LINE
 Solid line: GND LINE
 Line with arrow pointing left: +B LINE
 Line with arrow pointing left: -B LINE

Q201,203,204,206,207	: 2SD1819A(Q,R) or 2SC4081(R,S)
Q202,212,214	: 2SB1218A(Q,R) or 2SA1576A(R,S)
Q210,211	: 2SD1757K
D201	: DA204UJ or 1S3302 or MA143A
D203	: MTZ38.2(B) or HZS8.2N(B2)
D204	: MTZJ5.1(B) or HZS5.1N(B2)
D213	: MA111
D209	: MTZJ3.3(B) or HZS3.3N(B2)

A diagram of a 3-pin connector with pins labeled B, C, and E.

A diagram of a 3-pin plug. The top pin is labeled 'E', the middle pin is labeled 'C', and the bottom pin is unlabeled but represents the ground connection.

A 3D perspective drawing of a rectangular block. It has three tabs or protrusions: one on the front face labeled 'B', one on the top face labeled 'C', and one on the right side face labeled 'E'.

A 3-pin connector is shown with pins labeled IN, GND, and OUT.

A perspective view of a 14-pin DIP package. The package is rectangular with a circular notch on the top surface. The pins are numbered 1 through 8, with 1 and 8 at the front corners and 5 and 14 at the back corners.

A diagram of a rectangular box. Label '1' is at the top center. Label '2' is on the left side. Label '3' is at the bottom right corner.

A perspective view of a 14-pin DIP package. The pins are numbered 1 through 14. Pin 1 is at the top-left corner, pin 8 is at the top-right corner, pin 14 is at the bottom-left corner, and pin 7 is at the bottom-right corner.

A perspective view of a 14-pin DIP package. The package is rectangular with two rows of seven pins each. The pins are numbered 1 through 14. Pin 1 is at the top right, and pin 14 is at the top left. The package has a small circular mark on its top surface.

A perspective view of a 24-pin DIP package. Pin 13 is at the top center, pin 24 is at the bottom left, and pin 12 is at the bottom right.

A perspective view of a 22-pin DIP package. The pins are numbered 1 to 22, starting from the right side and moving left. Pin 12 is at the top right, and pin 22 is at the bottom left.

A perspective view of a 30-pin DIP package. The package is rectangular with two rows of pins. The top row of pins is numbered 16 at the right end. The bottom row of pins is numbered 30 at the left end and 15 at the right end.

A perspective view of a 30-pin DIP package. The pins are numbered 1 through 30. Pins 1 through 15 are on the right side, and pins 16 through 30 are on the left side. The package is shown from an isometric perspective.

A 3D perspective view of the component, showing its rectangular shape, a circular feature on the top surface, and three pins extending from the bottom. The number '3' is placed next to the pins.

Diagram of a 5-pin DIP package. The package is shown from a perspective view. The pins are labeled VSS, VSS, VSS, VSS, and VSS.

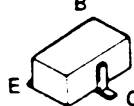
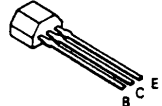
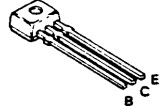
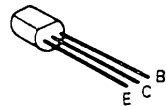
A diagram of a 5-pin D-sub connector. The pins are numbered 1 through 5. Pin 1 is the top-left pin, pin 2 is the top-right pin, pin 3 is the bottom-right pin, pin 4 is the bottom-left pin, and pin 5 is the top-center pin.

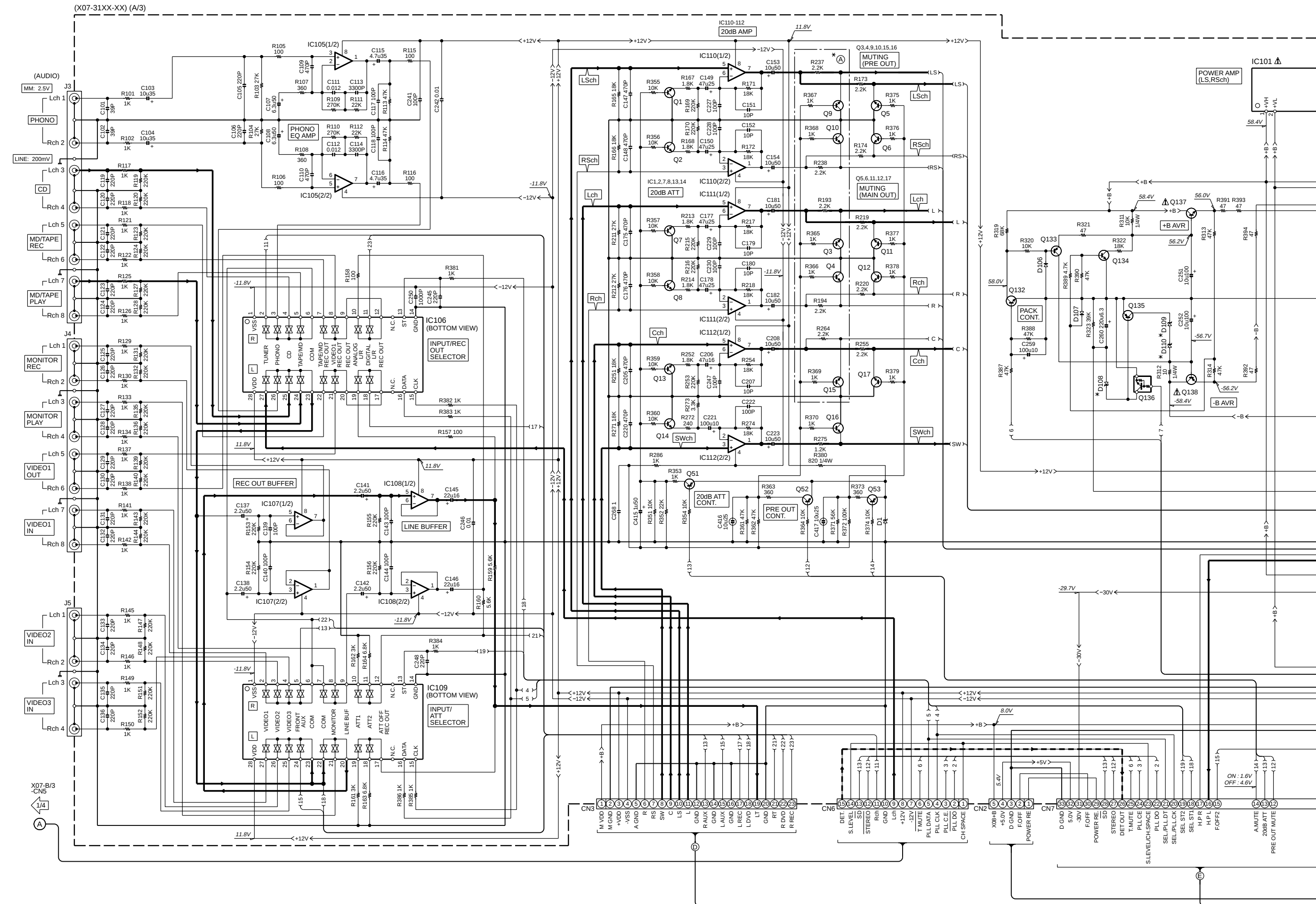
Diagram of a 3-pin DIN connector. The left pin is labeled "INPUT" and the right pin is labeled "OUTPUT".

A perspective view of a 42-pin DIP package. The package is rectangular with two rows of pins. The pins are numbered 1 through 42. Pin 1 is at the bottom center, and pin 42 is at the top center. The package has a notch on the top edge.

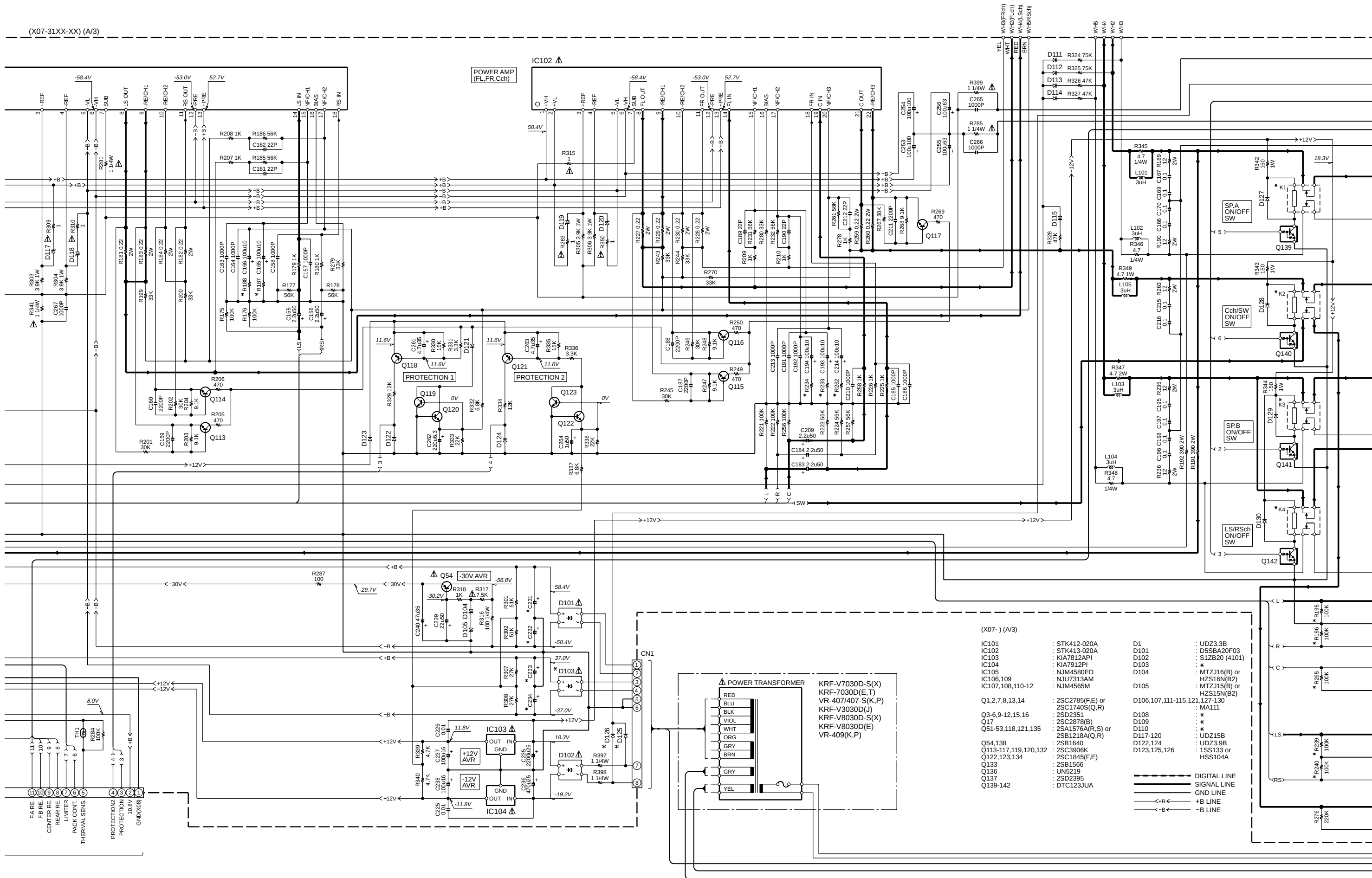
The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading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

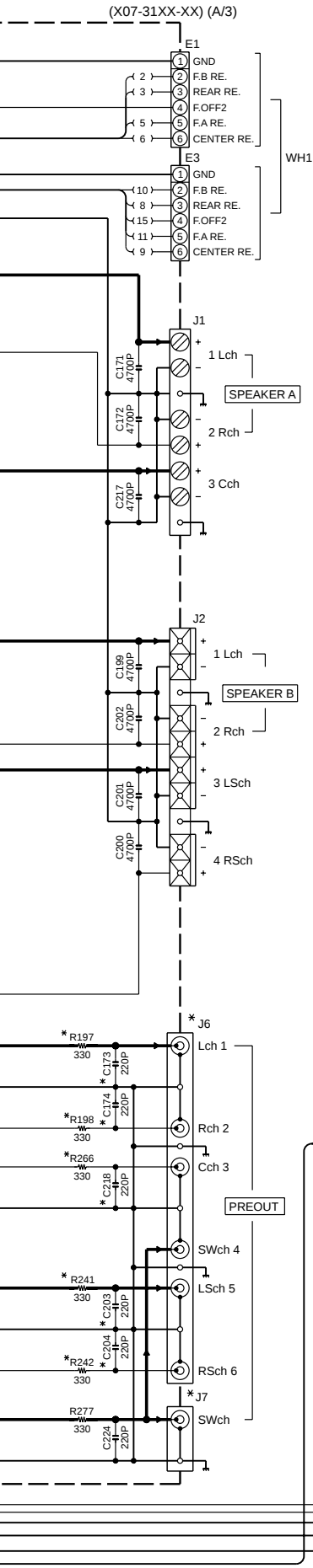
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB





(X07-31XX-XX) (A/3)





(X07-) (A/3)

VR-409 (X07-3120-11)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198, 239-242,265,266
U.S.A.	K		0-11	NO	NO	4700u75	3300u42	D5SBA20F03	UD28.2B	UD215B	UD216B	NO	NO	YES	S76-0042	1.8K	NO
CANADA	P																

KRF-V8030D (X07-312X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198,239-242 265,266,307,308
PX	Y		2-91	YES	YES	4700u75	3300u42	D5SBA20F03	UD28.2B	UD215B	UD216B	YES	YES	NO	S76-0097	1.8K	YES
EUROPE	E		2-71			4700u63	3300u35	RBV-602LFA	UD26.2B	UD210B	UD213B	NO	YES	NO		2.4K	

KRF-V8030D-S (X07-312X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198,239-242 265,266,307,308
GENERAL MARKET	M		0-21	YES	YES	4700u75	3300u42	RBV-602LFA	UD28.2B	UD215B	UD216B	YES	YES	NO	S76-0097	1.8K	YES
MALAYSIA	I							D5SBA20F03				NO					
AUSTRALIA	X		0-71									NO					

VR-407 (X07-3130-10)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188, 233,234,262	R195-198, 239-242,265,266
U.S.A.	K		0-10	NO	NO	4700u75	3300u42	D5SBA20F03	UD28.2B	UD215B	UD216B	NO	NO	YES	S76-0042	1.8K	NO
CANADA	P																

VR-407-S (X07-3130-10)

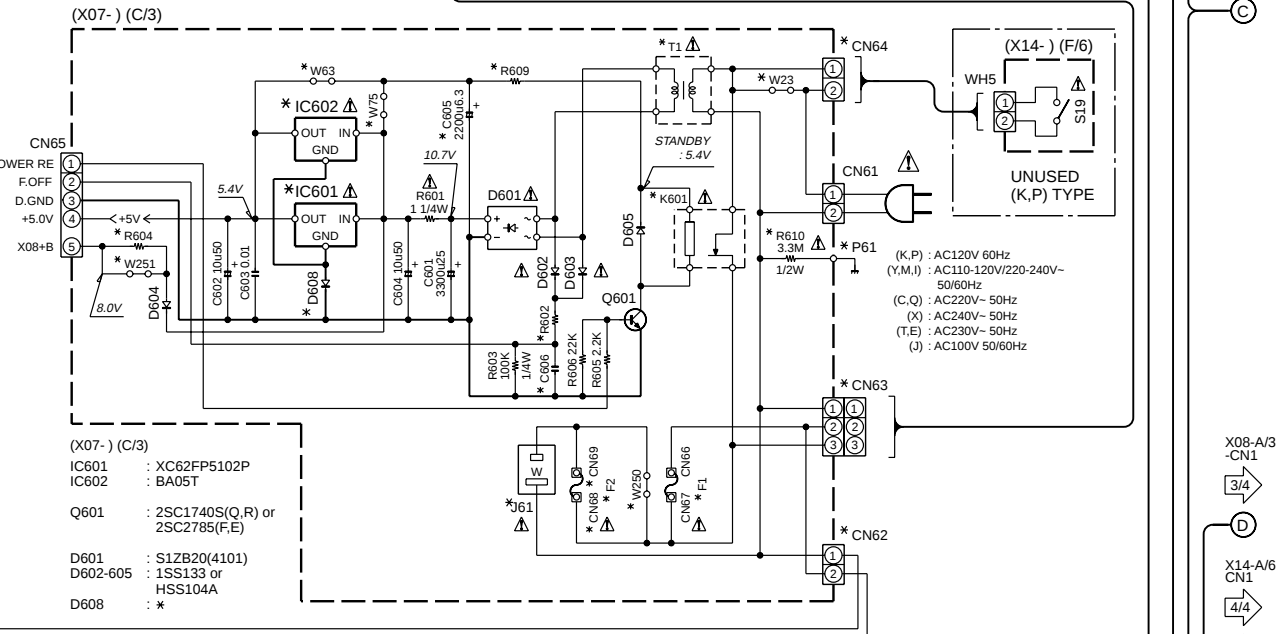
DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6,7	K1-4	R187,188, 233,234,262	R195-198, 239-242,265,266
U.S.A.	K1		0-10	NO	NO	4700u75	3300u42	D5SBA20F03	UD28.2B	UD215B	UD216B	NO	NO	S76-0042	1.8K	NO

