

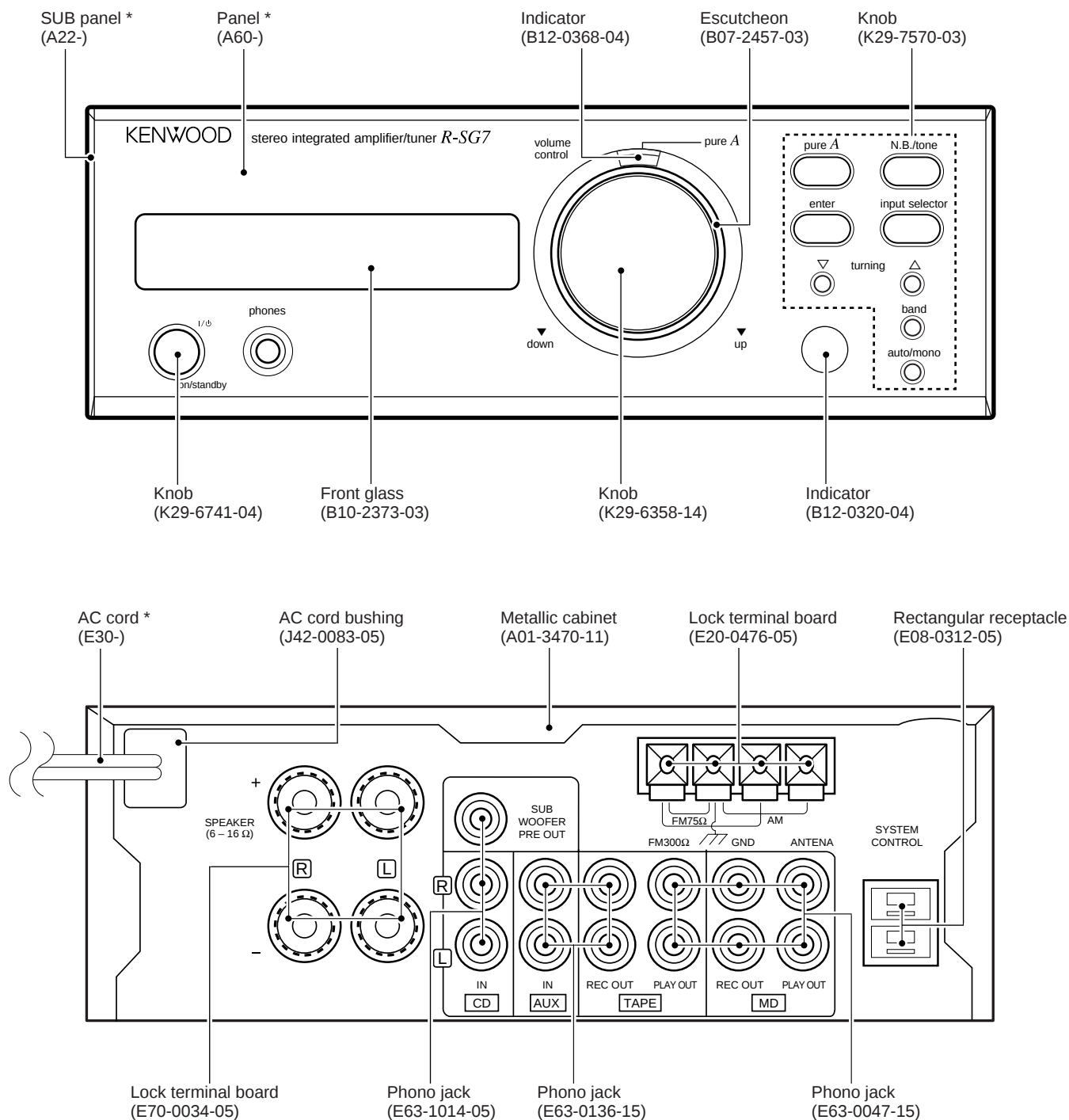
STEREO INTEGRATED AMPLIFIER/TUNER

R-SG7/SG7G

SERVICE MANUAL

KENWOOD

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* Refer to parts list on page 23.



R-SG7/SG7G

CONTENTS / ACCESSORIES

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Accessories

AM loop antenna (1)
(T90-0833-05)

AM loop antenna stand (1)
(J19-3645-05)

FM indoor antenna (1)
(T90-0801-15) : M
(T90-0809-05) : ET

Batteries (R6/AA) (2)

Audio cords (2)
(E30-0615-05)

System control cord (1)
(E30-2628-05)

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

Remote control unit (1)
(A70-1154-05) : M RC-SE9
(A70-1155-05) : TE RC-SE9(E)

Battery cover (A09-0356-08)

KENWOOD

I/ψ

SLEEP

TAPE

DISPLAY

■

▲

▼

3

2

1

6

5

4

9

8

7

0

+10

O.T.E.

EDIT

P.MODE

CLEAR

RANDOM

CD

MB

CALL

TUNER BAND

VOLUME CONTROL

MUTE

N.B.

INPUT

REMOTE CONTROL UNIT
RC-SE9

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

- Please note that resetting the microcomputer clears the contents stored in it returns it to condition when it left the factory.

R-SG7

Pull the power plug from the receptacle, and then plug it in again while keeping the "on/standby" key pressed.

CIRCUIT DESCRIPTION

1. INITIAL STATE

(1) AMP related block

- POWEROFF
- SELECTOR SOURCETUNER
- DISPLAYSELECTOR
- N.B.CIRCUITOFF
- A CLASS VOLUME VALUE
.....1.80 STEP
- AB CLASS VOLUME VALUE
.....9 STEP
- PURE A MODE.....NORMAL(AB CLASS)
- AUTO POWER SAVE.....OFF

(2) TUNER related block

- BANDFM
- P.CH MEMORYLAST FREQUENCY
- LAST P.CH01ch
- RDS DATA TABLE MEMORY
.....NO DATA
- RECEIVING FREQUENCY
.....LOWER LIMIT
VALUE OF
RECEIVING FREQUENCY
FM : 87.5MHz
AM : 531kHz
- AUTO/MANUALAUTO
- EON THRUST RECEIVING MODE
.....OFF

(3) TIMER related block

- CLOCKSTOP(AM12:00)
- PROGR.....WORKIG MODE (OFF)
CONTENTS OF PROGRAM
.....ON=AM12:00
OFF=AM12:00
PLAY MODE=PLAY
SELECTOR=TUNER(1ch)
REC MODE=TAPE
- O.T.T.....WORKING MODE (OFF)
O.T.T.ON TIME.....AM7:00

2. INITIALIZING

2-1 The method of the initializing

The system is initialized when the power is turned on while pressing the [ON/STANDBY] key.

(1) Contents of the operation

- All the functions are initialized.

3. BACK UP

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(CE) of a microcomputer is set low when the AC power is turned OFF. The micro-computer 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.

