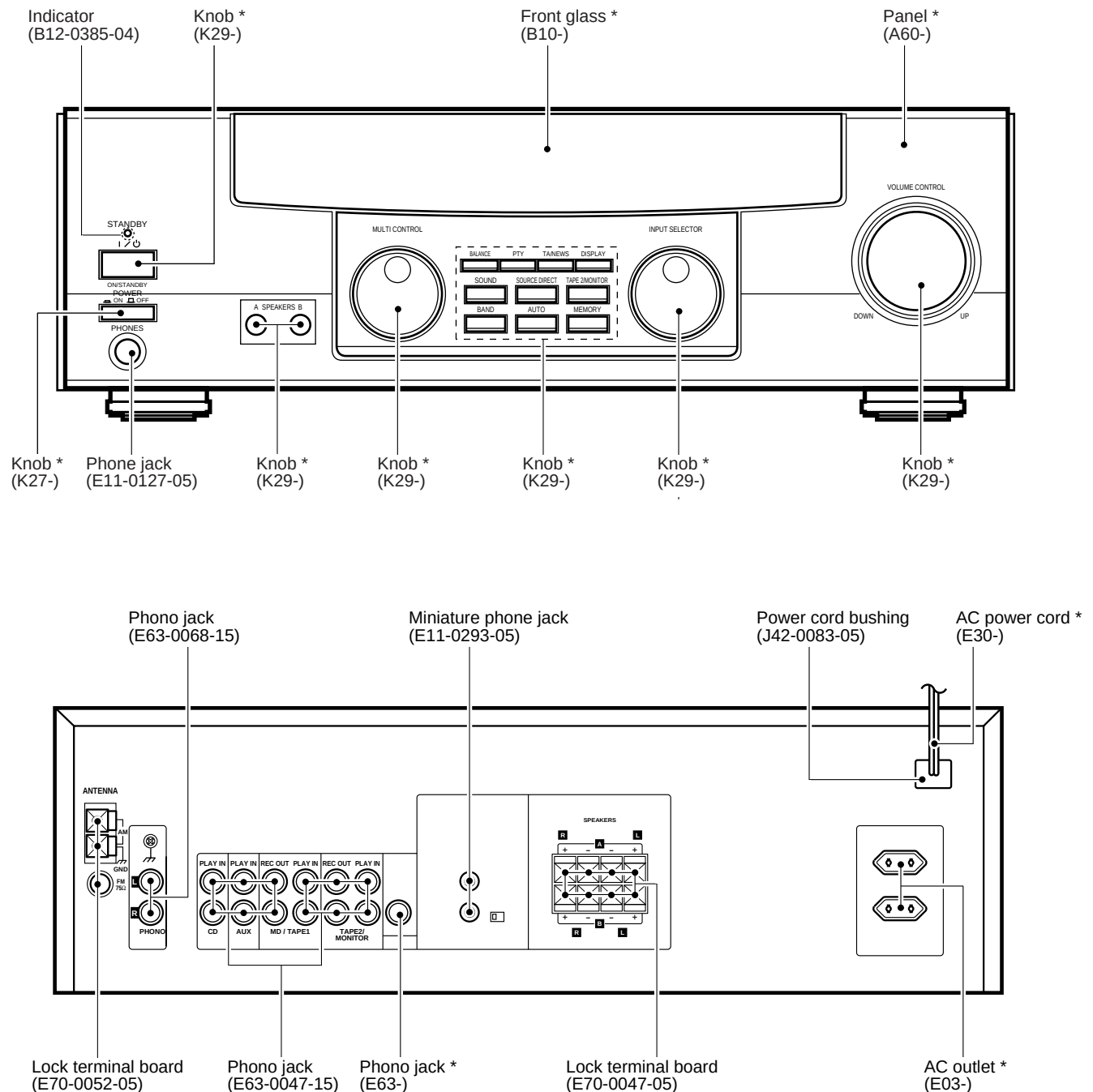


AR-404/KRF-A4030/ A4030E/A4030-S

SERVICE MANUAL



CONTENTS / ACCESSORIES / CAUTIONS

Contents

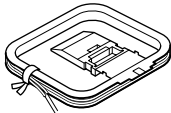
CONTENTS / ACCESSORIES / CAUTIONS	2	SCHEMATIC DIAGRAM	11
CIRCUIT DESCRIPTION	3	EXPLODED VIEW	20
ADJUSTMENT	6	PARTS LIST	21
PC BOARD	7	SPECIFICATIONS	27

Accessories

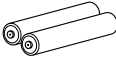
FM indoor antenna (1)
(T90-0836-05)



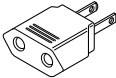
AM loop antenna (1)
(T90-0852-05)



Batteries (R06/AA) (2)

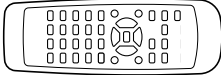


AC plug adaptor (1)
(E03-0115-05)



*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)
(A70-1266-05): RC-R0709.....KPMX
(A70-1267-05): RC-R0708.....E1E2E3



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.

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.

Except for U.S.A. and Canada

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

- 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.

CIRCUIT DESCRIPTION

1. BACK UP DATA AND INITIAL STATE

1-1 BACK UP

(1) AMP

- POWER.....STANDBY
- INPUT SELECTORTUNER
- BALANCECENTER
- SPEAKER A RELAYON
- SPEAKER B RELAYOFF
- VOLUME LEVEL -66dB
- BASS LEVEL.....0dB
- TREBLE LEVEL0dB
- INPUT LEVEL0dB
- SOURCE DIRECT.....OFF
- TAPE2/MONITOROFF

(2) TUNER

- BANDFM
- PRESET CHANNEL"-"
- FREQUENCYLOWER LIMIT VALUE
 - K1.....FM:87.50MHz
 - AM:530kHz
 - E1/E3FM:87.50MHz
 - AM:531kHz
- AUTO/MANUALAUTO
- DISPLAY MODEFREQUENCY
- E ON THRUST RECEIVINGOFF
- MODE
- T1 VOLUMEOFF(-66dB)

1-2 INITIAL SETTING

The initial setting is performed when the AC power cord is plugged into the AC power wall out let while pressing the power (STANDBY) key.

2. DESTINATION LIST OF TUNER

DESTINATION	TUNER TYPE	BAND	RECEIVING FREQUENCY RANGE	CHANNEL SPACE	IF	PLL REFERENCE FREQUENCY	DSW3 (D507)	DSW2 (D505)	DSW1 (D504)	DSW0 (D510)
K,P	K1(1700)	FM AM	87.5MHz~108.0MHz 530kHz~1700kHz	100kHz 10kHz	+10.7MHz +450kHz	25kHz 10kHz	0	0	0	0
M,X	E1	FM AM	87.5MHz~108.0MHz 531kHz~1602kHz	50kHz 9kHz	+10.7MHz +450kHz	25kHz 9kHz	0	0	1	1
M	K2(1600)	FM AM	87.5MHz~108.0MHz 530kHz~1610kHz	100kHz 10kHz	+10.7MHz +450kHz	25kHz 10kHz	0	0	0	1
E	E3 RDS	FM AM	87.5MHz~108.0MHz 531kHz~1602kHz	50kHz 9kHz	+10.7MHz +450kHz	25kHz 9kHz	0	1	0	1

DSW0-DSW3(DIODE SW) * 0: NONE DIODE,1:ADD DIODE

3. TEST MODE

3-1 SETTING

Turn the power ON while pressing the [BAND] key.

3-2 CANCELLATION

Unplug the AC power cord from an AC power wall outlet.

3-3 STARTING ACTIVE CONTENTS

- The power on state is entered whenever the power is tried on while pressing the [BAND] key.
- All functions are initialized and activated in the all lighting mode.
- All lighting mode is canceled when any main unit's keys are pressed. The normal display obtained when the selector is set to TUNER then appears.
- E2PROM check(Etype only).

Check the reading data and the writing data of the E2PROM after setting the test mode.

Display shows blank if the reading data and writing data are the same. Display shows "LW" if the different data will be written to E2PROM.

3-4 ACTIVE CONTENTS

- The mute control is not activated when the mode is switched.
- The test mode will be terminated by plugging it off the power source or by initializing it when all the settings will be initialized.

- During the test mode, it can be operated in a special manner that is deferent from an ordinary operation by using the keys on the remote control or the main body ,specifically as shown in the following table (3-5 CONTENTS).
- Channel space will be no changed in the test mode.

3-5 CONTENTS

3-5-1 TUNER FUNCTION

WITH THE SELECTOR ON TUNER (E TYPE ONLY)

OPERATION KEY	FUNCTION	FL DISPLAY	REMARKS
PTY	S LEVEL RF ATT	(EX.) (1)(SLEVEL), (RF ATT)OFF (2)(SLEVEL), (RF ATT)ON (3)(NORMAL), (RF)ATT OFF	(1) (2) ← (3) CYCLE
DISPLAY	P.CALL UP	P.CALL FREQUENCY	-
TA/NEWS	PI CODE	PI 0000	PI CODE ON/OFF

3-5-2 AMP FUNCTION

WITH THE SELECTOR ON SOMETHING OTHER THAN TUNER

- One touch max,min setting for Audio level.