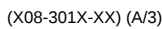
KRF-V7030D (X07-313X-XX)

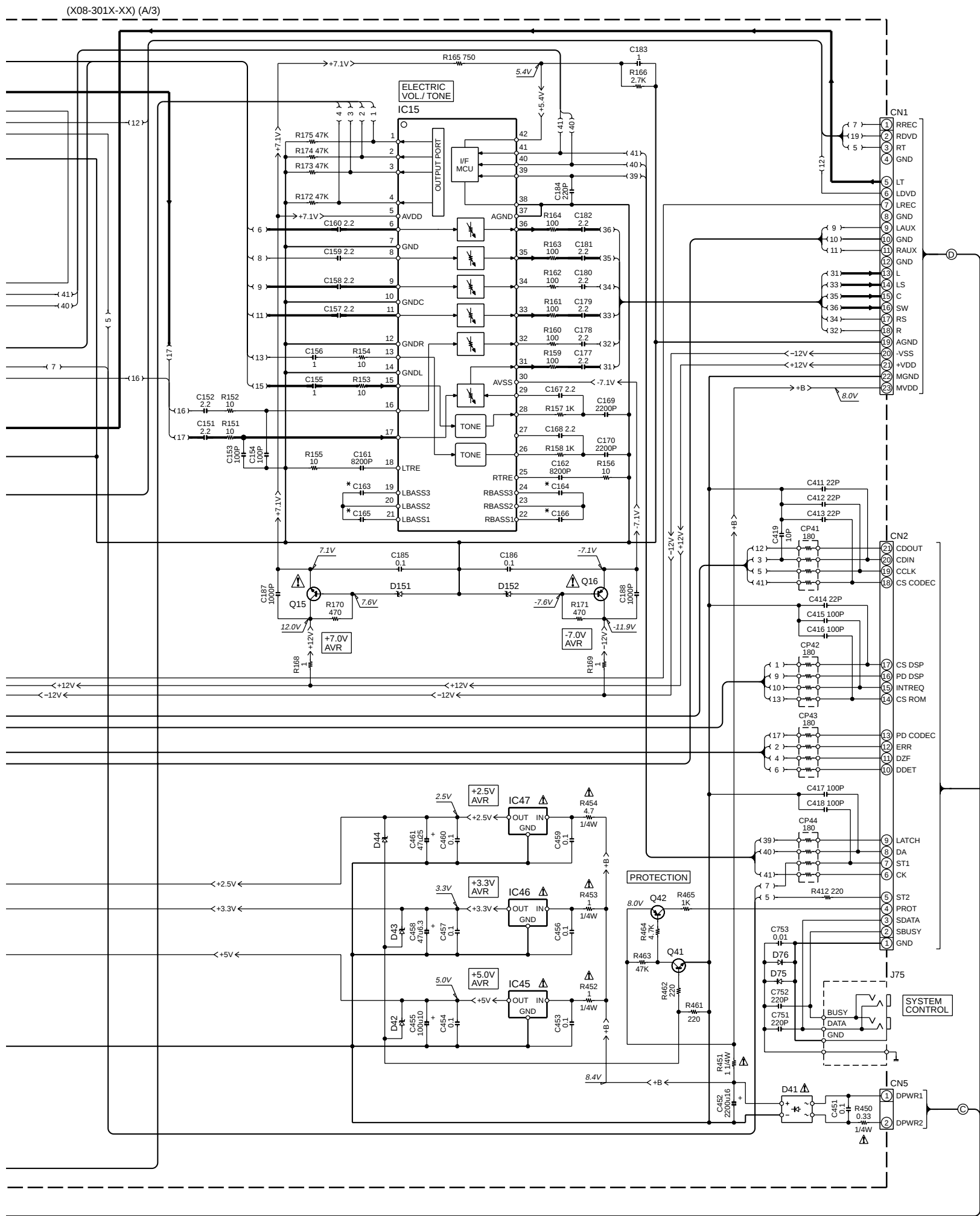
DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198,239-242,265,266
PX	Y		2-91	NO	NO	4700u75	3300u42	D5SBA20F03	UD28.2B	UD215B	UD216B	YES	NO	YES	S76-0097	1.8K	NO
EUROPE	E1		2-71			4700u63	3300u35	RBV-602LFA	UD26.2B	UD210B	UD213B	NO	NO	YES		2.4K	
U.K.	T		0-51									NO					

KRF-V7030D-S (X07-313X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	C173,174, 203,204,218	C231, 232	C233, 234	D103	D108	D109	D110	D125, 126	J6	J7	K1-4	R187,188,233, 234,262	R195-198,239-242,265,266
GENERAL MARKET	M		0-21	NO	NO	4700u75	3300u42	RBV-602LFA	UD28.2B	UD215B	UD216B	YES	NO	YES	S76-0097	1.8K	NO
MALAYSIA	I							D5SBA20F03				NO					
AUSTRALIA	X		0-71									NO					







VR-407 (X08-3010-12)

DESTINATION		UNIT	IC43,	R428	R37,38,433,	R633,634	C37	C163,	C165,	C209	A3
COUNTRY	ABB.	No.	44		434,635,636			164	166		
U.S.A.	K	0-12	NO	YES	NO	100 1W	NO	0.015	0.33	YES	NO
CANADA	P										

KRF-V7030D-S (X08-301X-XX)

DESTINATION	UNIT	IC43, 44	R428	R37,38, 433, 434	R633,634	R635,636	C37	C163, 164	C165, 166	C209	A3
COUNTRY	ABB.	No.									
GENERAL MARKET	M	0-22			47 1W	YES		0.033	0.47	NO	NO
MALAYSIA	I				100 1W	NO	NO	0.015	0.33	YES	NO
AUSTRALIA	X	0-12	NO	YES	NO						

KRF-V7030D (X08-3010-12)

DESTINATION		UNIT	IC43,	R428	R37,38,433, 434,635,636	R633,634	C37	C163, 164	C165, 166	C209	A3
COUNTRY	ABB.	No.	44								
PX	Y	0-12	NO	YES	NO	100 1W	NO	0.015	0.33	YES	NO
U.K.	T										
EUROPE	E1										

VR-407-S (X08-3010-12)

DESTINATION		UNIT	IC43,		R37,38,433,	R633,634	C37	C163,	C165,		
COUNTRY	ABB.	No.	44	R428	434,635,636			164	166	C209	A3
U.S.A.	K1	0-12	NO	YES	NO	100 1W	NO	0.015	0.33	YES	NO

VR-409 (X08-3010-13)

DESTINATION		UNIT	IC43,	R37,38,	R428,	R633,634	C37	C163,	C165,	C209	A3
COUNTRY	ABB.	No.	44	433,434	635,636			164	166		
U.S.A.	K	0-13	YES	YES	NO	100 1W	YES	0.015	0.33	YES	YES
CANADA	P										

KRF-V8030D (X08-3010-13)

DESTINATION		UNIT	IC43,	R37,38,	R428,	R633,634	C37	C163,	C165,	C209	A3
COUNTRY	ABB.	No.	44	433,434	635,636			164	166		
PX	Y	0-13	YES	YES	NO	100 1W	YES	0.015	0.33	YES	YES
EUROPE	E										

KRF-V8030D-S (X08-301X-XX)

DESTINATION	UNIT	IC43, 44	R37,38, 433,434	R428	R633,634	R635,636	C37	C163, 164	C165, 166	C209	A3
COUNTRY	ABB.	No.									
GENERAL MARKET	M	0-23			47 1W	YES		0.033	0.47	NO	YES
MALAYSIA	I	0-13	YES	YES	NO	100 1W	NO	0.015	0.33	YES	YES
AUSTRALIA	X										

IC1,11,13,21,31

IC2 : NJM4565MD
IC4 : AK4527-VQ
IC5 : TC7WU04FU
IC6 : AK4110-VF
IC12,14 : TC7WH123FU
IC15 : NJM7311AM
IC41 : M62446FP
IC42 : TC74HC07AF
IC43 : TC74HCT7007AF
IC44 : AT25256WS2701
IC45 : TA48M05F
IC46 : TA48M033F
IC47 : TA48M025F
IC51 : CS493263-CLR
IC61 : NJM2279M
IC62 : TC74HC4052AFT or NJU4052BV

Q1 : DTC124EUA or UN5212
Q15,61 : 2SD1664(Q,R) or 2SD1963(R,S)-G
Q16,62 : 2SB1132(Q,R) or 2SB1308(Q,R)-G
Q41 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q42 : 2SA1576A(R,S) or 2SB1218A(Q,R)
D1,3 : 1SS301 or DAN202U or MA142WK
D2 : 1SS300 or DAP202U or MA142WA
D6,51,52,75,76 : MA111
D41 : S1ZB20(4072)
D42,43,61,62 : UDZ5.6B
D44 : UDZ3.9B
D151,152 : UDZ7.5B

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

VR-407/407-S/409 (3/4)
KRF-V7030D/V7030D-S (3/4)
KRF-V8030D/V8030D-S (3/4)

Y05-4010-10

KRF-V7030D/V8030D/VR-407/409

KENWOOD

1

2

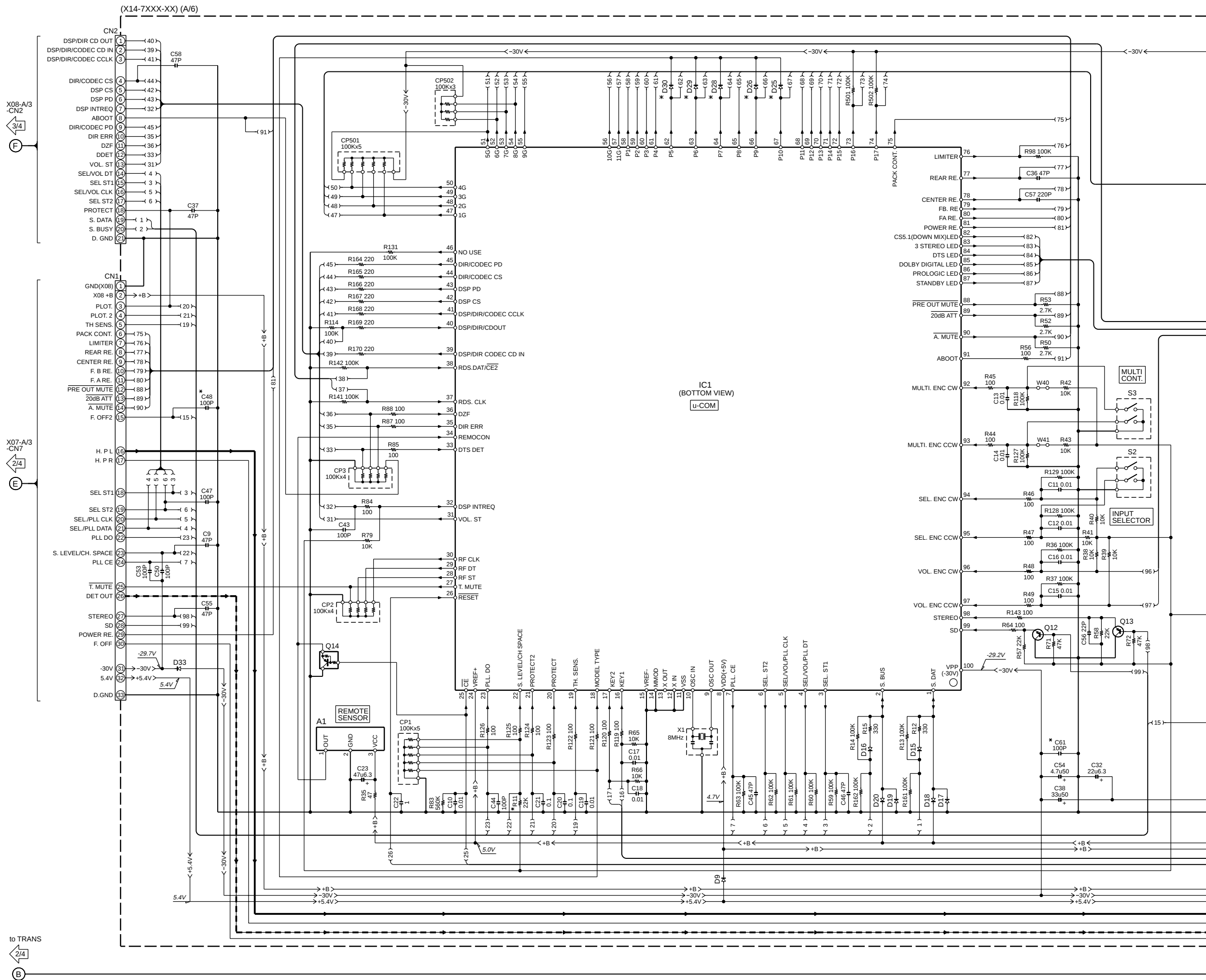
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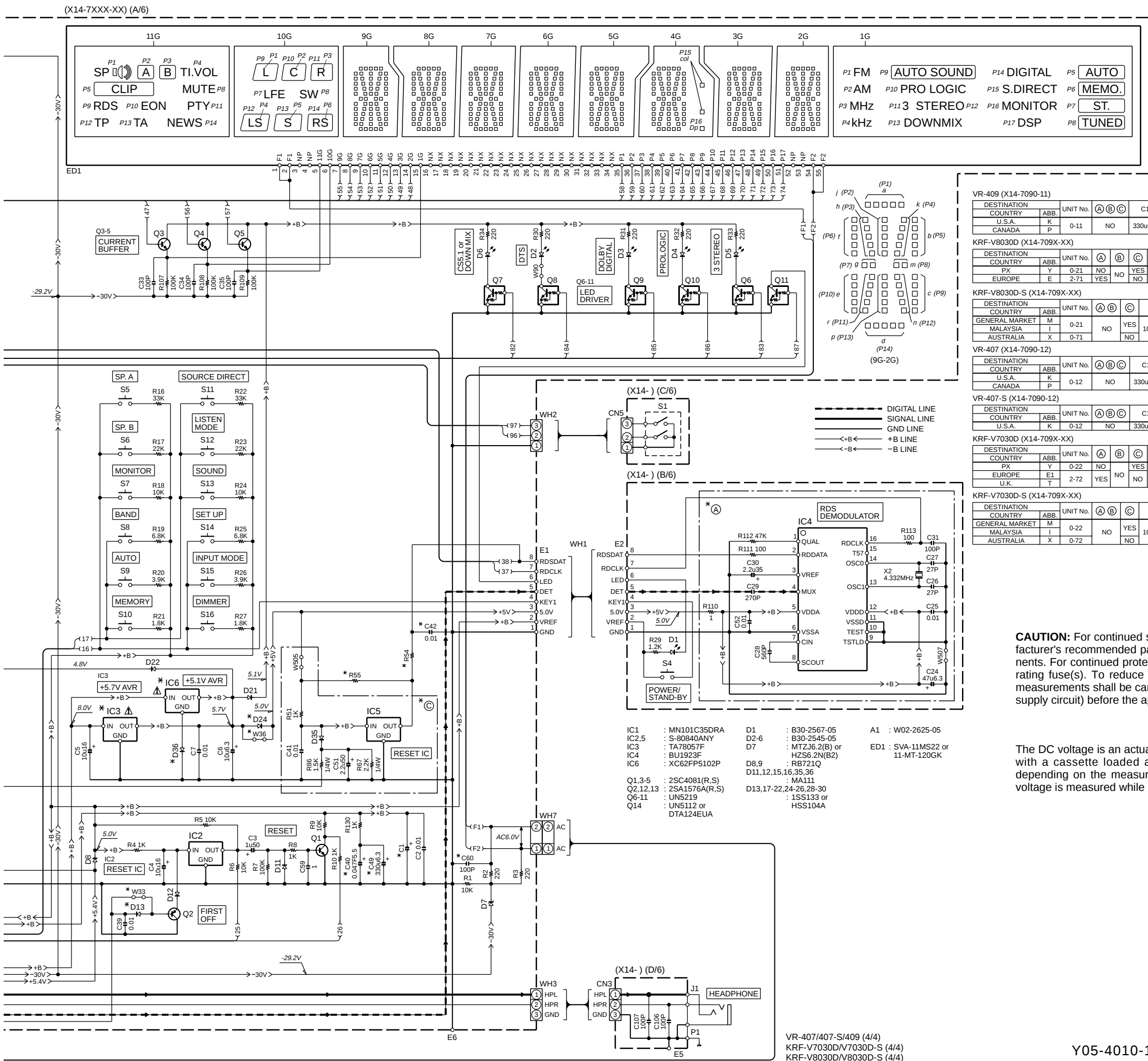
4