- The data for backup state confirmation is written in a RAM area.
- The microcomputer is set to the stop mode so as to save the power consumption.
- A backup state set command signal is detected by a timer interrupt of 1 msec.
- The backup guarantee period is set in a circuit.

(2) Contents of backup data to be held

... .. AMP

- POWER ON/OFF
- DISPLAY MODE
- SELECTOR SOURCE
- N.B.CIRCUIT MODE
- A CLASS VOLUME VALUE
- AB CLASS VOLUME VALUE
- PURE A MODE
- AUTO POWER SAVE ON/OFF

... .. TUNER

- LAST BAND
- PRESET CHANNEL/RECEIVING FREQUENCY/PI/TA/PT/PS
- LAST RECEIVING FREQUENCY AND PRESET CHANNEL (AM/FM)
- PRESET MEMORY DATA(1ch~40ch)
- AUTO/MANUAL
- EON THRUST RECEIVING FREQUENCY

... .. CLOCK/TIMER

- LAST CLOCK DATA
- PROGRAMMED CONTENTS/PROGRAM TIMER WORKING MODE ON/OFF
- O.T.T. SETTING TIME/WORKING MODE ON/OFF

4. CONDITIONS ACCORDING TO THE DESTINATION

4-1 Destination list of tuner

Desti- nation	Band	Receiving frequency range	Channel space	IF	PLL reference frequency	DIOLE SW	
						DSW1 (D519)	DSW2 (D518)
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	E1 changes by only setting " DSW1". (DSW1 0,E1)					X	1

*DIOLE SW(DSW) : 0 Without diode(when static, input low)
1 With diode(when static, input high)
X Switching transistor

CIRCUIT DESCRIPTION

5. TEST MODE

5-1 AMP test mode using main unit's keys

- Entering the AMP test mode
Turn on the power while pressing the[BAND] key.
- Canceling the AMP test mode
By turning off the power, the system is initialized and the test mode is canceled.

5-1-1 Contents of AMP test mode

- (1) Automatic on/standby ON
 - The POWER ON state is entered when 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 ERR1 and ERR2 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, all- lighting mode is canceled when any main unit's key is pressed. The normal display is 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 key's except described below and the rotary encoder provide the normal operation.

(4) When selector is set toTUNER

Keys	Operation
PURE A	Increase the P.CALL every time this key is pressed.
N.B./TONE	Decrease the P.CALL every time this key is pressed.
ENTER	Selects the display cyclically in the order below every time this key is pressed.

- ① 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 the different from the later, RAM NG is displayed.
- ② 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.)

- ③ Set the TUNER ATT to ON and the display 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 then ENTER are pressed in items ① to ③ above, the TUNER ATT is set to OFF and the normal display appears. The operation corresponding to the key that has been pressed performed in this case.

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

① ENTER and PURE A keys.

The master volume level is selected cyclically, while pressing the [ENTER] key.

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

② AUTO/MONO key.

Selects the mute operation and equalizer cyclically in the order below for operation display every time this key is pressed.

KEY	OPERATION
AUTO/MONO	

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

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

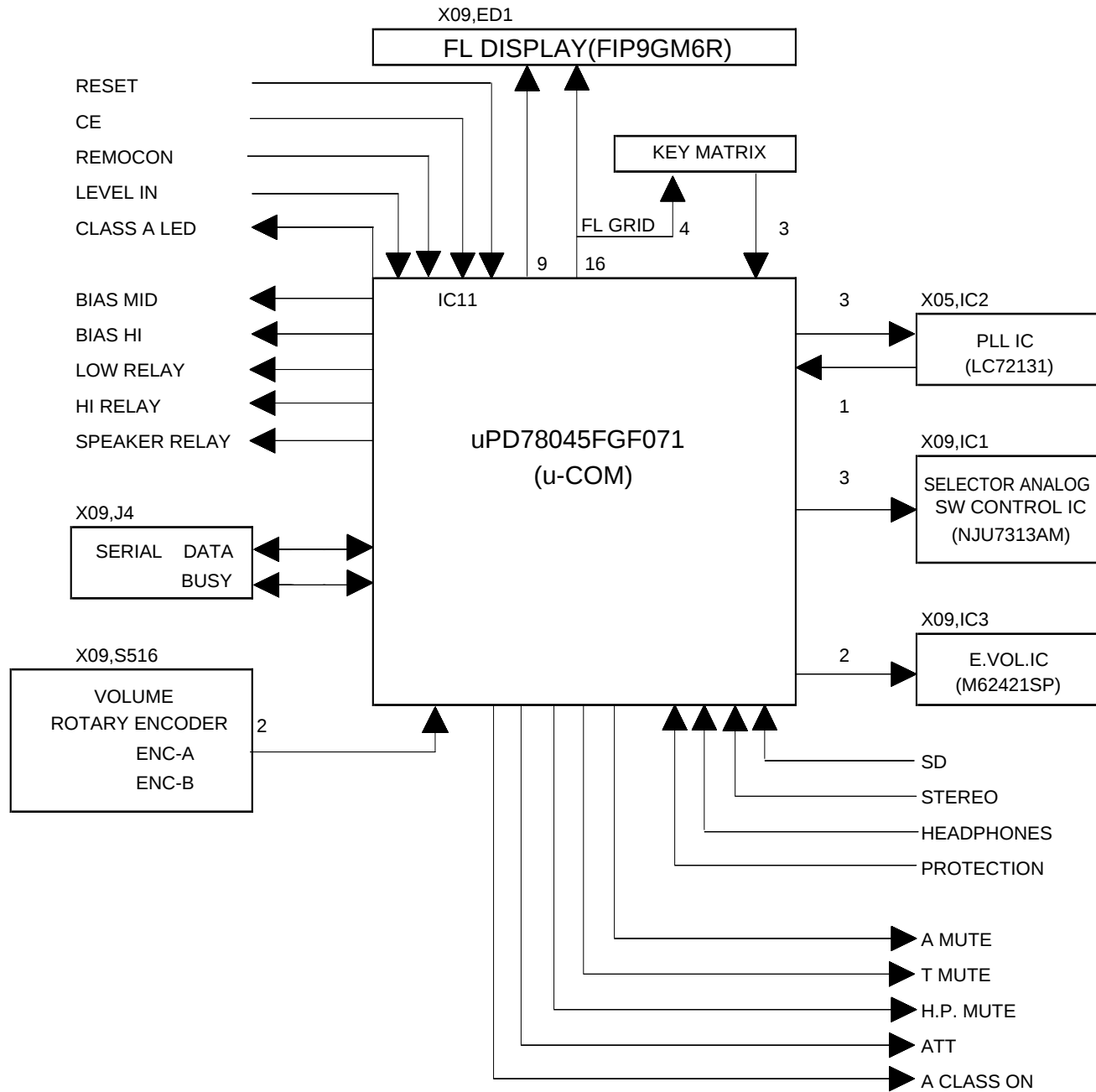
③ BAND and tuning UP/DOWN keys.