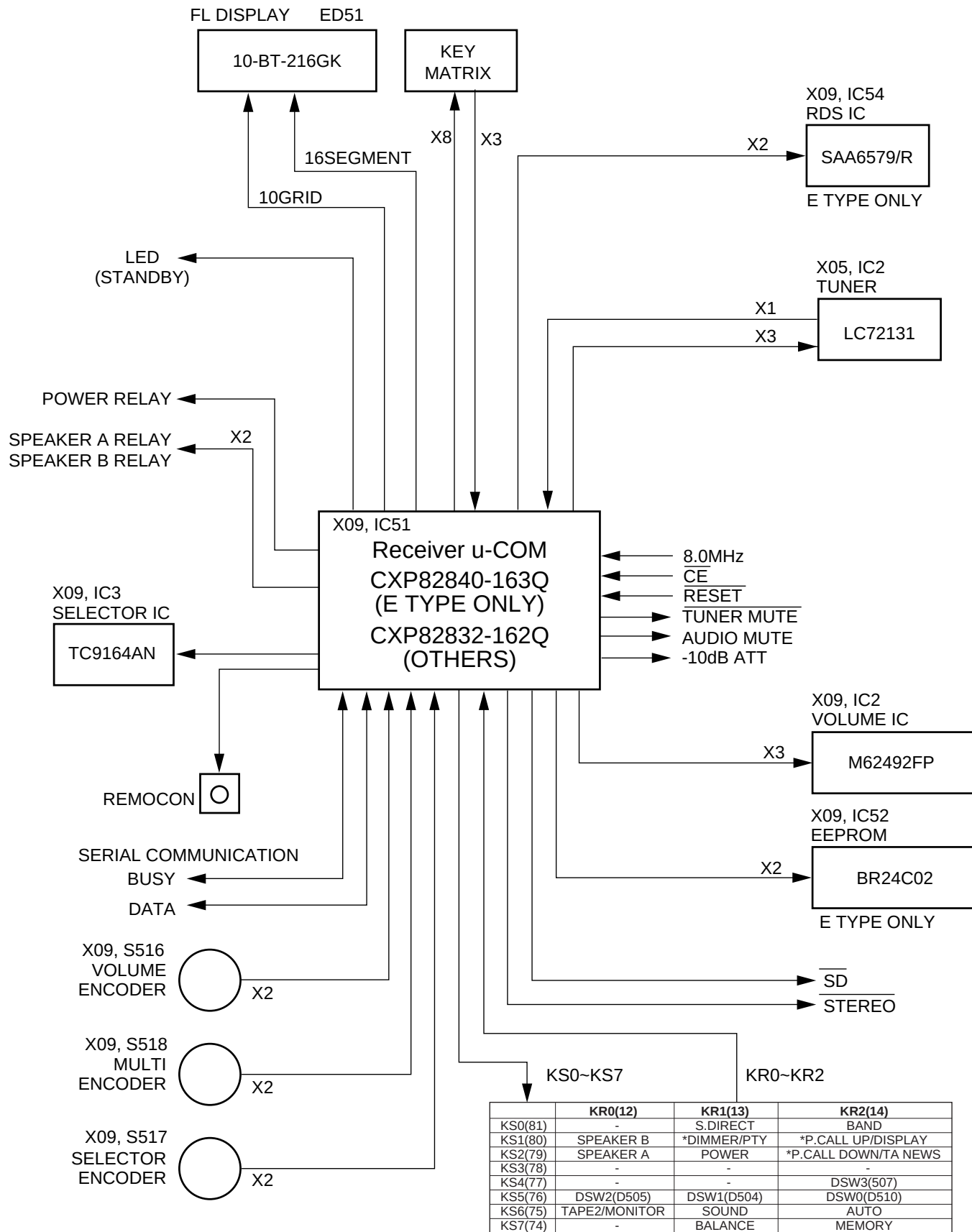
KEY	MASTER VR.	SOUND KEY	
		BASS	TREBLE
BAND	-89dB	0dB	+10dB
AUTO	0dB	0dB	+10dB
MEMORY	-10dB	0dB	+10dB

Bass and treble are selected while the sound key is pressed.

CIRCUIT DESCRIPTION

4. Microprocessor CXP82840-163Q, CXP82832-162Q (X09, IC51)

4-1 Microprocessor periphery block diagram diagram



PTY, DISPLAY and TA/NEWS keys are only RDS version(E type).

AR-404/KRF-A4030/A4030E/A4030-S

CIRCUIT DESCRIPTION

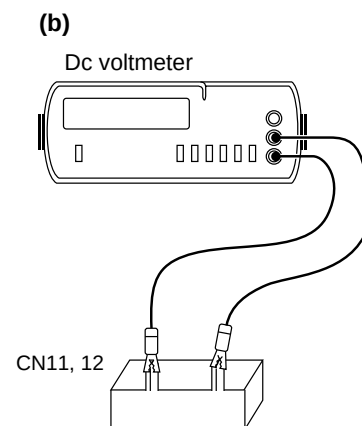
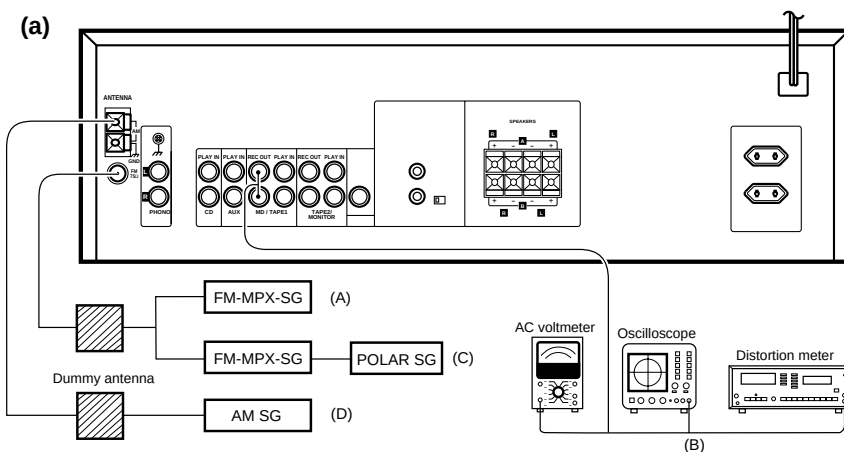
4.2 Microprocessor pin descriptions: X09,IC51

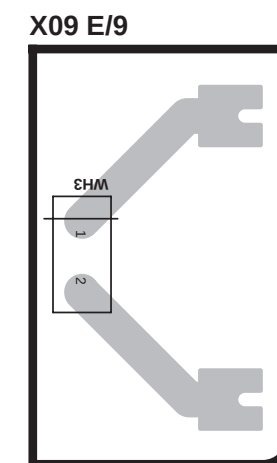
Pin No.	Pin name	I/O	Description	Active
1,2	G9,G10	O	FL grid control (9,10).	
3	NC	-	u-Com +5V power supply.	
4	RDS,CK	I	RDS IC clock input control. (E type only)	
5	RDS,DT	I	RDS IC data input control. (E type only)	
6	NC	I	u-Com +5V power supply.	
7	VOL.ENC.A	I	Volume encoder A (CW) signal.	
8	REMOCON	I	Remote control signal input.	
9	VOL.ENC.B	I	Volume encoder B (CCW) signal.	
10,11	NC	-	Unused.	
12~14	KR0~KR2	I	Key return (0~2).	
15	PROTECT	I	Protection detection signal input.	H: Protection ON
16	S.DATA	I/O	Serial communication data.	
17	S.BUSY	I/O	Serial communication busy.	
18	E2.DATA	I/O	E2 PROM data.	
19	E2.CLK	O	E2 PROM clock.	
20	SEL.ENC2 CW	I	Selector encoder A(CW) input.	
21	SEL.ENC2 CCW2	I	Selector encoder B(CCW) input.	
22	MLT. ENC3 CW3	I	Multi control encoder A(CW).	
23	MLT. ENC3 CCW3	I	Multi control encoder B(CCW).	
24	8/16	I	Serial communication 8bit/16bit changeover.	
25~27	NC	-	Unused.	
28	AV REF	-	Analog reference voltage (+5V).	
29	S.LEVEL	I	Signal level A/D input. (E type only)	
30~32	NC	-	Unused.	
33	PLL.DO	I	PLL IC DO signal input. (E type only)	
34	PLL.STEREO	I	TUNER stereo signal input.	L: STEREO
35	PLL.SD	I	TUNER SD signal input.	L: TUNED
36	RCV.CE	I	Receiver chip enable signal input.	L: ENABLE
37	AVSS	-	Analog ground.	
38	RESET	I	u-Com reset.	
39	EXTAL	I	Main clock(8MHZ).	
40	XTAL	-	Main clock(8MHZ).	
41	VSS	-	u-Com ground.	
42	TX	-	Unused.	
43	TEX	I	Ground.	
44	VDD	-	Analog power supply (+5V).	
45	VFDP	-	FL power supply(-33V).	
46	SEL.STB	O	TC9164AF strobe.	H: LATCH
47	SEL/PLL.DT	O	Selector/PLL IC data signal output.	
48	SEL/PLL.CK	O	Selector/PLL IC clock signal output.	
49	PLL.CE	O	PLL IC CE signal output.	
50	T.MUTE	O	Tuner mute control.	L: MUTE ON
51	A.MUTE	O	Audio mute control.	L: MUTE ON
52	NC	-	Unused.	
53	10dB.ATT	O	Volume 10dB attenuator control.	L: ATT ON
54	VOL.DT	O	Volume IC(M62492FP) data control.	
55	VOL.CK	O	Volume IC(M62492FP) clock control.	
56	VOL.STB	O	Volume IC(M62492FP) strobe control.	
57~59	NC	-	Unused.	
60	RELAY.A	O	SP. relay A control.	H: RELAY ON
61	RELAY.B	O	SP. relay B control.	H: RELAY ON
62,63	NC	-	Unused.	
64	POWER.RLY	O	Power relay control.	H: RELAY ON
65	STANDBY.LED	O	STANDBY LED control.	H: LED ON
66~71	NC	-	Unused.	
72	LIMITER	O	Output power control at SP. (A+B). K/M/X only.	
73	S.W MUTE	-	Unused.	
74,75	KS6/KS7	O	Key scan 6,7.	
76~81	P1/KS5~P6/KS0	O	FL segment 1~6/key scan 5~0.	
82~88	P7~P13	O	FL segment 7~13.	
89	VDD	O	u-Com +5V power supply.	
90~92	P14~P16	O	FL segment 14~16.	
93~100	G1~G8	O	FL GRID 1~8.	

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION : EXCEPT E type SELECTOR : FM							
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 68.25\text{kHz}$ dev. Selector : L or R Pilot : $\pm 6.75\text{kHz}$ dev. 70dBf (ANT. input)	(B)	98.0MHz	IFT (TUNER UNIT : A1)	Minimum distortion (L or R)	(a)
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, $\pm 75\text{kHz}$ dev. 25dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (TUNER UNIT)	Adjust VR1 and stop at the point where ED51 (TUNED) goes on.	(a)
FM SECTION : E type only SELECTOR : FM ※ Adjust NO.1 and NO.2 repeat.							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 40\text{kHz}$ dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN2 ① and CN2 ② (TUNER UNIT)	MONO 98.0MHz	L4 (TUNER UNIT)	0V	(a)
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, $\pm 40\text{kHz}$ dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (TUNER UNIT)	Minimum distortion	(a)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 40\text{kHz}$ dev. Selector : L or R Pilot : $\pm 6\text{kHz}$ dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (TUNER UNIT : A1)	Minimum distortion (L or R)	(a)
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, $\pm 40\text{kHz}$ dev. 25dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (TUNER UNIT)	Adjust VR1 and stop at the point where ED51 (TUNED) goes on.	(a)
AUDIO SECTION							
1	IDLE CURRENT	—	Connect a DC Voltmeter across CN11 (L) CN12 (R)	Volume: 0	VR1 (L) VR2 (R)	11 mV	(b)