5

6

7





VR-409 (X14-7090-11)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	C1	C40,42,48,60,61	C49	D13,25	D24,25,28-30,36	IC3	IC6	R11,54,55	S3	S17,18	W33,36	W40,41
U.S.A.	K	P	0-11	NO	NO	YES	330u6.3	NO	YES	YES	NO	YES	NO	NO	YES	NO	NO	YES
CANADA	P	P	2-71	YES	NO	NO	100u10	YES	YES	NO	NO	NO	YES	NO	NO	NO	NO	YES

KRF-V8030D (X14-709X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	C1	C40	C42,48,60	C49	C61	D13,25,29	D24,30	D26,28	D36,36	IC3	IC6	R11	R54,55	S3	S17,18	W33,40,41	W36
PX	Y	Y	0-21	NO	NO	YES	100u10	YES	YES	NO	NO	NO	NO	YES	YES	NO	YES	YES	10K	YES	NO	YES	YES
EUROPE	E	E	2-71	YES	NO	NO	100u10	YES	YES	NO	NO	NO	YES	YES	YES	NO	YES	YES	10K	YES	NO	YES	YES

KRF-V8030D-S (X14-709X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	C1	C40,42	C48	C49,60,61	D13,25,30	D24	D26,28	D29	D36,36	IC3	IC6	R11	R54,55	S3	S17,18	W33,40,41	W36
GENERAL MARKET	M	M	0-21	NO	YES	NO	100u10	YES	YES	NO	NO	NO	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES
MALAYSIA	I	I	0-71	NO	YES	NO	100u10	YES	YES	NO	NO	YES	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES
AUSTRALIA	X	X	0-71	NO	YES	NO	100u10	YES	YES	NO	NO	YES	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES

VR-407 (X14-7090-12)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	C1	C40,42,48,60,61	C49	D13,25	D24,26,28-30,36	IC3	IC6	R11,54,55	S3	S17,18	W33,36	W40,41
U.S.A.	K	K	0-12	NO	NO	YES	330u6.3	NO	YES	YES	NO	YES	NO	NO	YES	NO	NO	YES
CANADA	P	P	2-71	YES	NO	NO	100u10	YES	YES	NO	NO	YES	YES	NO	NO	NO	NO	YES

VR-407-S (X14-7090-12)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	C1	C40,42,48,60,61	C49	D13,25	D24,26,28-30,36	IC3	IC6	R11,54,55	S3	S17,18	W33,36	W40,41
U.S.A.	K	K	0-12	NO	NO	YES	330u6.3	NO	YES	YES	NO	YES	NO	NO	YES	NO	NO	YES
CANADA	P	P	2-71	YES	NO	NO	100u10	YES	YES	NO	NO	YES	YES	NO	NO	NO	NO	YES

KRF-V7030D (X14-709X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	C1	C40,108-115	C48	C49,60,61	D13,26,30	D24	D25,28	D29	D36	IC3	IC6	R11	R54,55	S3	S17,18	W33,40,41	W36
PX	Y	Y	0-22	NO	YES	NO	100u10	YES	YES	NO	NO	NO	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES
EUROPE	E1	E1	2-72	YES	NO	NO	100u10	YES	YES	NO	NO	YES	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES
U.K.	T	T	2-72	YES	NO	NO	100u10	YES	YES	NO	NO	YES	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES

KRF-V7030D-S (X14-709X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	(C)	C1	C40,108-115	C48	C49,60,61	D13,26,30	D24	D25,28	D29	D36	IC3	IC6	R11	R54,55	S3	S17,18	W33,40,41	W36
GENERAL MARKET	M	M	0-22	NO	YES	NO	100u10	YES	YES	NO	NO	NO	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES
MALAYSIA	I	I	0-22	NO	YES	NO	100u10	YES	YES	NO	NO	YES	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES
AUSTRALIA	X	X	0-72	NO	YES	NO	100u10	YES	YES	NO	NO	YES	YES	NO	YES	NO	YES	YES	10K	YES	NO	YES	YES

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

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

KRF-V7030D/V8030D/VR-407/409

VR-407/407-S/409 (4/4)
 KRF-V7030D/V7030D-S (4/4)
 KRF-V8030D/V8030D-S (4/4)

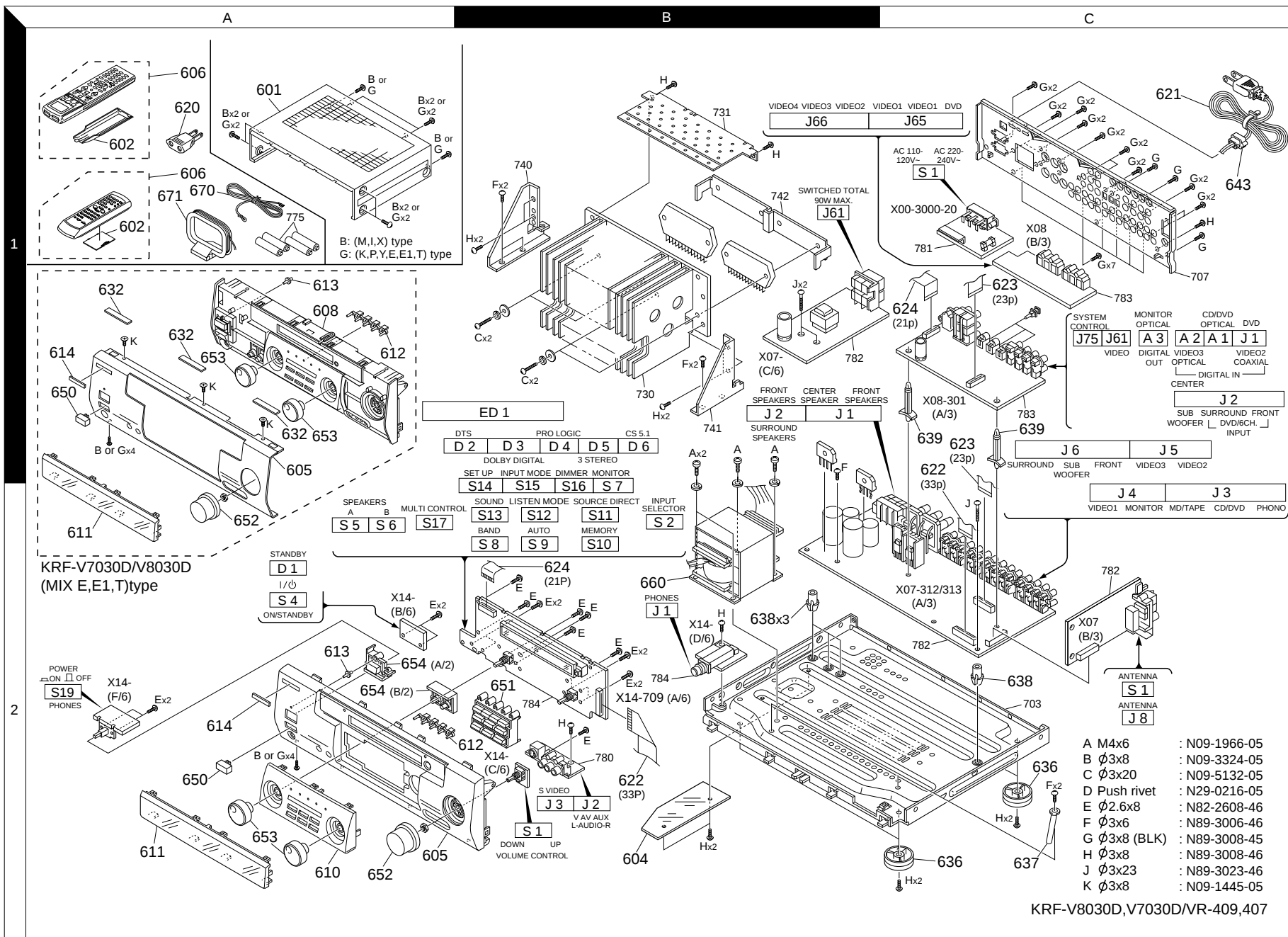
Y05-4010-10

KENWOOD

EXPLODED VIEW (UNIT)

37

Parts with exploded numbers larger than 700 are not supplied.



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

1

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
KRF-V7030D/V8030D						
601	1A	*	A01-3731-01	METALLIC CABINET		
602	1A	*	A09-1166-08	BATTERY COVER	E	
602	1A	*	A09-1178-08	BATTERY COVER	E1T	
604	2B	*	A46-0309-04	REAR COVER		
605	1A,2A	*	A60-1744-12	PANEL		
606	1A	*	A70-1331-05	REMOTE CONTROL ASSY(RC-R0610)	E1T	
606	1A	*	A70-1345-05	REMOTE CONTROL ASSY(RC-R0808)	E	
608	1A	*	A22-1833-11	SUB PANEL	E	
608	1A	*	A22-1835-11	SUB PANEL	E1T	
611	2A	*	B10-3545-02	FRONT GLASS	E	
611	2A	*	B10-3548-02	FRONT GLASS	E1T	
612	1A,2B	*	B12-0383-04	INDICATOR		
613	1A,2B		B12-0341-04	INDICATOR		
614	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0310-03	WARRANTY CARD	T	
-			B58-0945-03	CAUTION CARD	T	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	EE1	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	E	
-		*	B60-4595-00	INSTRUCTION MANUAL (ES)		
-		*	B60-4596-00	INSTRUCTION MANUAL (FR)	E	
-		*	B60-4597-00	INSTRUCTION MANUAL (GE/NE/IT)	E	
-		*	B60-4602-00	INSTRUCTION MANUAL (EN)	T	
-		*	B60-4603-00	INSTRUCTION MANUAL (ES)	E1	
-		*	B60-4604-00	INSTRUCTION MANUAL (FR/GE)	E1	
-		*	B60-4605-00	INSTRUCTION MANUAL (IT/NE)	E1	
-		*	B60-4615-00	INSTRUCTION MANUAL (5-LAN)	E	
-		*	B60-4622-00	INSTRUCTION MANUAL (5-LAN)	E1	
-		*	B60-4624-00	INSTRUCTION MANUAL (EN)	T	
△ 621	1C		E30-2721-05	AC POWER CORD	T	
△ 621	1C	*	E30-2942-05	AC POWER CORD	EE1	
622	1C,2B	*	E35-2456-05	FLAT CABLE (33P)		
623	1C	*	E35-2480-05	FLAT CABLE (23P)		
624	1C,2B	*	E35-2613-05	FLAT CABLE (21P)		
632	1A		G10-0481-04	NON-WOVEN FABRIC		
-			G11-2416-04	CUSHION		
-		*	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EE1	
-			H25-0391-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232 PRINT)	T	
-		*	H50-3599-04	ITEM CARTON CASE	E	
-		*	H50-3604-04	ITEM CARTON CASE	E1T	
636	2C	*	J02-1464-03	FOOT		
637	2C		J19-2808-05	HOLDER		
638	2B,2C		J19-3752-14	UNIT HOLDER		
639	1C	*	J19-6078-05	UNIT HOLDER		
△ 643	1C	*	J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	*	K27-2384-04	KNOB (BUTTON)		
651	2B	*	K29-7675-12	KNOB		
652	2A	*	K29-7678-04	KNOB (VOLUME)		

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2

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
653	1A,2A	*	K29-7681-14	KNOB (MULTI/INPUT)		
△ 660	2B	*	L07-2790-05	POWER TRANSFORMER		
670	1A		T90-0836-05	LEAD WIRE ANTENNA		
671	1A	*	T90-0852-05	LOOP ANTENNA		
KRF-V8030D-S						
601	1A	*	A01-3732-01	METALLIC CABINET		
602	1A	*	A09-1166-08	BATTERY COVER		
604	2B	*	A46-0309-04	REAR COVER		
605	1A,2A	*	A60-1743-12	PANEL		
606	1A	*	A70-1315-05	REMOTE CONTROL ASSY(RC-R0809)		
608	1A	*	A22-1834-11	SUB PANEL		
611	2A	*	B10-3544-02	FRONT GLASS		
612	1A,2B	*	B12-0383-04	INDICATOR		
613	1A,2B		B12-0341-04	INDICATOR		
614	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD		X
-			B58-0965-13	CAUTION CARD (T,XtypePL)		X
-			B58-0966-13	CAUTION CARD (ELMtypePL)		MI
-		*	B60-4593-00	INSTRUCTION MANUAL (EN)		MI
-		*	B60-4594-00	INSTRUCTION MANUAL (TC)		M
-		*	B60-4595-00	INSTRUCTION MANUAL (ES)		
-		*	B60-4611-00	INSTRUCTION MANUAL (EN)		MI
-		*	B60-4612-00	INSTRUCTION MANUAL (TC)		M
-		*	B60-4613-00	INSTRUCTION MANUAL (ES)		
△ 620	1A		E03-0115-05	AC PLUG ADAPTER		M
△ 621	1C		E30-2717-05	AC POWER CORD		X
△ 621	1C	*	E30-2942-05	AC POWER CORD		MI
622	1C,2B	*	E35-2456-05	FLAT CABLE (33P)		
623	1C	*	E35-2480-05	FLAT CABLE (23P)		
624	1C,2B	*	E35-2613-05	FLAT CABLE (21P)		
632	1A		G10-0481-04	NON-WOVEN FABRIC		
-			G11-2416-04	CUSHION		
-		*	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		X
-		*	H50-3600-04	ITEM CARTON CASE		
-		*	H50-3601-04	ITEM CARTON CASE		MI
636	2C	*	J02-1464-03	FOOT		
637	2C		J19-2808-05	HOLDER		
638	2B,2C		J19-3752-14	UNIT HOLDER		
639	1C	*	J19-6078-05	UNIT HOLDER		
△ 643	1C	*	J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	*	K27-2385-04	KNOB (BUTTON)		
651	2B	*	K29-7676-12	KNOB		
652	2A	*	K29-7679-04	KNOB (VOLUME)		
653	1A,2A	*	K29-7682-14	KNOB (MULTI/INPUT)		
△ 660	2B	*	L07-2788-05	POWER TRANSFORMER	MI	