KEYS	OPERATION
BAND	Every time this key is pressed, all the displays go off and the normal display is selected cyclically.
TUNING UP/DOWN	

CIRCUIT DESCRIPTION

6. Microprocessor : uPD78045FGF071(X09-IC11)

6-1 Microprocessor periphery block diagram



Key matrix

○ signifies pin number of microprocessor.

	KR0 ⑥0	KR1 ⑤9	KR2 ⑤8
KS0 ⑥4		DSW1(D519)	DSW2(D518)
KS1 ⑥3	POWER	AUTO/MONO	BAND
KS2 ⑥2	N.B. CIRCUIT	INPUT SEL.	TUNING UP
KS3 ⑥1	pure A	ENTER	TUNING DOWN

R-SG7/SG7G

CIRCUIT DESCRIPTION

6-2 Pin description

Pin No.	Pin Name	I/O	Description	Active	
1~7	7G~1G	O	FL grid7~1.		
8	VDD	-	Microprocessor power supply (+5V).		
9	E2PROM SCL	I	E2PROM control clock.		
10	E2PROM SDA	I/O	E2PROM control data.		
11,12	NC	-	Unused.		
13	A CLASS ON	O	POWER ON/OFF control signal.	H : ON	L : OFF
14	SEL STB	O	Strobe signal of selector IC.		
15	SEL/PLL/CLK	O	Control clock of SEL/PLL IC.		
16	SEL/PLL/DATA	O	Control data of SEL/PLL IC.		
17	RESET	I	Reset signal of microprocessor.		L : Reset
18	CE	I	Detection signal input for AC OFF.		
19	PLL DO	I	PLL IF count data.		
20	AVss	-	A/D power supply(GND).		
21	PLL CE	O	Chip enable control of PLL IC.		L : ON
22	T MUTE	O	Output terminal of muting signal for TUNER.		L : ON
23	STEREO	I	Stereo signal input for TUNER.		L : Stereo ON
24	SD	I	Synchronized signal detection input.		
25	VOL SCL	O	Control clock of E. volume IC.		
26	VOL DATA	O	Control data of E. volume IC.		L : CE
27	LEVEL IN	I	Volume level input.	H : ON	L : OFF
28	S LEVEL	I	Signal level input.(E/T type only)		
29	A Vdd	-	A/D power supply(+5V).		
30	A VREF	-	A/D reference voltage(+5V).		
31	CLOCK	-	32.768kHz oscillator.		
32	CLOCK	-	32.768kHz oscillator.		
33	Vss	-	Microprocessor power supply(GND).		
34	MAIN COLCK	-	4.19MHz oscillator.		
35	MAIN COLCK	-	4.19MHz oscillator.		
36	S DATA	I/O	16 bit system data.		
37	S BUSY	I/O	16 bit system busy.	H : BUSY	L : READY
38	H.P. MUTE	O	Muting signal input of headphones.		L : ON
39	ATT	O	Attenuator control.		L : ON
40	A MUTE	O	Audio muting signal control.		L : ON
41	LOW RELAY	O	Amplifier low relay control.	H : ON	L : OFF
42	HI RELAY	O	Amplifier high relay control.	H : ON	L : OFF
43	SP RELAY	O	Speaker relay control.		
44,45	NC	I	Unused.		
46	PROTECTION	I	Detection signal input of protection.	H : ON	L : OFF
47	REMOCON	I	Remote control input.		
48	IC(VPP)GND	-	Connected to VSS.		
49	CLASS A LED	O	Control signal output of class A LED.		L : ON
50	BIAS A MID	O	Bias control signal(MID) output.		
51	BIAS B HI	O	Bias control signal(HI) of class A LED.		
52	Vdd	-	Microprocessor power supply(+5V).		
53	ENC A	I	Volume encoder (A) input.		
54	ENC B	I	Volume encoder (B) input.		
55	HEAD PHONES	I	Detection signal input of headphones.	H : ON	L : OFF
56,57	-	O	Unused.		
58~60	KR2~KR0	I	Key return input(KR2~KR0).	H : Key ON	
61~64	P16~13/KS3~0	O	FL segment(6~13)/key scan(KS3~KS0).	H : ON	
65~70	P12~P7	O	FL segment(12~7) control.	H : ON	
71	VLOAD	-	FL driver power supply(-30V).		
72~77	P6~P1	O	FL segment(6~1) control.	H : ON	
78	NC	-	Unused.		
79,80	9G,8G	O	FL grid(9G,8G) control.		

ADJUSTMENT

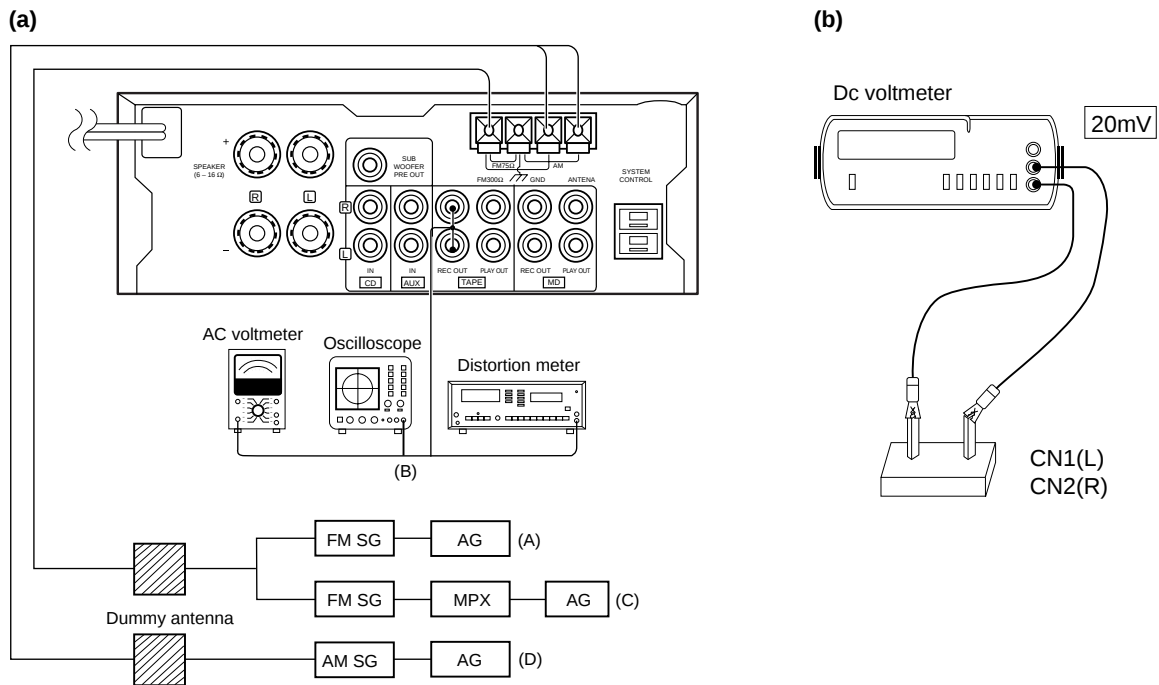
FM SECTION SELECTION :FM X05-4882-70 (E/T TYPE)