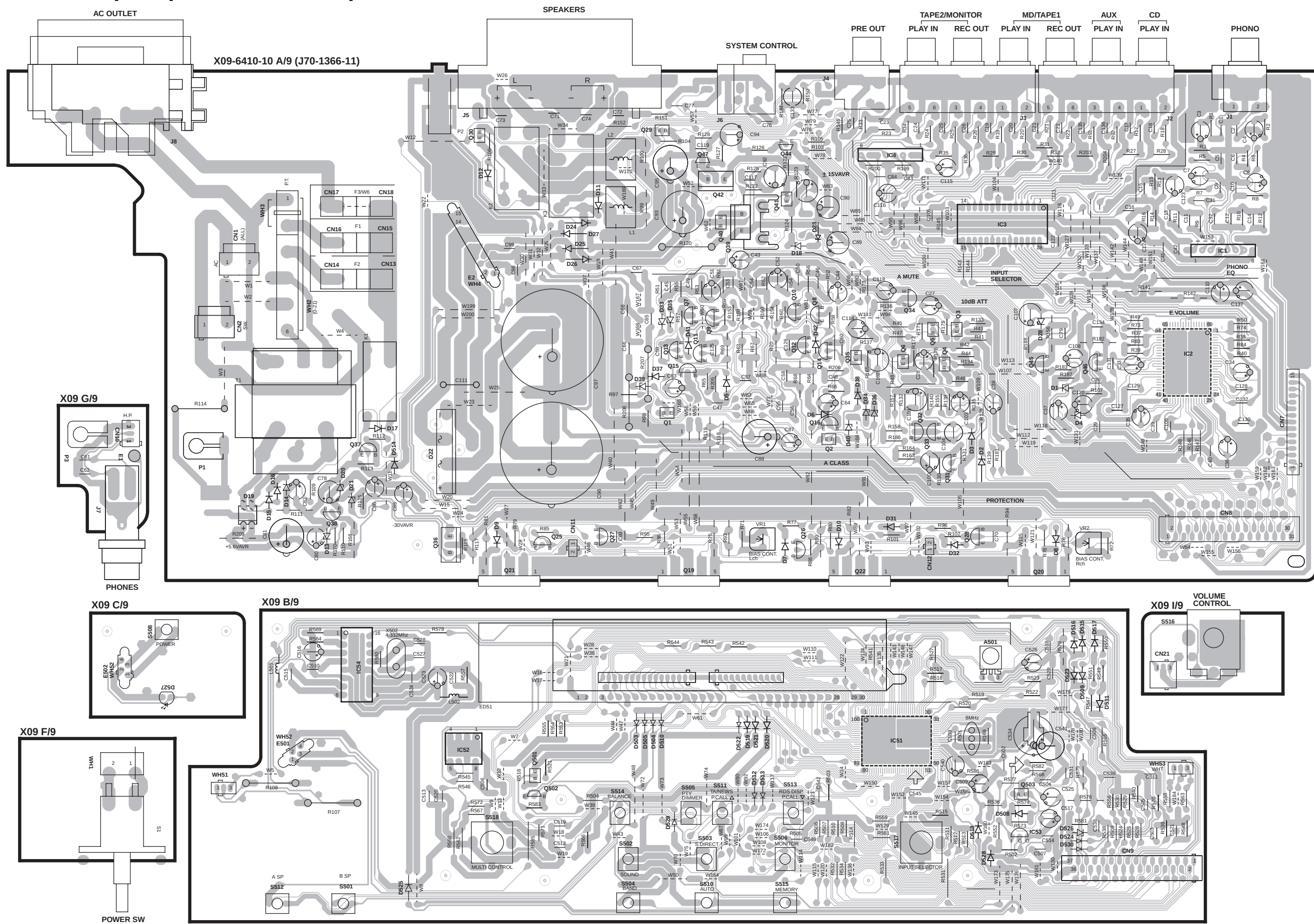
SYSTEM CONNECTIONS





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

PC BOARD (Component side view) AUDIO UNIT



*W:

AUDIO UNIT
(X09-641X-XX)
(A/9)X05-
CN1
1/3
A

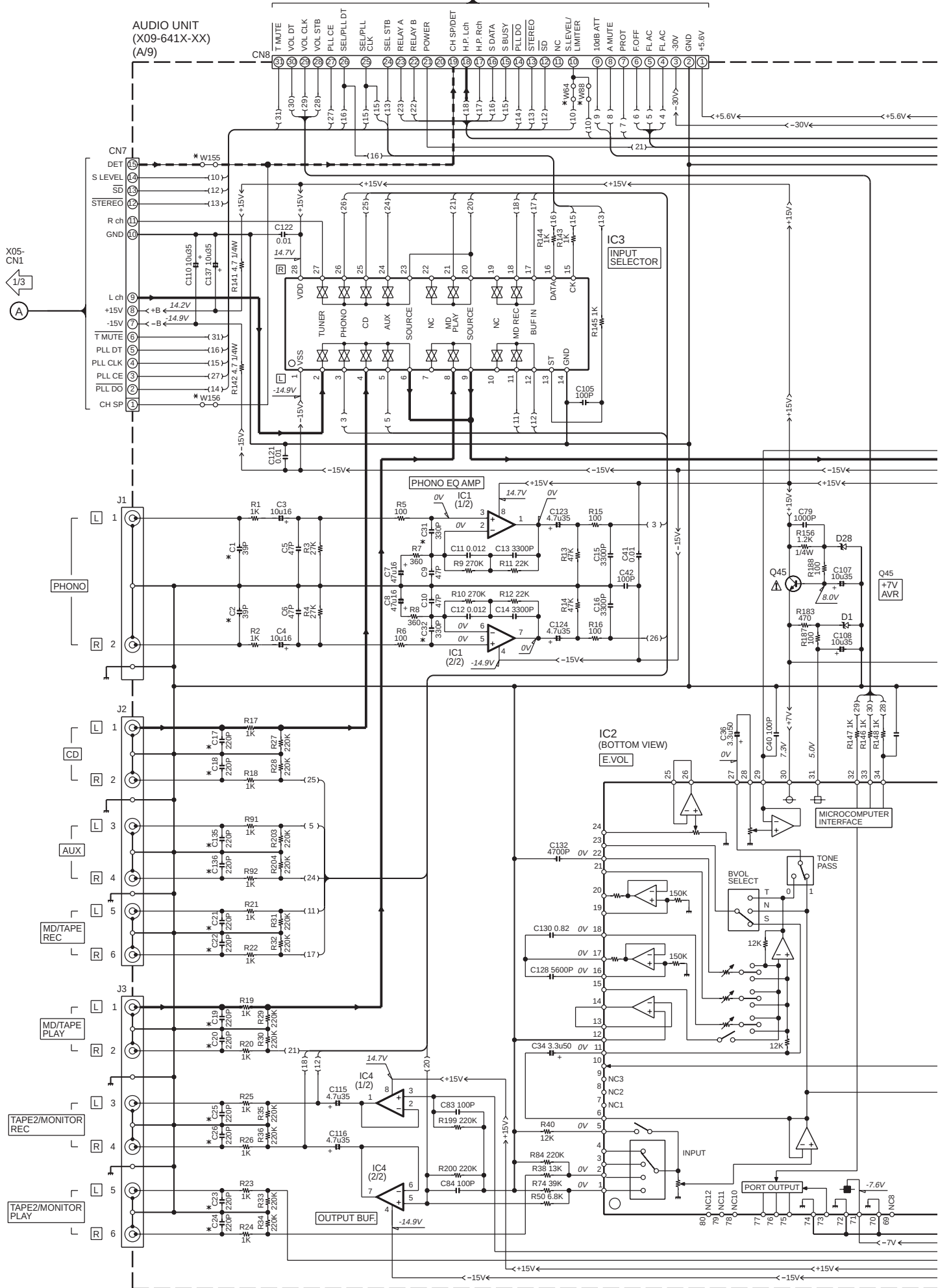
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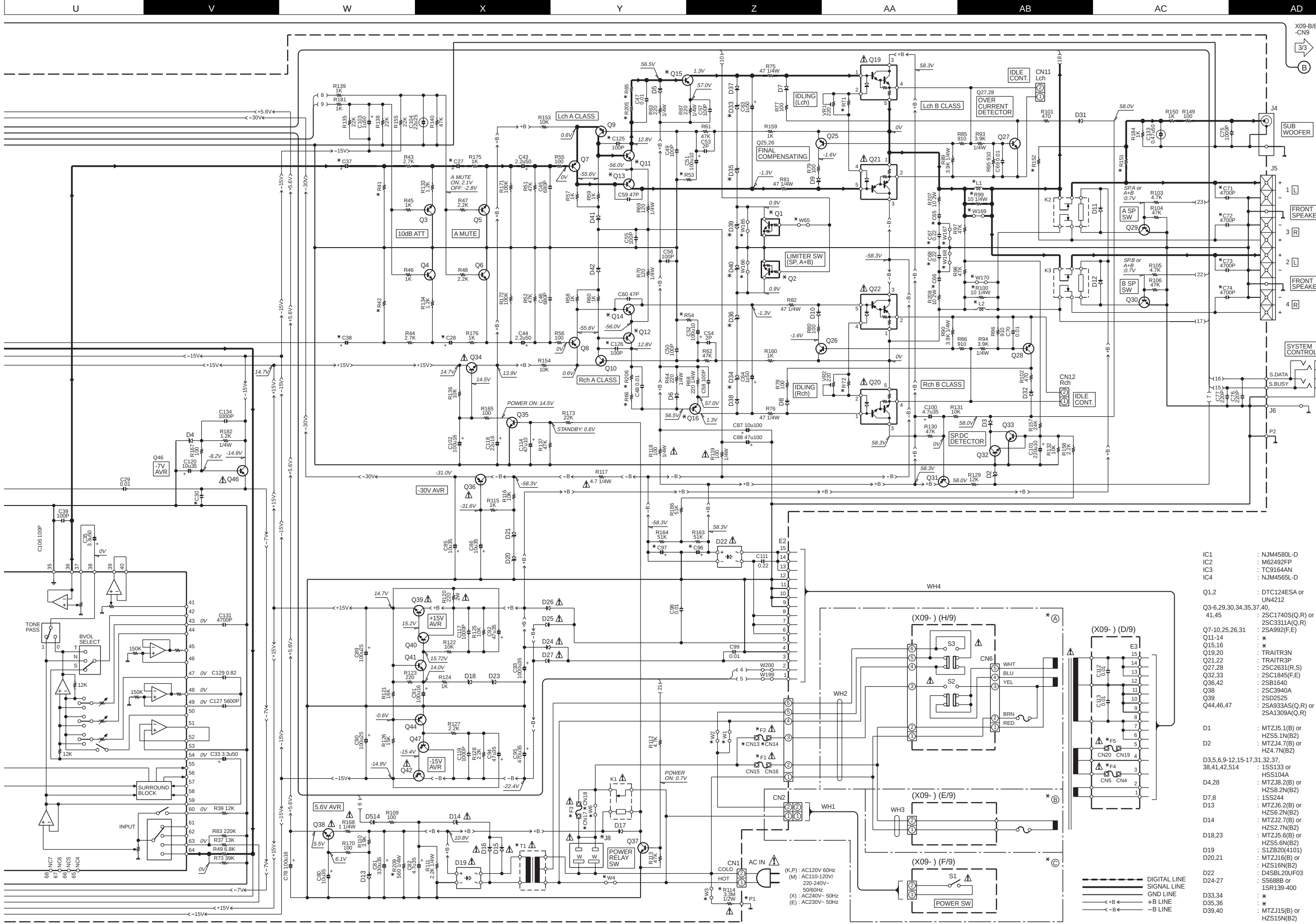
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7





