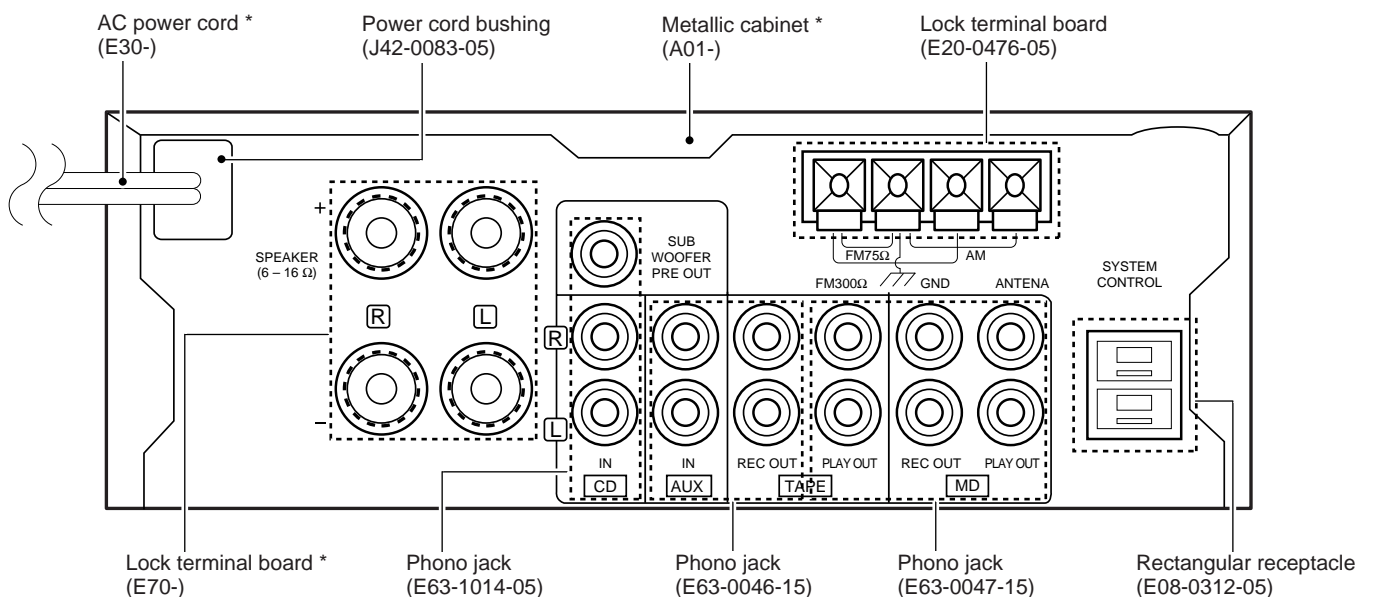
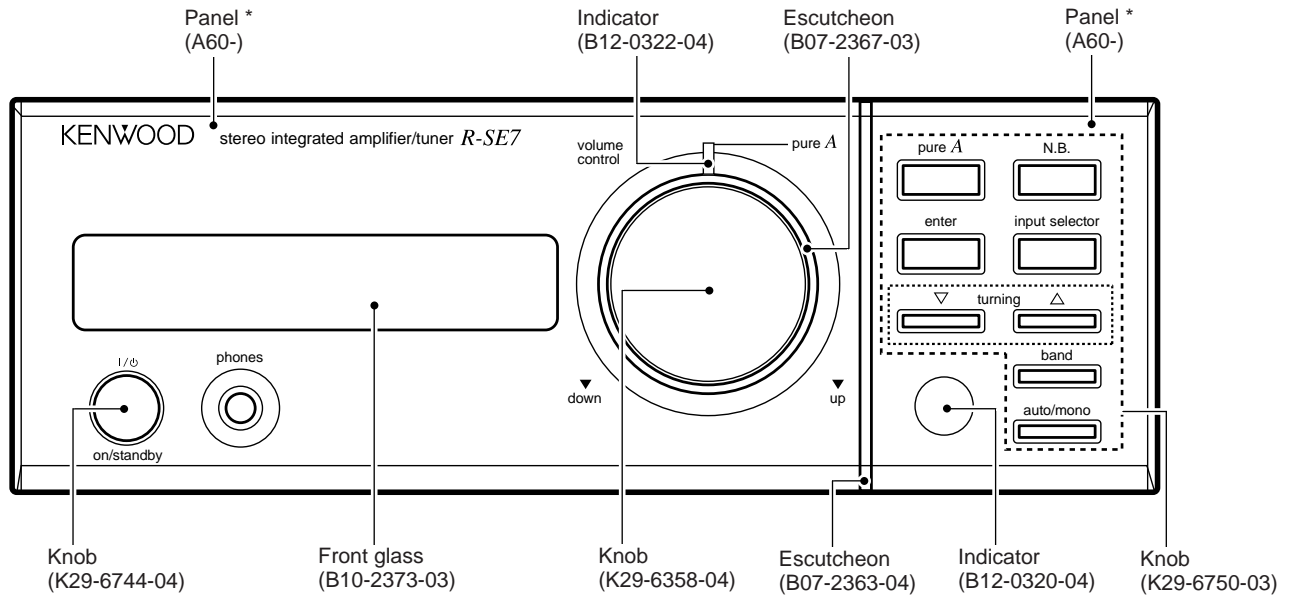


STEREO INTEGRATED AMPLIFIER/TUNER
R-SE7/SE-7(G)
 SERVICE MANUAL

KENWOOD

(HM-701)

©1997-10/B51-5373-00 (K/K) 3191



* Refer to parts list on page 25.

PRECAUTIONS FOR REPAIR

- For the SERIAL TEST CODE LIST of the circuit description, see Service manual (B51-5210-00) of R-SA7.
- No connection of ground line if disassemble the unit.
- Please connection the ground line on rear panel, PCBs, Chassis and some others.



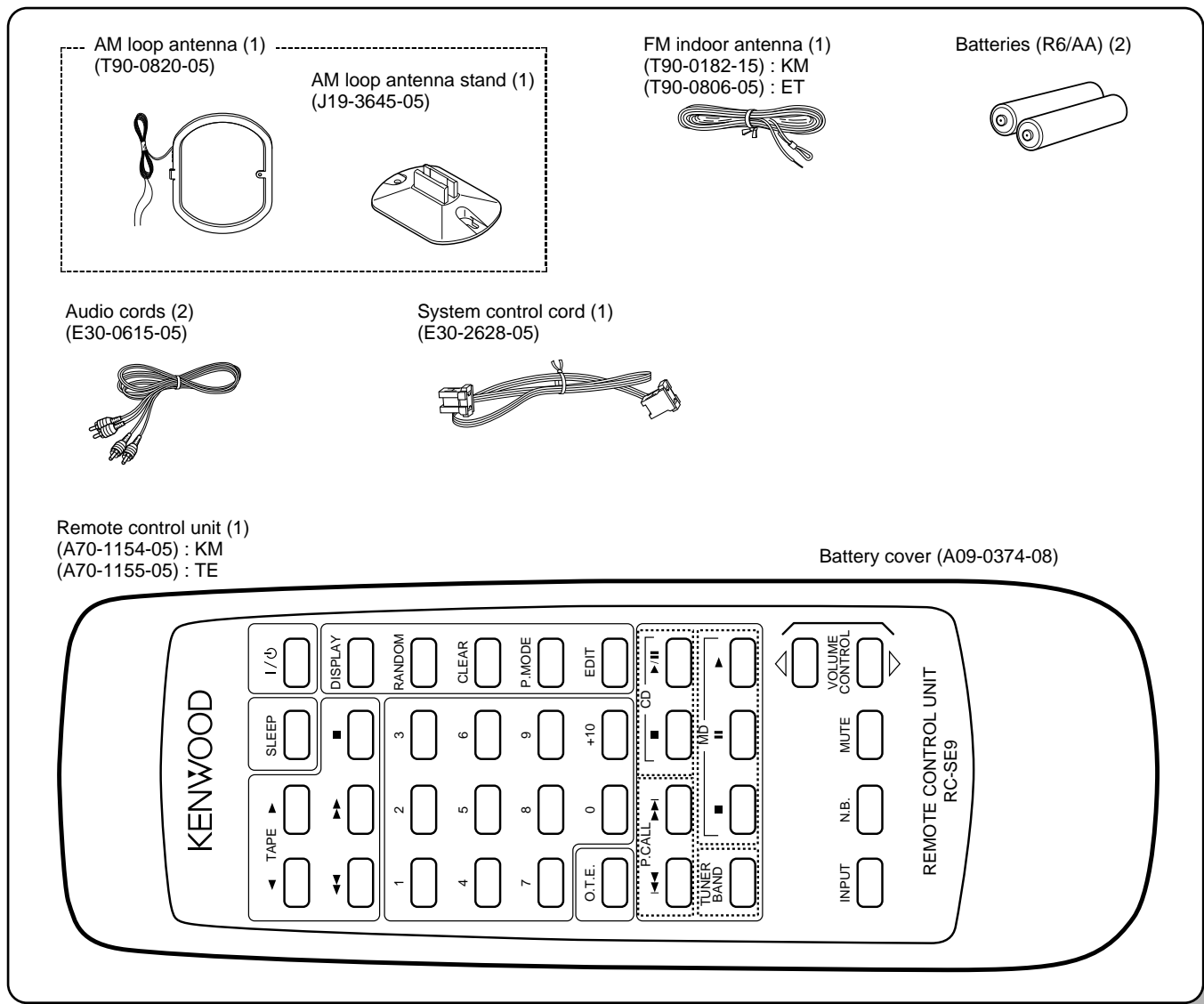
R-SE7/SE-7(G)

CONTENTS / ACCESSORIES

Contents

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Accessories



System configuration

SYSTEM NAME	AMP/TUNER	CD PLAYER	SPEAKER
HM-701	R-SE7	DP-SE7	LS-SE7

CIRCUIT DESCRIPTION

1. INITIAL STATE

(1) AMP-related block

E POWER	OFF
E SELECTOR SOURCE	TUNER
E DISPLAY	SELECTOR
E N.B. CIRCUIT	OFF
E A CLASS VOLUME VALUE	1.40 STEP
E AB CLASS VOLUME VALUE	7 STEP
E PURE MODE	NORMAL (AB CLASS)
E AUTO POWER SAVE	OFF
E MULTI CONTROL MODE	INPUT SEL.(R-SE9 only)

(2) TUNER-related block

E BAND	FM
E FREQUENCY	Lower-limit value of receiving frequency.
FM	87.5 MHz
AM	531 kHz
E AUTO/MANUAL	AUTO
E P.CH MEMORY	Last frequency
E Last P.CH	01ch
E RDS DATA TABLE MEMORY	NO DATA

(3) TIMER-rated block

E CLOCK	STOP (AM12:00)
E PROGRAM	WORKING MODE OFF
CONTENTS OF PROGR.	ON=AM 12:00 OFF=AM 12:00 PLAY MODE=PLAY SELECTOR=TUNER(1ch) REC MODE OFF
E O.T.T	WORKING MODE OFF
OTT ON TIME	AM 7:00

(4) TEST PRESET FREQUENCY

Channel	BAND	E TYPE	Channel	BAND	E TYPE
01ch	FM	87.50MHz	11ch	FM	90.00MHz
02ch	FM	97.50MHz	12ch	FM	98.00MHz
03ch	FM	108.00MHZ	13ch	FM	98.50MHz
04ch	AM	630kHz	14ch	FM	106.00MHz
05ch	AM	990kHz	15ch	AM	531kHz
06ch	AM	1440kHz	16ch	AM	990kHz
07ch	FM	87.50MHz	17ch	AM	1602kHz
08ch	FM	87.50MHz	18ch	FM	87.50MHz
09ch	FM	87.50MHz	19ch	FM	87.50MHz
10ch	FM	89.10MHz	20ch	FM	87.50MHz

f The initial setting is performed in a following event :

1. When backup memory data is destroyed when reset is applied to the microprocessor.
2. When the power cord is plugged in to the AC wall outlet while pressing the on/standby key.

2. BACKUP

This function holds the current state of the unit even if the AC power of the receiver is turned OFF.

(1) Operation outline

The backup state set command signal (CE) of a microcomputer is set low when the AC power is turned OFF. The microcomputer detects the signal and enters the stop state.

The microcomputer is reset when the AC power is turned ON. The data for backup state confirmation is checked by reset processing.

The microcomputer is initialized when the data was destroyed. If it is not destroyed, the microcomputer is started in the backup state.

E The data for backup state confirmation is written in a RAM area.

E The microcomputer is set to the STOP mode so as to save the power consumption.

E A backup state set command signal is detected by a timer interrupt of 1 msec.

E The backup guarantee period is set in a circuit.

(2) Backup state setting

E The data (A596, 5A69H) for backup state confirmation is written in a RAM area.

(3) Contents of backup data to be held

[[[AMP]]]

E POWER ON/OFF

E DISPLAY MODE

E SELECTOR SOURCE

E N.B. CIRCUIT MODE

E A CLASS VOLUME VALUE

E AB CLASS VOLUME VALUE

E PURE A MODE

[[[TUNER]]]

E LAST BAND

E PRESET CHANNEL/RECEIVING STATION FREQUENCY/PI/TA/PTY/PS

E LAST RECEIVING STATION FREQUENCY AND PRESET CHANNEL (AM/FM)

E PRESET MEMORY data (1ch~40ch)

E AUTO/MANUAL

[[[CLOCK/TIMER]]]

E LAST CLOCK DATA

E PROGRAMMED CONTENTS/PROGRAM TIMER WORKING MODE ON/OFF

E O.T.T. SETTING TIME/O.T.T. WORKING MODE ON/OFF

R-SE7/SE-7(G)

CIRCUIT DESCRIPTION

3. DESTINATION LIST OF TUNER

3-1 Destination List of Tuner

Destination	BAND	Receive frequency range	Channel space	1F	PLL reference frequency	DIODE SW	
						DSW1 D518	DSW2 D519
K1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	1	1
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz		
E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz		
E3 (RDS)	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	1	0
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz		
M	K2 or E1 is changed the setting "DSW1". (DSW1=1 : K2, 0 = E1)					X	1

0 : NO DIODE 1 : DIODE X : SWITCHING TRANSISTOR

4. TEST MODE

4-1. Initializing

The system is initialized when the power is turned on while pressing the on/standby key.

(1) Contents of operation

☒ All the functions are initialized.

4-2. AMP test mode using main unit's keys

4-2-1. Entering the AMP test mode

☒ Turn on the power while pressing the BAND key.

4-2-2. Canceling the AMP test mode

☒ By turning off the power, the system is initialized and the test mode is canceled.

4-2-3. Contents of AMP test mode

(1) Automatic on/standby ON

☒ The POWER ON state is entered whenever the power is turned on while pressing the BAND key. All functions are then initialized and activated in the all-lighting mode.

☒ Sub-clock oscillation diagnosis function

The oscillation diagnosis (existence of oscillation and measurement of period) of a sub-clock is performed before the test mode is entered. If the diagnosis result is OK, the system enters the test mode.

If the diagnosis result is NG, the oscillation of the sub-clock is diagnosed again. If the result is OK, the system enters the test mode. If the diagnosis result is continuously NG five times, the system stops with ERR 1 and ERR 2 displayed.

(2) All-lighting mode

☒ All the fluorescent display indicators and LED lamps light when the power is turned on while pressing the BAND key.

☒ After that, the all-lighting mode is canceled when any main unit's key is pressed. The normal display obtained when the selector is set to TUNER then appears.

(3) Others

☒ The AMP test mode is not terminated even if the selector is set to positions other than TUNER.

☒ In the AMP test mode, the muting during mode selection is not controlled. However, the operation during the power-on sequence is the same as the normal operation.

☒ The SP protection operation is also the same as the normal operation.

☒ In the AMP test mode using main unit's keys, the keys below provide a special operation according to the position where the selector is set. The main unit's keys except described below and the rotary encoder provide the normal operation.

(4) When selector is set to TUNER

Key	Operation
PURE A key	Increments the P.CALL every time this key is pressed.
N.B. key	Decrement the P.CALL every time this key is pressed.
ENTER key	Selects the display cyclically in the order below every time this key is pressed.

② Write data in the unused area of E2PROM, then read the written data. If the read data is the same as the written data, "RAM OK" is displayed in the fluorescent display indicator. If the former is different from the latter, "RAM NG" is displayed.

A Set the TUNER ATT to OFF and display the S level in hexadecimal when the ENTER key is pressed. ("ATT OFF ***" is displayed in the fluorescent display indicator.)

B Set the TUNER ATT to ON and display the S level in hexadecimal when the ENTER key is pressed. ("ATT ON ***" is displayed in the fluorescent display indicator.)

* The special display using the ENTER key is continued until the next operation is carried out. (**: S LEVEL)

When keys other than ENTER are pressed in items ② to B above, the TUNER ATT is set to OFF and the normal display appears. The operation corresponding to the key that has been pressed is performed in this case.

(5) When selector is set to positions other than TUNER

[ENTER key] Every time this key is pressed, master VOLUME level is selected cyclically.

INITIALIZE level → MAX → MID → MIN

Value of Master VOLUME	Press the ENTER key.	Press the PURE A key, then press the ENTER key.
MAX	86	16.00
MID	40	8.00
MIN	1	0.20
INITIALIZE	7	1.40

CIRCUIT DESCRIPTION

[AUTO key] Selects the MUTE operation and equalizer cyclically in the order below for operation display every time this key is pressed.