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PARTS LIST

KRF-V7030D/V8030D/VR-407/409

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3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
660	2B	*	L07-2789-05	POWER TRANSFORMER	X	
670	1A		T90-0836-05	LEAD WIRE ANTENNA		
671	1A	*	T90-0852-05	LOOP ANTENNA		
VR-409/KRF-V8030D						
601	1A	*	A01-3733-01	METALLIC CABINET		
602	1A	*	A09-1166-08	BATTERY COVER		
604	2B	*	A46-0309-04	REAR COVER		
605	1A,2A	*	A60-1736-11	PANEL	KP	
605	1A,2A	*	A60-1737-11	PANEL	Y	
606	1A	*	A70-1315-05	REMOTE CONTROL ASSY(RC-R0809)		
610	2A	*	B07-2475-02	ESCUTCHEON		
611	2A	*	B10-3543-02	FRONT GLASS	KP	
611	2A	*	B10-3544-02	FRONT GLASS	Y	
612	1A,2B	*	B12-0383-04	INDICATOR		
613	1A,2B	*	B12-0385-04	INDICATOR		
614	1A,2A		B43-0314-04	KENWOOD BADGE		
-			B46-0328-03	WARRANTY CARD	KY	
-			B46-0346-00	QUESTIONNAIRE CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-		*	B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B60-4593-00	INSTRUCTION MANUAL (EN)		
-		*	B60-4596-00	INSTRUCTION MANUAL (FR)	P	
-		*	B60-4611-00	INSTRUCTION MANUAL EN(R)		
-		*	B60-4614-00	INSTRUCTION MANUAL FR(R)	P	
621	1C		E30-2605-05	AC POWER CORD	Y	
621	1C	*	E30-2941-05	AC POWER CORD	KP	
622	1C,2B	*	E35-2456-05	FLAT CABLE (33P)		
623	1C	*	E35-2480-05	FLAT CABLE (23P)		
624	1C,2B	*	E35-2613-05	FLAT CABLE (21P)		
-			G11-2416-04	CUSHION		
-		*	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0391-04	PROTECTION BAG		
-		*	H50-3598-04	ITEM CARTON CASE	KP	
-		*	H50-3599-04	ITEM CARTON CASE	Y	
636	2C	*	J02-1464-03	FOOT		
637	2C		J19-2808-05	HOLDER		
638	2B,2C		J19-3752-14	UNIT HOLDER		
639	1C	*	J19-6078-05	UNIT HOLDER		
643	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	*	K27-2384-04	KNOB (BUTTON)	Y	
651	2B	*	K29-7675-12	KNOB		
652	2A	*	K29-7678-04	KNOB (VOLUME)		
653	1A,2A	*	K29-7681-14	KNOB (MULTI/INPUT)		
654	2A	*	K29-7687-03	KNOB (POWER/SPEAKER)		

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4

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
660	2B	*	L07-2787-05	POWER TRANSFORMER	KP	
660	2B	*	L07-2788-05	POWER TRANSFORMER	Y	
670	1A		T90-0836-05	LEAD WIRE ANTENNA		
671	1A	*	T90-0852-05	LOOP ANTENNA		
VR-407/407-S/KRF-V7030D/V7030D-S						
601	1A	*	A01-3733-01	METALLIC CABINET	KPY	
601	1A	*	A01-3734-01	METALLIC CABINET	MIXK1	
602	1A	*	A09-1178-08	BATTERY COVER		
604	2B	*	A46-0309-04	REAR COVER		
605	1A,2A	*	A60-1736-11	PANEL	KP	
605	1A,2A	*	A60-1737-11	PANEL	Y	
605	1A,2A	*	A60-1738-11	PANEL	K1	
605	1A,2A	*	A60-1739-11	PANEL	MIX	
606	1A	*	A70-1330-05	REMOTE CONTROL ASSY(RC-R0609)		
610	2A	*	B07-2476-02	ESCUTCHEON	MIXK1	
610	2A	*	B07-2507-02	ESCUTCHEON	KPY	
611	2A	*	B10-3546-02	FRONT GLASS	KPK11	
611	2A	*	B10-3547-02	FRONT GLASS	YMIX	
612	1A,2B	*	B12-0383-04	INDICATOR		
613	1A,2B	*	B12-0385-04	INDICATOR		
614	1A,2A		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0328-03	WARRANTY CARD	KYK1	
-			B46-0346-00	QUESTIONNAIRE CARD	KK1	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD (UL)	KYK1	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	X	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	MI	
-		*	B58-0967-03	CAUTION CARD (PtypePL)	P	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B60-4598-00	INSTRUCTION MANUAL (EN)		
-		*	B60-4599-00	INSTRUCTION MANUAL (FR)	P	
-		*	B60-4600-00	INSTRUCTION MANUAL (TC)	MI	
-		*	B60-4603-00	INSTRUCTION MANUAL (ES)	M	
-		*	B60-4617-00	INSTRUCTION MANUAL EN(R)		
-		*	B60-4618-00	INSTRUCTION MANUAL FR(R)	P	
-		*	B60-4619-00	INSTRUCTION MANUAL ES(R)	M	
-		*	B60-4620-00	INSTRUCTION MANUAL TC(R)	MI	
620	1A		E03-0115-05	AC PLUG ADAPTER	M	
621	1C		E30-2605-05	AC POWER CORD	Y	
621	1C		E30-2717-05	AC POWER CORD	X	
621	1C	*	E30-2941-05	AC POWER CORD	KPK1	
621	1C	*	E30-2942-05	AC POWER CORD	MI	
622	1C,2B	*	E35-2456-05	FLAT CABLE (33P)		
623	1C	*	E35-2480-05	FLAT CABLE (23P)		
624	1C,2B	*	E35-2613-05	FLAT CABLE (21P)		
-			G11-2416-04	CUSHION		
-		*	H10-7628-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-7629-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H25-0391-04	PROTECTION BAG		
-		*	H50-3602-04	ITEM CARTON CASE	KP	

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KRF-V7030D/V8030D/VR-407/409 PARTS LIST

PARTS LIST

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5

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-		*	H50-3603-04	ITEM CARTON CASE	K1	
-		*	H50-3604-04	ITEM CARTON CASE	Y	
-		*	H50-3605-04	ITEM CARTON CASE	X	
-		*	H50-3606-04	ITEM CARTON CASE	MI	
636	2C	*	J02-1464-03	FOOT		
637	2C		J19-2808-05	HOLDER		
638	2B,2C		J19-3752-14	UNIT HOLDER		
639	1C	*	J19-6078-05	UNIT HOLDER		
643	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
650	2A	*	K27-2384-04	KNOB (BUTTON)	Y	
650	2B	*	K27-2385-04	KNOB (BUTTON)	MIX	
651	2A	*	K29-7675-12	KNOB	KPY	
651	1A,2A	*	K29-7676-12	KNOB	MIXK1	
652	2A	*	K29-7678-04	KNOB (VOLUME)	KPY	
652	2A	*	K29-7679-04	KNOB (VOLUME)	MIXK1	
653	1A,2A	*	K29-7681-14	KNOB (MULTI/INPUT)	KPY	
653	1A,2A	*	K29-7682-14	KNOB (MULTI/INPUT)	MIXK1	
654	2A	*	K29-7687-03	KNOB (POWER/SPEAKER)	KPY	
654	2A	*	K29-7688-03	KNOB (POWER/SPEAKER)	MIXK1	
660	2B	*	L07-2787-05	POWER TRANSFORMER	KPK1	
660	2B	*	L07-2788-05	POWER TRANSFORMER	YMI	
660	2B	*	L07-2789-05	POWER TRANSFORMER	X	
670	1A		T90-0836-05	LEAD WIRE ANTENNA		
671	1A	*	T90-0852-05	LOOP ANTENNA		
POWER SUPPLY UNIT (X00-3000-20) Y,M,I,X only						
CN1			E40-8386-05	PIN ASSY		
F3			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		
CN2 ,3			J13-0075-05	FUSE CLIP		
S1			S62.1.5	SLIDE SWITCH		
POWER AMPLIFIER UNIT (X07-312X/313X-XX)						
C1			CK73FB1H223K	CHIP C	0.022UF	K
C2			CK73FB1H103K	CHIP C	0.010UF	K
C3			CK73FB1H103K	CHIP C	0.010UF	K
C4			CC73FCH1H331J	CHIP C	330PF	J
C4			CC73FCH1H331J	CHIP C	330PF	J
C5 ,6			CK73FB1H103K	CHIP C	0.010UF	K
C7			CE04LW1C470M	ELECTRO	47UF	16WV
C8			CK73EB1H103K	CHIP C	0.010UF	K
C9			CC73FCH1H102J	CHIP C	1000PF	J
C10			CE04LW1C470M	ELECTRO	47UF	16WV
C11 ,12			CK73FB1H473K	CHIP C	0.047UF	K
C14			CE04LW1C100M	ELECTRO	10UF	16WV
C15			CE04LW1H010M	ELECTRO	1.0UF	50WV
C16			CE04RW1HR47M	ELECTRO	0.47UF	50WV
C17			CE04LW1H010M	ELECTRO	1.0UF	50WV
C18			CC73FCH1H470J	CHIP C	47PF	J
C19			CE04RW1A100M	ELECTRO	10UF	10WV
C20			CK73FB1H473K	CHIP C	0.047UF	K
C21			CE04RW1V3R3M	ELECTRO	3.3UF	35WV
C22			CK73FB1H473K	CHIP C	0.047UF	K

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6

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C23			CE04LW1C100M	ELECTRO	10UF	16WV
C24			CK73FB1H331K	CHIP C	330PF	K
C25			CC73FCH1H181J	CHIP C	180PF	J
C25			CC73FCH1H471J	CHIP C	470PF	J
C26			CK73FB1H183K	CHIP C	0.018UF	K
C26			CK73FB1H223K	CHIP C	0.022UF	K
C27			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV
C28 ,29			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K
C32			CE04LW1V4R7M	ELECTRO	4.7UF	35WV
C33 ,34			CK73FB1H103K	CHIP C	0.010UF	K
C35			CK73FB1H332K	CHIP C	3300PF	K
C36			CK73FB1H103K	CHIP C	0.010UF	K
C37 ,38			CE04LW1C100M	ELECTRO	10UF	16WV
C41			CC73FCH1H470J	CHIP C	47PF	J
C42			CC73FCH1H120J	CHIP C	12PF	J
C43			CC73FCH1H100D	CHIP C	10PF	D
C44			CK73FB1H471K	CHIP C	470PF	K
C45			CC73FCH1H220J	CHIP C	22PF	J
C46			CE04LW1C100M	ELECTRO	10UF	16WV
C47			CK73FB1H102K	CHIP C	1000PF	K
C48			CE04LW1C470M	ELECTRO	47UF	16WV
C49			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C50			CC73FCH1H101J	CHIP C	100PF	J
C51			CK73FB1H471K	CHIP C	470PF	K
C52			CC73FCH1H101J	CHIP C	100PF	J
C70 ,71			CK73FB1H682K	CHIP C	6800PF	K
C72			CE04LW1H010M	ELECTRO	1.0UF	50WV
C73			CE04LW1C470M	ELECTRO	47UF	16WV
C74			CK73FB1H102K	CHIP C	1000PF	K
C75			CC73FCH1H030C	CHIP C	3.0PF	C
C76			CC73FCH1H470J	CHIP C	47PF	J
C77			CC73FCH1H101J	CHIP C	100PF	J
C78			CK73FB1H223K	CHIP C	0.022UF	K
C79 ,80			CK73FB1H472K	CHIP C	4700PF	K
C81			CK73FF1C105Z	CHIP C	1.0UF	Z
C82			CK73FB1H103K	CHIP C	0.010UF	K
C82			CK73FB1H103K	CHIP C	0.010UF	K
C83			CC73FCH1H101J	CHIP C	100PF	J
C84 ,85			CK73FB1H223K	CHIP C	0.022UF	K
C86			CK73FB1H471K	CHIP C	470PF	K
C88			CK73FB1H332K	CHIP C	3300PF	K
C89 ,90			CK73FB1H472K	CHIP C	4700PF	K
C91			CK73FF1C105Z	CHIP C	1.0UF	Z
C101,102			CC73FCH1H390J	CHIP C	39PF	J
C103,104		*	CE04RW1V100M	ELECTRO	10UF	35WV
C105,106			CC73FCH1H221J	CHIP C	220PF	J
C107,108			CE04RW0J470M	ELECTRO	47UF	6.3WV
C109,110			CC73FCH1H471J	CHIP C	470PF	J
C111,112			CQ93FMG1H123J	MYLAR	0.012UF	J
C113,114			CK45FB1H332K	CERAMIC	3300PF	K
C115,116			CE04LW1V4R7M	ELECTRO	4.7UF	35WV
C117,118			CC45FCH1H101J	CERAMIC	100PF	J

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7

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C119-136 C137,138 C139,140 C141,142 C143,144			CC73FCH1H221J CE04LW1H2R2M CC73FCH1H101J CE04LW1H2R2M CC73FCH1H101J	CHIP C 220PF J ELECTRO 2.2UF 50WV CHIP C 100PF J ELECTRO 2.2UF 50WV CHIP C 100PF J		
C145,146 C147,148 C149,150 C151,152 C153,154			CE04LW1C220M CC73FCH1H471J CE04LW1E470M CC73FCH1H100D CE04KW1H100M	ELECTRO 22UF 16WV CHIP C 470PF J ELECTRO 47UF 25WV CHIP C 10PF D ELECTRO 10UF 50WV		
C155,156 C157,158 C159,160 C161,162 C163,164			CE04KW1H2R2M CC73FCH1H102J CK73FB1H222K CC73FCH1H220J CC73FCH1H102J	ELECTRO 2.2UF 50WV CHIP C 1000PF J CHIP C 2200PF K CHIP C 22PF J CHIP C 1000PF J		
C165,166 C167-170 C171,172 C173,174 C173,174			CE04KW1A101M CK73FF1E104Z CQ93FMG1H472J CC73FCH1H221J CC73FCH1H221J	ELECTRO 100UF 10WV CHIP C 0.10UF Z MYLAR 4700PF J CHIP C 220PF J CHIP C 220PF J	E MIX	3 8
C173,174 C175,176 C177,178 C179,180 C181,182			CC73FCH1H221J CC73FCH1H471J CE04LW1E470M CC73FCH1H100D CE04KW1H100M	CHIP C 220PF J CHIP C 470PF J ELECTRO 47UF 25WV CHIP C 10PF D ELECTRO 10UF 50WV	Y	9
C183,184 C185,186 C187,188 C189,190 C191,192			CE04KW1H2R2M CC73FCH1H102J CK73FB1H222K CC45FCH1H220J CC73FCH1H102J	ELECTRO 2.2UF 50WV CHIP C 1000PF J CHIP C 2200PF K CERAMIC 22PF J CHIP C 1000PF J		
C193,194 C195-198 C199-202 C203,204 C203,204			CE04KW1A101M CK73FF1E104Z CQ93FMG1H472J CC73FCH1H221J CC73FCH1H221J	ELECTRO 100UF 10WV CHIP C 0.10UF Z MYLAR 4700PF J CHIP C 220PF J CHIP C 220PF J	E MIX	3 8
C203,204 C205 C206 C207 C208			CC73FCH1H221J CC73FCH1H471J CE04LW1E470M CC73FCH1H100D CE04KW1H100M	CHIP C 220PF J CHIP C 470PF J ELECTRO 47UF 25WV CHIP C 10PF D ELECTRO 10UF 50WV	Y	9
C209 C210 C211 C212 C213			CE04KW1H2R2M CC73FCH1H102J CK73FB1H222K CC45FCH1H220J CC73FCH1H102J	ELECTRO 2.2UF 50WV CHIP C 1000PF J CHIP C 2200PF K CERAMIC 22PF J CHIP C 1000PF J		
C214 C215,216 C217 C218 C218			CE04KW1A101M CK73FF1E104Z CQ93FMG1H472J CC73FCH1H221J CC73FCH1H221J	ELECTRO 100UF 10WV CHIP C 0.10UF Z MYLAR 4700PF J CHIP C 220PF J CHIP C 220PF J	E MIX	3 8
C218 C220 C221 C222 C223			CC73FCH1H221J CC73FCH1H471J CE04LW1A101M CC73FCH1H101J CE04LW1H100M	CHIP C 220PF J CHIP C 470PF J ELECTRO 100UF 10WV CHIP C 100PF J ELECTRO 10UF 50WV	Y	9