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)

X05-488X(E/T)/486X(M)

No.	ITEM	INPUT SETTING	OUTPUT SETTING	TUNER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	TUNED LEVEL	(A) 98.0MHz MONO 1 kHz, ± 75 kHz dev. 30dBu ± 10 dB (ANT input)	(B)	MONO 98.0MHz	VR1	Adjust VR1 and stop at the point where EDI (TUNED) goes ON.	(a)

SYSTEM CONNECTIONS

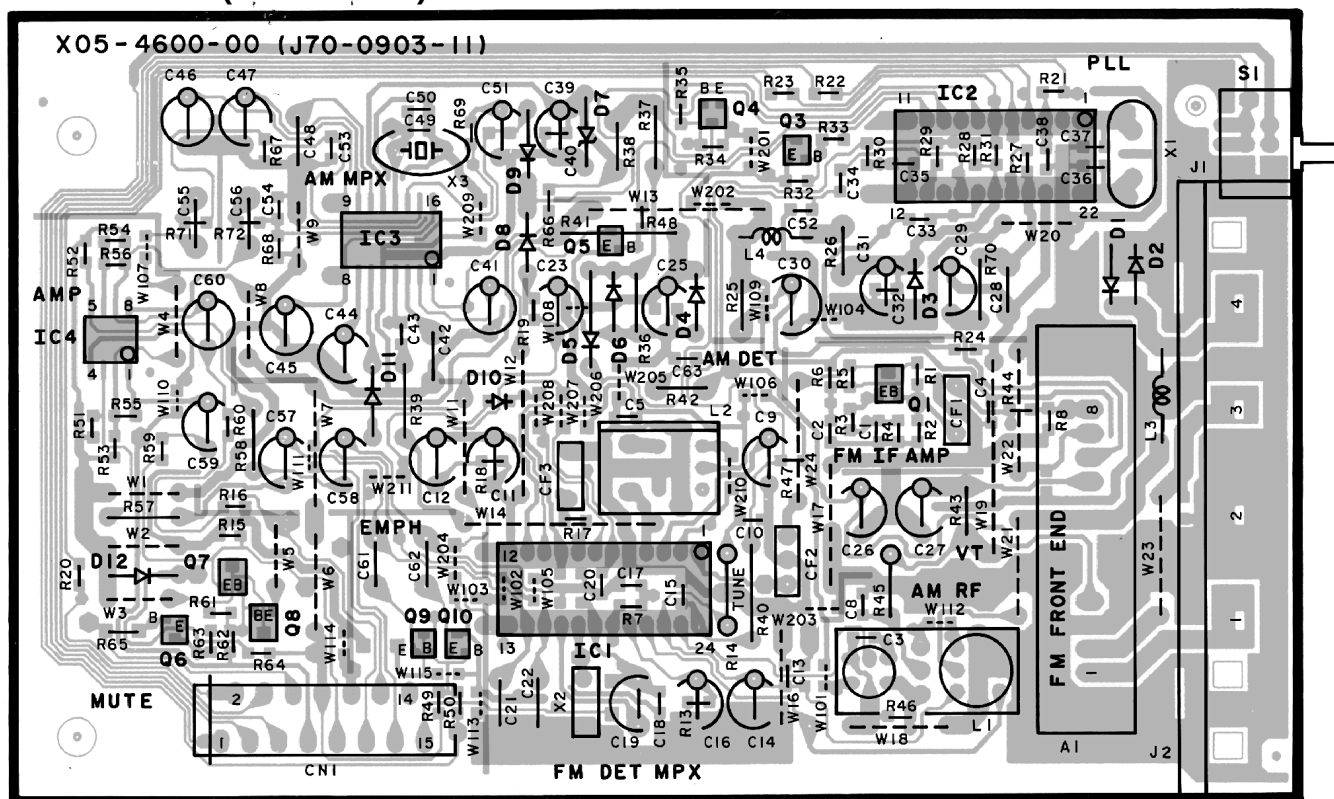


AUDIO SECTION (X09-496x-xx)

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)

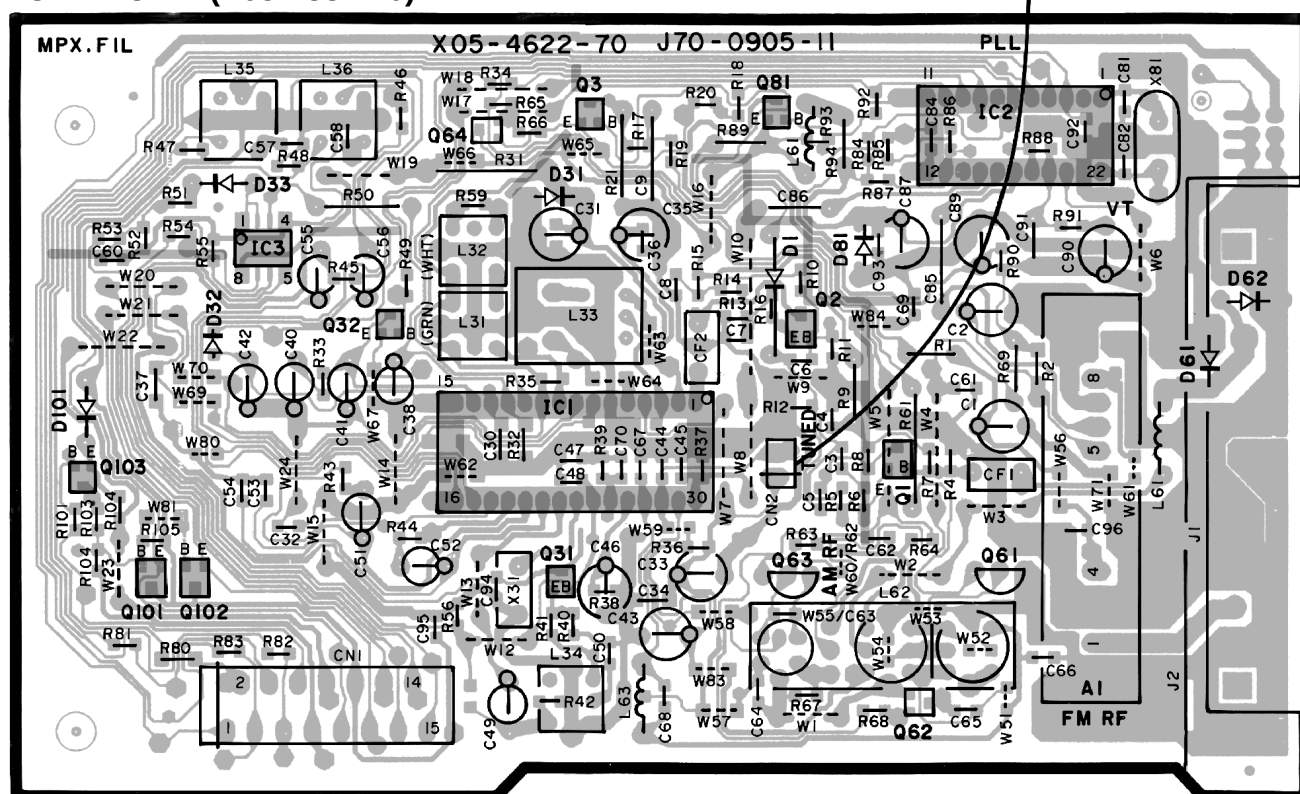
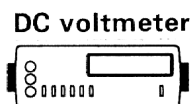
PC BOARD (Component side view)