-> MUTE operation -> Minimum -> Maximum -> fPre-condition

f In the operation for except the AUTO key, become pre-condition equalizer .

f Pre condition : The equalizer becomes the condition to be pushed the AUTO key before (include N.B. circuit).

(6) SERIAL TEST CODE LIST

Refer to Service manual (B51-5210-00) of R-SA7 on page 7.

[BAND key] Every time this key is pressed, all the displays go off and the normal display is selected cyclically.

4-3. RDS test mode using main unit's keys

4-3-1. Entering the RDS test mode

Ⓔ Turn on the power while pressing the TUNING UP key.

4-3-2. Canceling the RDS test mode

Ⓔ By turning off the power, the system is initialized and the test mode is canceled.

4-3-3. Contents of RDS test mode

Ⓔ The POWER ON state is entered whenever the power is turned on while pressing the TUNING UP key. All the functions are then initialized.

Ⓔ In the RDS test mode using main unit's keys, the keys below provides a special operation according to the position where the selector is set. The main unit's keys except described below and the rotary encoder provide the normal operation.

Key	Operation
CLASS A key	Performs the same operation as for remote control key "DISPLAY" every time this key is pressed.
INPUT SEL. key	Performs the same operation as for remote control key "PTY" every time this key is pressed.
N.B. key	Performs the same operation as for remote control key "TA" every time this key is pressed.
ENTER key	Selects the display cyclically in the order below every time this key is pressed.

Ⓔ Write data in the unused area of EEPROM, then read the written data. If the read data is the same as the written data, "RAM OK" is displayed in the fluorescent display indicator. If the former is different from the latter, "RAM NG" is displayed.

Ⓐ Set the TUNER ATT to OFF and display the S level in hexadecimal when the ENTER key is pressed. ("ATT OFF **" is displayed in the fluorescent display indicator.)

Ⓑ Set the TUNER ATT to ON and display the S level in hexadecimal when the ENTER key is pressed. ("ATT ON **" is displayed in the fluorescent display indicator.)

* The special display using the ENTER key is continued until the next operation is carried out. (**: S LEVEL)

When keys other than ENTER are pressed in items Ⓐ to Ⓑ above, the TUNER ATT is set to OFF and the normal display appears. The operation corresponding to the key that has been pressed is performed in this case.

4-4. SERIAL TEST MODE

(1) Setting the serial test mode

The unit is put into the serial test mode when a serial code "TEST ON" is input during the POWER-ON sequence.

In the 16-bit serial test mode, serial code C27FH is input.

Ⓔ In the serial test mode, all remote control keys and ordinary serial codes are disabled. Only the panel keys perform the same operation as usually.

(2) Canceling the serial test mode

Ⓔ The serial test mode is canceled to return to the ordinary mode by inputting a "TEST OFF" code (C27 EH). After the ordinary mode was returned, the serial mode is returned to the state before the test mode is entered.

The backup operation is not initialized.

Ⓔ The serial test mode is also canceled when the AC power is turned OFF.

(3) Cautions

Ⓔ The serial test code is prescribed as a 16-bit code only.

Ⓔ The operations below are inhibited in the serial test mode. The operations mentioned above cannot be guaranteed when they are performed in the serial test mode.

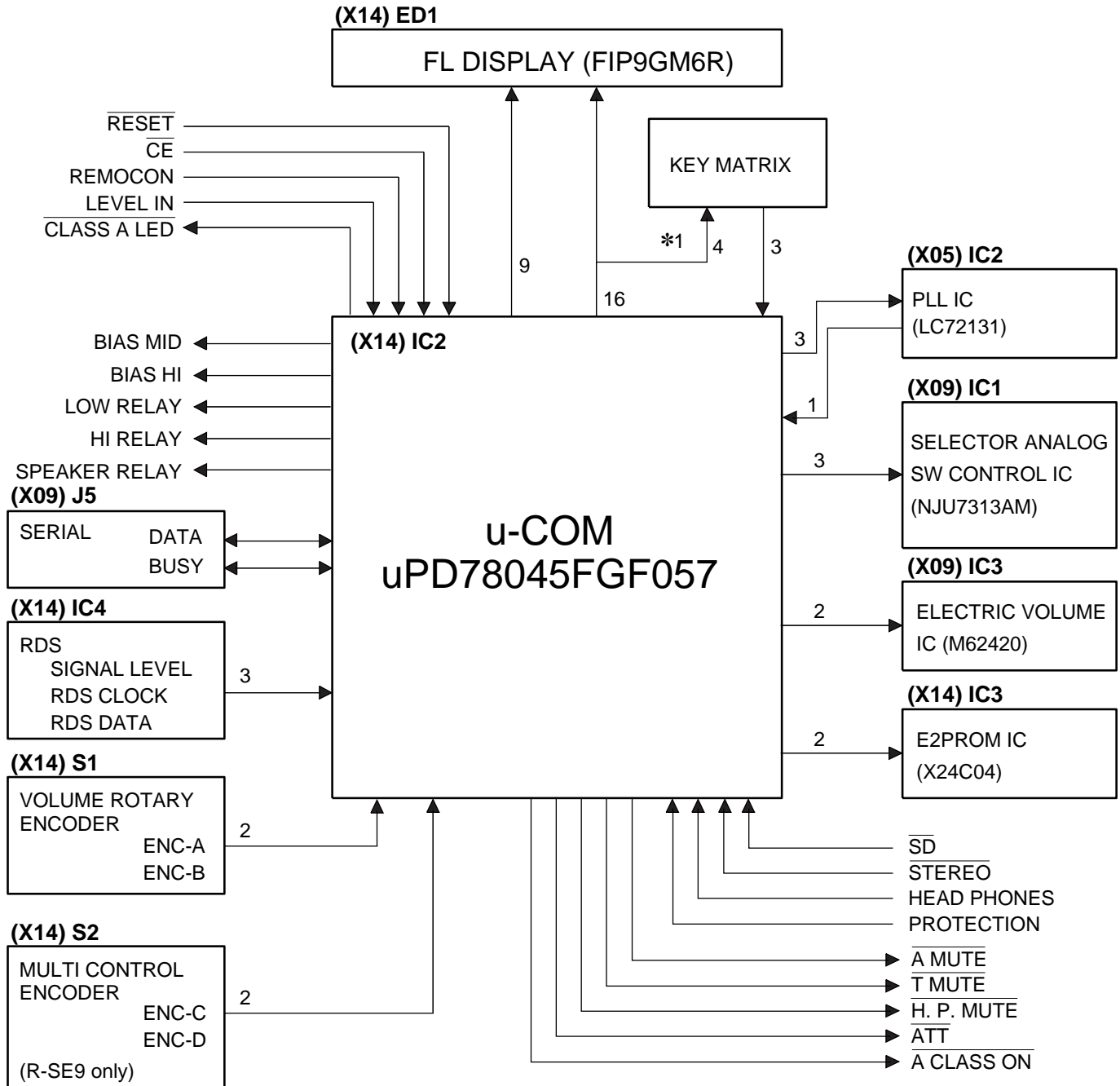
Ⓔ An identical code is output when the serial test mode code is input.

R-SE7/SE-7(G)

CIRCUIT DESCRIPTION

5. Microprocessor : uPD78045FGF057 (X14 : IC1)

5-1 Microprocessor periphery block diagram



Key matrix

No. of ○ : u-COM port No.

	⑥① KR0	⑤⑨ KR1	⑤⑧ KR2
⑥④ KS0	DSW0	DSW1 (D158)	DSW2 (D159)
⑥③ KS1	POWER	AUTO / MONO	BAND
⑥② KS2	N. B. CIRCUIT	(R-SE7) INPUT SEL. (R-SE9) MODE	(R-SE7) TUNING UP (R-SE9) No. use
⑥① KS3	pure A	ENTER	(R-SE7) TUNING DOWN (R-SE9) No use

R-SE7/SE-7(G)

CIRCUIT DESCRIPTION

5-2 Pin description

Pin No.	Name	I/O	Description	Active	
1~7	7G~1G	O	FL grid 7~1	—	
8	VDD	—	Micro processor power supply (+5V)	—	
9	E2PROM SCL	O	E2PROM control clock	—	
10	E2PROM SDA	I/O	E2PROM control data	—	
11	ENC C	—	Multi control encoder input A	—	
12	ENC D	—	Multi control encoder input B	—	
13	A CLASS ON	O	Power ON/OFF control signal	H : OFF	L : ON
14	SEL STB	O	Selector IC strobe	—	
15	SEL/PLL CLK	O	SEL/PLL IC control clock	—	
16	SEL/PLL DATA	O	SEL/PLL IC control data	—	
17	RESET	I	Microprocessor reset	L : RESET ON	
18	CE	I	AC OFF(MAIN POWER) detection Signal	L : AC OFF	
19	PLL DO	O	IF count data	—	
20	AVSS	—	A/D power SUPPLY (GND)	—	
21	PLL CE	O	PLL chip enable control	L : CE	
22	T MUTE	O	Tuner mute signal	L : MUTE ON	
23	STEREO	I	Stereo signal detection	L : STEREO ON	
24	SD	I	Synchronized signal detection	—	
25	VOL SCL	O	Electric volume IC control clock	—	
26	VOL SDA	O	Electric volume IC control data	—	
27	LEVEL IN	I	Volume level input	—	
★28	S.LEVEL(RDS)	I	Signal level	—	
29	A VDD	—	A/D power supply (+5V)	—	
30	A VREF	—	A/D reference voltage(+5V)	—	
31, 32	OSC	—	32kHz oscillator	—	
33	Vss	—	Microprocessor power supply (GND)	—	
34, 35	OSC	—	4.19MHz oscillator	—	
36	S.DATA	I/O	16bit system data	—	
37	S.BUSY	I/O	16 bit system busy	H : BUSY	L : READY
38	H.P. MUTE	O	Head phones mute signal	L : ON	
39	ATT	O	CLASS A control signal	H : A CLASS	L : AB CLASS
40	A MUTE	O	Audio mute signal	L : ON	
41	HIGH RELAY	O	AMP high relay control	H : ON	L : OFF
42	LOW RELAY	O	AMP low relay control	H : ON	L : OFF
43	SP RELAY	O	Speaker relay control	H : ON	L : OFF
★44	CLK(RDS)	I	RDS clock	—	
★45	DATA(RDS)	I	RDS data	—	
46	PROTECTION	I	Protection detection	H : ON	L : OFF
47	REMOCON	I	Remote control input	—	
48	IC	—	—	—	
49	CLASS A LED	O	CLASS A LED	H : OFF	L : ON
50	BIAS MID	O	Bias control signal MID	—	
51	BIAS HI	O	Bias control signal HI	—	
52	VDD	—	Microprocessor power supply (+5V)	—	
53	ENCA	I	Volume encoder in put A	—	
54	ENC B	I	Volume encoder input B	—	
55	HEAD PHONE	I	Head phones signal detection	H : ON	L : OFF
56, 57	NC	O	—	—	
58~60	KR2~KR0	I	KEY return 2~0	H : KEY ON	
61~64	SEG16~13/KS3~0	O	FL Segment 6~13 /key scan 3~0	H : ON	
65~70	P12 SEG12~SEG7	O	FL Segment 12~7	H : ON	
71	V load	—	FL drive power supply (-30V)	—	
72~77	P6 SEG6~SEG1	O	FL Segment 6~1	H : ON	
78	NC	O	—	—	
79, 80	9G, 8G	O	FL grid 9, 8	—	

★ E/T type only, other types unused.

The RDS PTY AF search always corresponds to a span search of 100kHz. Therefore, a span search of 50 KHz cannot be performed.

R-SE7/SE-7(G)

ADJUSTMENT

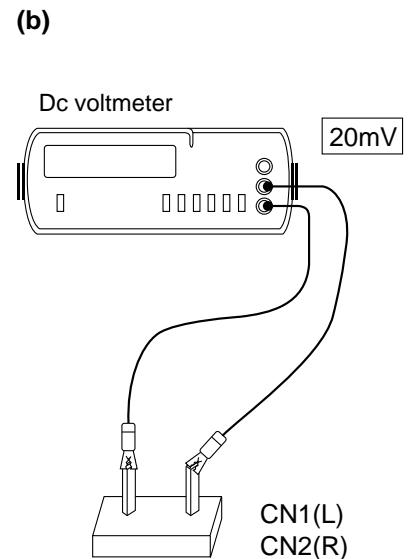
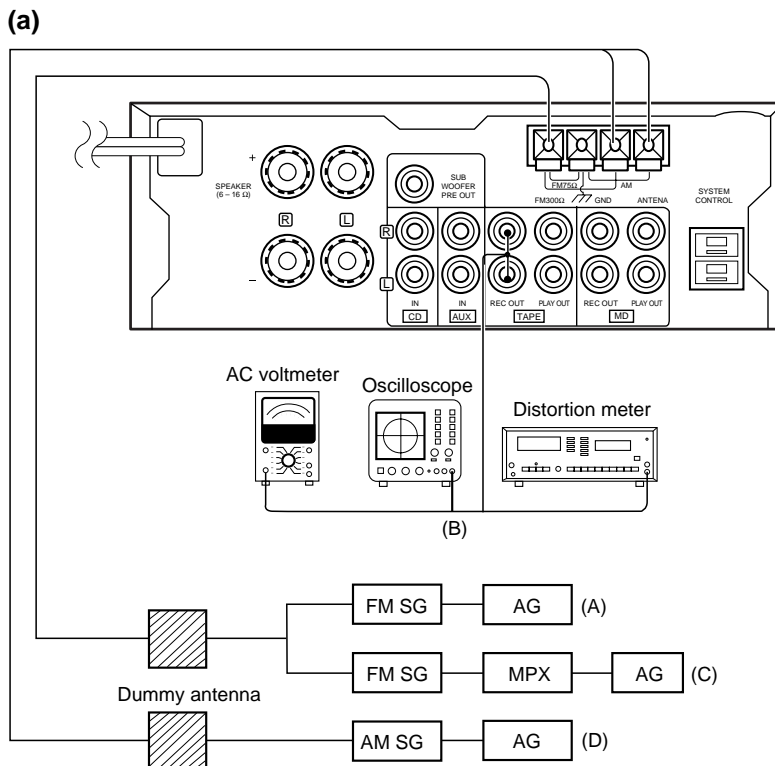
FM SECTION SELECTION : FM X05-4622-71 (E/T TYPE)

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISCRIMINATOR	(A) 98.0kHz 1kHz, ± 75 kHz dev. 60dB μ (ANT input)	Connect a DC voltmeter between Pin 1 and Pin 2 of CN 2.	MONO 98.0MHz	L 31	0V	(a)
					L 32	Minimum distortion.	
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ± 68.25 kHz dev. Pilot: ± 6.75 kHz dev. 60dB μ (ANT input)	(B)	AUTO 98.0MHz	IFT (A1)	Minimum distortion.	(a)

AUDIO SECTION (X09-469x-xx)

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMP SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
POWER: ON SELECTOR : AUX							
1	B CLASS IDLE CURRENT	—	Connect a DC voltmeter across CN1(L) CN2(R) (X09, A/7)	PURE A : OFF Volume : 0	VR1(L) VR2(R) (X09, A/7)	20mV	(b)

SYSTEM CONNECTIONS



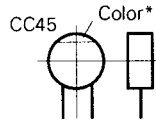
R-SE7/SE-7(G)

PARTS DESCRIPTIONS

CAPACITORS

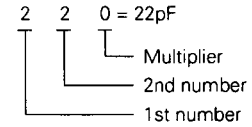
CC 45 TH 1H 220 J
 1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, ect.
- 3 = Temp. coefficient
- 4 = Voltage rating
- 5 = Value
- 6 = Tolerance



Capacitor value

- 010 = 1pF
- 100 = 10pF
- 101 = 100pF
- 102 = 1000pF = 0.001μF
- 103 = 0.01μF



Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

2nd word \ 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
 1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
 1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Voltage rating
- 6 = Value
- 7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
 1 2 3 4 5 6 7

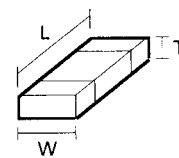
(Chip) (B, F)

Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
 1 2 3 4 5 6 7

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Rating wattage
- 6 = Value
- 7 = Tolerance

Dimension



Dimension (Chip resistor)