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8

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C224 C225,226 C227-230 C231,232 C231,232			CC73FCH1H221J CK45FF1H103Z CC73FCH1H101J C90-3916-05 C90-3918-05	CHIP C 220PF J CERAMIC 0.010UF Z CHIP C 100PF J ELECTRO 4700UF 75WV ELECTRO 4700UF 63WV	EE1T	789
C233,234 C233,234 C235 C236 C237,238			C90-3917-05 C90-3919-05 CE04KW1E222M CE04KW1E471M CE04LW1C101M	ELECTRO 3300UF 42WV ELECTRO 3300UF 35WV ELECTRO 2200UF 25WV ELECTRO 470UF 25WV ELECTRO 100UF 16WV	EE1T	789
C239 C240 C241 C242 C245			CE04LW1H220M CE04LW1V470M CC45FCH1H101J CK45FF1H103Z CC73FCH1H221J	ELECTRO 22UF 50WV ELECTRO 47UF 35WV CERAMIC 100PF J CERAMIC 0.010UF Z CHIP C 220PF J		
C246 C247 C248 C250 C251,252			CK45FF1H103Z CC73FCH1H101J CC73FCH1H221J CC73FCH1H102J CE04KW2A100M	CERAMIC 0.010UF Z CHIP C 100PF J CHIP C 220PF J CHIP C 1000PF J ELECTRO 10UF 100WV		
C253,254 C255,256 C259 C260 C261			CE04KW2A101M CE04DW1J101M CE04LW1A101M CE04LW0J221M CE04LW1V4R7M	ELECTRO 100UF 100WV ELECTRO 100UF 63WV ELECTRO 100UF 10WV ELECTRO 220UF 6.3WV ELECTRO 4.7UF 35WV		
C262 C263 C264 C265-267 C268			CE04LW0J221M CE04LW1V4R7M CE04LW1H010M CC73FCH1H102J CK73FF1C105Z	ELECTRO 220UF 6.3WV ELECTRO 4.7UF 35WV ELECTRO 1.0UF 50WV CHIP C 1000PF J CHIP C 1.0UF Z		
C415 C416,417 C601 C602 C603			CE04LW1H010M CE04HW1E100M CE04LW1E332M CE04LW1H100M CK45FF1H103Z	ELECTRO 1.0UF 50WV NP-ELEC 10UF 25WV ELECTRO 3300UF 25WV ELECTRO 10UF 50WV CERAMIC 0.010UF Z		
C604 C605 C606 C606 C606			CE04LW1H100M CE04LW0J222M CK73FB1E104K CK73FB1E104K CK73FB1H683K	ELECTRO 10UF 50WV ELECTRO 2200UF 6.3WV CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 0.068UF K	YMI EE1T KPK1X YMI	
CN1 CN2 CN3 CN4 CN4			E40-8364-05 E40-8197-05 E40-8485-05 E40-4871-05 E40-4871-05	PIN ASSY SOCKET FOR PIN ASSY FLAT CABLE CONNECTOR PIN ASSY PIN ASSY	EE1T KPK1	
CN5 CN6 CN7 CN61 CN62			E40-9831-05 E40-9848-05 E40-8490-05 E40-4245-05 E40-4245-05	SOCKET FOR PIN ASSY PIN ASSY FLAT CABLE CONNECTOR PIN ASSY PIN ASSY	EE1T	
CN62 CN63 CN64 CN64 CN65			E40-4245-05 E40-4428-05 E40-4245-05 E40-4245-05 E40-8196-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY	KPK1X YMI EE1T YMI	

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KRF-V7030D/V8030D/VR-407/409
PARTS LIST

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9

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
J1			E70-0049-05	SCREW TERMINAL BOARD		
J2			E70-0065-05	LOCK TERMINAL BOARD		
J3 ,4		*	E63-1143-05	PIN JACK		
J5		*	E63-1144-05	PIN JACK		
J6		*	E63-1145-05	PIN JACK (6P)	YMIXE	
J7		*	E63-1146-05	PIN JACK (1P)	EE1T	
J7		*	E63-1146-05	PIN JACK	KP	97
J7		*	E63-1146-05	PIN JACK		
J8			E20-0321-05	LOCK TERMINAL BOARD(2P,F)		
J8			E70-0052-05	LOCK TERMINAL BOARD		
Δ J61			E03-0148-05	AC OUTLET	KPK1Y	
Δ J61			E03-0149-05	AC OUTLET	EE1MI	
Δ J61			E03-0310-05	AC OUTLET	T	
Δ J61			E03-0325-05	AC OUTLET	X	
E1			F10-1129-14	SHIELDING PLATE		789
E1			F10-1167-04	SHIELDING PLATE		
Δ F1		*	F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	EE1T	
Δ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	EE1T	
Δ F1			F50-0077-05	FUSE(5X20)	YMIX	
Δ F1			F50-0077-05	FUSE(5X20)	KPK1	
Δ F2			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	EE1	
Δ CN66,67			J13-0075-05	FUSE CLIP		
Δ CN68,69			J13-0075-05	FUSE CLIP	EE1	
CF1 ,2			L72-0531-05	CERAMIC FILTER	YMIX	
CF1 ,2			L72-0536-05	CERAMIC FILTER	EE1T	
CF1 ,2			L72-0596-05	CERAMIC FILTER	KPK1	
CF3			L72-0607-05	CERAMIC FILTER	YMIX	
L1		*	L39-1384-05	COMBINATION COIL		
L2			L40-1091-82	SMALL FIXED INDUCTOR(1.0UH)		
L3			L30-0911-05	AM IFT		
L4			L30-0933-05	FM IFT	KPK1	
L4			L30-0950-05	FM IFT	EE1T	
L5			L30-0951-05	FM IFT	EE1T	
L6 ,7			L79-1236-05	LC FILTER	EE1T	
L8			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	EE1T	
L101-105			L39-1373-05	PHASE COMPENSATION COIL		
Δ T1			L07-2758-05	POWER TRANSFORMER	EE1T	
Δ T1			L07-2758-05	POWER TRANSFORMER	KPK1X	
Δ T1			L07-2761-05	POWER TRANSFORMER	EE1T	
Δ T1			L07-2761-05	POWER TRANSFORMER	KPK1X	
Δ T1			L07-2805-05	POWER TRANSFORMER	YMI	
X1		*	L77-2232-05	CRYSTAL RESONATOR		
R1			RK73FB2A101J	CHIP R 100 J 1/10W		
R4			RK73FB2A681J	CHIP R 680 J 1/10W		
R5			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R6			RK73FB2A221J	CHIP R 220 J 1/10W		
R7			RK73FB2A821J	CHIP R 820 J 1/10W		
R8			RK73FB2A100J	CHIP R 10 J 1/10W	EE1T	
R8			RK73FB2A330J	CHIP R 33 J 1/10W		789
R9			RK73FB2A391J	CHIP R 390 J 1/10W		
R10			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R11			RK73FB2A220J	CHIP R 22 J 1/10W	EE1T	

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10

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R11			RK73FB2A330J	CHIP R 33 J 1/10W		789
R12			RK73FB2A101J	CHIP R 100 J 1/10W		
R14			RK73FB2A101J	CHIP R 100 J 1/10W	EE1T	
R14			RK73FB2A101J	CHIP R 100 J 1/10W	KPK1	
R14			RK73FB2A271J	CHIP R 270 J 1/10W	YMIX	
R15			RK73FB2A333J	CHIP R 33K J 1/10W	EE1T	
R15			RK73FB2A472J	CHIP R 4.7K J 1/10W	KPK1	
R16			RK73FB2A220J	CHIP R 22 J 1/10W		
R17			RK73FB2A362J	CHIP R 3.6K J 1/10W		
R18			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R19			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R20			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R23			RK73FB2A153J	CHIP R 15K J 1/10W	EE1T	
R23			RK73FB2A332J	CHIP R 3.3K J 1/10W	YMIX	
R23			RK73FB2A912J	CHIP R 9.1K J 1/10W	KPK1	
R25			RK73FB2A163J	CHIP R 16K J 1/10W	KPK1	
R25			RK73FB2A183J	CHIP R 18K J 1/10W	YMIX	
R25			RK73FB2A273J	CHIP R 27K J 1/10W	EE1T	
R27 ,28			RK73FB2A432J	CHIP R 4.3K J 1/10W	EE1T	
R27 ,28			RK73FB2A682J	CHIP R 6.8K J 1/10W	KPK1	
R27 ,28			RK73FB2A752J	CHIP R 7.5K J 1/10W	YMIX	
R29			RK73FB2A101J	CHIP R 100 J 1/10W	YMI	
R30			RK73FB2A561J	CHIP R 560 J 1/10W	YMI	
R31			RK73FB2A473J	CHIP R 47K J 1/10W	YMI	
R32			RK73FB2A272J	CHIP R 2.7K J 1/10W		789
R33 ,34			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R35			RK73FB2A101J	CHIP R 100 J 1/10W	EE1T	
R36			RK73FB2A102J	CHIP R 1.0K J 1/10W	EE1T	
R37			RK73FB2A392J	CHIP R 3.9K J 1/10W	EE1T	
R38			RK73FB2A102J	CHIP R 1.0K J 1/10W	EE1T	
R39			RK73FB2A103J	CHIP R 10K J 1/10W	EE1T	
R42			RK73FB2A103J	CHIP R 10K J 1/10W		
R43			RK73FB2A221J	CHIP R 220 J 1/10W		
R44			RD14NB2E271J	RD 270 J 1/4W		
R45			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R46			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R47			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R48			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R49			RK73FB2A103J	CHIP R 10K J 1/10W		
Δ R50			RD14NB2E471J	RD 470 J 1/4W		
R51			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R52			RK73FB2A101J	CHIP R 100 J 1/10W		
R53			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R54			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R55			RK73FB2A333J	CHIP R 33K J 1/10W		
R56 ,57			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R58			RK73FB2A123J	CHIP R 12K J 1/10W		
R59			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R72 ,73			RK73FB2A153J	CHIP R 15K J 1/10W	KPK1	
R72 ,73			RK73FB2A392J	CHIP R 3.9K J 1/10W	EE1T	
R72 ,73			RK73FB2A822J	CHIP R 8.2K J 1/10W	YMIX	
R74			RK73FB2A473J	CHIP R 47K J 1/10W		
R75			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R76			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R78			RK73FB2A821J	CHIP R 820 J 1/10W		

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11

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R79			RK73FB2A102J	CHIP R	1.0K	J	1/10W	EE1T	
R80			RK73FB2A223J	CHIP R	22K	J	1/10W		
R81			RS14KB3A820J	FL-PROOF RS	82	J	1W		
R82			RK73FB2A272J	CHIP R	2.7K	J	1/10W	EE1T	
R83			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R85 -87			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R88			RK73FB2A563J	CHIP R	56K	J	1/10W		
R89			RK73FB2A333J	CHIP R	33K	J	1/10W		
R101,102			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R103,104			RK73FB2A273J	CHIP R	27K	J	1/10W		
R105,106			RK73FB2A101J	CHIP R	100	J	1/10W		
R117,118			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R119,120			RK73FB2A224J	CHIP R	220K	J	1/10W		
R121,122			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R123,124			RK73FB2A224J	CHIP R	220K	J	1/10W		
R125,126			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R127,128			RK73FB2A224J	CHIP R	220K	J	1/10W		
R129,130			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R131,132			RK73FB2A224J	CHIP R	220K	J	1/10W		
R133,134			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R135,136			RK73FB2A224J	CHIP R	220K	J	1/10W		
R137,138			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R139,140			RK73FB2A224J	CHIP R	220K	J	1/10W		
R141,142			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R143,144			RK73FB2A224J	CHIP R	220K	J	1/10W		
R145,146			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R147,148			RK73FB2A224J	CHIP R	220K	J	1/10W		
R149,150			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R151-156			RK73FB2A224J	CHIP R	220K	J	1/10W		
R159			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R161,162			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R163,164			RK73FB2A682J	CHIP R	6.8K	J	1/10W		
R165,166			RK73FB2A183J	CHIP R	18K	J	1/10W		
R167,168			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R169,170			RK73FB2A224J	CHIP R	220K	J	1/10W		
R171,172			RK73FB2A183J	CHIP R	18K	J	1/10W		
R173,174			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R175,176			RK73FB2A104J	CHIP R	100K	J	1/10W		
R177,178			RK73FB2A563J	CHIP R	56K	J	1/10W		
R179			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R180			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R181-184			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
R185,186			RK73FB2A563J	CHIP R	56K	J	1/10W		789
R187,188			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R187,188			RK73FB2A242J	CHIP R	2.4K	J	1/10W	EE1T	
R189,190			RS14KB3D120J	FL-PROOF RS	12	J	2W		
R191,192			RS14KB3D391J	FL-PROOF RS	390	J	2W		
R195,196			RK73FB2A104J	CHIP R	100K	J	1/10W	E MIX	3 8
R195,196			RK73FB2A104J	CHIP R	100K	J	1/10W		
R195,196			RK73FB2A104J	CHIP R	100K	J	1/10W	Y E YMIX	9 3
R197,198			RK73FB2A331J	CHIP R	330	J	1/10W		
R197,198			RK73FB2A331J	CHIP R	330	J	1/10W		
R199,200			RK73FB2A333J	CHIP R	33K	J	1/10W		
R201,202			RK73FB2A303J	CHIP R	30K	J	1/10W		

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12

Ref. No	Add-ress	New Parts	Parts No.	Description				Desti-nation	Re-marks
R203,204 R205,206 R209,210 R211,212 R213,214			RK73FB2A912J RK73FB2A471J RK73FB2A102J RK73FB2A273J RK73FB2A182J	CHIP R CHIP R CHIP R CHIP R CHIP R	9.1K 470 1.0K 27K 1.8K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R215,216 R217,218 R219,220 R221,222 R223,224			RK73FB2A224J RK73FB2A183J RK73EB2B222J RK73FB2A104J RK73FB2A563J	CHIP R CHIP R CHIP R CHIP R CHIP R	220K 18K 2.2K 100K 56K	J J J J J	1/10W 1/10W 1/8W 1/10W 1/10W		
R225 R227-230 R233,234 R233,234 R235,236			RK73FB2A102J RS14KB3DR22J RK73FB2A182J RK73FB2A242J RS14KB3D120J	CHIP R FL-PROOF RS CHIP R CHIP R FL-PROOF RS	1.0K 0.22 1.8K 2.4K 12	J J J J J	1/10W 2W 1/10W 1/10W 2W	EE1T	789
R239,240 R239,240 R239,240 R241,242 R241,242			RK73FB2A104J RK73FB2A104J RK73FB2A104J RK73FB2A331J RK73FB2A331J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 100K 100K 330 330	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W	E MIX Y E MIX	3 8 9 3 8
R241,242 R243,244 R245,246 R247,248 R249,250			RK73FB2A331J RK73FB2A333J RK73FB2A303J RK73FB2A912J RK73FB2A471J	CHIP R CHIP R CHIP R CHIP R CHIP R	330 33K 30K 9.1K 470	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W	Y	9
R251 R252 R253 R254 R256			RK73FB2A183J RK73FB2A182J RK73FB2A224J RK73FB2A183J RK73FB2A104J	CHIP R CHIP R CHIP R CHIP R CHIP R	18K 1.8K 220K 18K 100K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R257 R259,260 R262 R262 R263			RK73FB2A563J RS14KB3DR22J RK73FB2A182J RK73FB2A242J RS14KB3D120J	CHIP R FL-PROOF RS CHIP R CHIP R FL-PROOF RS	56K 0.22 1.8K 2.4K 12	J J J J J	1/10W 2W 1/10W 1/10W 2W	EE1T	789
R265 R265 R265 R266 R266			RK73FB2A104J RK73FB2A104J RK73FB2A104J RK73FB2A331J RK73FB2A331J	CHIP R CHIP R CHIP R CHIP R CHIP R	100K 100K 100K 330 330	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W	E MIX Y E MIX	3 8 9 3 8
R266 R267 R268 R269 R270			RK73FB2A331J RK73FB2A303J RK73FB2A912J RK73FB2A471J RK73FB2A333J	CHIP R CHIP R CHIP R CHIP R CHIP R	330 30K 9.1K 470 33K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W	Y	9
R271 R272 R273 R274 R276			RK73FB2A183J RK73FB2A241J RK73FB2A332J RK73FB2A183J RK73FB2A224J	CHIP R CHIP R CHIP R CHIP R CHIP R	18K 240 3.3K 18K 220K	J J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R277 R278 R279,280 R281 R283		* *	RK73FB2A331J RK73FB2A102J R92-1956-05 R92-1945-05 RK73FB2A1R0J	CHIP R CHIP R METAL GLAZE METAL GLAZE CHIP R	330 1.0K 33K 1 1	J J J J J	1/10W 1/10W 1/4W 1/4W 1/10W		