AR-404 (X09-6410-10)

DESTINATION	COUNTRY	ABB.	UNIT No.	R41	R53	R65,66	R71	R99	R114	R151	C1,2,17-26,31,32	C27	C30	C37	C65	C96	C125	W1,2,64,155	W3,4,6,65,88	W3,4,14	L1,2	P1
U.S.A.	K	P	0-10	100K	200	8.2K	220	NO	YES	20K	NO	2.2u50	100P	4.7u35	0.1	4700u75	YES	NO	YES	NO	NO	YES
CANADA	K	P	0-10	100K	200	8.2K	220	NO	YES	20K	NO	2.2u50	100P	4.7u35	0.1	4700u75	YES	NO	YES	NO	NO	YES

DESTINATION	COUNTRY	ABB.	D33,34	D35,36	D39,40	Q1,2	Q11-14	Q15,16	F1	F2,3	F4,5	T1	J8	Ⓐ	Ⓑ	Ⓒ
U.S.A.	K	P	MTZ131(B) or HZS131N(B2)	MTZ131(B) or HZS131N(B2)	YES	YES	2SC2631(R,S)	2SA1123(R,S)	F05-0076-05	NO	F05-0066-05	L07-2874-05	E03-0148-05	NO	YES	
CANADA	K	P	MTZ131(B) or HZS131N(B2)	MTZ131(B) or HZS131N(B2)	YES	YES	2SC2631(R,S)	2SA1123(R,S)	F05-0076-05	NO	F05-0066-05	L07-2874-05	E03-0148-05	NO	YES	

KRF-A4030S (X09-641X-X0)

DESTINATION	COUNTRY	ABB.	UNIT No.	R41	R53	R65,66	R71	R99	R114	R151	R209	C1,2,17-26,31,32	C27	C30	C37	C65	C96	C125	W1,2,64,155	W3,4,6,65,88	W3,4,14	L1,2	P1
GENERAL MARKET	M	0-21	100K	200	8.2K	220	NO	NO	NO	20K	NO	NO	2.2u50	100P	4.7u35	0.22	YES	4700u75	YES	NO	YES	NO	NO
AUSTRALIA	X	0-71	100K	200	8.2K	220	NO	NO	NO	20K	YES	YES	4.7u35	0.01	22u16	0.22	YES	4700u75	YES	NO	YES	NO	NO
EUROPE	E	2-71	22K	270	6.8K	150	YES	YES	NO	15K	YES	YES	4.7u35	0.01	22u16	0.22	YES	4700u75	YES	NO	YES	NO	NO

DESTINATION	COUNTRY	ABB.	D33,34	D35,36	D39,40	Q1,2	Q11-14	Q15,16	F1	F2	F3	F4,5	T1	J8	Ⓐ	Ⓑ	Ⓒ
U.S.A.	K	P	MTZ131(B) or HZS131N(B2)	MTZ131(B) or HZS131N(B2)	YES	YES	2SC2631(R,S)	2SA1123(R,S)	F05-2525-05	NO	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	YES
AUSTRALIA	X	0-71	MTZ131(B) or HZS131N(B2)	MTZ131(B) or HZS131N(B2)	YES	YES	2SC2631(R,S)	2SA1123(R,S)	F05-2525-05	NO	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	YES
EUROPE	E	2-71	22K	270	6.8K	150	YES	YES	NO	YES	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	YES

KRF-A4030E (X09-6412-71)

DESTINATION	COUNTRY	ABB.	UNIT No.	R41	R53	R65,66	R71	R99	R114	R151	C1,2,17-26,31,32	C27	C30	C37	C65	C96	C125	W1,64,155	W2,3,4,6,65,88	W3,4,14	L1,2	P1
GENERAL MARKET	M	0-21	100K	200	8.2K	220	NO	NO	NO	20K	NO	NO	2.2u50	100P	4.7u35	0.22	YES	4700u75	YES	NO	YES	NO
AUSTRALIA	X	0-71	100K	200	8.2K	220	NO	NO	NO	20K	YES	YES	4.7u35	0.01	22u16	0.22	YES	4700u75	YES	NO	YES	NO
EUROPE	E	2-71	22K	270	6.8K	150	YES	YES	NO	15K	YES	YES	4.7u35	0.01	22u16	0.22	YES	4700u75	YES	NO	YES	NO

DESTINATION	COUNTRY	ABB.	D33,34	D35,36	D39,40	Q1,2	Q11-14	Q15,16	F1	F2	F3	F4,5	T1	J8	Ⓐ	Ⓑ	Ⓒ
U.S.A.	K	P	MTZ131(B) or HZS131N(B2)	MTZ131(B) or HZS131N(B2)	YES	YES	2SC2631(R,S)	2SA1123(R,S)	F05-2525-05	NO	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	YES
AUSTRALIA	X	0-71	MTZ131(B) or HZS131N(B2)	MTZ131(B) or HZS131N(B2)	YES	YES	2SC2631(R,S)	2SA1123(R,S)	F05-2525-05	NO	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	YES
EUROPE	E	2-71	22K	270	6.8K	150	YES	YES	NO	YES	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	YES

KRF-A4030E (X09-6412-71)

DESTINATION	COUNTRY	ABB.	UNIT No.	R41	R53	R65,66	R71	R99	R114	R151	C1,2,17-26,31,32	C27	C30	C37	C65	C96	C125	W1,64,155	W2,3,4,6,65,88	W3,4,14	L1,2	P1
GENERAL MARKET	M	0-21	100K	200	8.2K	220	NO	NO	NO	20K	NO	NO	2.2u50	100P	4.7u35	0.22	YES	4700u75	YES	NO	YES	NO
AUSTRALIA	X	0-71	100K	200	8.2K	220	NO	NO	NO	20K	YES	YES	4.7u35	0.01	22u16	0.22	YES	4700u75	YES	NO	YES	NO
EUROPE	E	2-71	22K	270	6.8K	150	YES	YES	NO	15K	YES	YES	4.7u35	0.01	22u16	0.22	YES	4700u75	YES	NO	YES	NO

DESTINATION	COUNTRY	ABB.	D33,34	D35,36	D39,40	Q1,2	Q11-14	Q15,16	F1	F2	F3	F4,5	T1	J8	Ⓐ	Ⓑ	Ⓒ
U.S.A.	K	P	MTZ131(B) or HZS131N(B2)	MTZ131(B) or HZS131N(B2)	YES	YES	2SC2631(R,S)	2SA1123(R,S)	F05-2525-05	NO	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	YES
AUSTRALIA	X	0-71	MTZ131(B) or HZS131N(B2)	MTZ131(B) or HZS131N(B2)	YES	YES	2SC2631(R,S)	2SA1123(R,S)	F05-2525-05	NO	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	YES
EUROPE	E	2-71	22K	270	6.8K	150	YES	YES	NO	YES	NO	F05-6313-05	L07-2876-05	E03-0149-05	YES	NO	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 no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

2SA1123
2SA992
2SC1845
2SC2631

2SC3940A

DTC124ESA
2SC1740S

2SA1576A
2SB1218A
2SD1819A

UN4212
2SA1309A
2SC3311A

Q1,2 : DTC124ESA or UN4212

Q3-6,29,30,34,35,37,40,41,45 : 2SC1740S(Q,R) or 2SC3311A(Q,R) or 2SA992(F,E)

Q7-10,25,26,31,32,37,40,41,45 : *

Q11-14 : *

Q15,16 : *

Q19,20 : TRAITR3N

Q21,22 : TRAITR3P

Q27,28 : 2SC2631(R,S)

Q32,33 : 2SC1845(F,E)

Q36,42 : 2SB1640

Q38 : 2SC3940A

Q39 : 2SD2525

Q44,46,47 : 2SA933AS(Q,R) or 2SA1309A(Q,R)

D1 : MTZ16.1(B) or HZS5.1N(B2)

D2 : MTZ14.7(B) or HZ4.7N(B2)

D3,5,6,9-12,15-17,31,32,37,38,41,42,514 : 1SS133 or HSS104A

D4,28 : MTZ36.2(B) or HZ56.2N(B2)

D7,8 : 1SS244

D13 : MTZ36.2(B) or HZ56.2N(B2)

D14 : MTZ12.7(B) or HZ52.7N(B2)

D18,23 : MTZ35.6(B) or HZ55.6N(B2)

D19 : SLZB20(4101)

D20,21 : MTZ161(B) or HZ516N(B2)

D22 : D4SBL20UF03

D24-27 : 5S8888 or 1SR139-400

2SC4081
2SD1757K

TRAIT3N
TRAIT3P

SAA6579/R

BR24C02
NJM4580L-D

DA204U

LC72131

M62492FP

NJM4565L-D

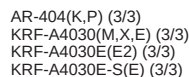
AR-404(K,P) (2/3)
KRF-A4030S(M,X,E) (2/3)
KRF-A4030E (2/3)
KRF-A4030E(E2) (2/3)