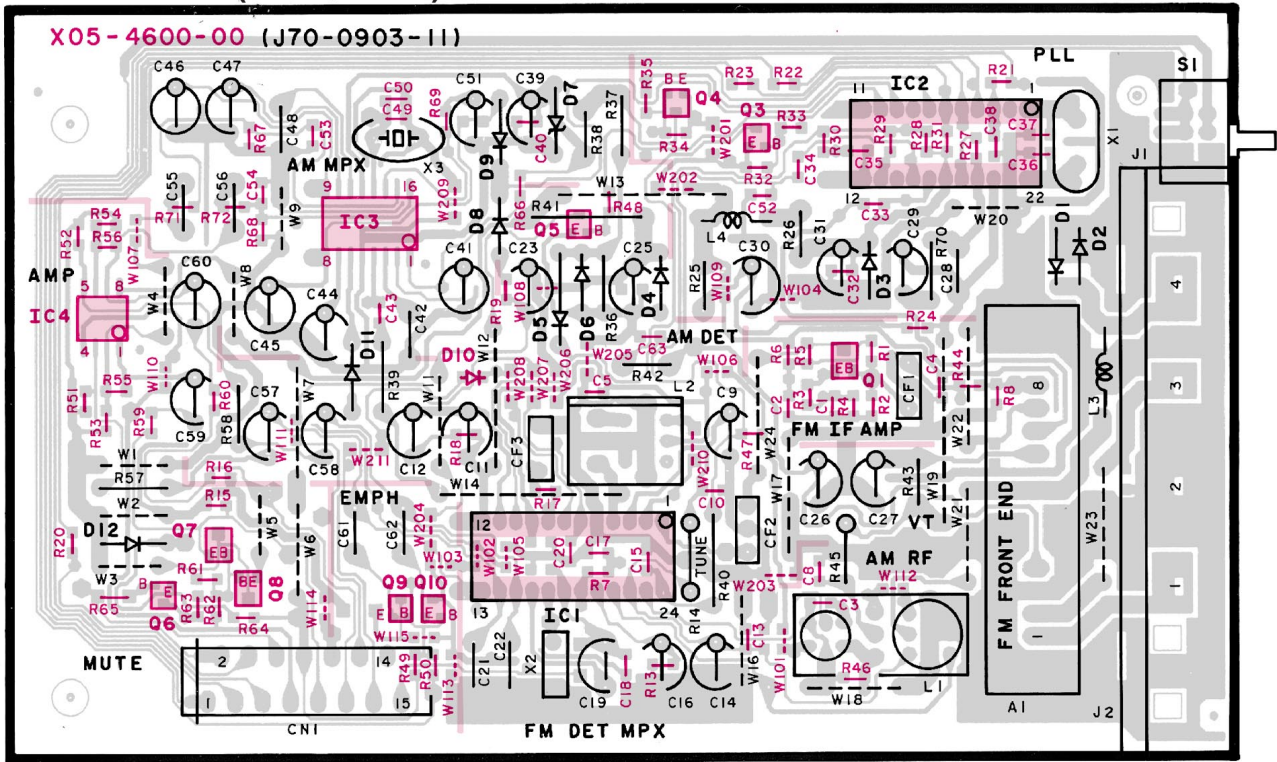
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

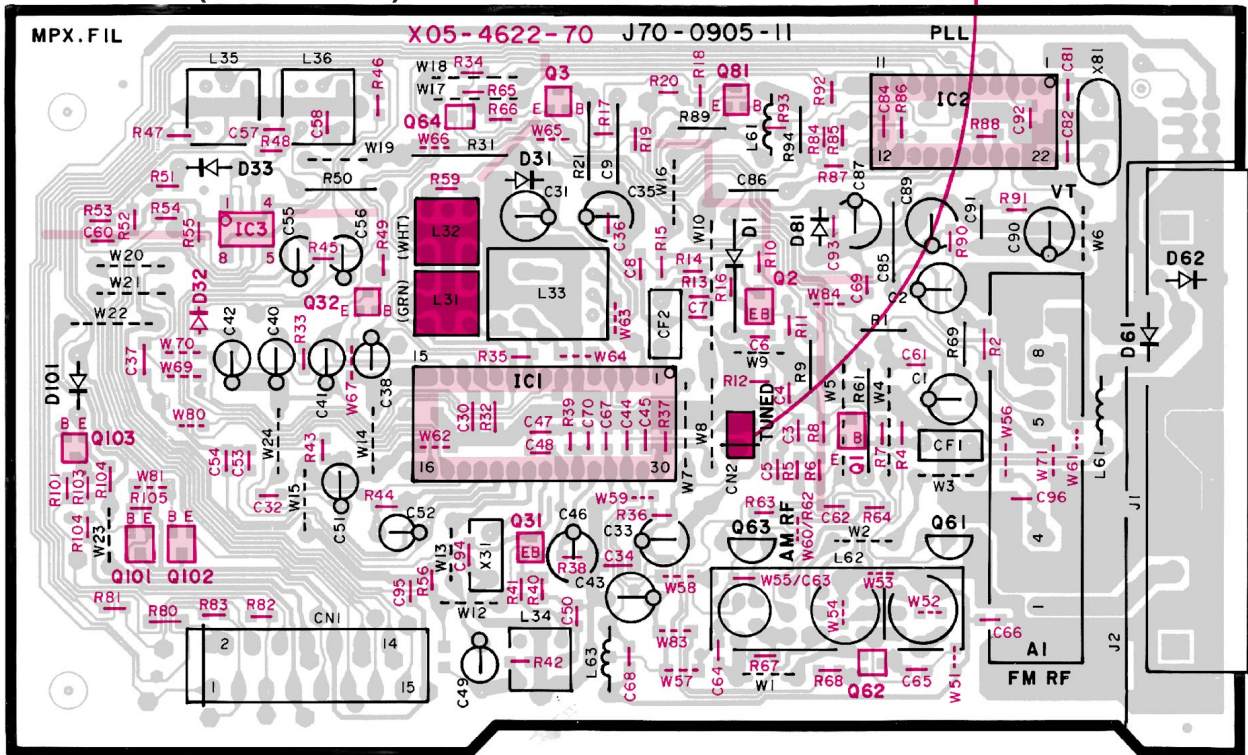
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD(Component side view)

TUNER UNIT (X05-4600-12) : K
(X05-4600-72) : M



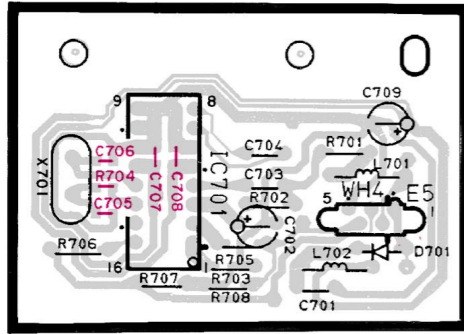
TUNER UNIT (X05-4622-71) : ET



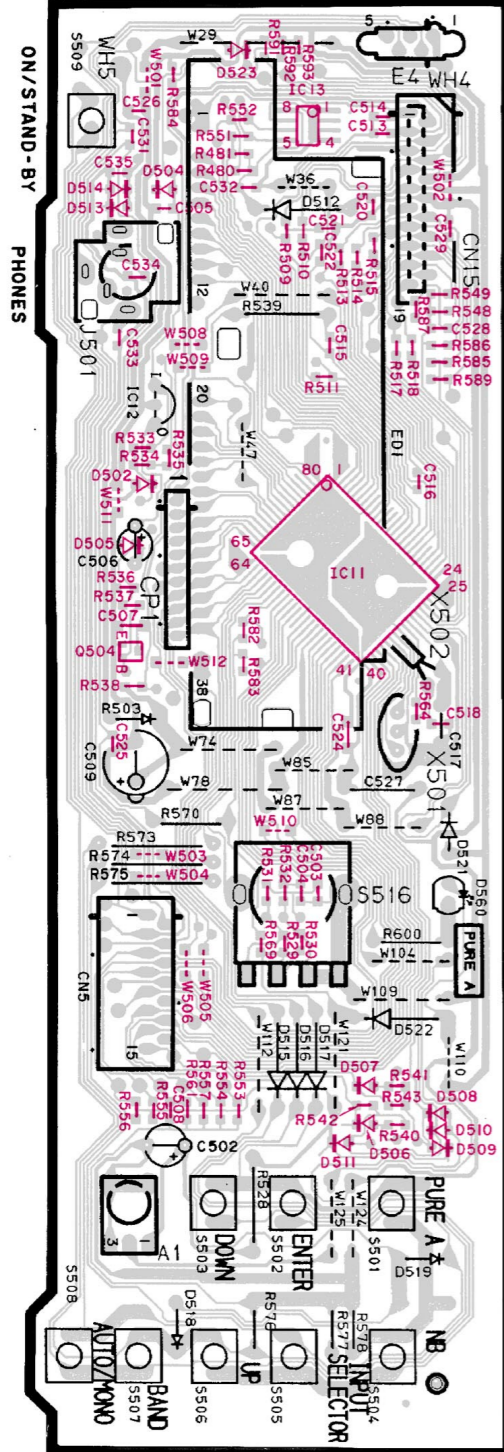
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

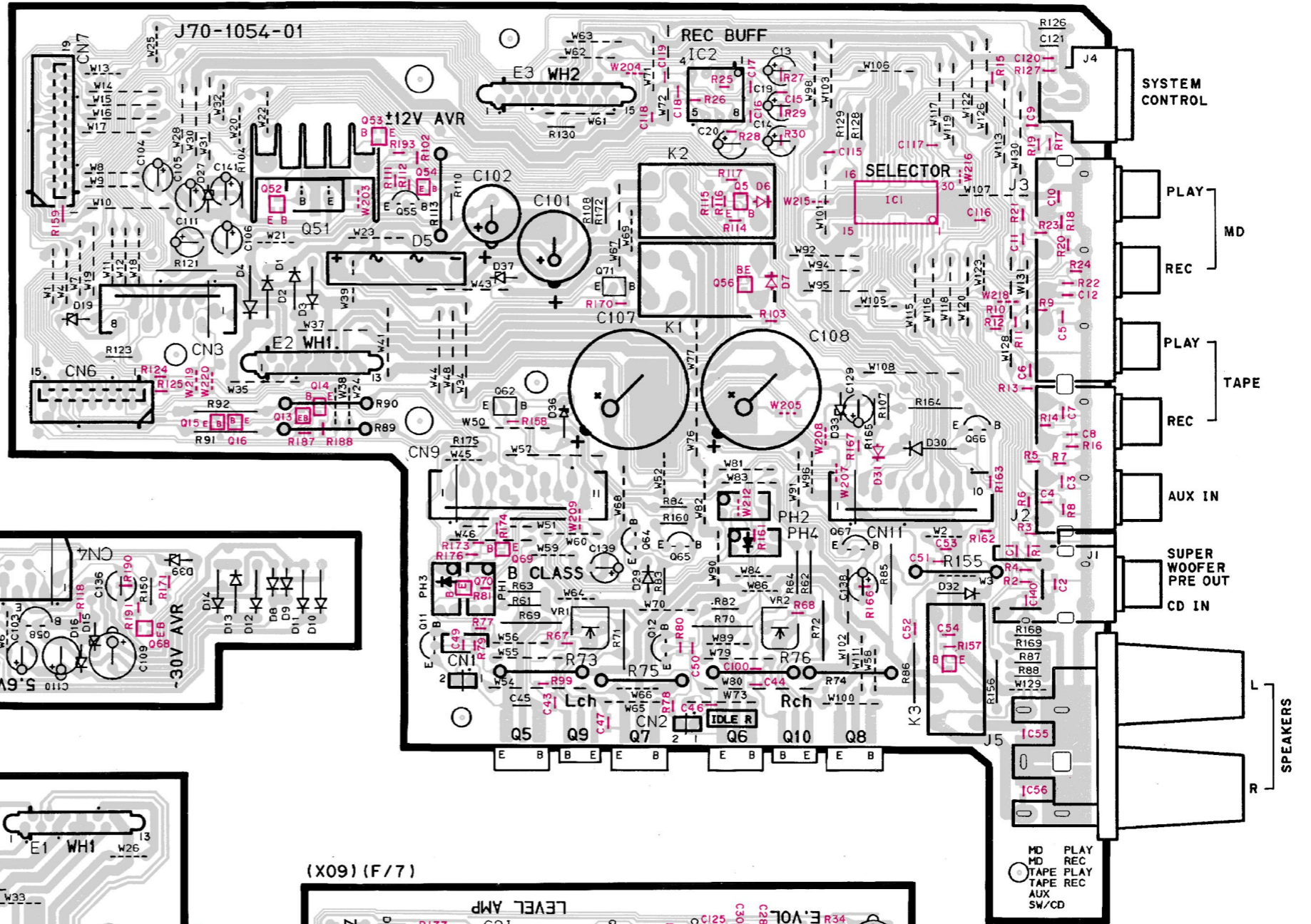
(X09) (E/7)



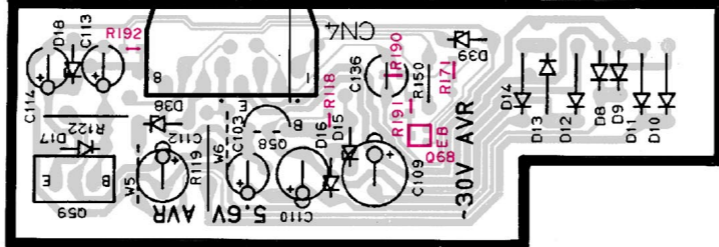
(X09) (D/7)



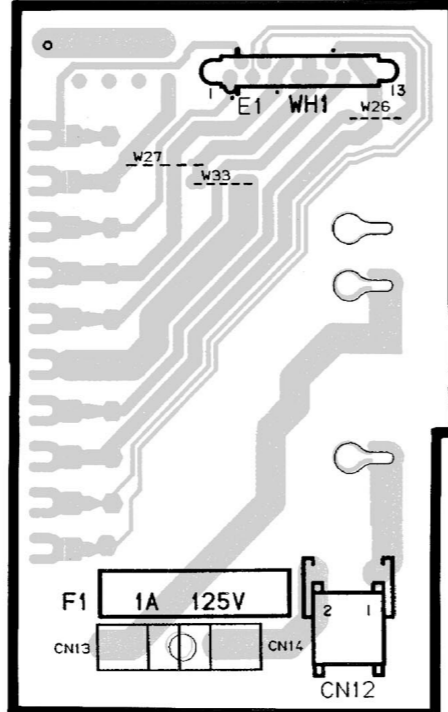
AUDIO UNIT (X09-4690-11) : K
(X09-4690-21) : M
(X09-4692-71) : ET



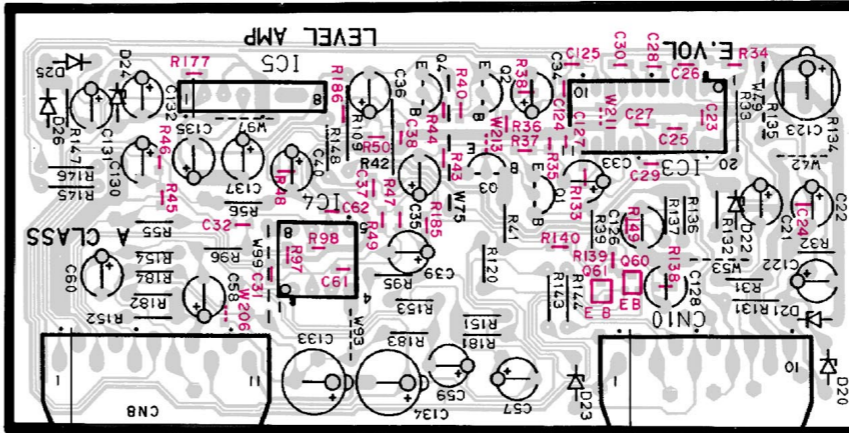
(X09) (C/7)



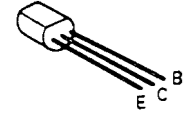
(X09) (B/7)



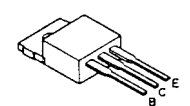
(X09) (F/7)



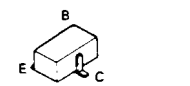
2SA1534A
2SA954
2SA992
2SB764
2SC1845
2SC2003



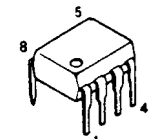
2SB1659
2SD2589



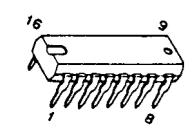
UN5219
2SA1586
2SC2714
2SC4116



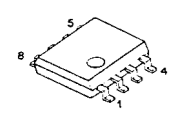
NJM4565D-D



SAA6579



NJM4565M



2SC4137

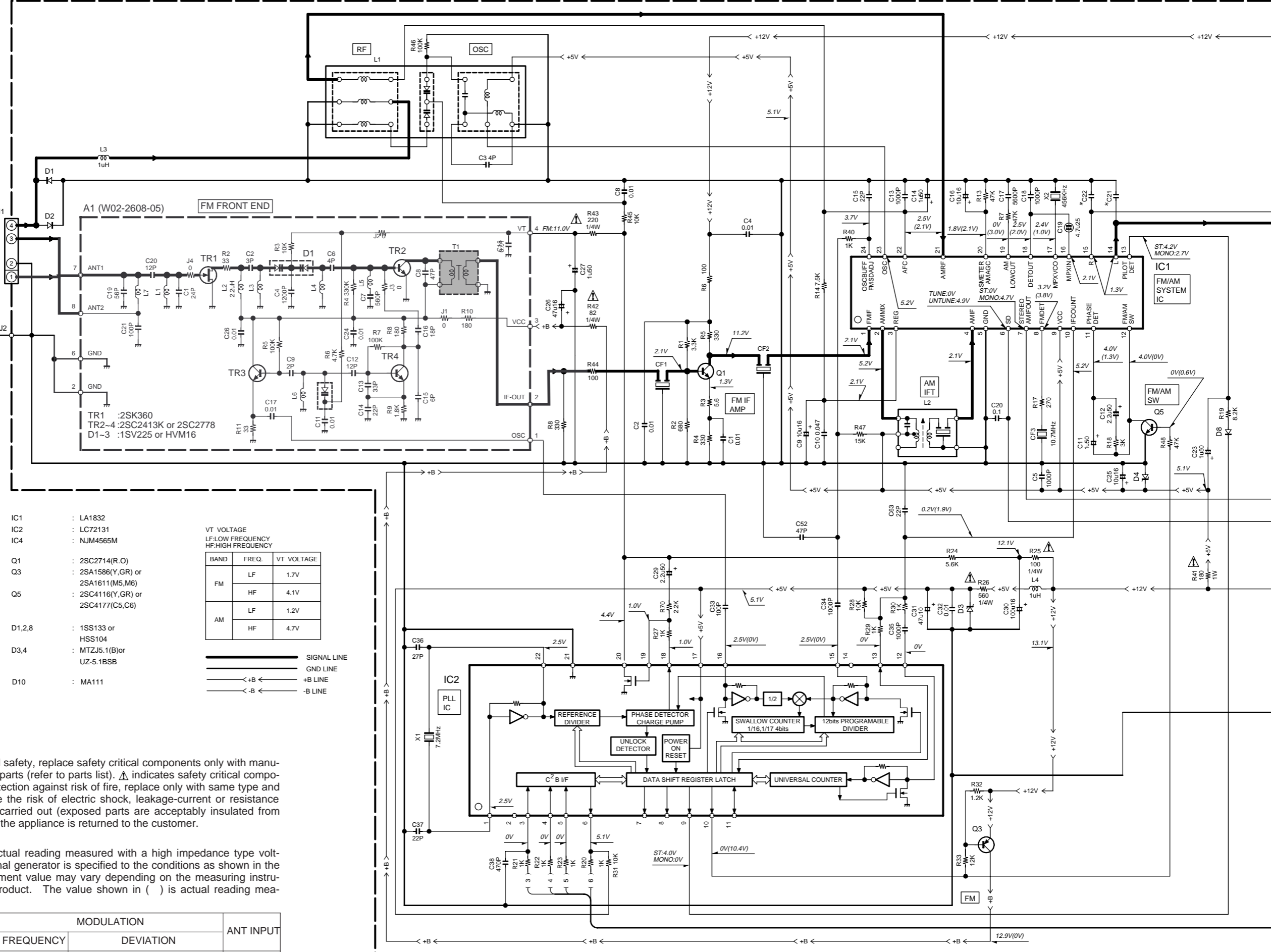
2SD1757K

M62420SP

M5219P

M5223FP

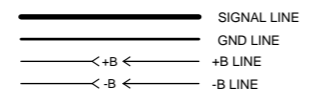
TUNER UNIT (X05-4600-xx)