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R604			RD14NB2E100J	RD 10 J 1/4W		
R604			RD14NB2E390J	RD 39 J 1/4W		KPK1 EE1T
R604			RD14NB2E390J	RD 39 J 1/4W		X
R609			RD14NB2E151J	RD 150 J 1/4W		EE1T
R609			RD14NB2E181J	RD 180 J 1/4W		X
R609			RD14NB2E2R2J	RD 2.2 J 1/4W		YMI
R609			RD14NB2E270J	RD 27 J 1/4W		KPK1
R610			R92-1844-05	CARBON 3.3M J 1/2W		KPK1
VR1			R92-0037-05	SEMI FIXED VARIABLE RESISTOR		
W108			R92-0670-05	CHIP R 0 OHM		
W301			R92-0679-05	CHIP R 0 OHM		
W302			R92-0670-05	CHIP R 0 OHM		
W303-306			R92-0679-05	CHIP R 0 OHM		
W307			R92-0670-05	CHIP R 0 OHM		
W308			R92-0679-05	CHIP R 0 OHM		
W309-311			R92-0670-05	CHIP R 0 OHM		
W312			R92-0679-05	CHIP R 0 OHM		
W313			R92-0670-05	CHIP R 0 OHM		
W315-318			R92-0679-05	CHIP R 0 OHM		
W319,320			R92-0670-05	CHIP R 0 OHM		
W321			R92-0679-05	CHIP R 0 OHM		
W322,323			R92-0670-05	CHIP R 0 OHM		
W324-333			R92-0679-05	CHIP R 0 OHM		
W336			R92-0679-05	CHIP R 0 OHM		
W338,339			R92-0670-05	CHIP R 0 OHM		
W340,341			R92-0679-05	CHIP R 0 OHM		
W342,343			R92-0670-05	CHIP R 0 OHM		
W506			R92-0679-05	CHIP R 0 OHM		
W513,514			R92-0679-05	CHIP R 0 OHM		
W523			R92-0679-05	CHIP R 0 OHM		
W651-655			R92-0670-05	CHIP R 0 OHM		
W656			R92-0670-05	CHIP R 0 OHM		
W659			R92-0670-05	CHIP R 0 OHM		
W660			R92-0670-05	CHIP R 0 OHM		
W662			R92-0670-05	CHIP R 0 OHM		
W680			R92-0679-05	CHIP R 0 OHM		
W682,683			R92-0679-05	CHIP R 0 OHM		
W684,685			R92-0679-05	CHIP R 0 OHM		
K1 -4			S76-0042-05	MAGNETIC RELAY		
K1 -4		*	S76-0097-05	MAGNETIC RELAY		KPK1 EE1T
K1 -4		*	S76-0097-05	MAGNETIC RELAY		YMI
K601		*	S76-0099-05	MAGNETIC RELAY		KPK1
K601		*	S76-0107-05	MAGNETIC RELAY		EE1T
K601		*	S76-0107-05	MAGNETIC RELAY		
S1			S62-0034-05	MAGNETIC RELAY SLIDE SWITCH		YMI
D1			UDZ3.3B	ZENER DIODE		
D101			D5SBA20F03	DIODE		
D102			S1ZB20(4101)	DIODE		
D103			D5SBA20F03	DIODE		KPK1YX E1TMI
D103			RBV-602LFA	DIODE		
D104			HZS16N(B2)	ZENER DIODE		
D104			MTZJ16(B)	ZENER DIODE		
D105			HZS15N(B2)	ZENER DIODE		
D105			MTZJ15(B)	ZENER DIODE		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R284			RK73FB2A104J	CHIP R 100K J 1/10W		
R285			R92-1945-05	METAL GLAZE 1 J 1/4W		
R287			RK73EB2B101J	CHIP R 100 J 1/8W		
R301,302			RK73FB2A513J	CHIP R 51K J 1/10W		
R303-306			RS14KB3A392J	FL-PROOF RS 3.9K J 1W		
R307			RK73EB2B273J	CHIP R 27K J 1/8W		
R308			RK73FB2A273J	CHIP R 27K J 1/10W		
R309,310			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R312			RD14NB2E103J	RD 10K J 1/4W		
R313,314			RK73FB2A473J	CHIP R 47K J 1/10W		
R315			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R316			RD14NB2E101J	RD 100 J 1/4W		
R317			RD14BB2C752J	RD 7.5K J 1/6W		
R320			RK73FB2A103J	CHIP R 10K J 1/10W		
R323			RK73FB2A393J	CHIP R 39K J 1/10W		
R324,325			RK73FB2A753J	CHIP R 75K J 1/10W		
R326-328			RK73FB2A473J	CHIP R 47K J 1/10W		
R329			RK73FB2A123J	CHIP R 12K J 1/10W		
R330			RK73FB2A153J	CHIP R 15K J 1/10W		
R331			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R332			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R333			RK73FB2A223J	CHIP R 22K J 1/10W		
R334			RK73FB2A123J	CHIP R 12K J 1/10W		
R335			RK73FB2A153J	CHIP R 15K J 1/10W		
R336			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R337			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R339,340			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R341			R92-1945-05	METAL GLAZE 1 J 1/4W		
R342-344			RS14KB3A151J	FL-PROOF RS 150 J 1W		
R347			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
R349			RS14KB3A4R7J	FL-PROOF RS 4.7 J 1W		
R350			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R351			RK73FB2A103J	CHIP R 10K J 1/10W		
R352			RK73FB2A223J	CHIP R 22K J 1/10W		
R353			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R356-358			RK73FB2A103J	CHIP R 10K J 1/10W		
R360			RK73FB2A103J	CHIP R 10K J 1/10W		
R361,362			RK73FB2A473J	CHIP R 47K J 1/10W		
R363			RK73FB2A361J	CHIP R 360 J 1/10W		
R365-369			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R365-369			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R370			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R371			RK73FB2A563J	CHIP R 56K J 1/10W		
R372			RK73FB2A104J	CHIP R 100K J 1/10W		
R373			RK73FB2A361J	CHIP R 360 J 1/10W		
R375			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R377,378			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R384			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R387,388			RK73FB2A473J	CHIP R 47K J 1/10W		
R389			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R390			RK73FB2A473J	CHIP R 47K J 1/10W		
R391-394			RK73FB2A470J	CHIP R 47 J 1/10W		
R397-399			RD14NB2E1R0J	RD 1 J 1/4W		
R601			RD14NB2E1R0J	RD 1 J 1/4W		

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15

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D106,107 D108 D108 D109 D109			MA111 UDZ6.2B UDZ8.2B UDZ10B UDZ15B	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	EE1T EE1T	 789 789
D110 D110 D111-115 D117-120 D121			UDZ13B UDZ16B MA111 UDZ15B MA111	ZENER DIODE ZENER DIODE DIODE ZENER DIODE DIODE	EE1T	789
D122 D123 D123 D124 D125,126			UDZ3.9B HSS104A 1SS133 UDZ3.9B 1SS133	ZENER DIODE DIODE DIODE ZENER DIODE DIODE	 YMI	
D127-130 D201 D201 D201 D203			MA111 DA204U MA143A 1SS302 HZS8.2N(B2)	DIODE DIODE DIODE DIODE ZENER DIODE		
D203 D204 D204 D209 D209			MTZJ8.2(B) HZS5.1N(B2) MTZJ5.1(B) HZS3.3N(B2) MTZJ3.3(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D211 D213 D601 D602-605 D602-605	Δ Δ		MA111 MA111 S1ZB20(4101) HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE	EE1T	
D608 D608 D608 D608 IC101	 Δ		HSS104A RB721Q RB721Q 1SS133 STK412-020A	DIODE DIODE DIODE DIODE HYBRID IC	KPK1 EE1T YMI KPK1	
IC102 IC103 IC104 IC105 IC106	Δ Δ Δ	*	STK413-020A KIA7812API KIA7912PI NJM4580ED NJU7313AM	HYBRID IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC		
IC107,108 IC109 IC110-112 IC201 IC201	 Δ	*	NJM4565M NJU7313AM NJM4565M LA1837 LA1837	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	EE1T KPK1	
IC201 IC202 IC601 IC602 IC602	 Δ Δ Δ		LA1838 LC72131 XC62FP5102P BA05T BA05T	ANALOGUE IC MOS-IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	YMI KPK1 EE1T YMI	
Q1 ,2 Q1 ,2 Q3 ,4 Q3 ,4 Q3 ,4			2SC1740S(Q,R) 2SC2785(F,E) 2SD2351 2SD2351 2SD2351	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	E XMI Y	3 8 9

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15

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Q5 ,6 Q7 ,8 Q7 ,8 Q9 ,10 Q9 ,10			2SD2351 2SC1740S(Q,R) 2SC2785(F,E) 2SD2351 2SD2351	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	E XMI	3 8
Q9 ,10 Q11 ,12 Q13 ,14 Q13 ,14 Q15			2SD2351 2SD2351 2SC1740S(Q,R) 2SC2785(F,E) 2SD2351	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	Y	9
Q15 Q15 Q16 Q17 Q51 -53			2SD2351 2SD2351 2SD2351 2SC2878(B) 2SA1576A(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	XMI Y	8 9
Q51 -53 Q54 Q113-117 Q118 Q118	Δ		2SB1218A(Q,R) 2SB1640 2SC3906K 2SA1576A(R,S) 2SB1218A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q119,120 Q121 Q121 Q122,123 Q132			2SC3906K 2SA1576A(R,S) 2SB1218A(Q,R) 2SC1845(F,E) 2SC3906K	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q133 Q134 Q135 Q135 Q136			2SB1566 2SC1845(F,E) 2SA1576A(R,S) 2SB1218A(Q,R) UN5219	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR		
Q137 Q138 Q139-142 Q201 Q201	Δ Δ		2SD2395 2SB1640 DTC123JUA 2SC4081(R,S) 2SD1819A(Q,R)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q202 Q202 Q203,204 Q206,207 Q206,207			2SA1576A(R,S) 2SB1218A(Q,R) 2SD1819A(Q,R) 2SC4081(R,S) 2SD1819A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	YMI EE1T EE1T	
Q210,211 Q212 Q212 Q214 Q214			2SD1757K 2SA1576A(R,S) 2SB1218A(Q,R) 2SA1576A(R,S) 2SB1218A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q601 Q601			2SC1740S(Q,R) 2SC2785(F,E)	TRANSISTOR TRANSISTOR		
A1 A1			W02-2584-05 W02-2622-05	FM FRONT-END ASSY FM FRONT-END ASSY	EE1T	789
PREAMPLIFIER UNIT (X08-3010-XX)						
C1 ,2 C3 C4 C5 ,6			CE04RW1C100M CK73FB1H103K CC73FCH1H101J CK73FB1H222K	ELECTRO CHIP C CHIP C CHIP C	10UF 0.010UF 100PF 2200PF	16WV K J K

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17

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C7 ,8 C9 ,10 C21 C22 C23			CK73FB1E104K CE04RW1C4R7M CK73FB1E104K CE04LW1H100M CK73FB1H102K	CHIP C ELECTRO CHIP C ELECTRO CHIP C	0.10UF 4.7UF 0.10UF 10UF 1000PF	K 16WV K 50WV K
C24 ,25 C26 C27 C29 C31		*	CK73FB1E104K CK73FF1C105Z C91-1597-05 CK73FB1H103K CC73FCH1H220J	CHIP C CHIP C CERAMIC CHIP C CHIP C	0.10UF 1.0UF 4.7UF 0.010UF 22PF	K Z Z K J
C32 C33 C34 C35 ,36 C37			CK73FB1H472K CC73FCH1H220J CK73FB1H472K CK73FF1C105Z CK73FF1C105Z	CHIP C CHIP C CHIP C CHIP C CHIP C	4700PF 22PF 4700PF 1.0UF 1.0UF	K J K Z Z
C37 C41 C42 C43 ,44 C45			CK73FF1C105Z CK73FCH1H220J CC73FCH1H270J CK73FB1H102K CK73FB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	1.0UF 22PF 27PF 1000PF 0.010UF	Z J J K K
C46 C54 ,55 C56 C57 C58 ,59			CC73FCH1H220J CC73FCH1H220J CK73FB1H102K CK73FF1C105Z CK73FB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	22PF 22PF 1000PF 1.0UF 0.010UF	J J K Z K
C103,104 C105,106 C107,108 C111,112 C121,122			CK73FF1C105Z CK73FB1H182K CK73FB1H222K CC73FCH1H101J CC73FCH1H220J	CHIP C CHIP C CHIP C CHIP C CHIP C	1.0UF 1800PF 2200PF 100PF 22PF	Z K K J J
C125 C126 C141 C151,152 C153,154			CK73FB1H103K CC73FCH1H101J CC73FCH1H101J CK73FF1C225Z CC73FCH1H101J	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 100PF 100PF 2.2UF 100PF	K J J Z J
C155,156 C157-160 C161,162 C163,164 C163,164			CK73FF1C105Z CK73FF1C225Z CK73FB1H822K CK73FB1H153K CK73FB1H153K	CHIP C CHIP C CHIP C CHIP C CHIP C	1.0UF 2.2UF 8200PF 0.015UF 0.015UF	Z Z K K K
C163,164 C165,166 C165,166 C165,166 C167,168			CK73FB1H333K CK73FB1C334K CK73FB1C334K CK73FB1C474K CK73FF1C225Z	CHIP C CHIP C CHIP C CHIP C CHIP C	0.033UF 0.33UF 0.33UF 0.47UF 2.2UF	K K K K Z
C169,170 C177-182 C183 C184 C185,186			CK73FB1H222K CK73FF1C225Z CK73FF1C105Z CC73FCH1H221J CK73FB1E104K	CHIP C CHIP C CHIP C CHIP C CHIP C	2200PF 2.2UF 1.0UF 220PF 0.10UF	K Z Z J K
C187,188 C203,204 C205,206 C207,208 C209			CK73FB1H102K CK73FF1C105Z CK73FB1H222K CK73FB1H102K CK73FB1H472K	CHIP C CHIP C CHIP C CHIP C CHIP C	1000PF 1.0UF 2200PF 1000PF 4700PF	K Z K K K

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18

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C209 C210-212 C251-256 C303,304 C305			CK73FB1H472K CC73FCH1H101J CC73FCH1H221J CK73FF1C105Z CK73FB1H182K	CHIP C CHIP C CHIP C CHIP C CHIP C	4700PF 100PF 220PF 1.0UF 1800PF	K J J Z K
C306 C307 C308 C309 C310,311			CK73FB1H682K CK73FB1H222K CK73FB1H822K CK73FB1H103K CC73FCH1H101J	CHIP C CHIP C CHIP C CHIP C CHIP C	6800PF 2200PF 8200PF 0.010UF 100PF	K K K K J
C401-403 C411-414 C415-418 C419 C450			CK73FB1H103K CC73FCH1H220J CC73FCH1H101J CC73FCH1H100D CK73FB1H103K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 22PF 100PF 10PF 0.010UF	K J J D K
C451 C452 C453,454 C455 C456,457			CK73FB1E104K CE04LW1C222M CK73FB1E104K CE04LW1A101M CK73FB1E104K	CHIP C ELECTRO CHIP C ELECTRO CHIP C	0.10UF 2200UF 0.10UF 100UF 0.10UF	K 16WV K 10WV K
C458 C459,460 C461 C501-504 C505			C92-0047-05 CK73FB1E104K CE04LW1E470M CK73FB1E104K CK73FB1H102K	CHIP-ELE CHIP C ELECTRO CHIP C CHIP C	47UF 0.10UF 47UF 0.10UF 1000PF	6.3WV K 25WV K K
C506 C507 C508 C509 C510,511			CC73FCH1H471J CK73FB1H103K CE04LW1H2R2M CE04LW1E470M CK73FB1H103K	CHIP C CHIP C ELECTRO ELECTRO CHIP C	470PF 0.010UF 2.2UF 47UF 0.010UF	J K 50WV 25WV K
C601 C602 C603 C604 C605			CC73FCH1H470J CE04LW1E470M CC73FCH1H470J CE04LW1E470M CC73FCH1H470J	CHIP C ELECTRO CHIP C ELECTRO CHIP C	47PF 47UF 47PF 47UF 47PF	J 25WV J 25WV J
C606 C607 C608 C609,610 C611			CE04LW1E470M CC73FCH1H470J CE04LW1E470M CC73FCH1H470J CE04LW1E470M	ELECTRO CHIP C ELECTRO CHIP C ELECTRO	47UF 47PF 47UF 47PF 47UF	25WV J 25WV J 25WV
C621,622 C651,652 C653 C654 C655,656			CK73FB1E104K CC73FCH1H470J CK73FB1H103K CE04LW1E470M CC73FCH1H470J	CHIP C CHIP C CHIP C ELECTRO CHIP C	0.10UF 47PF 0.010UF 47UF 47PF	K J K 25WV J
C657 C658 C659,660 C661 C662			CK73FB1H103K CE04LW1E470M CC73FCH1H470J CK73FB1H103K CE04LW1E470M	CHIP C ELECTRO CHIP C CHIP C ELECTRO	0.010UF 47UF 47PF 0.010UF 47UF	K 25WV J K 25WV
C663,664 C665 C666 C667-670 C671			CC73FCH1H470J CK73FB1H103K CE04LW1E470M CC73FCH1H470J CK73FB1H103K	CHIP C CHIP C ELECTRO CHIP C CHIP C	47PF 0.010UF 47UF 47PF 0.010UF	J K 25WV J K