TUNER UNIT (X05-4860-71) : M



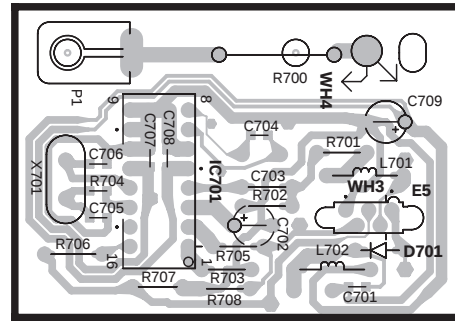
TUNER UNIT (X05-4882-70) : ET

Discriminator : 0V

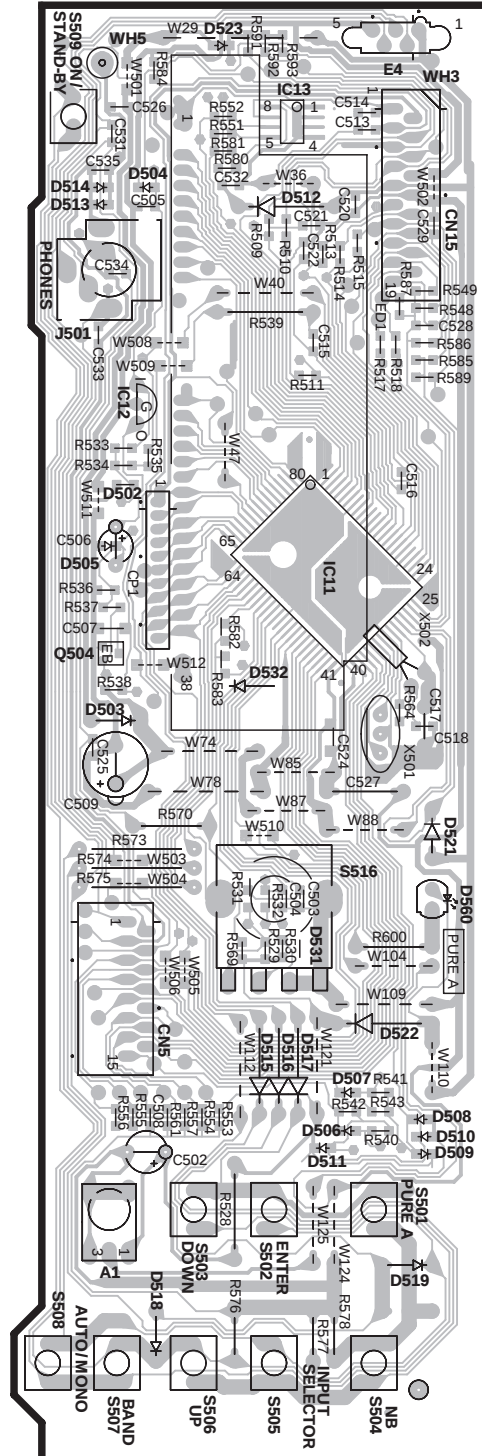


PC BOARD(Component side view)