- IC1 : LA1832
- IC2 : LC72131
- IC4 : NJM4565M
- Q1 : 2SC2714(R,O)
- Q3 : 2SA1586(Y,GR) or 2SA1611(M5,M6)
- Q5 : 2SC4116(Y,GR) or 2SC4177(C5,C6)
- D1,2,8 : 1SS133 or HSS104
- D3,4 : MTZJ5.1(B) or UZ-5.1BSB
- D10 : MA111

VT VOLTAGE
LF-LOW FREQUENCY
HF-HIGH FREQUENCY

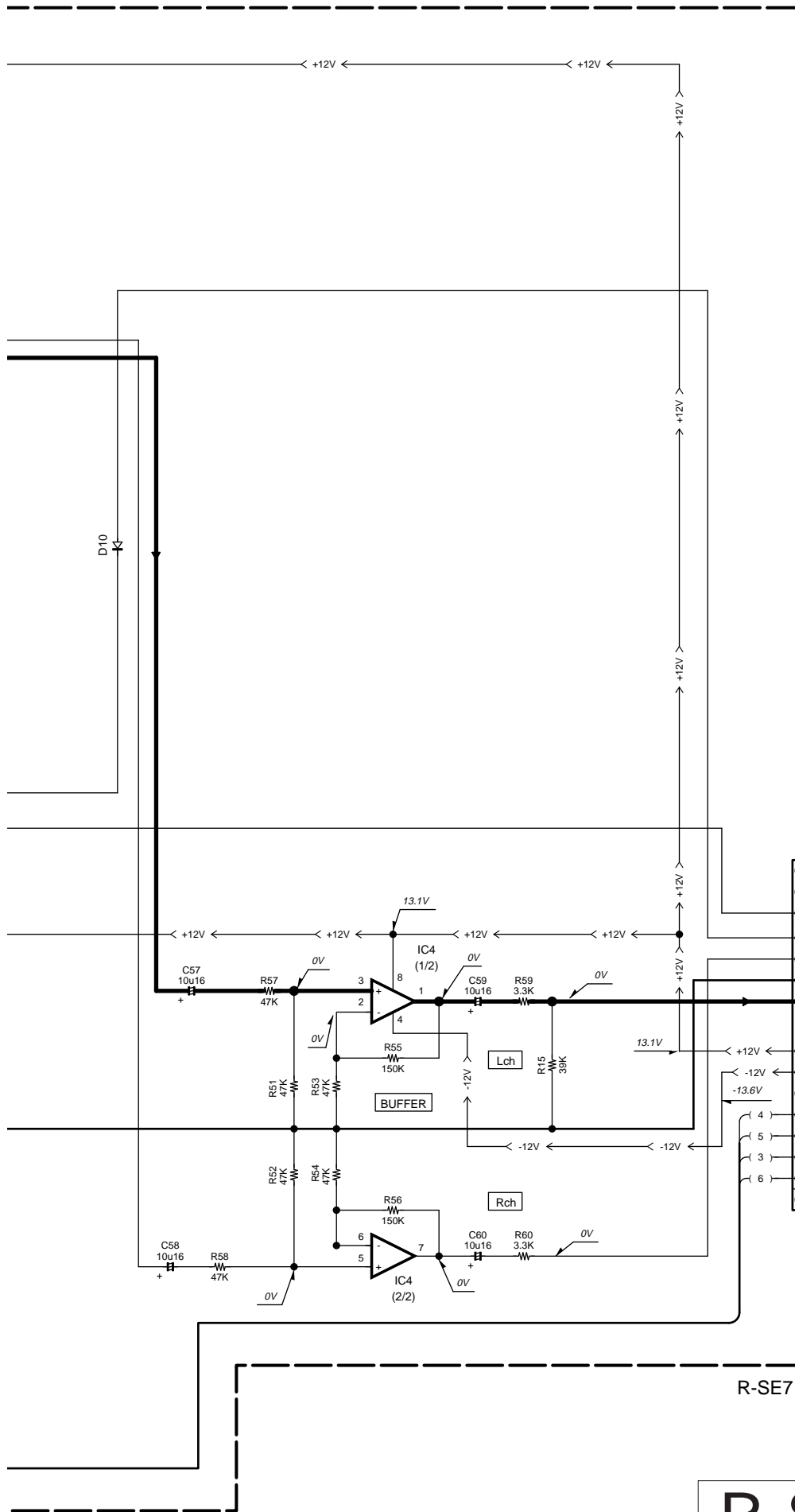
BAND	FREQ.	VT VOLTAGE
FM	LF	1.7V
	HF	4.1V
AM	LF	1.2V
	HF	4.7V



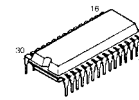
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock,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

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

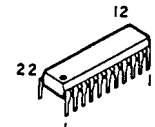
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB



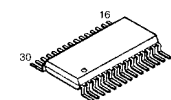
LA1836



LC72131



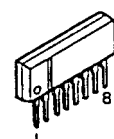
NJU7313AM



X05-460X-XX

DISTINATION		UNIT	C21, 22
CONTRY	ABB	NO	
GENERAL MARKET	M	0-72	0.011μ
USA	K	0-12	0.016μ

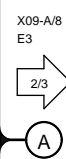
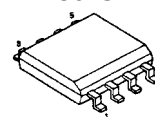
NJM4565L-D



LA1832



X24C04S

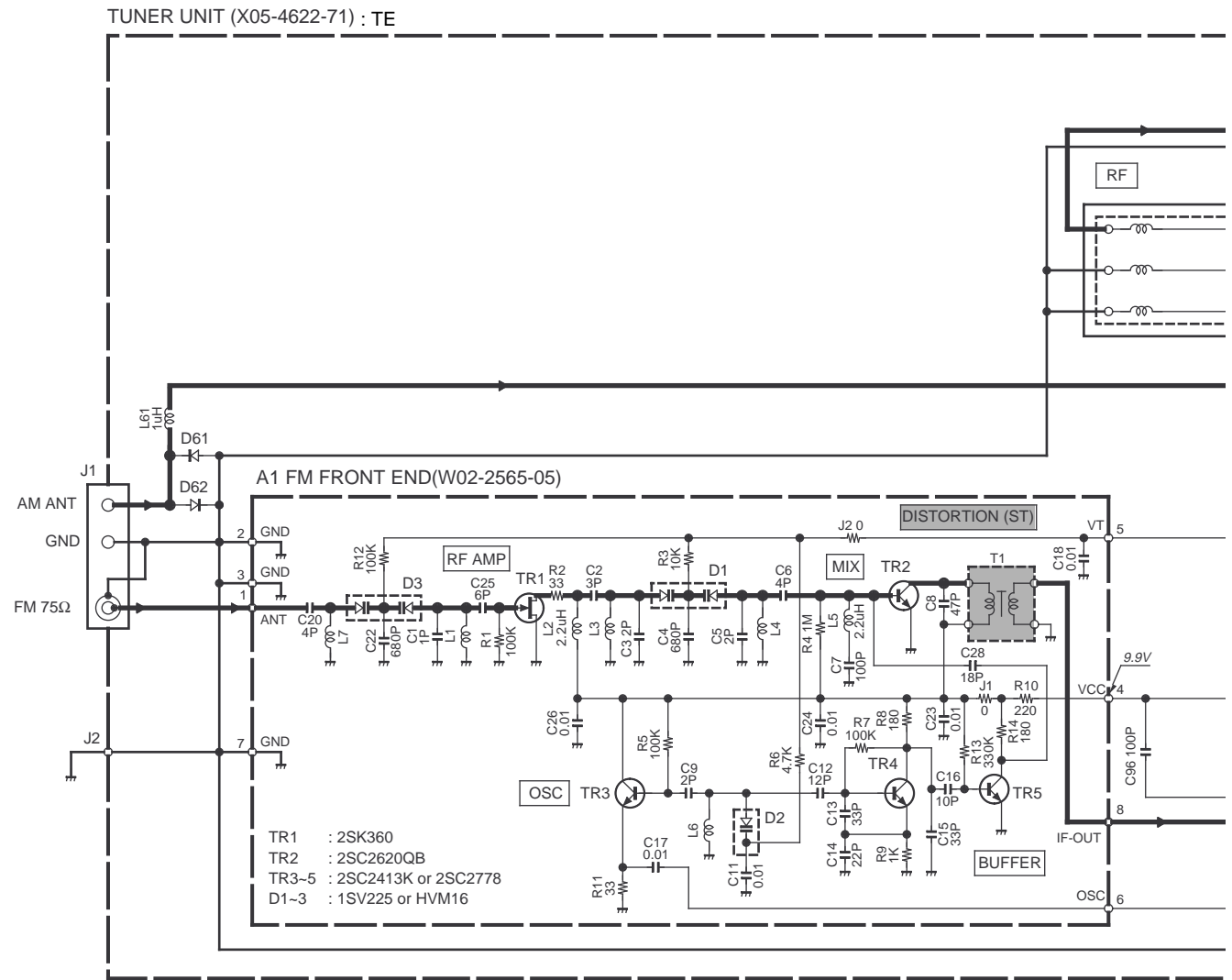


R-SE7

R-SE7/SE-7(G)

Y05-3480-11

KENWOOD



VT VOLTAGE
 LF: LOW FREQUENCY
 HF: HIGH FREQUENCY

BAND	FREQ.	VOLTAGE(VT)
FM	LF	2.1V
	HF	7.5V
AM	LF	1.1V
	HF	4.6V

IC1 : LA1836
 IC2 : LC72131
 IC3 : M5223FP

Q1,2 : 2SC2714(R,O)
 Q3,81,103 : 2SA1586(Y,GR) or 2SA1611(M5,M6)
 Q31,32 : 2SC4116(Y,GR) or 2SC4177(L5,L6)
 Q101,102 : 2SD1757K

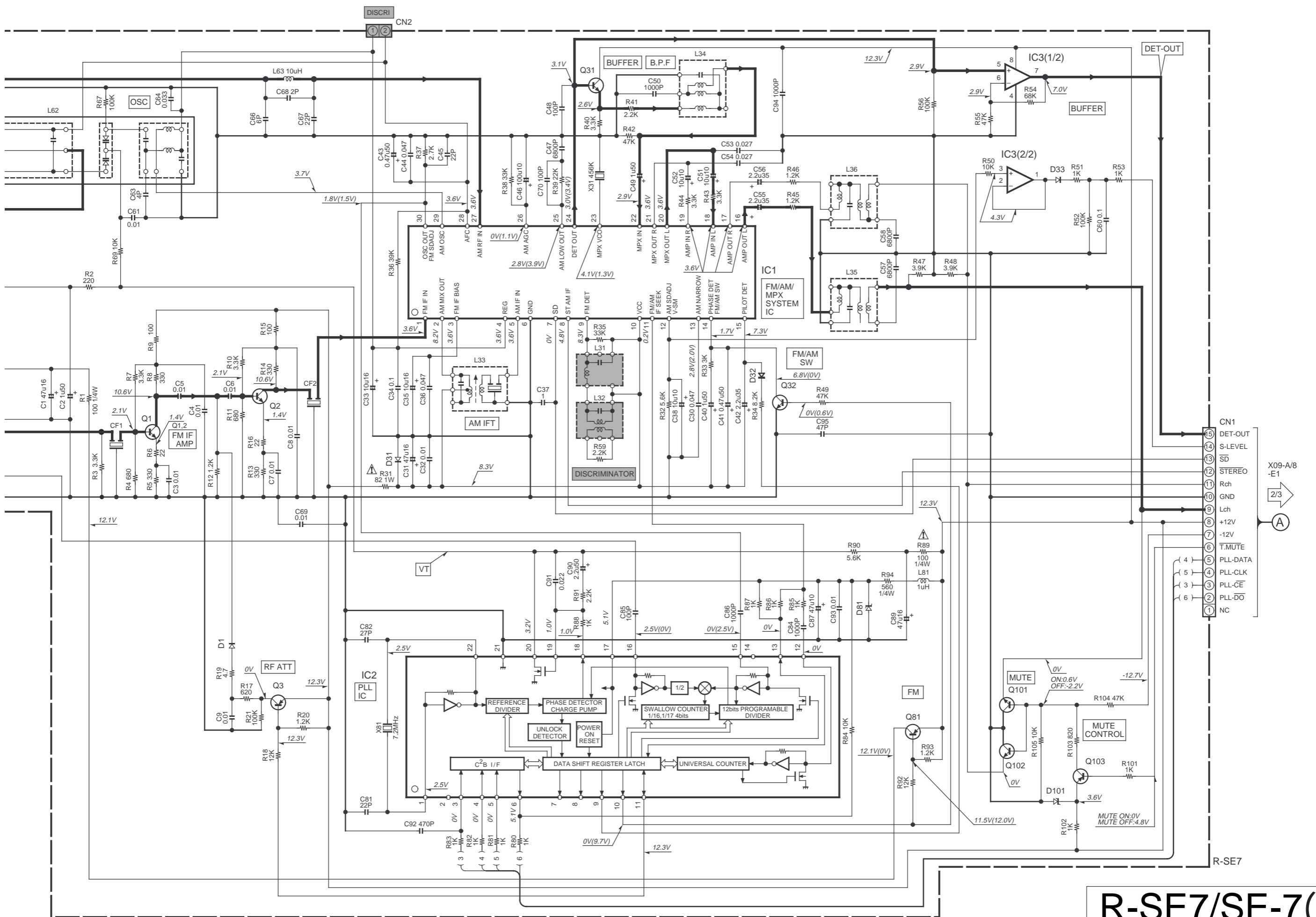
D1,33,61,62 : 1SS133 or HSS104
 D31 : MTZJ8.2(B) or UZ-8.2BSB
 D32 : MA111
 D81 : MTZJ5.1(B) or UZ-5.1BSB
 D101 : MTZJ3.3(B) or UZ-3.3BSB