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19

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C672 C681,682 C751,752 C753			CE04LW1E470M CE04LW1H100M CC73FCH1H221J CK73FB1H103K	ELECTRO 47UF 25WV ELECTRO 10UF 50WV CHIP C 220PF J CHIP C 0.010UF K		
CN1 CN2 CN3 CN5 CN5		*	E40-8485-05 E40-8484-05 E40-4297-05 E40-4248-05 E40-8358-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY PIN ASSY		
J1 J2 J61 J65 ,66 J75		*	E63-1080-05 E63-1139-05 E63-1142-05 E56-0011-05 E11-0293-05	PIN JACK PIN JACK PIN JACK CYLINDRICAL RECEPTACLE MINIATURE PHONE JACK(2P)		
E1			J11-0809-05	WIRE CLAMPER		
L31 ,32 L41 X1		*	L92-0511-05 L92-0510-05 L77-2296-05	CHIP FERRITE CHIP FERRITE CRYSTAL RESONATOR(12.288MHZ)		
CP41-44 CP51,52 R1 ,2 R3 ,4 R5 ,6			R90-0728-05 R90-0714-05 RK73FB2A562J RK73FB2A101J RK73FB2A471J	MULTI-COMP 180 X4 MULTI-COMP 10K X4 CHIP R 5.6K J 1/10W CHIP R 100 J 1/10W CHIP R 470 J 1/10W		
R7 -10 R11 ,12 R20 R21 R31 ,32		*	RK73FB2A472J RK73FB2A471J R92-1946-05 RK73FB2A221J RK73FB2A820J	CHIP R 4.7K J 1/10W CHIP R 470 J 1/10W METAL GLAZE 4.7 J 1/4W CHIP R 220 J 1/10W CHIP R 82 J 1/10W		
R33 R34 R35 R36 R37			RK73FB2A471J RD14NB2E4R7J RK73FB2A471J RD14NB2E4R7J RK73FB2A471J	CHIP R 470 J 1/10W RD 4.7 J 1/4W CHIP R 470 J 1/10W RD 4.7 J 1/4W CHIP R 470 J 1/10W		89
R37 R38 R38 R41 ,42 R43 -45			RK73FB2A471J RD14NB2E4R7J RD14NB2E4R7J RK73FB2A105J RK73FB2A221J	CHIP R 470 J 1/10W RD 4.7 J 1/4W RD 4.7 J 1/4W CHIP R 1.0M J 1/10W CHIP R 220 J 1/10W	E E	89
R54 R55 -58 R59 R66 R67			RK73FB2A912J RK73FB2A221J RK73FB2A101J RK73FB2A104J RK73FB2A103J	CHIP R 9.1K J 1/10W CHIP R 220 J 1/10W CHIP R 100 J 1/10W CHIP R 100K J 1/10W CHIP R 10K J 1/10W		
R68 R101,102 R103,104 R107,108 R109,110			RK73FB2A221J RK73FB2A222J RK73FB2A104J RK73FB2A222J RK73FB2A103J	CHIP R 220 J 1/10W CHIP R 2.2K J 1/10W CHIP R 100K J 1/10W CHIP R 2.2K J 1/10W CHIP R 10K J 1/10W		
R111,112 R113,114 R121-124 R125,126 R127,128			RK73FB2A472J RK73FB2A221J RK73FB2A103J RK73FB2A101J RK73FB2A242J	CHIP R 4.7K J 1/10W CHIP R 220 J 1/10W CHIP R 10K J 1/10W CHIP R 100 J 1/10W CHIP R 2.4K J 1/10W		

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20

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R151-156 R157,158 R159-164 R165 R166			RK73FB2A100J RK73FB2A102J RK73FB2A101J RK73FB2A751J RK73FB2A272J	CHIP R 10 J 1/10W CHIP R 1.0K J 1/10W CHIP R 100 J 1/10W CHIP R 750 J 1/10W CHIP R 2.7K J 1/10W		
R168,169 R170,171 R172-175 R201,202 R203,204			RK73FB2A1R0J RK73FB2A471J RK73FB2A473J RK73FB2A332J RK73FB2A104J	CHIP R 1 J 1/10W CHIP R 470 J 1/10W CHIP R 47K J 1/10W CHIP R 3.3K J 1/10W CHIP R 100K J 1/10W		
R207,208 R209,210 R211,212 R213,214 R215,216			RK73FB2A222J RK73FB2A272J RK73FB2A562J RK73FB2A221J RK73FB2A472J	CHIP R 2.2K J 1/10W CHIP R 2.7K J 1/10W CHIP R 5.6K J 1/10W CHIP R 220 J 1/10W CHIP R 4.7K J 1/10W		
R217,218 R251,252 R253,254 R255,256 R257,258			RK73FB2A562J RK73FB2A153J RK73FB2A223J RK73FB2A103J RK73FB2A223J	CHIP R 5.6K J 1/10W CHIP R 15K J 1/10W CHIP R 22K J 1/10W CHIP R 10K J 1/10W CHIP R 22K J 1/10W		
R259,260 R261,262 R301 R302 R303,304			RK73FB2A103J RK73FB2A223J RK73FB2A222J RK73FB2A103J RK73FB2A104J	CHIP R 10K J 1/10W CHIP R 22K J 1/10W CHIP R 2.2K J 1/10W CHIP R 10K J 1/10W CHIP R 100K J 1/10W		
R307 R308 R309,310 R311,312 R313,314			RK73FB2A222J RK73FB2A123J RK73FB2A103J RK73FB2A472J RK73FB2A221J	CHIP R 2.2K J 1/10W CHIP R 12K J 1/10W CHIP R 10K J 1/10W CHIP R 4.7K J 1/10W CHIP R 220 J 1/10W		
R401-406 R407 R412 R426,427 R428			RK73FB2A471J RK73FB2A473J RK73FB2A221J RK73FB2A221J RK73FB2A1R0J	CHIP R 470 J 1/10W CHIP R 47K J 1/10W CHIP R 220 J 1/10W CHIP R 220 J 1/10W CHIP R 1 J 1/10W		7
R428 R431,432 R433 R433 R434			RK73FB2A1R0J RK73FB2A103J RK73FB2A473J RK73FB2A473J RK73FB2A101J	CHIP R 1 J 1/10W CHIP R 10K J 1/10W CHIP R 47K J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/10W	E1T E	89 89
R434 R450 R451-453 R454 R461,462		*	RK73FB2A101J R92-1918-05 R92-1945-05 R92-1946-05 RK73FB2A221J	CHIP R 100 J 1/10W CHIP R 0.33 J 1/4W METAL GLAZE 1 J 1/4W METAL GLAZE 4.7 J 1/4W CHIP R 220 J 1/10W	E	
R463 R464 R465 R501-503 R505			RK73FB2A473J RK73FB2A472J RK73FB2A102J RK73FB2A221J RK73FB2A103J	CHIP R 47K J 1/10W CHIP R 4.7K J 1/10W CHIP R 1.0K J 1/10W CHIP R 220 J 1/10W CHIP R 10K J 1/10W		
R514 R515 R516 R517 R518			RK73FB2A101J RK73FB2A221J RK73FB2A103J RK73FB2A221J RK73FB2A472J	CHIP R 100 J 1/10W CHIP R 220 J 1/10W CHIP R 10K J 1/10W CHIP R 220 J 1/10W CHIP R 4.7K J 1/10W		

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21

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R519 R520,521 R522,523 R524 R527			RK73FB2A221J RK73FB2A103J RK73FB2A472J RK73FB2A333J RK73FB2A103J	CHIP R 220 J 1/10W CHIP R 10K J 1/10W CHIP R 4.7K J 1/10W CHIP R 33K J 1/10W CHIP R 10K J 1/10W		
R601 R603 R605 R607 R609			RK73FB2A820J RK73FB2A820J RK73FB2A820J RK73FB2A820J RK73FB2A104J	CHIP R 82 J 1/10W CHIP R 82 J 1/10W CHIP R 82 J 1/10W CHIP R 82 J 1/10W CHIP R 100K J 1/10W		
R610 R611 R612 R631,632 R633,634			RK73FB2A680J RK73FB2A104J RK73FB2A680J RK73FB2A681J R92-1954-05	CHIP R 68 J 1/10W CHIP R 100K J 1/10W CHIP R 68 J 1/10W CHIP R 680 J 1/10W METAL GLAZE 100 J 1/10W		
R633,634 R633,634 R635,636 R651-658 R659,660		*	R92-1954-05 R92-1957-05 R92-1954-05 RK73FB2A820J RK73FB2A104J	METAL GLAZE 100 J 1/10W METAL GLAZE RESISTOR 100 J 1/10W METAL GLAZE 100 J 1/10W CHIP R 82 J 1/10W CHIP R 100K J 1/10W	EE1T KPIXY M M	
R661,662 R663,664 R665,666 R681,682			RK73FB2A680J RK73FB2A104J RK73FB2A680J RD14NB2E4R7J	CHIP R 68 J 1/10W CHIP R 100K J 1/10W CHIP R 68 J 1/10W RD 4.7 J 1/4W		
D1 D1 D1 D2 D2			DAN202U MA142WK 1SS301 DAP202U MA142WA	DIODE DIODE DIODE DIODE DIODE		
D2 D3 D3 D3 D6			1SS300 DAN202U MA142WK 1SS301 MA111	DIODE DIODE DIODE DIODE DIODE		
D41 D42,43 D44 D51,52 D61,62			S1ZB20(4072) UD25.6B UD23.9B MA111 UD25.6B	DIODE ZENER DIODE ZENER DIODE DIODE ZENER DIODE		
D75,76 D151,152 IC1 IC2 IC4			MA111 UD27.5B NJM4565MD AK4527-VQ TC7WU04FU	DIODE ZENER DIODE IC(OP AMP X2) MOS-IC MOS-IC		
IC5 IC6 IC11 IC12 IC13		*	AK4110-VF TC7WH123FU NJM4565MD NJU7311AM NJM4565MD	MOS-IC MOS-IC IC(OP AMP X2) MOS-IC IC(OP AMP X2)		
IC14 IC15 IC21 IC31 IC41		*	NJU7311AM M62446FP NJM4565MD NJM4565MD TC74HC07AF	MOS-IC ANALOGUE IC IC(OP AMP X2) IC(OP AMP X2) MOS-IC		

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22

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IC42 IC43 IC43 IC44 IC44			TC74HCT7007AF TC7WH126FU TC7WH126FU AT25256WS2701 AT25256WS2701	MOS-IC MOS-IC MOS-IC MOS-IC MOS-IC	E E	89 3 89 3
IC45 IC46 IC47 IC51 IC61		*	TA48M05F TA48M033F TA48M025F CS493263-CLR NJM2279M	ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC ANALOGUE IC		
IC62 IC62 IC66,67 IC68 IC68		*	NJU4052BV TC74HC4052AFT NJM2279M NJU4052BV TC74HC4052AFT	MOS-IC MOS-IC ANALOGUE IC MOS-IC MOS-IC		
Q1 Q1 Q15 Q15 Q16		*	DTC124EUA UN5212 2SD1664(Q,R) 2SD1963(R,S)-G 2SB1132(Q,R)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q16 Q41 Q41 Q42 Q42		*	2SB1308(Q,R)-G 2SC4081(R,S) 2SD1819A(Q,R) 2SA1576A(R,S) 2SB1218A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q61 Q61 Q62 Q62		*	2SD1664(Q,R) 2SD1963(R,S)-G 2SB1132(Q,R) 2SB1308(Q,R)-G	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
A1,2 A3 A3		*	W02-2716-05 W02-2717-05 W02-2717-05	OPTIC RECEIVING MODULE OSCILLATING MODULE OSCILLATING MODULE	E	89
DISPLAY UNIT (X14-7090-XX)						
D1 D2 -6			B30-2567-05 B30-2545-05	LED(RED(80) HI-BR) LED(RED3(160))		
C1 C1 C1 C2 C3			CE04RW0J331M CE04RW1A101M CE04RW1A101M CK73FB1H103K CE04RW1H010M	ELECTRO 330UF 6.3WV ELECTRO 100UF 10WV ELECTRO 100UF 10WV CHIP C 0.010UF K ELECTRO 1.0UF 50WV	KPK1 EE1T YMIX	
C4,5 C6 C7 C9 C10 -19		*	CE04RW1C100M CE04RW0J100M CK73FB1H103K CC73FCH1H470J CK73FB1H103K	ELECTRO 10UF 16WV ELECTRO 10UF 6.3WV CHIP C 0.010UF K CHIP C 47PF J CHIP C 0.010UF K		
C20,21 C22 C23 C24 C25			CK73FB1C104K CK73FF1C105Z CE04RW0J3470M CE04RW0J470M CK73FB1H103K	CHIP C 0.10UF K CHIP C 1.0UF Z ELECTRO 47UF 6.3WV ELECTRO 47UF 6.3WV CHIP C 0.010UF K	EE1T EE1T	
C26,27 C28 C29 C30		*	CC73FCH1H270J CC73FCH1H561J CC73FCH1H271J CE04RW1V2R2M	CHIP C 27PF J CHIP C 560PF J CHIP C 270PF J ELECTRO 2.2UF 35WV	EE1T EE1T EE1T EE1T	

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23

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C31 C32 C33 -35 C36 ,37 C38		*	CC73FCH1H101J CE04RW0J220M CC73FCH1H101J CC73FCH1H470J CE04RW1H330M	CHIP C 100PF J ELECTRO 22UF 6.3WV CHIP C 100PF J CHIP C 47PF J ELECTRO 33UF 50WV	EE1T	
C39 C40 C40 C41 C42			CK73FB1H103K C90-1826-05 C90-1826-05 CK73FB1H103K CK73FB1H103K	CHIP C 0.010UF K BACKUP-C 0.047F 5.5WV BACKUP-C 0.047F 5.5WV CHIP C 0.010UF K CHIP C 0.010UF K	EE1T YMI YMI	
C43 ,44 C45 ,46 C47 C48 C49			CC73FCH1H101J CC73FCH1H470J CC73FCH1H101J CC73FCH1H101J CE04RW0J331M	CHIP C 100PF J CHIP C 47PF J CHIP C 100PF J CHIP C 100PF J ELECTRO 330UF 6.3WV	YMI KPK1	
C50 C51 C52 C53 C54		*	CC73FCH1H101J CE04RW1H2R2M CK73FB1H103K CC73FCH1H101J CE04RW1H4R7M	CHIP C 100PF J ELECTRO 2.2UF 50WV CHIP C 0.010UF K CHIP C 100PF J ELECTRO 4.7UF 50WV	YMI EE1T	
C55 C56 C57 C58 C59			CC73FCH1H470J CC73FCH1H220J CC73FCH1H221J CC73FCH1H470J CK73FF1C105Z	CHIP C 47PF J CHIP C 22PF J CHIP C 220PF J CHIP C 47PF J CHIP C 1.0UF Z		
C61 C101-107			CC73FCH1H101J CC73FCH1H101J	CHIP C 100PF J CHIP C 100PF J	EE1T	
CN1 CN2 CN3 CN5 J1		*	E40-8510-05 E40-8504-05 E40-3247-05 E40-3261-05 E11-0272-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY PIN ASSY PHONE JACK		
J2 J2 J3		*	E63-1035-05 E63-1147-05 E06-0709-05	PIN JACK PIN JACK CYLINDRICAL RECEPTACLE		
- E5 ,6			J19-5928-13 J19-5928-13 J11-0808-05	HOLDER HOLDER WIRE CLAMPER		
X1 X2		*	L78-0714-05 L77-2002-05	RESONATOR (8MHZ) CRYSTAL RESONATOR(4.332MHZ)	EE1T	
CP1 CP2 ,3 CP501 CP502 R4			R90-0855-05 R90-0482-05 R90-0855-05 R90-0850-05 RK73FB2A102J	MULTI-COMP 100KX5 J MULTI-COMP 100KX4 J 1/6W MULTI-COMP 100KX5 J MULTI-COMP 100KX3 J 1/6W CHIP R 1.0K J 1/10W		
R5 R7 R8 R12 R13 ,14			RK73FB2A103J RK73FB2A104J RK73FB2A102J RK73FB2A331J RK73FB2A104J	CHIP R 10K J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 330 J 1/10W CHIP R 100K J 1/10W		
R15 R29 R30 -34			RK73FB2A331J RK73FB2A122J RK73FB2A221J	CHIP R 330 J 1/10W CHIP R 1.2K J 1/10W CHIP R 220 J 1/10W		