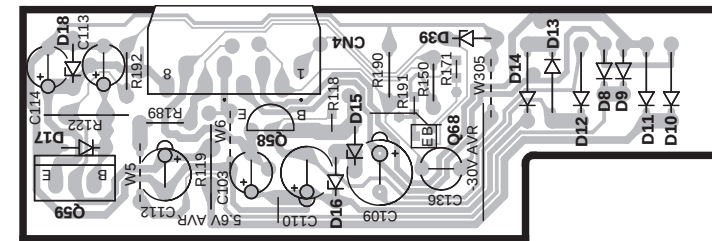
X09 E/7



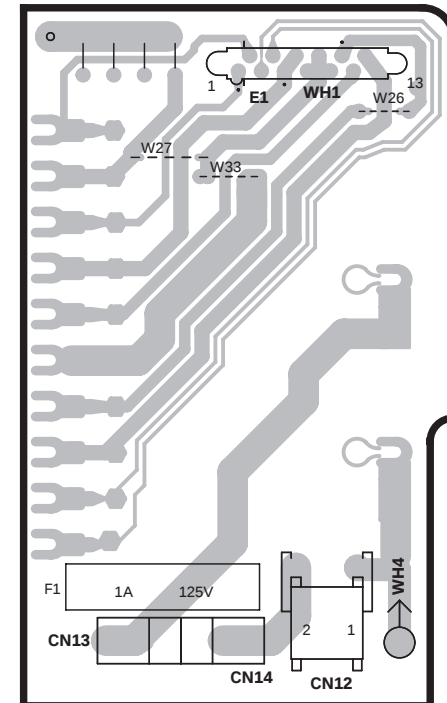
X09 D/7



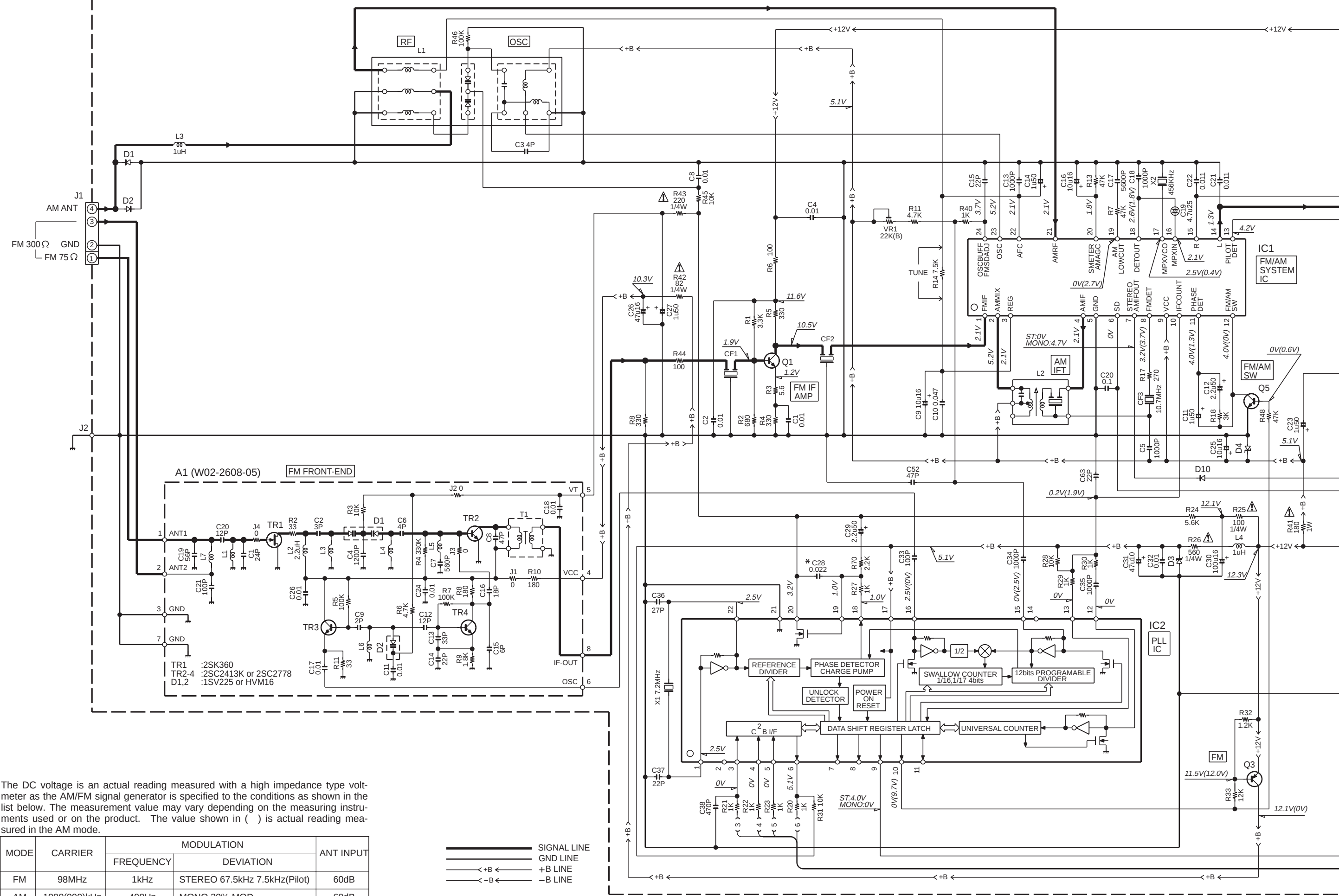
X09 C/7



X09 B/7



TUNER UNIT (X05-4860-71) : M TYPE



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

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

(X05-4860-71): M TYPE

IC1 : LA1832
 IC2 : LC72131
 IC4 : NJM4565M
 Q1 : 2SC2714(R,O)
 Q3 : 2SB1218A(Q,R) or
 2SA1576A(R,S)
 Q5 : 2SD1819A(Q,R) or
 2SC4081(R,S)
 D1,2,8 : 1SS133 or
 HSS104
 D3,4 : MTZJ5.1(B) or
 HZS5.1NN(B2)
 D10 : MA111

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

UN5219
 2SA1576A
 2SB1218A
 2SC2714
 2SD1819A

2SC4137

2SC4081

NJM4565D-D

M5219P

NJM4565M

M5223FP

LA1836

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

LC72131

NJU7313AM

NJM4565L-D

LA1832

X24C04S

SAA6579

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.

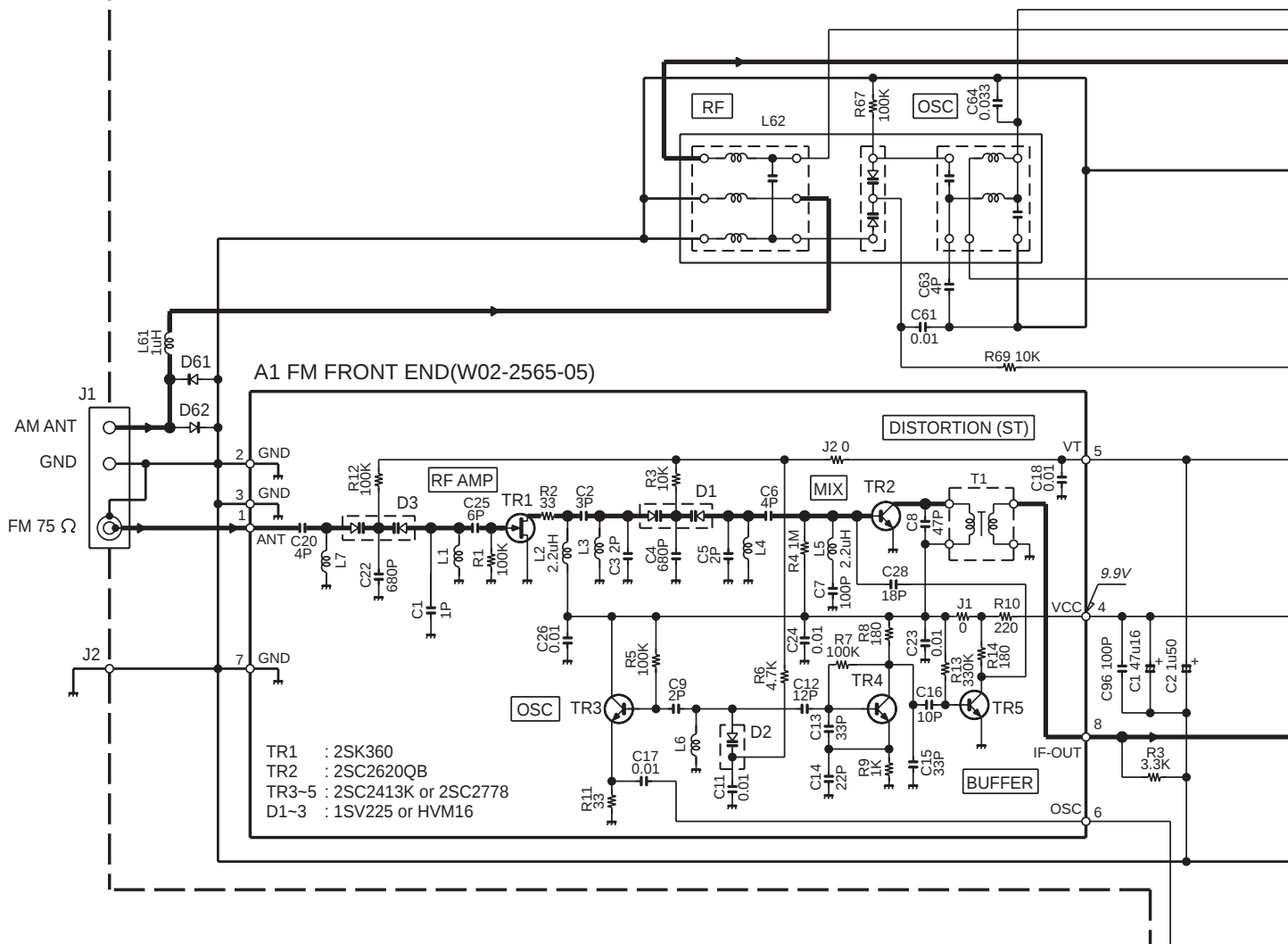
R-SG7/SG7G (1/3)