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



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

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



CN1

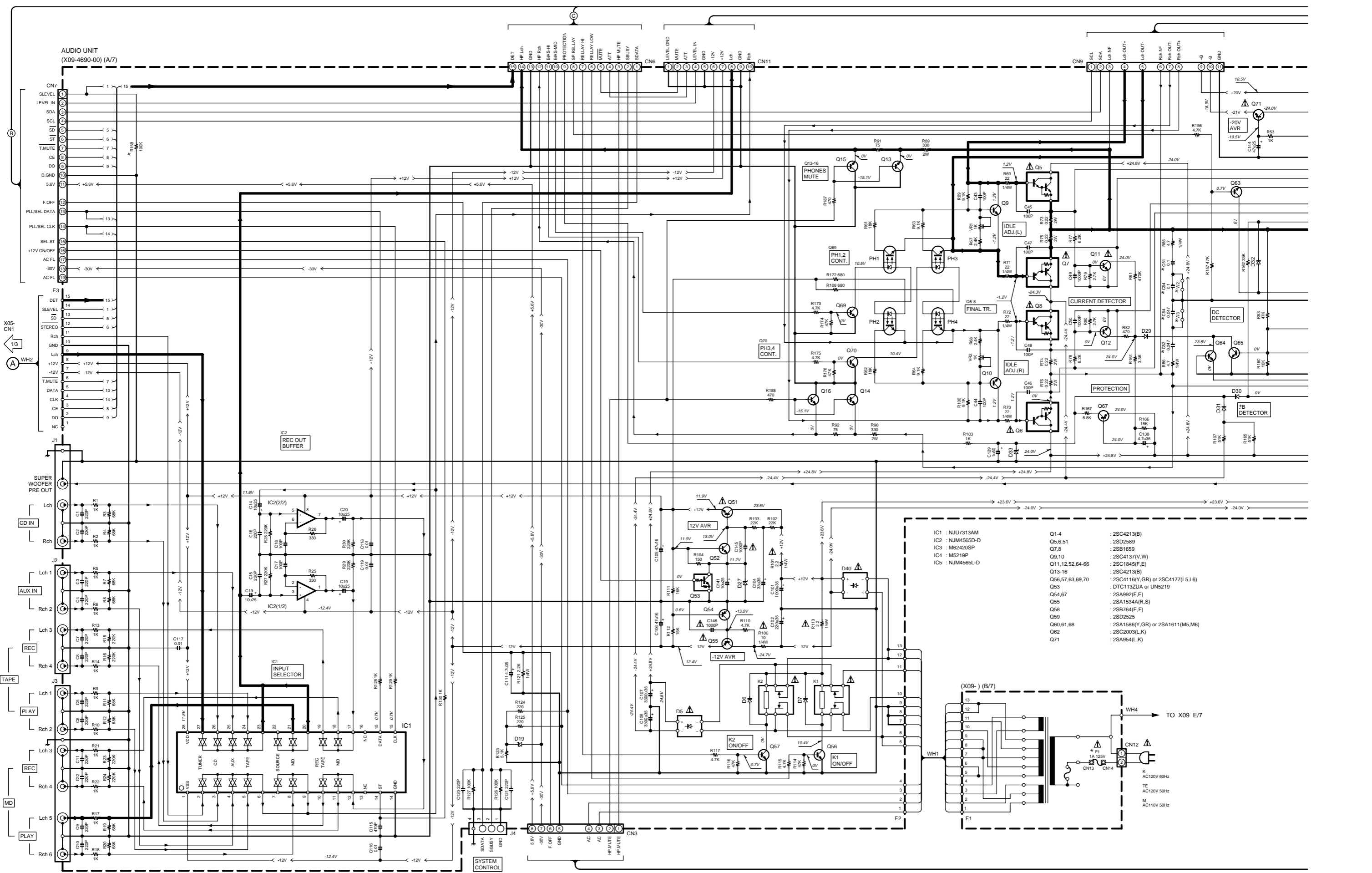
15	DET-OUT
14	S-LEVEL
13	SD
12	STEREO
11	Rch
10	GND
9	Lch
8	+12V
7	-12V
6	T.MUTE
5	PLL-DATA
4	PLL-CLK
3	PLL-CE
2	PLL-DO
1	NC

X09-A/8
-E1
2/3
A

R-SE7/SE-7(G)

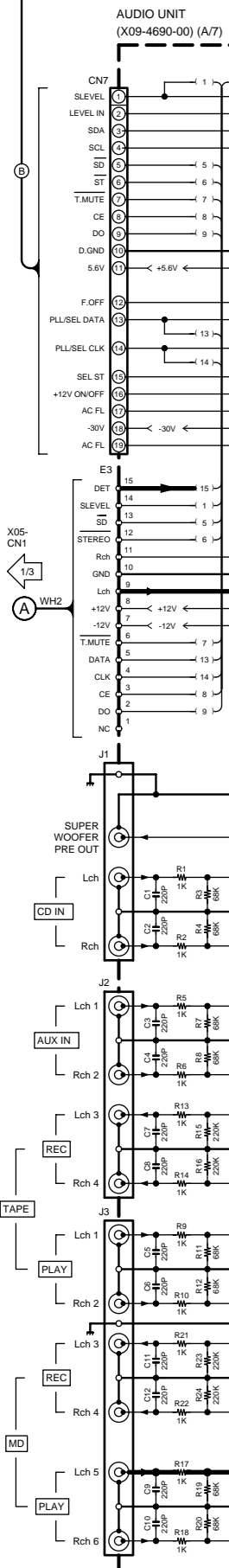
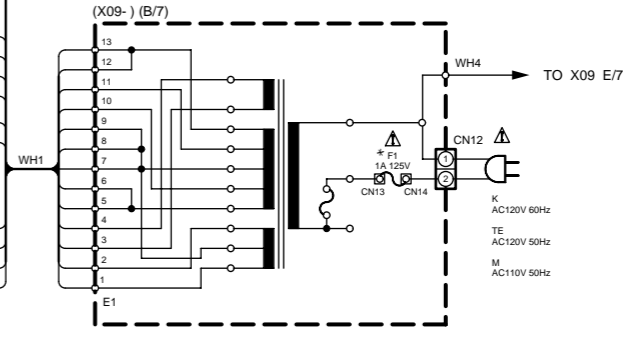
Y05-3480-11

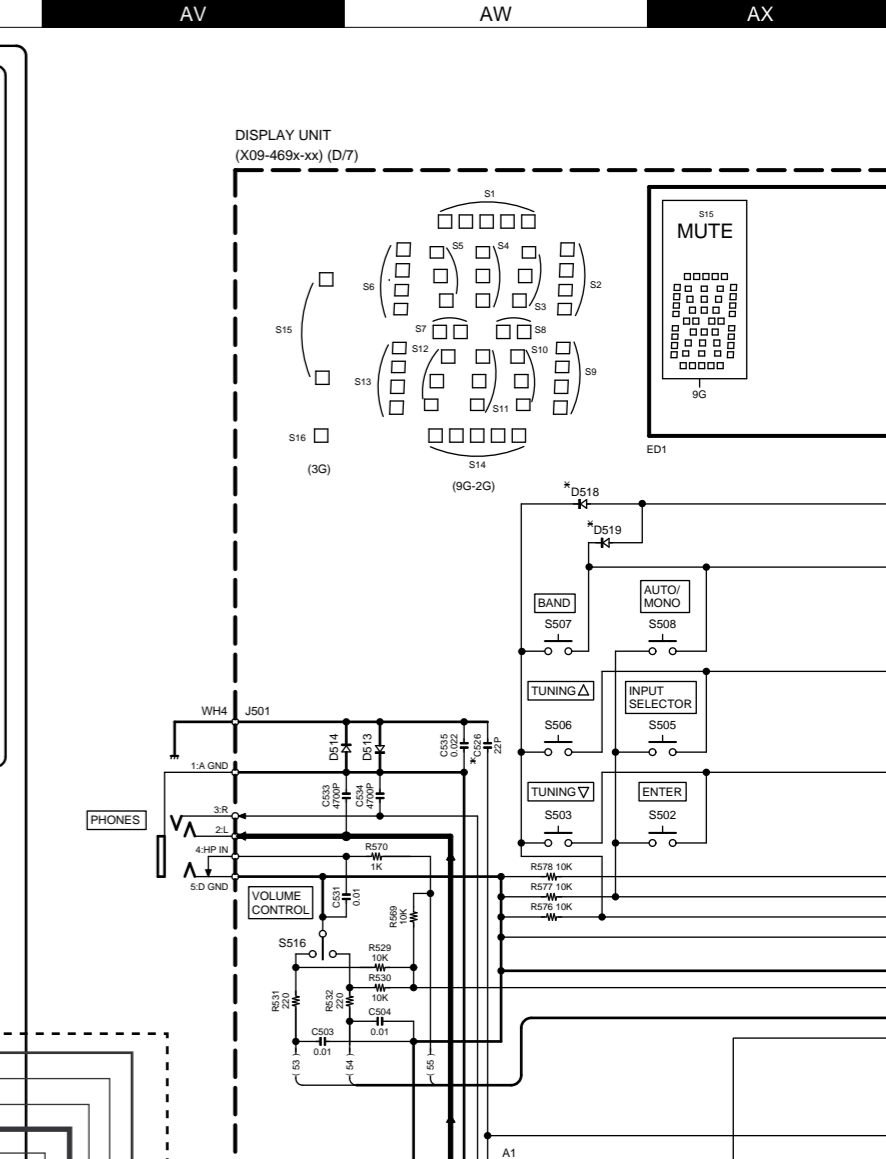
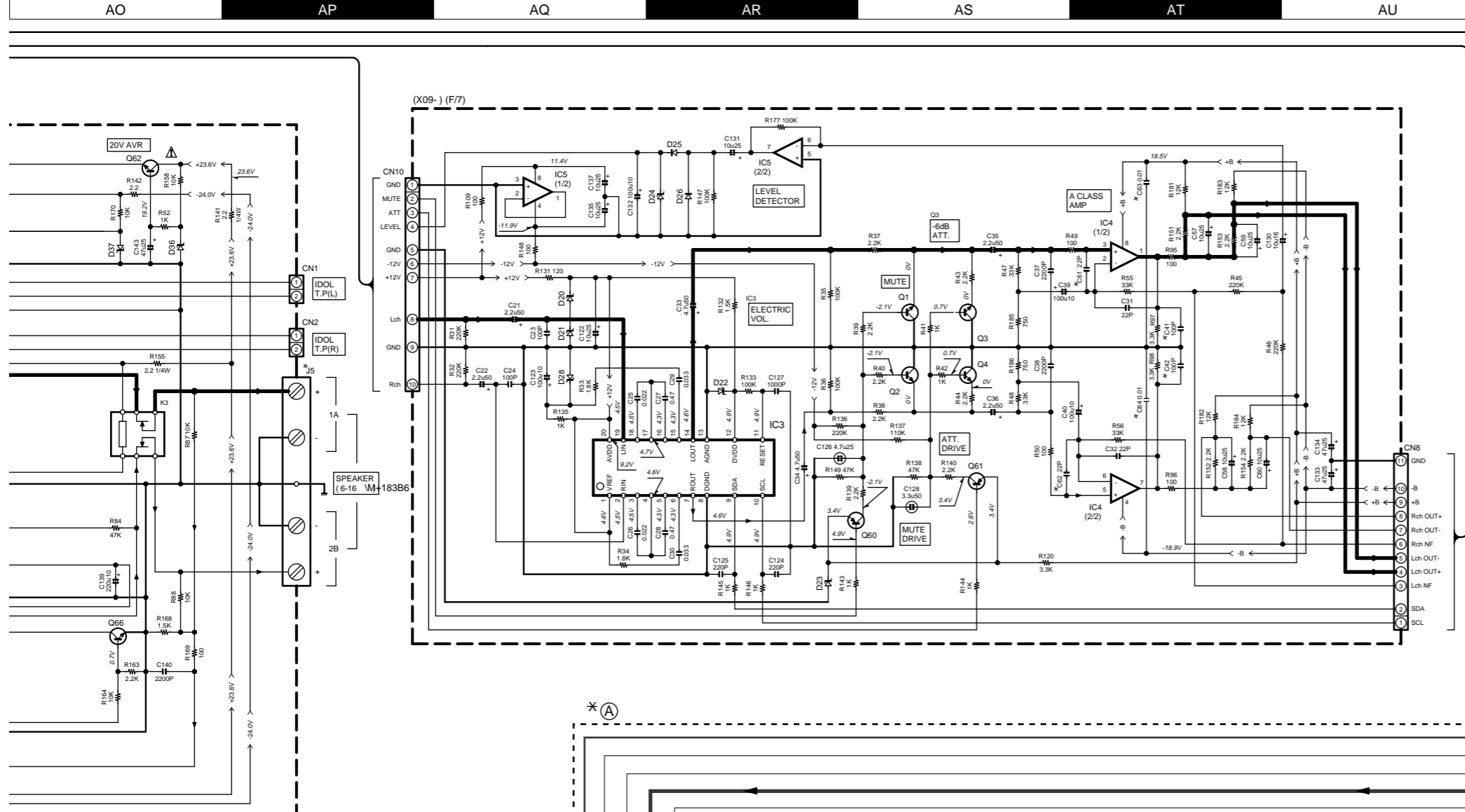
KENWOOD



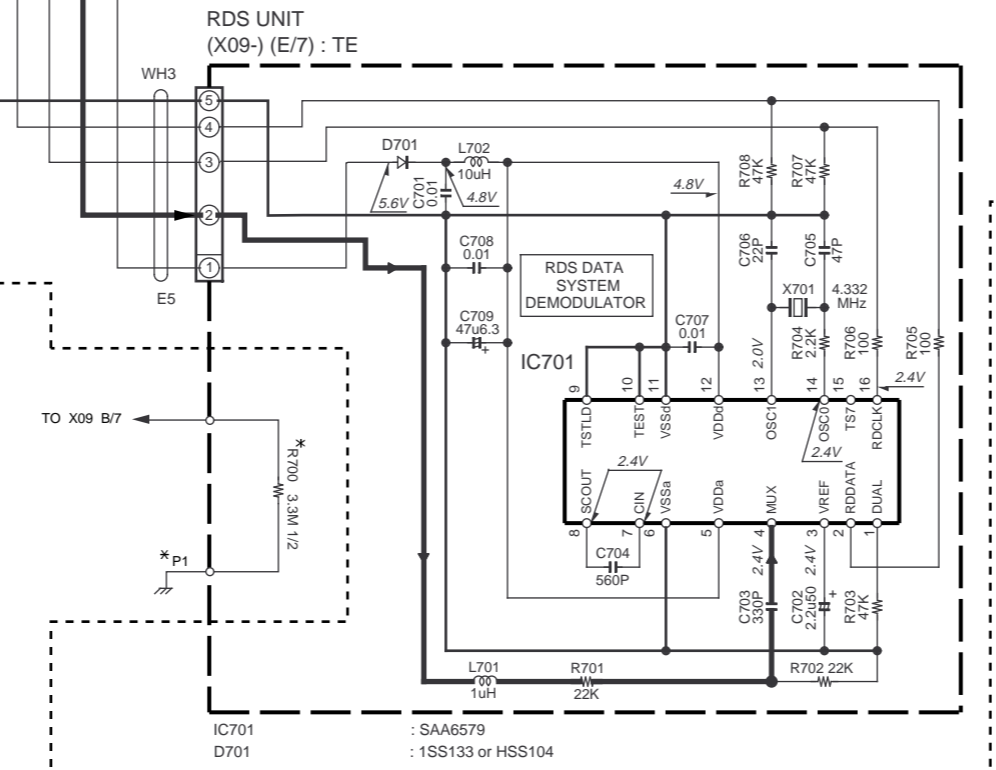
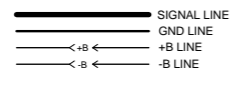
- IC1 : NJU7313AM
- IC2 : NJM4565D-D
- IC3 : M62420SP
- IC4 : M5219P
- IC5 : NJM4565L-D

- Q1-4 : 2SC4213(B)
- Q5,6,51 : 2SD2589
- Q7,8 : 2SB1659
- Q9,10 : 2SC4137(V,W)
- Q11,12,52,64-66 : 2SC1845(F,E)
- Q13-16 : 2SC4213(B)
- Q56,57,63,69,70 : 2SC4116(Y,GR) or 2SC4177(L5,L6)
- Q53 : DTC113ZUA or UN5219
- Q54,67 : 2SA992(F,E)
- Q55 : 2SA1534A(R,S)
- Q58 : 2SB764(E,F)
- Q59 : 2SD2525
- Q60,61,68 : 2SA1586(Y,GR) or 2SA1611(M5,M6)
- Q62 : 2SC2003(L,K)
- Q71 : 2SA954(L,K)

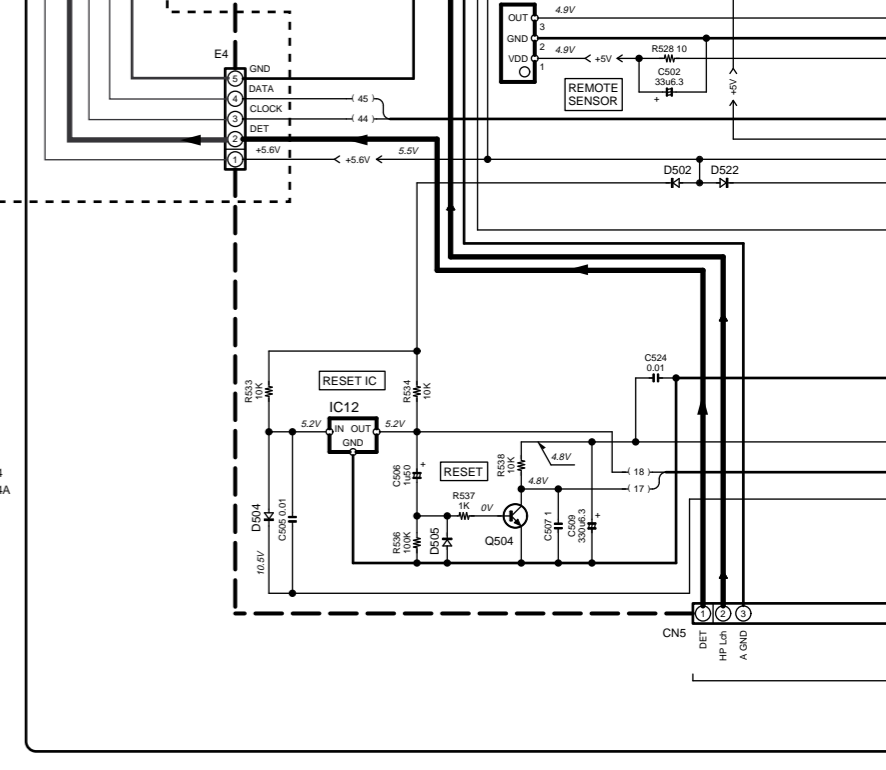
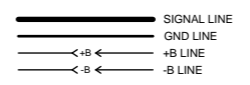