Y05-4040-10

AR-404/KRF-A4030E/A4030-S

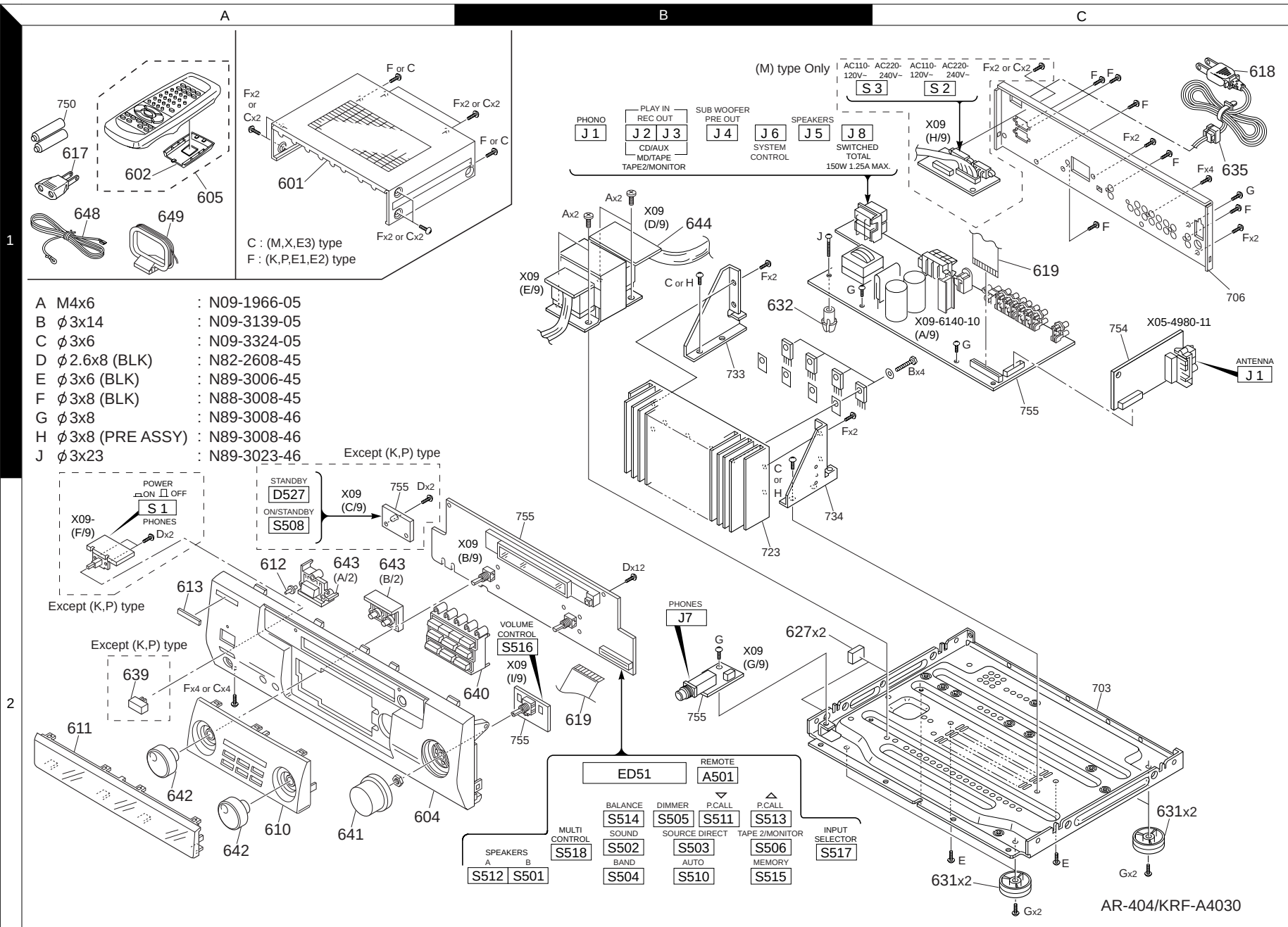
KENWOOD

DESTINATION		UNIT NO	①	R503, 556	R504, 583	R509	C503 549	C508	C521	C529	C534	C541	C542	W110.111 114.115	S505	S511	S513	D503	D504	D505, 525	D507	D510	Q502	IC51
COUNTRY	ABB.																							
GENERAL MARKET	M	0-21	NO	YES	YES	NO	NO	YES	100P	100P			YES	NO	DIMMER	P.CALL V	P.CALL V	YES	NO	NO			YES	CXP82832-162Q
AUSTRALIA	X	0-71														T/TA NEWS	(RDS) DISPLAY	NO	NO	YES	NO	YES	NO	CXP82840-163Q
EUROPE	E3	2-71	YES	NO	NO	YES	YES	NO	220P	47P	YES	NO	YES	NO	PTY			NO	NO	YES			NO	



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

EXPLODED VIEW (UNIT)



AR-404/KRF-A4030

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
AR-404/KRF-A4030/A4030E/A4030-S						
601	1A	*	A01-3733-01	METALLIC CABINET	E2	
601	1A	*	A01-3733-01	METALLIC CABINET	KPE1	
601	1A	*	A01-3734-01	METALLIC CABINET	MXE3	
602	1A		A09-1123-08	BATTERY COVER		
604	2A	*	A60-1762-01	PANEL	KP	
604	2A	*	A60-1763-01	PANEL	E1E2	
604	2A	*	A60-1764-01	PANEL	MXE3	
605	1A		A70-1266-05	REMOTE CONTROL ASSY(RC-R0709)	KPM	
605	1A		A70-1266-05	REMOTE CONTROL ASSY(RC-R0709)	X	
605	1A		A70-1267-05	REMOTE CONTROL ASSY(RC-R0708)	E1E2E3	
610	2A	*	B07-2479-02	ESCUTCHEON	KP	
610	2A	*	B07-2480-02	ESCUTCHEON	E3	
610	2A	*	B07-2504-02	ESCUTCHEON	MX	
610	2A	*	B07-2506-02	ESCUTCHEON	E1E2	
611	2A	*	B10-3576-02	FRONT GLASS	KP	
611	2A	*	B10-3577-02	FRONT GLASS	MX	
611	2A	*	B10-3578-12	FRONT GLASS	E1E2E3	
612	2A	*	B12-0385-04	INDICATOR		
613	2A		B43-0314-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	E1E2E3	
-			B46-0328-03	WARRANTY CARD	K	
-			B46-0346-00	QUESTIONAIRE CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-			B58-0964-13	CAUTION CARD (UL)	K	
-			B58-0965-13	CAUTION CARD (T,XtypePL)	X	
-			B58-0966-13	CAUTION CARD (ELMtypePL)	ME1E3	
-		*	B58-0967-03	CAUTION CARD (PtypePL)	P	
-		*	B58-1607-03	CAUTION CARD	E2	
-		*	B60-4556-00	INSTRUCTION MANUAL (EN)	KPM	
-		*	B60-4556-00	INSTRUCTION MANUAL (EN)	X	
-		*	B60-4557-00	INSTRUCTION MANUAL (EN)	E2	
-		*	B60-4558-00	INSTRUCTION MANUAL (FR)	P	
-		*	B60-4559-00	INSTRUCTION MANUAL (EN/TC)	M	
-		*	B60-4560-00	INSTRUCTION MANUAL (FR/NE)	E1E3	
-		*	B60-4561-00	INSTRUCTION MANUAL (IT/ES)	E1E3	
-		*	B60-4562-00	INSTRUCTION MANUAL (GE)	E1E3	
-		*	B60-4563-00	INSTRUCTION MANUAL (RU//PL)	E2	
-		*	B60-4564-00	INSTRUCTION MANUAL (HU/CZ)	E2	
Δ 617	1A		E03-0115-05	AC PLUG ADAPTER	M	
Δ 618	1C		E30-2717-05	AC POWER CORD	X	
Δ 618	1C	*	E30-2941-05	AC POWER CORD	KP	
Δ 618	1C	*	E30-2942-05	AC POWER CORD	E3	
Δ 618	1C	*	E30-2942-05	AC POWER CORD	ME1E2	
619	1C,2B		E35-1772-05	FLAT CABLE		
627	2B		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		
-		*	H50-3616-04	ITEM CARTON CASE	KP	

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-		*	H50-3617-04	ITEM CARTON CASE	E1	
-		*	H50-3618-04	ITEM CARTON CASE	M	
-		*	H50-3619-04	ITEM CARTON CASE	XE3	
-		*	H50-3650-04	ITEM CARTON CASE	E2	
631	2C	*	J02-1464-03	FOOT		
632	1B		J19-3752-14	UNIT HOLDER		
635	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
639	2A	*	K27-2384-04	KNOB (BUTTON)	E1E2	
639	2A	*	K27-2385-04	KNOB (BUTTON)	MXE3	
640	2B	*	K29-7675-12	KNOB	E2	
640	2B	*	K29-7675-12	KNOB	KPE1	
640	2B	*	K29-7676-12	KNOB	MXE3	
641	2A	*	K29-7678-04	KNOB (VOLUME)	E2	
641	2A	*	K29-7678-04	KNOB (VOLUME)	KPE1	
641	2A	*	K29-7679-04	KNOB (VOLUME)	MXE3	
642	2A	*	K29-7681-14	KNOB (MULTI/INPUT)	E2	
642	2A	*	K29-7681-14	KNOB (MULTI/INPUT)	KPE1	
642	2A	*	K29-7682-14	KNOB (MULTI/INPUT)	MXE3	
643	2A	*	K29-7687-03	KNOB (SPEAKER/POWER)	E2	
643	2A	*	K29-7687-03	KNOB (SPEAKER/POWER)	KPE1	
643	2A	*	K29-7688-03	KNOB (SPEAKER/POWER)	MXE3	
Δ 644	1B		L07-2638-05	POWER TRANSFORMER	E1E2E3	
Δ 644	1B		L07-2639-05	POWER TRANSFORMER	M	
Δ 644	1B		L07-2691-05	POWER TRANSFORMER	X	
Δ 644	1B	*	L07-2801-05	POWER TRANSFORMER	KP	
648	1A		T90-0836-05	LEAD WIRE ANTENNA		
649	1A	*	T90-0852-05	LOOP ANTENNA		
TUNER UNIT (X05-498X-XX)						
C1			CK73FB1H223K	CHIP C	0.022UF	K
C2			CK73FB1H103K	CHIP C	0.010UF	K
C3			CK73FB1H103K	CHIP C	0.010UF	K
C5 ,6			CK73FB1H103K	CHIP C	0.010UF	K
C7			CE04LW1C470M	ELECTRO	47UF	16WV
C8			CK73EB1H103K	CHIP C	0.010UF	K
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			C90-3251-05	ELECTRO	0.47UF	50WV
C17			CE04LW1H010M	ELECTRO	1.0UF	50WV
C18			CC73FCH1H470J	CHIP C	47PF	J
C19			C90-3217-05	ELECTRO	10UF	10WV
C20			CK73FB1H473K	CHIP C	0.047UF	K
C21			C90-3241-05	ELECTRO	3.3UF	35WV
C22			CK73FB1H473K	CHIP C	0.047UF	K
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

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AR-404/KRF-A4030/A4030E/A4030-S