Y05-3960-21

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TUNER UNIT (X05-4882-70) : (E,T)TYPE



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 : 2SB1218A(Q,R) or 2SA1576(R,S)
 Q31,32 : 2SD1819A(Q,R) or 2SC4081(R,S)
 Q101,102 : 2SD2114K

D1,33,61,62 : 1SS133 or HSS104
 D31 : MTZJ8.2(B) or HZS8.2N(B2)
 D32 : MA111
 D81 : MTZJ5.1(B) or HZS5.1N(B2)
 D101 : MTZJ3.3(B) or HZS3.3N(B2)

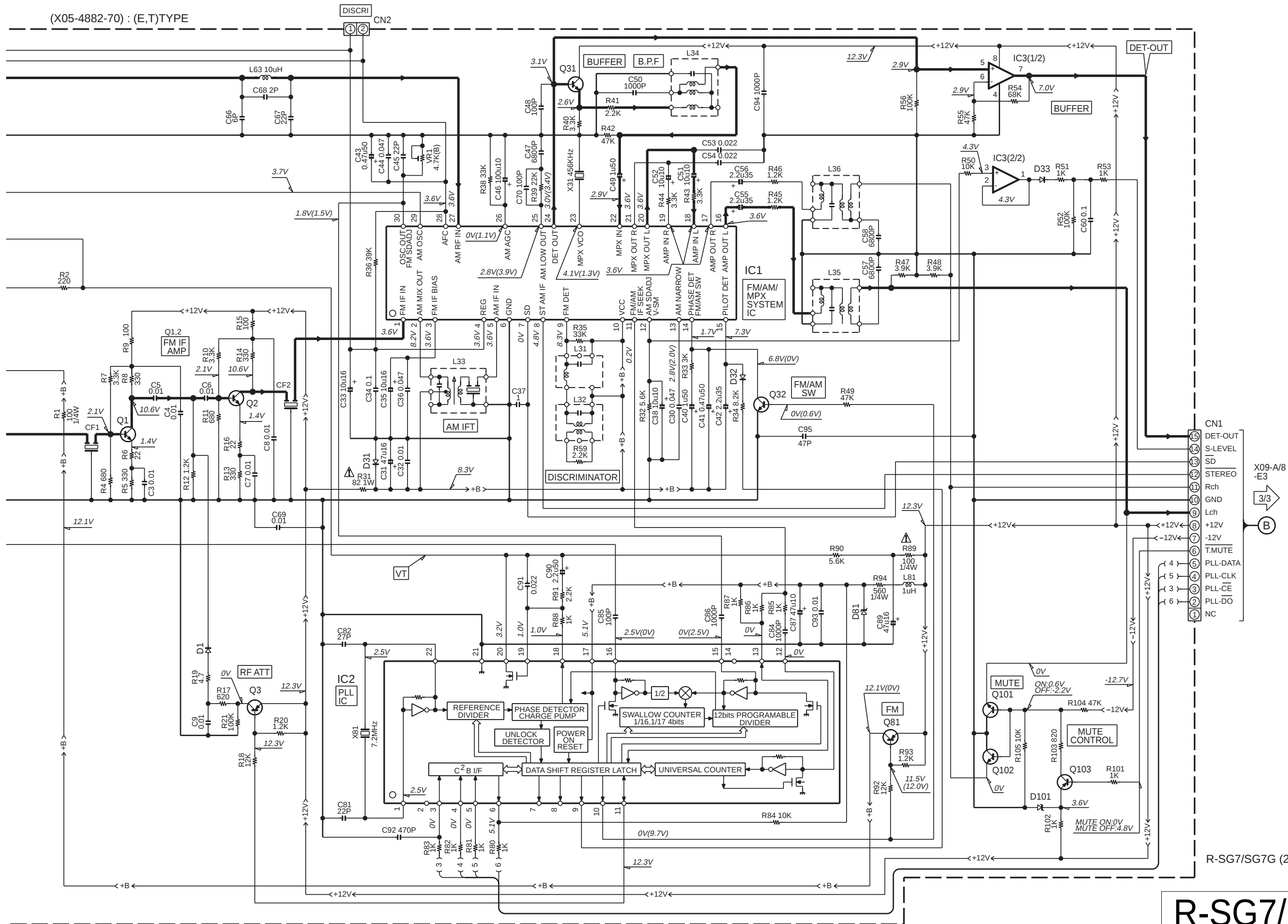
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock,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