- D10-14 : S5688B or 1SR139-400
- D5 : D3SBA20F03 or RBV-402LFA
- D6,7,31 : MA111
- D8,9 : 1SS131 or HSS104A
- D15,16 : MTZJ16(B) or UZ-16BSB
- D17,19 : MTZJ6.2(B) or UZ-6.2BSB
- D18 : MTZJ6.8(B) or UZ-6.8BSB
- D20,21,24,28,33 : MTZJ4.7(B) or UZ-4.7BSB
- D22 : MTZJ5.1(B) or UZ-5.1BSB
- D23,39 : MTZJ3.9(B) or UZ-3.9BSB
- D25,26,29,30,32 : 1SS133 or HSS104
- D27 : MTZJ11(B) or UZ-11BSB
- D36,37 : MTZJ20 or UZ-20BS
- D40 : KBP02ML-6127



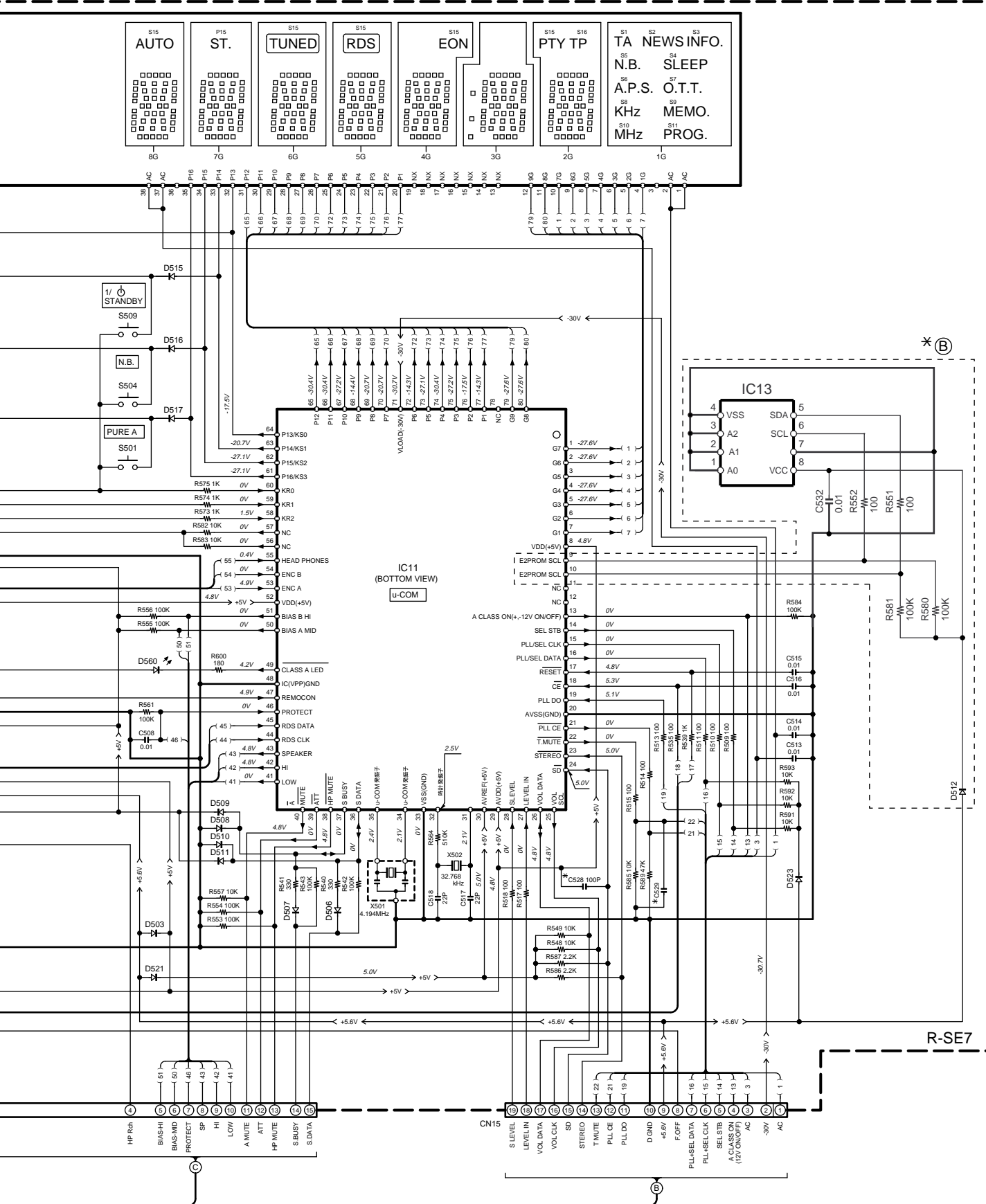
- IC11 : *
- IC12 : S-806D-Z
- Q504 : 2SC4116(Y,GR) or 2SC4177(L5,L6)
- D502,504-511,513,514,523 : MA111
- D503,521,522 : 1SS133 or HSS104
- D515-519,520 : 1SS131 or HSS104A
- D560 : B30-2521-05
- ED1 : FIP9GM6R
- A1 : W02-2561-05



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.

DISTINATION		UNIT	C51, 52	C53, 54	E77	C61-64	R49, 50	R159	F1	J5	WH4	W2, 3	(A)	(B)	C526, 528 529	D518	D519	IC11	C41, 42	R700	P1	
GENERAL MARKET	ABB.	M	2-71	0.047 μ	NO	NO	100	YES	800nA L:250V	E70-0061-05	NO	YES	NO	NO	NO	YES	NO	UPD78045 FGF057	YES	NO	NO	
UK	T				YES	YES	1K	NO	400nA L:250V			NO	YES	YES	NO	NO	YES				NO	NO
EUROPE	E				NO	NO						YES	NO	NO	NO	NO	NO	UPD78045FGF059	YES	YES	YES	
USA	K		0-11	0.047 μ	NO	NO	100	YES	1A L:25V	E70-0034-05	YES	YES	NO	NO	NO	YES	NO		YES	YES	YES	



R-SE7/SE-7(G)

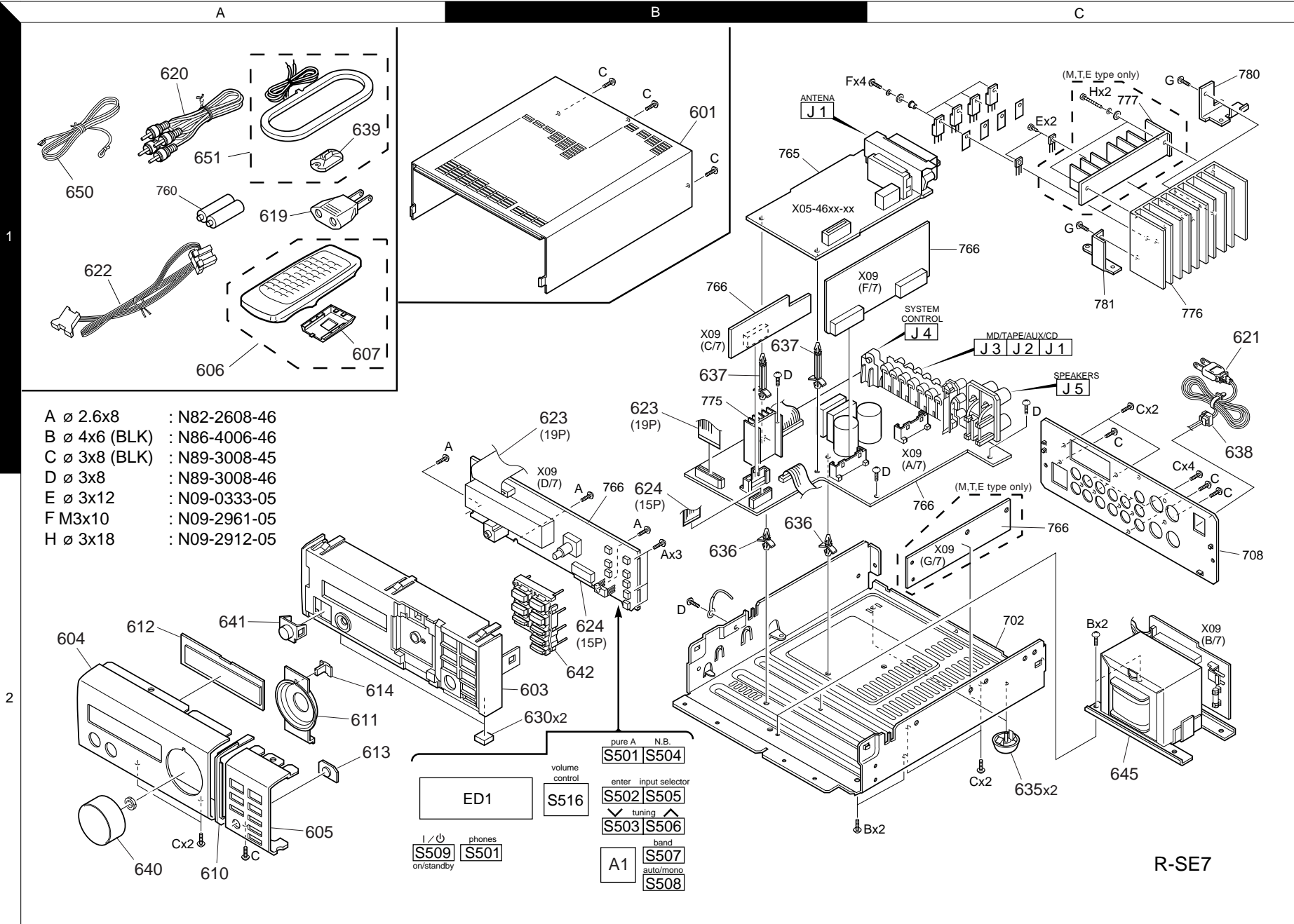
Y05-3480-11

KENWOOD

R-SE7/SE-7(G)

EXPLODED VIEW (UNIT)

Parts with exploded numbers larger than 700 are not supplied.



R-SE7

* New Parts

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

①

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R-SE7						
601	1B		A01-3471-11	METALLIC CABINET	MET1T2	
601	1B	*	A01-3541-01	METALLIC CABINET	K	
603	2B		A22-1783-11	SUB PANEL		
604	2A		A60-1207-03	PANEL	M	
604	2A	*	A60-1209-03	PANEL	T1T2E	
604	2A	*	A60-1347-03	PANEL	K	
605	2A		A60-1208-03	PANEL	MET1K	
605	2A		A60-1302-03	PANEL	T2	
606	1A		A70-1154-05	REMOTE CONTROLLER ASSY(RC-SE9)	MK	
606	1A		A70-1155-05	REMOTE CONTROL ASSY RC-SE9(E)	T1T2E	
607	1A		A09-0374-08	BATTERY COVER		
610	2A		B07-2363-04	ESCUTCHEON		
611	2A		B07-2367-03	ESCUTCHEON VR		
612	2A		B10-2373-03	FRONT GLASS PURE A		
613	2A		B12-0320-04	INDICATOR		
614	2A		B12-0322-04	INDICATOR		
-			B46-0197-00	QUESTIONNAIRE CARD	K	
-			B46-0310-03	WARRANTY CARD	T1T2E	
-			B46-0328-03	WARRANTY CARD	K	
-		*	B58-0965-13	CAUTION CARD (PL)	T1T2	
-		*	B58-0966-13	CAUTION CARD (PL)	ME	
-		*	B58-1562-04	CAUTION CARD		
-		*	B60-3330-00	INSTRUCTION MANUAL(ENG)	T1T2	
-		*	B60-3331-00	INSTRUCTION MANUAL(FRN)	E	
-		*	B60-3332-00	INSTRUCTION MANUAL(GRM)	E	
-		*	B60-3333-00	INSTRUCTION MANUAL(NTR)	E	
-		*	B60-3334-00	INSTRUCTION MANUAL(ITL)	E	
-		*	B60-3335-00	INSTRUCTION MANUAL(SPN)	E	
-		*	B60-3412-00	INSTRUCTION MANUAL(TWN)	M	
-		*	B60-3668-00	INSTRUCTION MANUAL(ENG)	K	
△ 619	1A		E03-0115-05	AC PLUG ADAPTER	M	
△ 620	1A		E30-0615-05	AUDIO CORD		
△ 621	1C		E30-2592-15	AC POWER CORD	ME	
△ 621	1C		E30-2650-05	AC POWER CORD	K	
△ 621	1C		E30-2721-05	AC POWER CORD	T1T2	
622	1A		E30-2628-05	CORD WITH CONNECTOR		
623	1B		E35-1972-05	FLAT CABLE 19P	T1T2E	
623	1B	*	E35-2007-05	FLAT CABLE	MK	
624	2B		E35-1973-05	FLAT CABLE 15P		
630	2B		G11-2342-04	CUSHION		
-			H10-7363-02	POLYSTYRENE FOAMED FIXTURE		
-			H10-7364-02	POLYSTYRENE FOAMED FIXTURE		
-			H12-2356-04	PACKING FIXTURE	T1T2	
-			H25-1579-04	PROTECTION BAG	MEK	
-			H25-1581-04	PROTECTION BAG	T1T2	
-			H25-1595-04	PROTECTION BAG		
-			H50-2508-04	ITEM CARTON CASE	MEK	
-		*	H50-2509-04	ITEM CARTON CASE	T1	
-		*	H50-2681-04	ITEM CARTON CASE	T2	
635	2C		J02-0370-05	FOOT		
636	2B		J19-3323-05	UNIT HOLDER		

L : Scandinavia K : USA P : Canada R : Mexico T1 : GRAY
 Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany T2 : GOLD
 Y : AAFES(Europe) X : Australia M : Other Areas

△ indicates safety critical components.

* New Parts

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

②

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
637	1B		J19-3331-05	UNIT HOLDER		
638	1C		J42-0083-05	POWER CORD BUSHING		
639	1A		J19-3645-05	ANTENNA STAND		
-			J61-0307-05	WIRE BAND		
640	2A		K29-6358-04	KNOB VR		
641	2A		K29-6744-04	KNOB POWER		
642	3B		K29-6750-03	KNOB		
645	2C	*	L07-2386-05	POWER TRANSFORMER		T1T2E
645	2C	*	L07-2415-05	POWER TRANSFORMER		M
645	2C	*	L07-2493-05	POWER TRANSFORMER		K
650	1A		T90-0182-15	LEAD WIRE ANTENNA		KM
650	1A		T90-0806-05	LEAD WIRE ANTENNA		ET1T2
651	1A		T90-0820-05	LOOP ANTENNA		
TUNER UNIT (X05-4600-XX)						
C1	.2		CK73FB1H103K	CHIP C	0.010UF	K
C3			CC73FCH1H040C	CHIP C	4.0PF	C
C4			CK73FB1H103K	CHIP C	0.010UF	K
C5			CK73FB1H102K	CHIP C	1000PF	K
C8			CK73FB1H103K	CHIP C	0.010UF	K
C9			CE04KW1C100M	ELECTRO	10UF	16WV
C10			CK73FB1H473K	CHIP C	0.047UF	K
C11			CE04KW1H010M	ELECTRO	1.0UF	50WV
C12			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C13			CK73FB1H102K	CHIP C	1000PF	K
C14			CE04KW1H010M	ELECTRO	1.0UF	50WV
C15			CC73FCH1H220J	CHIP C	22PF	J
C16			CE04KW1C100M	ELECTRO	10UF	16WV
C17			CK73FB1H562K	CHIP C	5600PF	K
C18			CK73FB1H102K	CHIP C	1000PF	K
C19			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV
C20			CK73FB1E104K	CHIP C	0.10UF	K
C21	.22		CQ93FMG1H113J	MYLAR	0.011UF	J
C21	.22		CQ93FMG1H163J	MYLAR	0.016UF	J
C23			CE04KW1H010M	ELECTRO	1.0UF	50WV
C25			CE04KW1C100M	ELECTRO	10UF	16WV
C26			CE04KW1C470M	ELECTRO	47UF	16WV
C27			CE04KW1H010M	ELECTRO	1.0UF	50WV
C28			CQ93FMG1H223J	MYLAR	0.022UF	J
C29			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C30			CE04KW1C101M	ELECTRO	100UF	16WV
C31			CE04KW1A470M	ELECTRO	47UF	10WV
C32			CK73FB1H103K	CHIP C	0.010UF	K
C33			CC73FSL1H101J	CHIP C	100PF	J
C34	.35		CK73FB1H102K	CHIP C	1000PF	K
C36			CC73FCH1H270J	CHIP C	27PF	J
C37			CC73FCH1H220J	CHIP C	22PF	J
C38			CK73FB1H471K	CHIP C	470PF	K
C52			CC73FSL1H470J	CHIP C	47PF	J
C57	-60		CE04KW1C100M	ELECTRO	10UF	16WV
C63			CC73FCH1H220J	CHIP C	22PF	J
CN1			E40-4609-05	PIN ASSY		
J1			E20-0476-05	LOCK TERMINAL BOARD(4P)		

L : Scandinavia K : USA P : Canada R : Mexico T1 : GRAY
 Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany T2 : GOLD
 Y : AAFES(Europe) X : Australia M : Other Areas

△ indicates safety critical components.