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24

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R36 ,37 R38 -43 R44 -49 R50 R51			RK73FB2A104J RK73FB2A103J RK73FB2A101J RK73FB2A272J RK73FB2A102J	CHIP R 100K J 1/10W CHIP R 10K J 1/10W CHIP R 100 J 1/10W CHIP R 2.7K J 1/10W CHIP R 1.0K J 1/10W	YMI	
R52 ,53 R54 ,55 R54 ,55 R57 ,58 R59 -63			RK73FB2A272J RK73FB2A103J RK73FB2A472J RK73FB2A223J RK73FB2A104J	CHIP R 2.7K J 1/10W CHIP R 10K J 1/10W CHIP R 4.7K J 1/10W CHIP R 22K J 1/10W CHIP R 100K J 1/10W	YMI X	
R64 R65 ,66 R67 R71 ,72 R83			RK73FB2A101J RK73FB2A103J RD14NB2E222J RK73FB2A473J RK73FB2A564J	CHIP R 100 J 1/10W CHIP R 10K J 1/10W RD 2.2K J 1/4W CHIP R 47K J 1/10W CHIP R 560K J 1/10W	YMI	
R86 R98 R107-109 R110 R111			RD14NB2E152J RK73FB2A104J RK73FB2A104J RK73FB2A1R0J RK73FB2A101J	RD 1.5K J 1/4W CHIP R 100K J 1/10W CHIP R 100K J 1/10W CHIP R 1 J 1/10W CHIP R 100 J 1/10W	YMI EE1T EE1T	
R112 R113 R114 R118 R119-126			RK73FB2A473J RK73FB2A101J RK73FB2A104J RK73FB2A104J RK73FB2A101J	CHIP R 47K J 1/10W CHIP R 100 J 1/10W CHIP R 100K J 1/10W CHIP R 100K J 1/10W CHIP R 100 J 1/10W	EE1T EE1T	
R127-129 R130 R141,142 R143 R151,152			RK73FB2A104J RK73FB2A102J RK73FB2A104J RK73FB2A101J RK73FB2A101J	CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W CHIP R 100 J 1/10W CHIP R 100 J 1/10W		
R153,154 R155 R156-158 R161,162 R501,502			RK73FB2A104J RK73FB2A101J RK73FB2A750J RK73FB2A104J RK73FB2A104J	CHIP R 100K J 1/10W CHIP R 100 J 1/10W CHIP R 75 J 1/10W CHIP R 100K J 1/10W CHIP R 100K J 1/10W		
W503 W505 W507 W509 W514			R92-0679-05 R92-0679-05 R92-0679-05 R92-0679-05 R92-0679-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM	YMI EE1T	
S4 -16 S19 S19			S70-0031-05 S68-0107-05 S68-0107-05	TACT SWITCH PUSH SWITCH PUSH SWITCH	EE1T YMI	
S1 S2 ,3		*	T99-0602-05 T99-0630-05	ROTARY ENCODER ROTARY ENCODER		
D7 D7 D8 ,9 D11 ,12 D13			HZS6.2N(B2) MTZJ6.2(B) RB721Q MA111 HSS104A	ZENER DIODE ZENER DIODE DIODE DIODE DIODE	KPK1	
D13 D15 ,16 D17 -22 D17 -22			1SS133 MA111 HSS104A 1SS133	DIODE DIODE DIODE DIODE	KPK1	

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

PARTS LIST

KRF-V7030D/V8030D/MR-407/409

* 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.

25

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D24			HSS104A	DIODE	EE1TX	
D24			1SS133	DIODE	EE1TX	
D25			HSS104A	DIODE		7
D25			HSS104A	DIODE	E1T	3
D25			1SS133	DIODE		7
D25			1SS133	DIODE	E1T	3
D26			HSS104A	DIODE		89
D26			HSS104A	DIODE	E	3
D26			1SS133	DIODE		89
D26			1SS133	DIODE	E	3
D28			HSS104A	DIODE	EE1T	
D28			HSS104A	DIODE	YMIX	
D28			1SS133	DIODE	EE1T	
D28			1SS133	DIODE	YMIX	
D29			HSS104A	DIODE	X	
D29			1SS133	DIODE	X	
D30			HSS104A	DIODE	EE1T	
D30			1SS133	DIODE	EE1T	
D33			HSS104A	DIODE		
D33			1SS133	DIODE		
D35 ,36			MA111	DIODE	YMI	
ED1		*	SVA-11MS22	FLUORESCENT INDICATOR TUBE		
ED1		*	11-MT-120GK	FLUORESCENT INDICATOR TUBE		
IC1		*	MN101C35DRA	MI-COM IC		
IC2		*	S-80840ANY	ANALOGUE IC		
△ IC3		*	TA78057F	ANALOGUE IC	EE1T	
△ IC3		*	TA78057F	ANALOGUE IC	KPK1X	
IC4			BU1923F	ANALOGUE IC	EE1T	
IC5			S-80840ANY	ANALOGUE IC	YMI	
△ IC6			XC62FP5102P	ANALOGUE IC	YMI	
Q1			2SC4081(R,S)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q3 -5			2SC4081(R,S)	TRANSISTOR		
Q6 -11			UN5219	DIGITAL TRANSISTOR		
Q12 ,13			2SA1576A(R,S)	TRANSISTOR		
Q14			DTA124EUA	DIGITAL TRANSISTOR		
Q14			UN5112	DIGITAL TRANSISTOR		
A1			W02-2625-05	OPTIC RECEIVING MODULE		

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

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
VR-407		-	P	-	-	-	-	-	-
KRF-V7030D	7	-	-	-	-	-	-	-	-
KRF-V7030D-S		X	-	-	-	-	-	-	I
VR-407-S		-	-	-	-	-	-	-	-
VR-409	9	-	P	-	-	-	-	-	-
KRF-V8030D		-	-	-	-	-	-	-	-
KRF-V8030D-S	8	X	-	-	-	-	-	-	I
KRF-V8030D	3	-	-	-	-	E	-	-	-
KRF-V7030D		-	-	-	T	E1	-	-	-
MODEL	ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
VR-407	7	-	-	-	-	-	K	-	-
KRF-V7030D		-	Y	-	-	-	-	-	-
KRF-V7030D-S		-	-	-	-	-	-	M	-
VR-407-S		-	-	-	-	-	K1	-	-
VR-409	9	-	-	-	-	-	K	-	-
KRF-V8030D		-	Y	-	-	-	-	-	-
KRF-V8030D-S	8	-	-	-	-	-	-	M	-
KRF-V8030D	3	-	-	-	-	-	-	-	-
KRF-V7030D		-	-	-	-	-	-	-	-

KRF-V7030D/V8030D/VR-407/409

SPECIFICATIONS

For U.S.A and Canada

AUDIO section (VR-407)

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 0.7% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (20-20kHz-z/VR-407, 0.7% T.H.D. at 8 Ω one channel driven) 100 W + 100 W
CENTER (20-20kHz, 0.7% T.H.D. at 8 Ω one channel driven) 100 W
SURROUND (20-20kHz, 0.7% T.H.D. at 8 Ω one channel driven) 100 W + 100 W

Total harmonic distortion 0.055% (1 kHz, 50W, 8 Ω)

Frequency response

CD 10 Hz ~ 53 kHz, +0 dB, -3.0 dB

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB

CD 91 dB

Input sensitivity / impedance

PHONO (MM) 2.5 mV / 27 k Ω

CD 200 mV / 47 k Ω

MONITOR IN 200 mV / 47 k Ω

Output level / impedance

TAPE REC 200 mV / 1 k Ω

MONITOR OUT 200 mV / 1 k Ω

PRE OUT (SUBWOOFER) 2 V / 2.2 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, 96kHz

Input level / impedance / wave length

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

Coaxial 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) 1 Vp-p / 75 Ω

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

(chrominance signal) 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO)

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

50dB quieting sensitivity

STEREO 31.6 μ V (75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO 0.6% (65 dBf input)

STEREO 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)

MONO 75 dB (65 dBf input)

STEREO 68 dB (65 dBf input)

Stereo separation (1 kHz)

..... 38 dB

Selectivity (± 400 kHz)

..... 70 dB

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

AM tuner section

Tuning frequency range

10 kHz step 530 kHz ~ 1,700 kHz

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

Signal to noise ratio (30% mod. 1 mV input) 50 dB

GENERAL

AC outlet

SWITCHED (total 150 W, 1.25 A max.)

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

H : 143 mm (5-5/8")

D : 400 mm (15-3/4")

Weight (Net) 7.2 kg (15.8 lb)

For other countries

AUDIO section (KRF-V7030D)

Effective power output during STEREO operation

1kHz, 10% T.H.D., at 8 Ω 140 W + 140 W

Rated power output during STEREO operation

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

Effective power output during SURROUND operation

FRONT (1kHz, 10% T.H.D. at 8 Ω one channel driven) 140 W + 140 W

CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven) 140 W

SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven) 140 W + 140 W

Total harmonic distortion 0.055% (1 kHz, 50W, 8 Ω)

Frequency response

CD 10 Hz ~ 50 kHz, +0 dB, -3.0 dB

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB

CD 91 dB

Input sensitivity / impedance

PHONO (MM) 2.5 mV / 27 k Ω

CD 200 mV / 47 k Ω

MONITOR IN 200 mV / 47 k Ω

Output level / impedance

TAPE REC 200 mV / 1 k Ω

MONITOR OUT 200 mV / 1 k Ω

PRE OUT (SUBWOOFER) 2 V / 2.2 k Ω

Tone control

BASS (For Australia and U.S-Military) ± 10 dB (at 100 Hz)

BASS (Other countries) ± 10 dB (at 60 Hz)

TREBLE ± 10 dB (at 10 kHz)

DIGITAL AUDIO section

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

Input level / impedance / wave length

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

Coaxial 0.5 Vp-p / 75 Ω

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) 1 Vp-p / 75 Ω

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

(chrominance signal) 0.286 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO)

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

50dB quieting sensitivity

STEREO 31.6 μ V (75 Ω) / 41.2 dBf

Total harmonic distortion (1 kHz)

MONO 0.6% (65 dBf input)

STEREO 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)

MONO 75 dB (65 dBf input)

STEREO 68 dB (65 dBf input)

Stereo separation (1 kHz)

..... 38 dB

Selectivity (± 400 kHz)

..... 50 dB

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

AM tuner section

Tuning frequency range

9 kHz step 531 kHz ~ 1,602 kHz

10 kHz step 530 kHz ~ 1,610 kHz

Usable sensitivity 16 μ V / (600 μ V/m)

Signal to noise ratio (30% mod. 1 mV input) 50 dB

GENERAL

Power consumption

AC outlet

SWITCHED (total 90 W max.)

Dimensions W : 440 mm

H : 143 mm

D : 400 mm

Weight (Net) 7.4 kg

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-V7030D/V8030D/VR-407/409

SPECIFICATIONS

For U.S.A and Canada (VR-409)

AUDIO section

Rated power output during STEREO operation

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

Effective power output during SURROUND operation

FRONT (20-20kHz, 0.7% T.H.D. at 8 Ω , one channel driven)	100 W + 100 W
CENTER (20-20kHz, 0.7% T.H.D. at 8 Ω , one channel driven)	100 W
SURROUND (20-20kHz, 0.7% T.H.D. at 8 Ω , one channel driven)	100 W + 100 W
Total harmonic distortion	0.055% (1 kHz, 50W, 8 Ω)
Frequency response	
CD	10 Hz ~ 53 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
CD	91 dB
Input sensitivity / impedance	
PHONO (MM)	2.5 mV / 27 k Ω
CD	200 mV / 47 k Ω
Output level / impedance	
TAPE REC	200 mV / 1 k Ω
PRE OUT (SUBWOOFER)	2 V / 2.2 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, 96kHz
Input level / impedance / wave length	
Optical	(-15 dBm ~ -21 dBm), 660 nm ± 30 nm
Coaxial	0.5 Vp-p / 75 Ω

VIDEO section

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

FM tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)	1.6 μ V (75 Ω) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity	
STEREO	31.6 μ V (75 Ω) / 41.2 dBf
Total harmonic distortion (1 kHz)	
MONO	0.6% (65 dBf input)
STEREO	0.7% (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)	
MONO	75 dB (65 dBf input)
STEREO	68 dB (65 dBf input)
Stereo separation (1 kHz)	38 dB
Selectivity (± 400 kHz)	70 dB
Frequency response	(30 Hz ~ 15kHz), +0.5 dB, -3.0 dB

AM tuner section

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

GENERAL

Power consumption	2.6 A
AC outlet	
SWITCHED	(total 150 W, 1.25 A max.)
Dimensions	W : 440 mm (17-5/16")
	H : 143 mm (5-5/8")
	D : 400 mm (15-3/4")
Weight (Net)	7.4 kg (15.8 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).

For other countries (KRF-V8030D)

AUDIO section

Effective power output during STEREO operation

1kHz,10% T.H.D.,at 8 Ω 140 W + 140 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 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation

FRONT (1kHz, 10% T.H.D. at 8 Ω , one channel driven)	140 W + 140 W
CENTER (1kHz, 10% T.H.D. at 8 Ω , one channel driven)	140 W
SURROUND (1kHz, 10% T.H.D. at 8 Ω , one channel driven)	140 W + 140 W
Total harmonic distortion	0.055% (1 kHz, 50W, 8 Ω)
Frequency response	
CD	10 Hz ~ 53 kHz, +0 dB, -3.0 dB
Signal to noise ratio (IHF'66)	
PHONO (MM)	75 dB
CD	91 dB
Input sensitivity / impedance	
PHONO (MM)	2.5 mV / 27 k Ω
CD	200 mV / 47 k Ω
Output level / impedance	
TAPE REC	200 mV / 1 k Ω
PRE OUT (SUBWOOFER)	2 V / 2.2 k Ω
Tone control	
BASS (For Australia and U.S-Military)	± 10 dB (at 100 Hz)
BASS (Other countries)	± 10 dB (at 60 Hz)
TREBLE	± 10 dB (at 10 kHz)

DIGITAL AUDIO section

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

VIDEO section

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

FM tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Usable sensitivity (MONO)	1.6 μ V (75 Ω) / 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity	
STEREO	31.6 μ V (75 Ω) / 41.2 dBf
Total harmonic distortion (1 kHz)	
MONO	0.6% (65 dBf input)
STEREO	0.7% (65 dBf input)
Signal to noise ratio (1 kHz, 75 kHz DEV.)	
MONO	75 dB (65 dBf input)
STEREO	68 dB (65 dBf input)
Stereo separation (1 kHz)	38 dB
Selectivity (± 400 kHz)	50 dB
Frequency response	(30 Hz ~ 15kHz), +0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range	
9 kHz step	531 kHz ~ 1,602 kHz
10 kHz step	530 kHz ~ 1,610 kHz
Usable sensitivity (30% mod., S/N 20 dB)	
	16 μ V / (600 μ V/m)
Signal to noise ratio (30% mod. 1 mV input)	70 dB

GENERAL

Power consumption	250 W
AC outlet	
SWITCHED	(total 90 W max.)
Dimensions	W : 440 mm
	H : 143 mm
	D : 400 mm
Weight (Net)	7.4 kg

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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