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C30 ,31 C30 ,31 C30 ,31 C32 C33 ,34			CK73FB1H223K CK73FB1H223K CK73FB1H333K CE04LW1V4R7M CK73FB1H103K	CHIP C 0.022UF K CHIP C 0.022UF K CHIP C 0.033UF K ELECTRO 4.7UF 35WV CHIP C 0.010UF K	E2E3 MXE1 KP M	
C35 C35 C36 C37 ,38 C39			CK73FB1H332K CK73FB1H332K CK73FB1H103K CE04LW1C100M CC73FCH1H060D	CHIP C 3300PF K CHIP C 3300PF K CHIP C 0.010UF K ELECTRO 10UF 16WV CHIP C 6.0PF D	KPM X	
C40 C41 C42 C43 C44			CC73FCH1H020C CC73FCH1H220J CC73FCH1H120J CC73FCH1H100D CK73FB1H471K	CHIP C 2.0PF C CHIP C 22PF J CHIP C 12PF J CHIP C 10PF D CHIP C 470PF K		
C45 C46 C47 C48 C49			CC73FCH1H220J CE04LW1C100M CK73FB1H102K CE04LW1C470M CE04LW1H2R2M	CHIP C 22PF J ELECTRO 10UF 16WV CHIP C 1000PF K ELECTRO 47UF 16WV ELECTRO 2.2UF 50WV		
C50 C51 C52 C70 ,71 C72			CC73FSL1H101J CK73FB1H471K CC73FSL1H101J CK73FB1H822K CE04LW1H010M	CHIP C 100PF J CHIP C 470PF K CHIP C 100PF J CHIP C 8200PF K ELECTRO 1.0UF 50WV	E1E2E3	
C73 C74 C75 C76 C77			CE04LW1C470M CK73FB1H102K CC73FCH1H030C CC73FCH1H470J CC73FSL1H101J	ELECTRO 47UF 16WV CHIP C 1000PF K CHIP C 3.0PF C CHIP C 47PF J CHIP C 100PF J	KP M	
C78 C79 ,80 C81 C82 C82			CK73FB1H223K CK73FB1H472K CK73FF1C105Z CK73FB1H103K CK73FB1H103K	CHIP C 0.022UF K CHIP C 4700PF K CHIP C 1.0UF Z CHIP C 0.010UF K CHIP C 0.010UF K	E1E2E3 E2E3 KPE1	
C83 C84 ,85 C86 C88 C89 ,90			CC73FSL1H101J CK73FB1H223K CK73FB1H471K CK73FB1H332K CK73FB1H472K	CHIP C 100PF J CHIP C 0.022UF K CHIP C 470PF K CHIP C 3300PF K CHIP C 4700PF K		KPMX
C91			CK73FF1C105Z	CHIP C 1.0UF Z		
CN1 CN2 CN2 J1 J1			E40-9831-05 E40-4871-05 E40-4871-05 E20-0321-05 E70-0052-05	SOCKET FOR PIN ASSY PIN ASSY PIN ASSY LOCK TERMINAL BOARD(2P,F) LOCK TERMINAL BOARD	E2E3 KPE1	
E1 E1 E1			F10-1128-14 F10-1129-14 F10-1129-14	SHIELDING PLATE SHIELDING PLATE SHIELDING PLATE	E1E2E3 KPM X	
CF1 ,2 CF1 ,2 CF1 ,2 CF3 L1			L72-0531-05 L72-0536-05 L72-0596-05 L72-0607-05 L39-1384-05	CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER COMBINATION COIL	MX E1E2E3 KP MX	

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L2 L3 L4 L4 L5			L40-1091-17 L30-0911-05 L30-0950-05 L30-0950-05 L30-0951-05	SMALL FIXED INDUCTOR(1UH) AM IFT FM IFT FM IFT FM IFT	E2E3 KPE1 E2E3	
L5 L6 ,7 L9 X1			L30-0951-05 L79-1239-05 L40-1001-17 L77-2232-05	FM IFT LC FILTER SMALL FIXED INDUCTOR(10UH,K) CRYSTAL RESONATOR	KPE1 E1E2E3	
R1 R4 R5 R6 R7			RK73FB2A101J RK73FB2A681J RK73FB2A332J RK73FB2A221J RK73FB2A821J	CHIP R 100 J 1/10W CHIP R 680 J 1/10W CHIP R 3.3K J 1/10W CHIP R 220 J 1/10W CHIP R 820 J 1/10W		
R8 R8 R9 R10 R11			RK73FB2A100J RK73FB2A330J RK73FB2A391J RK73FB2A102J RK73FB2A220J	CHIP R 10 J 1/10W CHIP R 33 J 1/10W CHIP R 390 J 1/10W CHIP R 1.0K J 1/10W CHIP R 22 J 1/10W	E1E2E3 KPMX	
R11 R12 R14 R14 R14			RK73FB2A330J RK73FB2A101J RK73FB2A101J RK73FB2A101J RK73FB2A271J	CHIP R 33 J 1/10W CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 100 J 1/10W CHIP R 270 J 1/10W	KPMX E2E3 KPE1 MX	
R15 R15 R16 R17 R18			RK73FB2A333J RK73FB2A333J RK73FB2A220J RK73FB2A362J RK73FB2A302J	CHIP R 33K J 1/10W CHIP R 33K J 1/10W CHIP R 22 J 1/10W CHIP R 3.6K J 1/10W CHIP R 3.0K J 1/10W	E2E3 KPE1	
R19 R20 R23 R23 R23			RK73FB2A822J RK73FB2A392J RK73FB2A153J RK73FB2A332J RK73FB2A472J	CHIP R 8.2K J 1/10W CHIP R 3.9K J 1/10W CHIP R 15K J 1/10W CHIP R 3.3K J 1/10W CHIP R 4.7K J 1/10W	E1E2E3 MX KP	
R25 R25 R25 R27 ,28 R27 ,28 R27 ,28			RK73FB2A183J RK73FB2A223J RK73FB2A273J RK73FB2A432J RK73FB2A622J	CHIP R 18K J 1/10W CHIP R 22K J 1/10W CHIP R 27K J 1/10W CHIP R 4.3K J 1/10W CHIP R 6.2K J 1/10W	MX KP E1E2E3 E1E2E3 KP	
R27 ,28 R29 R30 R31 R32			RK73FB2A752J RK73FB2A101J RK73FB2A561J RK73FB2A473J RK73FB2A272J	CHIP R 7.5K J 1/10W CHIP R 100 J 1/10W CHIP R 560 J 1/10W CHIP R 47K J 1/10W CHIP R 2.7K J 1/10W	MX M M M KPM	
R32 R33 ,34 R35 R36 R37			RK73FB2A272J RK73FB2A102J RK73FB2A101J RK73FB2A102J RK73FB2A392J	CHIP R 2.7K J 1/10W CHIP R 1.0K J 1/10W CHIP R 100 J 1/10W CHIP R 1.0K J 1/10W CHIP R 3.9K J 1/10W	X E1E2E3 E1E2E3 E1E2E3	
R38 R39 R42 R43 R44			RK73FB2A102J RK73FB2A103J RK73FB2A103J RK73FB2A221J RD14NB2E271J	CHIP R 1.0K J 1/10W CHIP R 10K J 1/10W CHIP R 10K J 1/10W CHIP R 220 J 1/10W RD 270 J 1/4W	E1E2E3 E1E2E3	

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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		
△ 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	KP	
R72 ,73			RK73FB2A392J	CHIP R 3.9K J 1/10W	E1E2E3	
R72 ,73			RK73FB2A822J	CHIP R 8.2K J 1/10W	MX	
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		
R79			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R80			RK73FB2A223J	CHIP R 22K J 1/10W	E1E2E3	
△ R81			RS14KB3A151J	FL-PROOF RS 150 J 1W		
R82			RK73FB2A272J	CHIP R 2.7K J 1/10W	E2E3	
R82			RK73FB2A272J	CHIP R 2.7K J 1/10W	KPE1	
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		
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR		
W51 ,52			R92-0670-05	CHIP R 0 OHM		
W54 -56			R92-0670-05	CHIP R 0 OHM	M	
W54 ,55			R92-0670-05	CHIP R 0 OHM	E1E2E3	
W54 ,55			R92-0670-05	CHIP R 0 OHM	KPX	
W59			R92-0670-05	CHIP R 0 OHM	KPM	
W59 ,60			R92-0670-05	CHIP R 0 OHM	X	
W62			R92-0670-05	CHIP R 0 OHM	E1E2E3	
W80			R92-0679-05	CHIP R 0 OHM		
W82 -85			R92-0679-05	CHIP R 0 OHM	KPM	
W82 -85			R92-0679-05	CHIP R 0 OHM	X	
W84 ,85			R92-0679-05	CHIP R 0 OHM	E1E2E3	
D1			S62-0034-05	SLIDE SWITCH	M	
D1			DA204U	DIODE		
D1			MA143A	DIODE		
D1			1SS302	DIODE		
D3			HZS8.2N(B2)	ZENER DIODE		
D3			MTZJ8.2(B)	ZENER DIODE		
D4			HZS5.1N(B2)	ZENER DIODE		
D4			MTZJ5.1(B)	ZENER DIODE		
D5			HZS2.7N(B2)	ZENER DIODE		
D5			MTZJ2.7(B)	ZENER DIODE		

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D8			MA111	DIODE		
D9			HZS3.3N(B2)	ZENER DIODE		
D9			MTZJ3.3(B)	ZENER DIODE		
D11			MA111	DIODE	E1E2E3	
D13			MA111	DIODE		
IC1			LA1837	ANALOGUE IC	E2E3	
IC1			LA1837	ANALOGUE IC	KPE1	
IC1			LA1838	ANALOGUE IC	MX	
IC2			LC72131	MOS-IC		
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SD1819A(Q,R)	TRANSISTOR		
Q2			2SA1576A(R,S)	TRANSISTOR		
Q2			2SB1218A(Q,R)	TRANSISTOR		
Q3 ,4			2SC4081(R,S)	TRANSISTOR	M	
Q3 ,4			2SD1819A(Q,R)	TRANSISTOR	M	
Q6 ,7			2SC4081(R,S)	TRANSISTOR	E1E2E3	
Q6 ,7			2SD1819A(Q,R)	TRANSISTOR	E1E2E3	
Q10 ,11			2SD1757K	TRANSISTOR		
Q12			2SA1576A(R,S)	TRANSISTOR		
Q12			2SB1218A(Q,R)	TRANSISTOR		
Q14			2SA1576A(R,S)	TRANSISTOR		
Q14			2SB1218A(Q,R)	TRANSISTOR		
A1			W02-2584-05	FM FRONT-END ASSY	E1E2E3	
A1			W02-2622-05	FM FRONT-END ASSY	KPM	
A1			W02-2622-05	FM FRONT-END ASSY	X	
AUDIO UNIT (X09-641X-XX)						
D527			B30-2513-05	LED(RED)		
C1 ,2			CC45FSL1H390J	CERAMIC	39PF	J
C3 ,4			CE04LW1C100M	ELECTRO	10UF	16WV
C5 ,6			CC45FSL1H470J	CERAMIC	47PF	J
C7 ,8			CE04LW1C470M	ELECTRO	47UF	16WV
C9 ,10			CC45FSL1H470J	CERAMIC	47PF	J
C11 ,12			CQ93FMG1H123J	MYLAR	0.012UF	J
C13 -16			CQ93FMG1H332J	MYLAR	3300PF	J
C17 -26			CC45FSL1H221J	CERAMIC	220PF	J
C27 ,28			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C27 ,28			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C27 ,28			CE04KW1V4R7M	ELECTRO	4.7UF	35WV
C29			CK45FF1H103Z	CERAMIC	0.010UF	Z
C30			CC45FSL1H101J	CERAMIC	100PF	J
C30			CC45FSL1H101J	CERAMIC	100PF	J
C30			CQ93FMG1H103J	MYLAR	0.010UF	J
C31 ,32			CC45FSL1H331J	CERAMIC	330PF	J
C33 -36			CE04LW1H3R3M	ELECTRO	3.3UF	50WV
C37 ,38			CE04LW1C220M	ELECTRO	22UF	16WV
C37 ,38			CE04LW1V4R7M	ELECTRO	4.7UF	35WV
C37 ,38			CE04LW1V4R7M	ELECTRO	4.7UF	35WV
C39 ,40			CC45FSL1H101J	CERAMIC	100PF	J
C41			CK45FF1H103Z	CERAMIC	0.010UF	Z
C42			CC45FSL1H101J	CERAMIC	100PF	J
C43 ,44			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C45 ,46			CK45FB1H681K	CERAMIC	680PF	K
C47 ,48			CK45FF1H103Z	CERAMIC	0.010UF	Z