PARTS LIST

R-SE7/SE-7(G)

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

3

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
CF1 ,2			L72-0531-05	CERAMIC FILTER		
CF3			L72-0593-05	CERAMIC FILTER		
L1			L39-1348-05	COMBINATION COIL		
L2			L30-0911-05	AM IFT		
L3 ,4			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X1			L77-2185-05	CRYSTAL RESONATOR		
X2			L78-0637-05	RESONATOR (456KHZ)		
R1			RK73FB2A332J	CHIP R	3.3K	J 1/10W
R2			RK73FB2A681J	CHIP R	680	J 1/10W
R3			RK73FB2A5R6J	CHIP R	5.6	J 1/10W
R4 ,5			RK73FB2A331J	CHIP R	330	J 1/10W
R6			RK73FB2A101J	CHIP R	100	J 1/10W
R7			RK73FB2A473J	CHIP R	47K	J 1/10W
R8			RK73FB2A331J	CHIP R	330	J 1/10W
R13			RK73FB2A473J	CHIP R	47K	J 1/10W
R15 ,16			RK73FB2A393J	CHIP R	39K	J 1/10W
R17			RK73FB2A271J	CHIP R	270	J 1/10W
R18			RK73FB2A302J	CHIP R	3.0K	J 1/10W
R19			RK73FB2A822J	CHIP R	8.2K	J 1/10W
R20 -23			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R24			RK73FB2A562J	CHIP R	5.6K	J 1/10W
Δ R25			RD14NB2E101J	RD	100	J 1/4W
Δ R26			RD14NB2E561J	RD	560	J 1/4W
R27			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R28			RK73FB2A103J	CHIP R	10K	J 1/10W
R29 ,30			RK73FB2A102J	CHIP R	1.0K	J 1/10W
R31			RK73FB2A103J	CHIP R	10K	J 1/10W
R32			RK73FB2A122J	CHIP R	1.2K	J 1/10W
R33			RK73FB2A123J	CHIP R	12K	J 1/10W
Δ R41			RS14KB3A181J	FL-PROOF RS	180	J 1W
Δ R42			RD14NB2E820J	RD	82	J 1/4W
Δ R43			RD14NB2E221J	RD	220	J 1/4W
R44			RK73FB2A101J	CHIP R	100	J 1/10W
R46			RK73FB2A104J	CHIP R	100K	J 1/10W
R47			RK73FB2A153J	CHIP R	15K	J 1/10W
R48			RK73FB2A473J	CHIP R	47K	J 1/10W
R51 -54			RK73FB2A473J	CHIP R	47K	J 1/10W
R55 ,56			RK73FB2A154J	CHIP R	150K	J 1/10W
R59 ,60			RK73FB2A332J	CHIP R	3.3K	J 1/10W
W101-106			R92-0670-05	CHIP R	0 OHM	
W108-114			R92-0670-05	CHIP R	0 OHM	
W201-211			R92-0679-05	CHIP R	0 OHM	
D1 ,2			HSS104	DIODE		
D1 ,2			1S5133	DIODE		
D3 ,4			MTZJ5.1(B)	ZENER DIODE		
D3 ,4			UZ-5.1BSB	ZENER DIODE		
D8			HSS104	DIODE		
D8			1S5133	DIODE		
D10			MA111	DIODE		
IC1			LA1832	ANALOGUE IC		
IC2			LC72131	MOS-IC		
IC4			NJM4565M	IC(OP AMP X2)		
Q1			2SC2714(R,O)	TRANSISTOR		
Q3			2SA1586(Y,GR)	TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q3			2SA1611(M5,M6)	TRANSISTOR		
Q5			2SC4116(Y,GR)	TRANSISTOR		
Q5			2SC4177(L5,L6)	TRANSISTOR		
A1			W02-2608-05	FM FRONT-END ASSY		
TUNER UNIT (X05-4622-71)						
C1			CE04KW1C470M	ELECTRO	47UF	16WV
C2			CE04KW1H010M	ELECTRO	1.0UF	50WV
C3 -8			CK73FB1H103K	CHIP C	0.010UF	K
C9			C91-0769-05	CERAMIC	0.010UF	K
C30			CK73EB1E473K	CHIP C	0.047UF	K
C31			CE04KW1C470M	ELECTRO	47UF	16WV
C32			CK73FB1H103K	CHIP C	0.010UF	K
C33			CE04KW1C100M	ELECTRO	10UF	16WV
C34			CK73EB1E104K	CHIP C	0.10UF	K
C35			CE04KW1C100M	ELECTRO	10UF	16WV
C36			CK73FB1E473K	CHIP C	0.047UF	K
C37			CK73EF1E105Z	CHIP C	1.0UF	Z
C38			C90-3217-05	ELECTRO	10UF	10WV
C40			C90-3253-05	ELECTRO	1.0UF	50WV
C41			C90-3251-05	ELECTRO	0.47UF	50WV
C42			C90-3240-05	ELECTRO	2.2UF	35WV
C43			CE04KW1HR47M	ELECTRO	0.47UF	50WV
C44			CK73FB1E473K	CHIP C	0.047UF	K
C45			CC73FCH1H220J	CHIP C	22PF	J
C46			CE04KW1A101M	ELECTRO	100UF	10WV
C47			CK73FB1H682K	CHIP C	6800PF	K
C48			CC73FSL1H101J	CHIP C	100PF	J
C49			C90-3253-05	ELECTRO	1.0UF	50WV
C50			CK73FB1H102K	CHIP C	1000PF	K
C51 ,52			C90-3217-05	ELECTRO	10UF	10WV
C53 ,54			CK73FB1H273K	CHIP C	0.027UF	K
C55 ,56			C90-3240-05	ELECTRO	2.2UF	35WV
C57 ,58			CK73FB1H682K	CHIP C	6800PF	K
C60			CK73FB1E104K	CHIP C	0.10UF	K
C61			CK73FB1H103K	CHIP C	0.010UF	K
C63			CC73FCH1H040C	CHIP C	4.0PF	C
C64			CK73FB1H333K	CHIP C	0.033UF	K
C66			CC73FCH1H060D	CHIP C	6.0PF	D
C67			CC73FCH1H220J	CHIP C	22PF	J
C68			CC73FSL1H020C	CHIP C	2.0PF	C
C69			CK73FB1H103K	CHIP C	0.010UF	K
C70			CC73FSL1H101J	CHIP C	100PF	J
C81			CC73FCH1H220J	CHIP C	22PF	J
C82			CC73FCH1H270J	CHIP C	27PF	J
C84			CK73FB1H102K	CHIP C	1000PF	K
C85			C91-0745-05	CERAMIC	100PF	K
C86			C91-0757-05	CERAMIC	1000PF	K
C87			CE04KW1A470M	ELECTRO	47UF	10WV
C89			CE04KW1C470M	ELECTRO	47UF	16WV
C90			CE04KW1H2R2M	ELECTRO	2.2UF	50WV
C91			CQ93FMG1H223J	MYLAR	0.022UF	J
C92			CC73FSL1H471J	CHIP C	470PF	J
C93			CK73FB1H103K	CHIP C	0.010UF	K
C94			CK73FB1H102K	CHIP C	1000PF	K

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C95			CC73FCH1H470J	CHIP C 47PF		J
C96			CC73FSL1H101J	CHIP C 100PF		J
CN1			E40-4609-05	PIN ASSY		
CN2			E40-4871-05	PIN ASSY		
J1			E20-0321-05	LOCK TERMINAL BOARD(2P,F)		
CF1 ,2			L72-0536-05	CERAMIC FILTER		
L31			L30-0929-05	FM IFT		
L32			L30-0930-05	FM IFT		
L33			L30-0911-05	AM IFT		
L34			L79-1237-05	LC FILTER		
L35 ,36			L79-1236-05	LC FILTER		
L61			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L62			L39-1348-05	COMBINATION COIL		
L63			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
L81			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X31			L78-0637-05	RESONATOR (456KHZ)		
X81			L77-2185-05	CRYSTAL RESONATOR		
R1			RD14NB2E101J	RD 100	J	1/4W
R2			RK73EB2B221J	CHIP R 220	J	1/8W
R3			RK73FB2A332J	CHIP R 3.3K	J	1/10W
R4			RK73FB2A681J	CHIP R 680	J	1/10W
R5			RK73FB2A331J	CHIP R 330	J	1/10W
R6			RK73FB2A220J	CHIP R 22	J	1/10W
R7			RK73FB2A332J	CHIP R 3.3K	J	1/10W
R8			RK73FB2A331J	CHIP R 330	J	1/10W
R10			RK73FB2A332J	CHIP R 3.3K	J	1/10W
R11			RK73FB2A681J	CHIP R 680	J	1/10W
R12			RK73FB2A122J	CHIP R 1.2K	J	1/10W
R13 ,14			RK73FB2A331J	CHIP R 330	J	1/10W
R15			RK73FB2A101J	CHIP R 100	J	1/10W
R16			RK73FB2A220J	CHIP R 22	J	1/10W
R17			RK73FB2A621J	CHIP R 620	J	1/10W
R18			RK73FB2A123J	CHIP R 12K	J	1/10W
R19			RK73FB2A4R7J	CHIP R 4.7	J	1/10W
R20			RK73FB2A122J	CHIP R 1.2K	J	1/10W
R31			RS14KB3A820J	FL-PROOF RS 82	J	1W
R32			RK73EB2B562J	CHIP R 5.6K	J	1/8W
R33			RK73FB2A302J	CHIP R 3.0K	J	1/10W
R34			RK73FB2A822J	CHIP R 8.2K	J	1/10W
R35			RK73FB2A333J	CHIP R 33K	J	1/10W
R36			RK73FB2A393J	CHIP R 39K	J	1/10W
R37			RK73FB2A272J	CHIP R 2.7K	J	1/10W
R38			RK73FB2A333J	CHIP R 33K	J	1/10W
R39			RK73FB2A223J	CHIP R 22K	J	1/10W
R40			RK73FB2A332J	CHIP R 3.3K	J	1/10W
R41			RK73FB2A222J	CHIP R 2.2K	J	1/10W
R42			RK73FB2A473J	CHIP R 47K	J	1/10W
R43 ,44			RK73FB2A332J	CHIP R 3.3K	J	1/10W
R45 ,46			RK73FB2A122J	CHIP R 1.2K	J	1/10W
R47 ,48			RK73FB2A392J	CHIP R 3.9K	J	1/10W
R49			RK73FB2A473J	CHIP R 47K	J	1/10W
R51			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R52			RK73FB2A104J	CHIP R 100K	J	1/10W

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R53			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R54			RK73FB2A683J	CHIP R 68K	J	1/10W
R55			RK73FB2A473J	CHIP R 47K	J	1/10W
R56			RK73FB2A104J	CHIP R 100K	J	1/10W
R59			RK73FB2A222J	CHIP R 2.2K	J	1/10W
R67			RK73FB2A104J	CHIP R 100K	J	1/10W
R80			RK73EB2B102J	CHIP R 1.0K	J	1/8W
R81 -83			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R84			RK73FB2A103J	CHIP R 10K	J	1/10W
R85 -88			RK73FB2A102J	CHIP R 1.0K	J	1/10W
△ R89			RD14NB2E101J	RD 100	J	1/4W
R90			RK73FB2A562J	CHIP R 5.6K	J	1/10W
R91			RK73FB2A222J	CHIP R 2.2K	J	1/10W
R92			RK73FB2A123J	CHIP R 12K	J	1/10W
R93			RK73FB2A122J	CHIP R 1.2K	J	1/10W
R94			RD14NB2E561J	RD 560	J	1/4W
R101 ,102			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R103			RK73FB2A821J	CHIP R 820	J	1/10W
R104			RK73FB2A473J	CHIP R 47K	J	1/10W
R105			RK73FB2A103J	CHIP R 10K	J	1/10W
W51 -54			R92-0670-05	CHIP R 0 OHM		
W56 -58			R92-0679-05	CHIP R 0 OHM		
W59 -61			R92-0670-05	CHIP R 0 OHM		
W62 -67			R92-0679-05	CHIP R 0 OHM		
W69 -71			R92-0679-05	CHIP R 0 OHM		
W80			R92-0670-05	CHIP R 0 OHM		
W81			R92-0679-05	CHIP R 0 OHM		
W83 ,84			R92-0679-05	CHIP R 0 OHM		
D1			HSS104	DIODE		
D1			1SS133	DIODE		
D31			MTZJ8.2(B)	ZENER DIODE		
D31			UZ-8.2BSB	ZENER DIODE		
D32			MA111	DIODE		
D33			HSS104	DIODE		
D33			1SS133	DIODE		
D61 ,62			HSS104	DIODE		
D61 ,62			1SS133	DIODE		
D81			MTZJ5.1(B)	ZENER DIODE		
D81			UZ-5.1BSB	ZENER DIODE		
D101			MTZJ3.3(B)	ZENER DIODE		
D101			UZ-3.3BSB	ZENER DIODE		
IC1			LA1836	ANALOGUE IC		
IC2			LC72131	MOS-IC		
IC3			M5223FP	IC(OP AMP X4)		
Q1 ,2			2SC2714(R,O)	TRANSISTOR		
Q3			2SA1586(Y,GR)	TRANSISTOR		
Q3			2SA1611(M5,M6)	TRANSISTOR		
Q31 ,32			2SC4116(Y,GR)	TRANSISTOR		
Q31 ,32			2SC4177(L5,L6)	TRANSISTOR		
Q81			2SA1586(Y,GR)	TRANSISTOR		
Q81			2SA1611(M5,M6)	TRANSISTOR		
Q101 ,102			2SD1757K	TRANSISTOR		
Q103			2SA1586(Y,GR)	TRANSISTOR		
Q103			2SA1611(M5,M6)	TRANSISTOR		

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PARTS LIST

R-SE7/SE-7(G)

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
A1			W02-2565-05	FM FRONT-END ASSY		
AUDIO UNIT (X09-469X-XX)						
D560			B30-2521-05	LED(YELxPHAI 3)		
C1 -12			CC73FSL1H221J	CHIP C		
C13 ,14			CE04KW1E100M	ELECTRO		
C15 ,16			CC73FSL1H221J	CHIP C		
C17 ,18			CC73FSL1H101J	CHIP C		
C19 ,20			CE04KW1E100M	ELECTRO		
C21 ,22			CE04KW1H2R2M	ELECTRO		
C23 ,24			CC73FSL1H101J	CHIP C		
C25 ,26			CK73FB1H223K	CHIP C		
C27 ,28			CK73FF1C474Z	CHIP C		
C29 ,30			CK73FB1H333K	CHIP C		
C31 ,32			CC73FSL1H220J	CHIP C		
C33 ,34			CE04KW1H4R7M	ELECTRO		
C35 ,36			CE04KW1H2R2M	ELECTRO		
C37 ,38			CK73FB1H222K	CHIP C		
C39 ,40			CE04KW1A101M	ELECTRO		
C41 ,42			CC73FCH1H101J	CHIP C		
C43 ,44			CC73FSL1H101J	CHIP C		
C45			CC45FSL1H101J	CERAMIC		
C46 -48			CC73FSL1H101J	CHIP C		
C49 ,50			CC73FSL1H102J	CHIP C		
C51 -54			CK73FB1E104K	CHIP C		
C51 ,52			CK73FB1E473KTA	CHIP C		
C55 ,56			CK73FB1H472K	CHIP C		
C57 -60			CE04KW1E100M	ELECTRO		
C61 ,62			CC73FSL1H220J	CHIP C		
C63 ,64			CK73FB1H103K	CHIP C		
C101			CE04KW1V102M	ELECTRO		
C102			CE04DW1V221M	ELECTRO		
C103			CE04KW1V220M	ELECTRO		
C104			CE04KW1V330M	ELECTRO		
C105,106			CE04KW1C470M	ELECTRO		
C107 ,108			C90-3743-05	ELECTRO		
C109			CE04KW1V101M	ELECTRO		
C110			CE04KW1H470M	ELECTRO		
C111			CE04KW1V4R7M	ELECTRO		
C112			CE04KW1E101M	ELECTRO		
C113,114			CE04KW1E100M	ELECTRO		
C115			CC73FSL1H471J	CHIP C		
C116-119			CK73FB1H103K	CHIP C		
C120			CC73FSL1H221J	CHIP C		
C121			CC45FSL1H221J	CERAMIC		
C122			CE04KW1E100M	ELECTRO		
C123			CE04KW1A101M	ELECTRO		
C124,125			CC73FSL1H221J	CHIP C		
C126			CE04HW1E4R7M	NP-ELEC		
C127			CC73FSL1H102J	CHIP C		
C128			CE04HW1H3R3M	NP-ELEC		
C129			CE04KW1H010M	ELECTRO		
C130,131			CE04KW1E100M	ELECTRO		
C132			CE04KW1A101M	ELECTRO		

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C133,134			C90-3237-05	ELECTRO		
C135			CE04KW1E100M	ELECTRO		
C136			CE04HW1E4R7M	NP-ELEC		
C137			CE04KW1E100M	ELECTRO		
C138			CE04KW1V4R7M	ELECTRO		
C139			CE04KW1A221M	ELECTRO		
C140			CK73FB1H222K	CHIP C		
C141			CE04KW1E100M	ELECTRO		
C143,144			CE04KW1E470M	ELECTRO		
C145,146			CC73FSL1H102J	CHIP C		
C502			C90-3211-05	ELECTRO		
C503-505			CK73FB1H103K	CHIP C		
C506			C90-3253-05	ELECTRO		
C507			CK73EF1C105Z	CHIP C		
C508			CK73FB1H103K	CHIP C		
C509			C90-3216-05	ELECTRO		
C513-516			CK73FB1H103K	CHIP C		
C517			CC45FCH1H220J	CERAMIC		
C518			CC73FCH1H220J	CHIP C		
C524			CK73EB1H103K	CHIP C		
C526			CC73FSL1H220J	CHIP C		
C528,529			CC73FCH1H101J	CHIP C		
C531			CK73FB1H103K	CHIP C		
C531,532			CK73FB1H103K	CHIP C		
C533,534			CK73FB1H472K	CHIP C		
C535			CK73FB1H223K	CHIP C		
C701			CK73FB1H103K	CHIP C		
C702			C90-3240-05	ELECTRO		
C703			C91-0751-05	CERAMIC		
C704			CK73FB1H561K	CHIP C		
C705			CC73FCH1H470J	CHIP C		
C706			CC73FCH1H220J	CHIP C		
C707,708			CK73FB1H103K	CHIP C		
C709			C90-3212-05	ELECTRO		
CN1 ,2			E40-4871-05	PIN ASSY		
CN3			E40-4809-05	PIN ASSY		
CN4			E40-4810-05	SOCKET FOR PIN ASSY		
CN5			E40-4940-05	FLAT CABLE CONNECTOR		
CN6			E40-4902-05	FLAT CABLE CONNECTOR		
CN7			E40-4906-05	FLAT CABLE CONNECTOR		
CN8			E40-8161-05	SOCKET FOR PIN ASSY		
CN9			E40-8160-05	PIN ASSY		
CN10			E40-8169-05	SOCKET FOR PIN ASSY		
CN11			E40-8164-05	PIN ASSY		
CN12			E40-4632-05	PIN ASSY		
CN15			E40-4906-05	FLAT CABLE CONNECTOR		
J1			E63-1014-05	PHONO JACK (3P)		
J2			E63-0046-15	PHONO JACK (4P)		
J3			E63-0047-15	PHONO JACK (6P)		
J4			E08-0312-05	RECTANGULAR RECEPTACLE		
J5			E70-0034-05	LOCK TERMINAL BOARD		
J5			E70-0061-05	SCREW TERMINAL BOARD		
J5			E70-0061-05	SCREW TERMINAL BOARD		
J501			E11-0300-05	PHONE JACK		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
△ F1			F05-4016-05	FUSE (SEMKO) (250V T400MAL)	T1T2E	
△ F1			F05-8013-05	FUSE (SEMKO) (250V T800MAL)	M	
△ F1			F50-0066-05	FUSE(5X20)	K	
△ CN13,14			J13-0075-05	FUSE CLIP		
L701			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	T1T2E	
L702			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	T1T2E	
X501			L78-0267-05	RESONATOR (4.194MHZ)		
X502			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)		
X701			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	T1T2E	
R1 ,2			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R3 ,4			RK73FB2A683J	CHIP R 68K J 1/10W		
R5 ,6			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R7 ,8			RK73FB2A683J	CHIP R 68K J 1/10W		
R9 ,10			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R11 ,12			RK73FB2A683J	CHIP R 68K J 1/10W		
R13 ,14			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R15 ,16			RK73FB2A224J	CHIP R 220K J 1/10W		
R17 ,18			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R19 ,20			RK73FB2A683J	CHIP R 68K J 1/10W		
R21 ,22			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R23 ,24			RK73FB2A224J	CHIP R 220K J 1/10W		
R25 ,26			RK73FB2A331J	CHIP R 330 J 1/10W		
R27 -30			RK73FB2A224J	CHIP R 220K J 1/10W		
R34			RK73FB2A182J	CHIP R 1.8K J 1/10W		
R35 ,36			RK73FB2A104J	CHIP R 100K J 1/10W		
R37 -39			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R41			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R43 ,44			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R45 ,46			RK73FB2A224J	CHIP R 220K J 1/10W		
R47 ,48			RK73FB2A333J	CHIP R 33K J 1/10W		
R49 ,50			RK73FB2A101J	CHIP R 100 J 1/10W		
R49 ,50			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R52 ,53			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R67 ,68			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R69 -72			RD14NB2E220J	RD 22 J 1/4W		
R73 -76			RS14KB3DR22J	FL-PROOF RS 0.22 J 2W		
R77 ,78			RK73FB2A622J	CHIP R 6.2K J 1/10W		
R79 ,80			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R81			RK73FB2A471J	CHIP R 470 J 1/10W		
R85 ,86			RD14NB2E4R7J	RD 4.7 J 1/4W		
R89 ,90			RS14KB3D331J	FL-PROOF RS 330 J 2W		
R97 ,98			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R99 ,100			RK73FB2A912J	CHIP R 9.1K J 1/10W		
R101			RD14NB2E2R2J	RD 2.2 J 1/4W		
R102			RK73FB2A223J	CHIP R 22K J 1/10W		
R103			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R104			RD14NB2E151J	RD 150 J 1/4W		
△ R106			RD14NB2E100J	RD 10 J 1/4W		
△ R111			RK73FB2A163J	CHIP R 16K J 1/10W		
R112			RK73FB2A153J	CHIP R 15K J 1/10W		
△ R113			RS14KB3D221J	FL-PROOF RS 220 J 2W		
R114			RK73FB2A473J	CHIP R 47K J 1/10W		
R115			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R116			RK73FB2A473J	CHIP R 47K J 1/10W		

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R117			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R118			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R119			RD14NB2E6R8J	RD 6.8 J 1/4W		
R121			RD14NB2E222J	RD 2.2K J 1/4W		
R122			RD14NB2E182J	RD 1.8K J 1/4W		
R124,125			RK73FB2A221J	CHIP R 220 J 1/10W		
R127			RK73FB2A104J	CHIP R 100K J 1/10W		
R133			RK73FB2A104J	CHIP R 100K J 1/10W		
R138			RK73FB2A473J	CHIP R 47K J 1/10W		
R139,140			RK73FB2A222J	CHIP R 2.2K J 1/10W		
△ R141,142			RD14NB2E2R2J	RD 2.2 J 1/4W		
△ R149			RK73FB2A473J	CHIP R 47K J 1/10W		
R155			RS14KB3D151J	FL-PROOF RS 150 J 2W		
R157			RK73FB2A473J	CHIP R 47K J 1/10W		
R158			RK73FB2A103J	CHIP R 10K J 1/10W		
R159			RK73EB2B104J	CHIP R 100K J 1/8W		
R161			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R162			RK73FB2A333J	CHIP R 33K J 1/10W		
R163			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R166			RK73FB2A153J	CHIP R 15K J 1/10W		
R167			RK73FB2A682J	CHIP R 6.8K J 1/10W		
R170			RK73FB2A103J	CHIP R 10K J 1/10W		
R171			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R173			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R174			RK73FB2A473J	CHIP R 47K J 1/10W		
R176			RK73FB2A473J	CHIP R 47K J 1/10W		
R177			RK73FB2A104J	CHIP R 100K J 1/10W		
R185,186			RK73FB2A751J	CHIP R 750 J 1/10W		
R187,188			RK73FB2A471J	CHIP R 470 J 1/10W		
R191			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R193			RK73FB2A223J	CHIP R 22K J 1/10W		
R509-511			RK73FB2A101J	CHIP R 100 J 1/10W		
R513-515			RK73FB2A101J	CHIP R 100 J 1/10W		
R517,518			RK73FB2A101J	CHIP R 100 J 1/10W		
R529,530			RK73FB2A103J	CHIP R 10K J 1/10W		
R531,532			RK73FB2A221J	CHIP R 220 J 1/10W		
R533-535			RK73FB2A103J	CHIP R 10K J 1/10W		
R536			RK73FB2A104J	CHIP R 100K J 1/10W		
R537			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R538			RK73FB2A103J	CHIP R 10K J 1/10W		
R540,541			RK73FB2A331J	CHIP R 330 J 1/10W		
R542,543			RK73FB2A104J	CHIP R 100K J 1/10W		
R548,549			RK73FB2A103J	CHIP R 10K J 1/10W		
R551,552			RK73FB2A101J	CHIP R 100 J 1/10W		
R553-556			RK73FB2A104J	CHIP R 100K J 1/10W		
R557			RK73FB2A103J	CHIP R 10K J 1/10W		
R561			RK73FB2A104J	CHIP R 100K J 1/10W		
R564			RK73FB2A514J	CHIP R 510K J 1/10W		
R569			RK73FB2A103J	CHIP R 10K J 1/10W		
R580,581			RK73FB2A104J	CHIP R 100K J 1/10W		
R582,583			RK73FB2A103J	CHIP R 10K J 1/10W		
R584			RK73FB2A104J	CHIP R 100K J 1/10W		
R585			RK73FB2A103J	CHIP R 10K J 1/10W		
R586,587			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R589			RK73FB2A473J	CHIP R 47K J 1/10W		

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R-SE7/SE-7(G)

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R591			RK73FB2A104J	CHIP R 100K J 1/10W		
R592,593			RK73FB2A103J	CHIP R 10K J 1/10W		
R700			R92-1844-05	CARBON 3.3M J 1/2W	K	
R704			RK73FB2A222J	CHIP R 2.2K J 1/10W	T1T2E	
VR1_2			R12-1616-05	TRIMMING POT.(1K)		
W203-205			R92-0679-05	CHIP R 0 OHM		
W206			R92-0670-05	CHIP R 0 OHM		
W207-209			R92-0679-05	CHIP R 0 OHM		
W211			R92-0670-05	CHIP R 0 OHM		
W212			R92-0679-05	CHIP R 0 OHM		
W215,216			R92-0670-05	CHIP R 0 OHM		
W218-220			R92-0679-05	CHIP R 0 OHM	T1T2E	
W501-506			R92-0679-05	CHIP R 0 OHM	MK	
W501,502			R92-0679-05	CHIP R 0 OHM		
W508-512			R92-0679-05	CHIP R 0 OHM		
Δ K1_2			S76-0075-05	MAGNETIC RELAY		
Δ K3			S76-0056-05	MAGNETIC RELAY		
S501-509			S70-0031-05	TACT SWITCH		
PH1_4			T95-0149-05	OPTO ISOLATOR		
S516			T99-0598-05	ROTARY ENCODER		
Δ D5			D3SBA20F03	DIODE		
Δ D5			RBV-402LFA	DIODE		
D6_7			MA111	DIODE		
D8_9			HSS104A	DIODE		
D8_9			1SS131	DIODE		
Δ D10-14			S5688B	DIODE		
Δ D10-14			1SR139-400	DIODE		
D15_16			MTZJ16(B)	ZENER DIODE		
D15_16			UZ-16BSB	ZENER DIODE		
D17			MTZJ6.2(B)	ZENER DIODE		
D17			UZ-6.2BSB	ZENER DIODE		
D18			MTZJ6.8(B)	ZENER DIODE		
D18			UZ-6.8BSB	ZENER DIODE		
D19			MTZJ6.2(B)	ZENER DIODE		
D19			UZ-6.2BSB	ZENER DIODE		
D20_21			MTZJ4.7(B)	ZENER DIODE		
D20_21			UZ-4.7BSB	ZENER DIODE		
D22			MTZJ5.1(B)	ZENER DIODE		
D22			UZ-5.1BSB	ZENER DIODE		
D23			MTZJ3.9(B)	ZENER DIODE		
D23			UZ-3.9BSB	ZENER DIODE		
D24			MTZJ4.7(B)	ZENER DIODE		
D24			UZ-4.7BSB	ZENER DIODE		
D25_26			HSS104	DIODE		
D25_26			1SS133	DIODE		
D27			MTZJ11(B)	ZENER DIODE		
D27			UZ-11BSB	ZENER DIODE		
D28			MTZJ4.7(B)	ZENER DIODE		
D28			UZ-4.7BSB	ZENER DIODE		
D29_30			HSS104	DIODE		
D29_30			1SS133	DIODE		
D31			MA111	DIODE		
D32			HSS104	DIODE		
D32			1SS133	DIODE		

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D33			MTZJ4.7(B)	ZENER DIODE		
D33			UZ-4.7BSB	ZENER DIODE		
D36_37			MTZJ20	ZENER DIODE		
D36_37			UZ-20BS	ZENER DIODE		
D39			MTZJ3.9(B)	ZENER DIODE		
Δ D39			UZ-3.9BSB	ZENER DIODE		
D40			KBP02ML-6127	DIODE		
D502			MA111	DIODE		
D503			HSS104	DIODE		
D503			1SS133	DIODE		
D504-511			MA111	DIODE		
D512			HSS104	DIODE		
D512			1SS133	DIODE		
D513,514			MA111	DIODE		
D515-517			HSS104A	DIODE		
D515-517			HSS104A	DIODE		
D515-517			1SS131	DIODE		
D515-517			1SS131	DIODE		
D515-519			HSS104A	DIODE		
D515-519			1SS131	DIODE		
D518			HSS104	DIODE		
D518			1SS133	DIODE		
D519			HSS104A	DIODE		
D519			1SS131	DIODE		
D521,522			HSS104	DIODE		
D521,522			1SS133	DIODE		
D523			MA111	DIODE		
D701			HSS104	DIODE		
D701			1SS133	DIODE		
ED1			FIP9GM6R	INDICATOR TUBE		
IC1			NJU7313AM	ANALOGUE IC		
IC2			NJM4565D-D	IC(OP AMP X2)		
IC3			M62420SP	ANALOGUE IC		
IC4			M5219P	ANALOGUE IC		
IC5			NJM4565L-D	ANALOGUE IC		
IC11			UPD78045FGF057	MI-COM IC		
IC11			UPD78045FGF057	MI-COM IC		
IC11			UPD78045FGF059	MI-COM IC		
IC12			S-806D-Z	ANALOGUE IC		
IC13			X24C04S	MEMORY IC		
IC701			SAA6579	ANALOGUE IC		
Q1_4			2SC4213(B)	TRANSISTOR		
Q5_6			2SD2589	TRANSISTOR		
Q7_8			2SB1659	TRANSISTOR		
Q9_10			2SC4137(V,W)	TRANSISTOR		
Q11_12			2SC1845(F,E)	TRANSISTOR		
Q13-16			2SC4213(B)	TRANSISTOR		
Q51			2SD2589	TRANSISTOR		
Q52			2SC1845(F,E)	TRANSISTOR		
Q53			DTC113ZUA	DIGITAL TRANSISTOR		
Q53			UN5219	DIGITAL TRANSISTOR		
Q54			2SA992(F,E)	TRANSISTOR		
Q55			2SA1534A(R,S)	TRANSISTOR		
Q56_57			2SC4116(Y,GR)	TRANSISTOR		
Q56_57			2SC4177(L5,L6)	TRANSISTOR		

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Q58			2SB764(E,F)	TRANSISTOR		
Q59			2SD2525	TRANSISTOR		
Q60 ,61			2SA1586(Y,GR)	TRANSISTOR		
Q60 ,61			2SA1611(M5,M6)	TRANSISTOR		
Q62			2SC2003(L,K)	TRANSISTOR		
Q63			2SC4116(Y,GR)	TRANSISTOR		
Q63			2SC4177(L5,L6)	TRANSISTOR		
Q64 -66			2SC1845(F,E)	TRANSISTOR		
Q67			2SA992(F,E)	TRANSISTOR		
Q68			2SA1586(Y,GR)	TRANSISTOR		
Q68			2SA1611(M5,M6)	TRANSISTOR		
Q69 ,70			2SC4116(Y,GR)	TRANSISTOR		
Q69 ,70			2SC4177(L5,L6)	TRANSISTOR		
Q71			2SA954(L,K)	TRANSISTOR		
Q504			2SC4116(Y,GR)	TRANSISTOR		
Q504			2SC4177(L5,L6)	TRANSISTOR		
A1			W02-2561-05	ELECTRIC CIRCUIT MODULE		

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R-SE7/SE-7(G)

SPECIFICATIONS

[Amplifier section]

Rated power output

Class AB operation

20 watts per channel minimum RMS, both channels driven, at 6 Ω , 1 kHz with no more than 10 % total harmonic distortion.

(DIN) 1 kHz at 6 Ω , 0.7 % T.H.D.15 W + 15 W

Class A operation

7.55 watts per channel minimum RMS, both channels driven, at 6 Ω , 1 kHz with no more than 10 % total harmonic distortion.

Total harmonic distortion0.02 % (1 kHz, 10 W, 6 Ω)

Frequency response20 Hz ~ 40 kHz, +0 dB, -3 dB

input sensitivity/impedance200 mV / 47 k Ω

Output level/impedance

SUPER WOOFER PRE OUT2.0 V / 1 k Ω

TAPE REC200 mV / 1 k Ω

Signal to noise ratio96 dB (IHF'66)

[FM Tuner section]

Tuning frequency range87.5 MHz ~ 108 MHz

Usable sensitivity (DIN)

MONO

.....1.2 μ V (75 Ω) / 13.2 dBf (40 kHz DEV., S/N 26 dB)

Signal to noise ratio

(DIN weighted at 1 kHz, 65.2 dBf input)

MONO65 dB

STEREO58 dB

Selectivity (DIN \pm 300 kHz)64 dB

Stereo separation (DIN at 1 kHz)35 dB

[AM Tuner section]

Tuning frequency range531 kHz ~ 1,602 kHz

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

.....15 μ V (500 μ V/m)

Signal to noise ratio (at 30 % mod., 1 mV input)48 dB

Output level/impedance (30 % mod., 1 mV input)

.....0.18 V / 1 k Ω

General

Power consumption45 W

DimensionsW : 200 mm

H : 77 mm

D : 278 mm

Weight (net)3.0 kg



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Sufficient performance may not be exhibited at extremely cold locations (where water freezes.).

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.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic de Panama

KENWOOD ELECTRONICS U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB., United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Meachelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001499 074)

P.O. Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane #02-02, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1 46300 Petaling Jaya Selangor Darul Ehsan Malaysia