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C49 ,50 C51 ,52 C53 ,54 C55 -58 C59 ,60			CC45FSL1H101J CE04KW1A101M CC45FSL1H020C CC45FSL1H101J CC45FSL2H470J	CERAMIC 100PF ELECTRO 100UF CERAMIC 2.0PF CERAMIC 100PF CERAMIC 47PF	J 10WV C J J	
C61 ,62 C63 ,64 C65 ,66 C67 ,68 C67 ,68			CC45FSL1H101J CE04LW1H010M CQ93FMG1H104J CQ93FMG1H224J CQ93FMG1H224J	CERAMIC 100PF ELECTRO 1.0UF MYLAR 0.10UF MYLAR 0.22UF MYLAR 0.22UF	J 50WV J J J	E2E3 MXE1
C69 ,70 C71 -74 C75 C76 ,77 C78			CK45FF1H103Z CK45FF1H472Z CK45FB1H102K CC45FSL1H221J CE04LW1C101M	CERAMIC 0.010UF CERAMIC 4700PF CERAMIC 1000PF CERAMIC 220PF ELECTRO 100UF	Z Z K J 16WV	E1E2E3
C79 C80 C81 C82 C83 ,84			CK45FB1H102K CE04LW1V100M CE04LW1V331M CE04LW1V4R7M CC45FSL1H101J	CERAMIC 1000PF ELECTRO 10UF ELECTRO 330UF ELECTRO 4.7UF CERAMIC 100PF	K 35WV 35WV 35WV J	
C85 ,86 C87 C88 C89 ,90 C91			CE04LW1V100M CE04LW2A100M CE04LW2A470M CE04LW1E101M CE04LW1C101M	ELECTRO 10UF ELECTRO 10UF ELECTRO 47UF ELECTRO 100UF ELECTRO 100UF	35WV 100WV 100WV 25WV 16WV	
C92 C93 C94 C95 C96 ,97			CE04LW1V470M CE04LW1V102M CE04LW1V470M CE04LW1V471M C90-3832-05	ELECTRO 47UF ELECTRO 1000UF ELECTRO 47UF ELECTRO 470UF ELECTRO 4700UF	35WV 35WV 35WV 35WV 75WV	KPM
C96 ,97 C96 ,97 C98 ,99 C100 C101			C90-3832-05 C90-3833-05 CK45FF1H103Z CE04LW1V4R7M CE04LW1A221M	ELECTRO 4700UF ELECTRO 4700UF CERAMIC 0.010UF ELECTRO 4.7UF ELECTRO 220UF	75WV 63WV Z 35WV 10WV	X E1E2E3
C102 C103 C104 C105,106 C107,108			CE04LW1C101M CE04LW1H010M CE04HW1E220M CC45FSL1H101J CE04LW1V100M	ELECTRO 100UF ELECTRO 1.0UF NP-ELEC 22UF CERAMIC 100PF ELECTRO 10UF	16WV 50WV 25WV J 35WV	
C109 C110 C111 C112,113 C114			CK45FB1H102K CE04LW1V100M C91-1480-05 CK45FF1H103Z CE04LW1A470M	CERAMIC 1000PF ELECTRO 10UF MP 0.22UF CERAMIC 0.010UF ELECTRO 47UF	K 35WV 250WV Z 10WV	
C115,116 C117 C118 C119 C120			CE04LW1V4R7M CK45FB1H102K CE04LW1C220M CK45FB1H102K CE04LW1V100M	ELECTRO 4.7UF CERAMIC 1000PF ELECTRO 22UF CERAMIC 1000PF ELECTRO 10UF	35WV K 16WV K 35WV	
C121,122 C123,124 C125,126 C125,126 C127,128			CK45FF1H103Z CE04LW1V4R7M CC45FSL2H101J CC45FSL2H101J CQ93FMG1H562J	CERAMIC 0.010UF ELECTRO 4.7UF CERAMIC 100PF CERAMIC 100PF MYLAR 5600PF	Z 35WV J J J	KPM X

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C129,130 C131,132 C133 C134 C135,136		*	C91-1584-05 CQ93FMG1H472J CE04HW1HR47M CK45FB1H102K CC45FSL1H221J	MF-C 0.82UF MYLAR 4700PF NP-ELEC 0.47UF CERAMIC 1000PF CERAMIC 220PF	J J 50WV K J	E1E2E3
C137 C502 C503 C504,505 C506			CE04LW1V100M CK45FF1H103Z CK45FB1H102K CK45FF1H103Z CK45FB1H102K	ELECTRO 10UF CERAMIC 0.010UF CERAMIC 1000PF CERAMIC 0.010UF CERAMIC 1000PF	35WV Z K Z K	E1E2E3 E1E2E3
C507 C508 C508 C509 C510		*	CK45FF1H103Z CC45FSL1H101J CK45FSL1H101J CE04RW0J101M CC45FSL1H331J	CERAMIC 0.010UF CERAMIC 100PF CERAMIC 100PF ELECTRO 100UF CERAMIC 330PF	Z J J 6.3WV J	E3 XE1E2 E1E2E3
C511-514 C515 C516 C517 C518-520			CK45FF1H103Z CK45FB1H561K CE04LW1H2R2M CE04LW1H010M CK45FF1H103Z	CERAMIC 0.010UF CERAMIC 560PF ELECTRO 2.2UF ELECTRO 1.0UF CERAMIC 0.010UF	Z K 50WV 50WV Z	E1E2E3 E1E2E3
C521 C521 C522 C523 C524			CC45FSL1H101J CC45FSL1H221J CK45FF1H103Z CE04LW1A101M CK45FF1H103Z	CERAMIC 100PF CERAMIC 220PF CERAMIC 0.010UF ELECTRO 100UF CERAMIC 0.010UF	J J Z 10WV Z	KPMX E1E2E3 E1E2E3 E1E2E3 E1E2E3
C525 C526 C527 C528 C529			CE04LW1H010M CE04LW1A101M CC45FCH1H470J CC45FCH1H180J CC45FSL1H101J	ELECTRO 1.0UF ELECTRO 100UF CERAMIC 47PF CERAMIC 18PF CERAMIC 100PF	50WV 10WV J J J	E1E2E3 E1E2E3 M
C529 C529 C529 C531 C534			CC45FSL1H151J CC45FSL1H470J CC45FSL1H470J CK45FF1H103Z C90-1827-05	CERAMIC 150PF CERAMIC 47PF CERAMIC 47PF CERAMIC 0.010UF ELECTRO 0.047F	J J J Z 5.5WV	KP E3 XE1E2 E2E3
C534 C538,539 C540 C541 C542			C90-1827-05 CC45FSL1H101J CE04RW1C100M CE04LW1A471M CC45FSL1H331J	ELECTRO 0.047F CERAMIC 100PF ELECTRO 10UF ELECTRO 470UF CERAMIC 330PF	5.5WV J 16WV 10WV J	MXE1 J KP E3
C542 C545 C549			CC45FSL1H331J CC45FSL1H101J CC45FSL1H271J	CERAMIC 330PF CERAMIC 100PF CERAMIC 270PF	J J J	ME1E2 E1E2E3
CN1 CN2 CN2 CN6 CN7			E40-4245-05 E40-4245-05 E40-4245-05 E40-4281-05 E40-9848-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY		E2E3 MXE1 M
CN8 ,9 CN10 CN11,12 CN21 J1			E40-8319-05 E40-3247-05 E40-4871-05 E40-3261-05 E63-0068-15	FLAT CABLE CONNECTOR PIN ASSY PIN ASSY PIN ASSY PIN JACK		
J2 ,3			E63-0047-15	PIN JACK		

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J4			E63-0116-05	PIN JACK		
J4			E63-0164-05	PIN JACK		
J5			E70-0047-05	LOCK TERMINAL BOARD		
J6			E11-0293-05	MINIATURE PHONE JACK(2P V)		
J7			E11-0127-05	PHONE JACK (3P)		
△ J8			E03-0148-05	AC OUTLET	KP	
△ J8			E03-0149-05	AC OUTLET	E3	
△ J8			E03-0149-05	AC OUTLET	ME1E2	
△ J8			E03-0325-05	AC OUTLET	X	
△ F1			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E3M	
△ F1			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	XE1E2	
△ F1			F50-0076-05	FUSE(5X20)	KP	
△ F2			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	M	
△ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E1E2E3	
△ F4 ,5			F05-6313-05	FUSE (SEMKO) (250V T630MAL)	E2E3	
△ F4 ,5			F05-6313-05	FUSE (SEMKO) (250V T630MAL)	MXE1	
△ F4 ,5			F50-0066-05	FUSE(5X20)	KP	
-			J19-5928-13	HOLDER		
CN4 ,5			J13-0075-05	FUSE CLIP		
CN13-14			J13-0075-05	FUSE CLIP	M	
CN15,16			J13-0075-05	FUSE CLIP		
CN17,18			J13-0075-05	FUSE CLIP	E1E2E3	
CN19,20			J13-0075-05	FUSE CLIP		
E1			J11-0808-05	WIRE CLAMPER		
L1 ,2			L39-0085-05	PHASE COMPENSATION COIL	E1E2E3	
L501			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	E1E2E3	
L502			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	E1E2E3	
△ T1			L07-2575-05	POWER TRANSFORMER	E3	
△ T1			L07-2874-05	POWER TRANSFORMER	KP	
△ T1			L07-2875-05	POWER TRANSFORMER	XE1E2	
△ T1			L07-2876-05	POWER TRANSFORMER	M	
X501			L78-0290-05	RESONATOR (8MHZ)		
X502			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	E1E2E3	
R63 ,64			RD14NB2E221J	RD 220 J 1/4W		
R67 ,68			RD14NB2E221J	RD 220 J 1/4W		
R69 ,70			RD14NB2E121J	RD 120 J 1/4W		
R75 ,76			RD14NB2E470J	RD 47 J 1/4W		
R81 ,82			RD14NB2E470J	RD 47 J 1/4W		
R89 ,90			RD14NB2E392J	RD 3.9K J 1/4W		
R93 ,94			RD14NB2E392J	RD 3.9K J 1/4W		
R99 ,100			RD14NB2E100J	RD 10 J 1/4W	E1E2E3	
R107,108			RS14KB3D391J	FL-PROOF RS 390 J 2W		
R111			RD14NB2E222J	RD 2.2K J 1/4W		
△ R114			R92-1844-05	CARBON 3.3M J 1/2W	KP	
△ R117			RD14NB2E4R7J	RD 4.7 J 1/4W		
△ R118,119			RD14NB2E101J	RD 100 J 1/4W		
△ R120			RS14KB3D221J	FL-PROOF RS 220 J 2W		
△ R141,142			RD14NB2E4R7J	RD 4.7 J 1/4W		
△ R156			RD14NB2E122J	RD 1.2K J 1/4W		
R168			RD14NB2E1R0J	RD 1 J 1/4W		
R182			RD14NB2E122J	RD 1.2K J 1/4W		
R207,208			RS14KB3D100J	FL-PROOF RS 10 J 2W		
R209			RD14NB2E561J	RD 560 J 1/4W	E1E2E3	

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R209			RD14NB2E561J	RD 560 J 1/4W	KPX	
R575,576			RD14NB2E221J	RD 220 J 1/4W		
R579			RD14NB2E101J	RD 100 J 1/4W		
VR1 ,2			R32-0030-05	SEMI FIXED VARIABLE RESISTOR		
△ K1			S76-0089-05	MAGNETIC RELAY		
K2 ,3			S76-0045-15	MAGNETIC RELAY		
△ S1			S68-0107-05	PUSH SWITCH	E2E3	
△ S1			S68-0107-05	PUSH SWITCH	MXE1	
△ S2 ,3			S62-0001-05	SLIDE SWITCH	M	
S501-506			S70-0031-05	TACT SWITCH		
S508			S70-0031-05	TACT SWITCH		
S510-515			S70-0031-05	TACT SWITCH		
S516			T99-0602-05	ROTARY ENCODER		
S517,518		*	T99-0630-05	ROTARY ENCODER		
D1			HZS5.1N(B2)	ZENER DIODE		
D1			MTZJ5.1(B)	ZENER DIODE		
D2			HZS4.7N(B2)	ZENER DIODE		
D2			MTZJ4.7(B)	ZENER DIODE		
D3			HSS104A	DIODE		
D3			1SS133	DIODE		
D4			HZS8.2N(B2)	ZENER DIODE		
D4			MTZJ8.2(B)	ZENER DIODE		
D5 ,6			HSS104A	DIODE		
D5 ,6			1SS133	DIODE		
D7 ,8			1SS244	DIODE		
D9 -12			HSS104A	DIODE		
D9 -12			1SS133	DIODE		
D13			HZS6.2N(B2)	ZENER DIODE		
D13			MTZJ6.2(B)	ZENER DIODE		
△ D14			HZS2.7N(B2)	ZENER DIODE		
△ D14			MTZJ2.7(B)	ZENER DIODE		
△ D15 -17			HSS104A	DIODE		
△ D15 -17			1SS133	DIODE		
D18			HZS5.6N(B2)	ZENER DIODE		
△ D18			MTZJ5.6(B)	ZENER DIODE		
D19			S1ZB20(4101)	DIODE		
D20 ,21			HZS16N(B2)	ZENER DIODE		
D20 ,21			MTZJ16(B)	ZENER DIODE		
△ D22			D4SBL20UF03	DIODE		
D23			HZS5.6N(B2)	ZENER DIODE		
D23			MTZJ5.6(B)	ZENER DIODE		
△ D24 -27			S5688B	DIODE		
△ D24 -27			1SR139-400	DIODE		
D28			HZS8.2N(B2)	ZENER DIODE		
D28			MTZJ8.2(B)	ZENER DIODE		
D31 ,32			HSS104A	DIODE		
D31 ,32			1SS133	DIODE		
D33 ,34			HZS13N(B2)	ZENER DIODE	KPMX	
D33 ,34			HZS15N(B2)	ZENER DIODE	E1E2E3	
D33 ,34			MTZJ13(B)	ZENER DIODE	KPMX	
D33 ,34			MTZJ15(B)	ZENER DIODE	E1E2E3	
D35 ,36			HZS18N(B2)	ZENER DIODE	KPMX	
D35 ,36			HZS20N(B2)	ZENER DIODE	E1E2E3	
D35 ,36			MTZJ18(B)	ZENER DIODE	KPMX	

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D35 ,36 D37 ,38 D37 ,38 D39 ,40 D39 ,40			MTZJ20(B) HSS104A 1SS133 HZS15N(B2) MTZJ15(B)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE	E1E2E3 KPMX KPMX	
D41 ,42 D41 ,42 D503 D503 D504			HSS104A 1SS133 HSS104A 1SS133 HSS104A	DIODE DIODE DIODE DIODE DIODE	 M M X	
D504 D505 D505 D508,509 D508,509			1SS133 HSS104A 1SS133 HSS104A 1SS133	DIODE DIODE DIODE DIODE DIODE	 X E1E2E3 E1E2E3	
D510 D510 D510 D510 D511-524			HSS104A HSS104A 1SS133 1SS133 HSS104A	DIODE DIODE DIODE DIODE DIODE	 E1E2E3 MX E1E2E3 MX KP	
D511-524 D525 D525 D526 D526			1SS133 HSS104A 1SS133 HZS5.1N(B2) MTZJ5.1(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	 KP E1E2E3 E1E2E3	
D528-530 D528-530 ED51 IC1 IC2			HSS104A 1SS133 10-BT-216GK NJM4580L-D M62492FP	DIODE DIODE FLUORESCENT INDICATOR TUBE ANALOGUE IC MOS-IC		
IC3 IC4 IC51 IC51 IC51			TC9164AN NJM4565L-D CXP82832-162Q CXP82832-162Q CXP82840-163Q	MOS-IC ANALOGUE IC MI-COM IC MI-COM IC MI-COM IC	 KPM X E1E2E3	
IC52 IC53 IC54 Q1 ,2 Q1 ,2			BR24C02 S-806D-Z SAA6579/R DTC124ESA DTC124ESA	IC(E2PROM) ANALOGUE IC ANALOGUE IC DIGITAL TRANSISTOR DIGITAL TRANSISTOR	 E1E2E3 KPM X	
Q1 ,2 Q1 ,2 Q3 -6 Q3 -6 Q7 -10			UN4212 UN4212 2SC1740S(Q,R) 2SC3311A(Q,R) 2SA992(F,E)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	 KPM X	
Q11 -14 Q11 -14 Q11 -14 Q15 ,16 Q15 ,16			2SC1845(F,E) 2SC2631(R,S) 2SC2631(R,S) 2SA1123(R,S) 2SA1123(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	 E1E2E3 KPM X KPM X	
Q15 ,16 Q19 ,20 Q21 ,22 Q25 ,26 Q27 ,28		*	2SA992(F,E) TRAIT3N TRAIT3P 2SA992(F,E) 2SC2631(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	 E1E2E3	

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

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q29 ,30 Q29 ,30 Q31 Q32 ,33 Q34 ,35			2SC1740S(Q,R) 2SC3311A(Q,R) 2SA992(F,E) 2SC1845(F,E) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q34 ,35 Q36 Q37 Q37 Q38			2SC3311A(Q,R) 2SB1640 2SC1740S(Q,R) 2SC3311A(Q,R) 2SC3940A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q39 Q40 ,41 Q40 ,41 Q42 Q44			2SD2525 2SC1740S(Q,R) 2SC3311A(Q,R) 2SB1640 2SA1309A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q44 Q45 Q45 Q46 ,47 Q46 ,47			2SA933AS(Q,R) 2SC1740S(Q,R) 2SC3311A(Q,R) 2SA1309A(Q,R) 2SA933AS(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q501 Q501 Q502 Q502 Q503			2SC1740S(Q,R) 2SC3311A(Q,R) 2SA1309A(Q,R) 2SA933AS(Q,R) 2SC1740S(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	 M M	
Q503			2SC3311A(Q,R)	TRANSISTOR		
A501			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	CNT ABB.	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
AR-404	-	X	P	C	T	E	G	H	I
KRF-A4030	-	-	-	-	-	E1	-	-	-
KRF-A4030E	-	-	-	-	-	E2	-	-	-
KRF-A4030-S	-	X	-	-	-	E3	-	-	-
MODEL	CNT ABB.	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
AR-404	-	-	Y	Q	-	-	K	-	-
KRF-A4030	-	-	-	-	-	-	-	-	-
KRF-A4030E	-	-	-	-	-	-	-	-	-
KRF-A4030-S	-	-	-	-	-	-	-	M	-

PARTS LIST

AR-404/KRF-A4030/A4030E/A4030-S

SPECIFICATIONS

For U.S.A. and Canada

[AUDIO section]

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.5 % total harmonic distortion. (FTC)

Total harmonic distortion 0.02 % (1 kHz, 50 W, 8 Ω)
Signal to noise ratio (IHF'66)
PHONO (MM) 75 dB
CD 92 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 / 2.2 k Ω
PRE OUT (SUBWOOFER) 2 V / 2.2 k Ω
Tone control
BASS ± 9 dB (at 100 Hz)
TREBLE ± 9 dB (at 10 kHz)

[FM tuner section]

Tuning frequency range 87.5 MHz ~ 108.0 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) 65 dB
Frequency response ... (30 Hz ~ 15kHz), +0.5 dB ~ -3.0 dB

[AM tuner section]

Tuning frequency range 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

[GENEAL]

Power consumption 2.8 A
AC outlet
SWITCHED 2 (total 150 W, 1.25 A max.)
Dimensions W:440 mm (17-5/16")
H:144 mm (5-11/16")
D:389 mm (15-5/16")
Weight (Net) 8.0 kg (17.6 lb)

For other countries

[AUDIO section]

Effective power output during STEREO operation

1kHz,10% T.H.D.,at 8 Ω 140 W + 140 W

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.5 % total harmonic distortion.(FTC)

Total harmonic distortion 0.02 % (1 kHz, 50W, 8 Ω)
Signal to noise ratio (IHF'66)
PHONO (MM) 75 dB
CD 92 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 / 2.2 k Ω
PRE OUT (SUBWOOFER) 2 V / 2.2 k Ω
Tone control
BASS ± 9 dB (at 100 Hz)
TREBLE ± 9 dB (at 10 kHz)

[FM tuner section]

Tuning frequency range 87.5 MHz ~ 108.0 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) 65 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 (except Australia) ... 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) 50 dB

[GENEAL]

Power consumption 280 W
AC outlet
SWITCHED (for Australia) 1 (total 150 W max.)
SWITCHED (except Australia) ... 2 (total 150 W max.)
Dimensions W:440 mm (17-5/16")
H:144 mm (5-11/16")
D:389 mm (15-5/16")
Weight (Net) 8.0 kg (17.6 lb)

Notes:

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

AR-404/KRF-A4030/A4030E/A4030-S

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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