— SIGNAL LINE
 — GND LINE
 — +B LINE
 — -B LINE

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

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

(X05-4882-70) : (E,T)TYPE

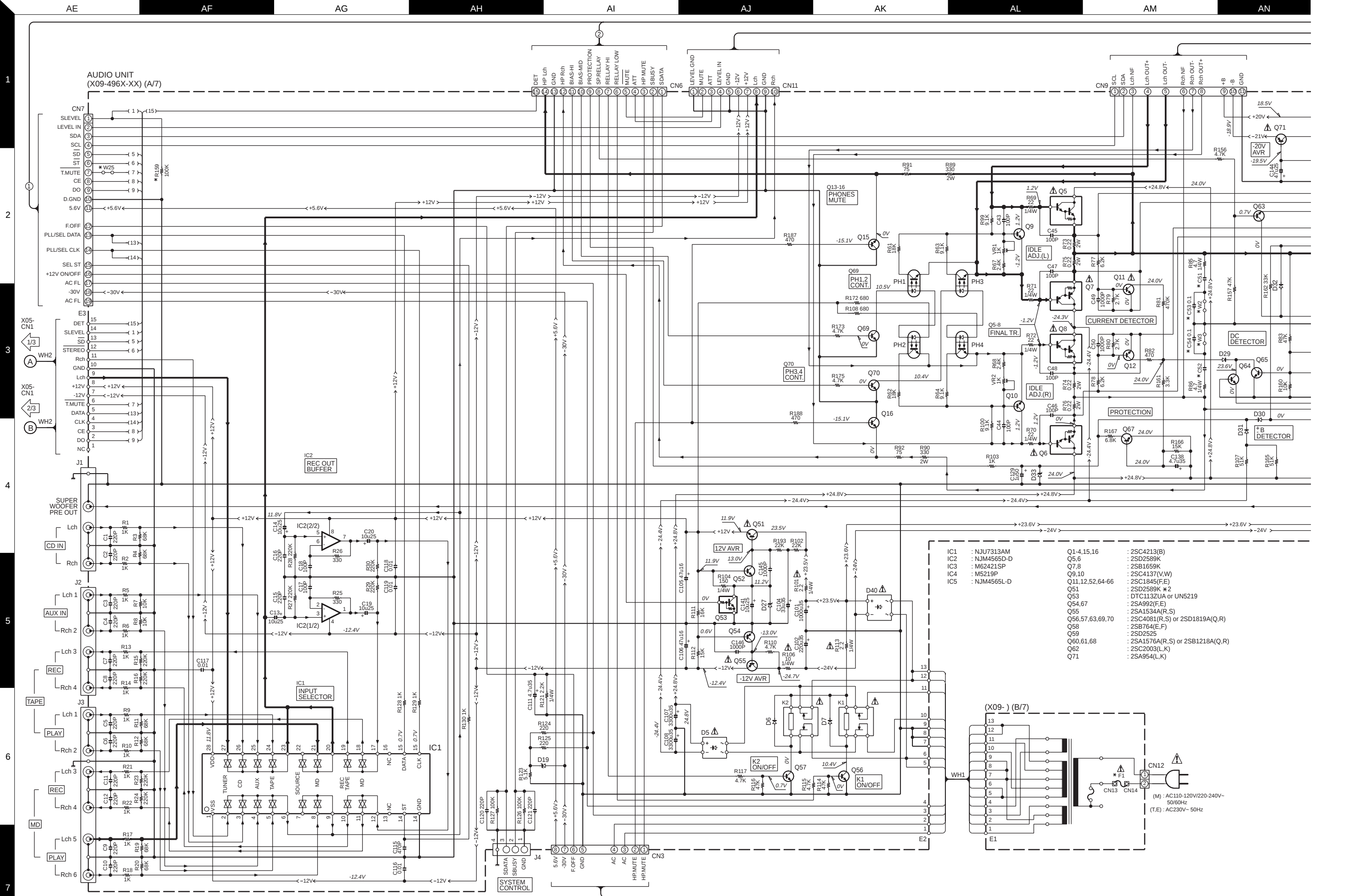


R-SG7/SG7G (2/3)

R-SG7/SG7G

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Y05-3960-21



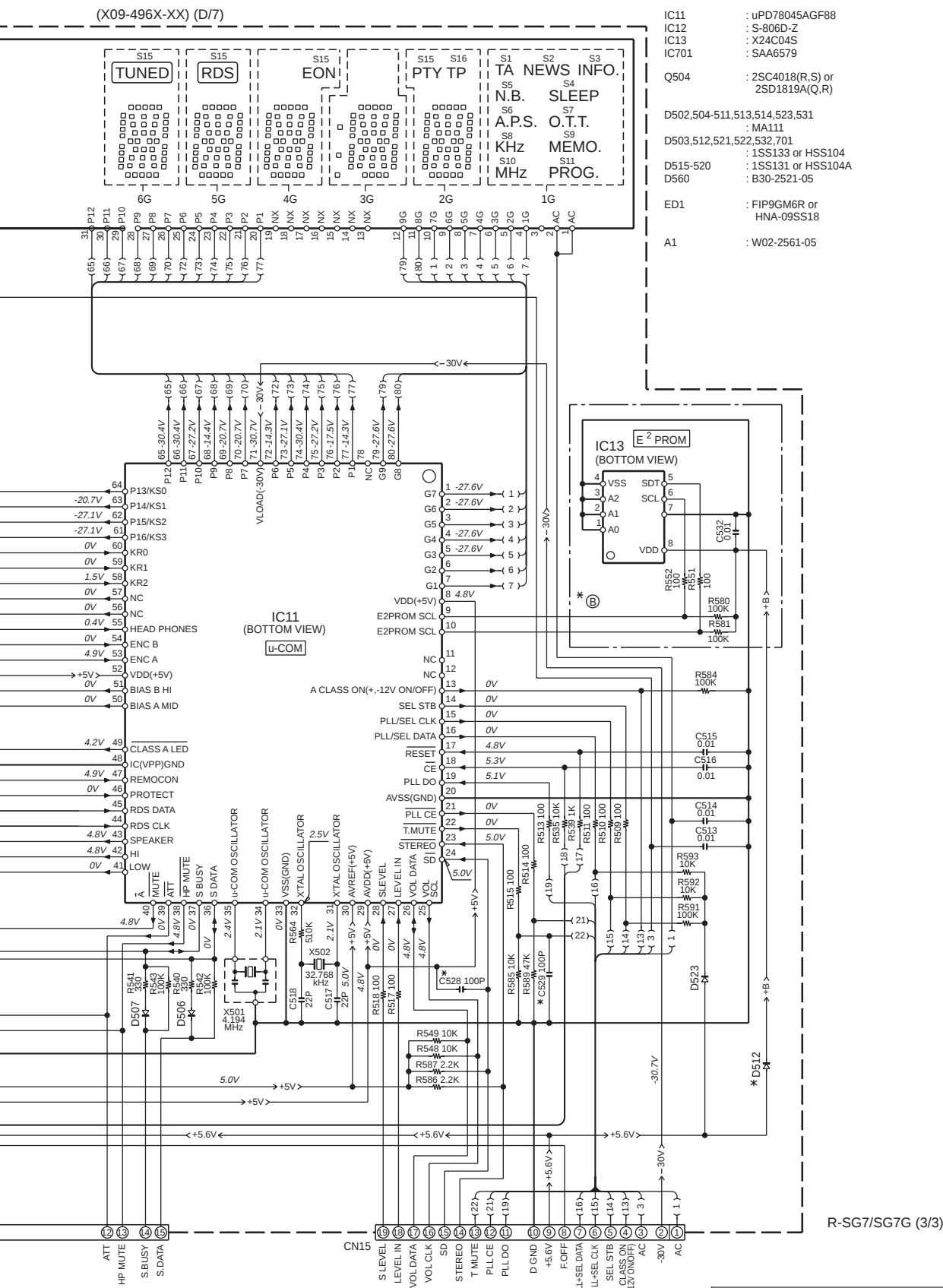
R-SG7 (X09-496X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	D512, 519	D518	C526, 528	C529	W503-506
JAPAN	J		0-01	NO	NO	NO	NO	YES	NO	NO
JAPAN	J2		0-01	NO	NO	NO	NO	YES	NO	NO
U.K.	T		2-72	YES	YES	NO	NO	YES	YES	YES
EUROPE	E		2-72	YES	YES	NO	NO	YES	YES	YES

R-SG7G (X09-496X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	(B)	D512, 519	D518	C526, 528	C529	W503-506
JAPAN	J		0-01	NO	NO	NO	NO	YES	NO	NO
GENERAL MARKET	M		0-22	NO	NO	YES	NO	NO	NO	NO

(X09-496X-XX) (D/7)



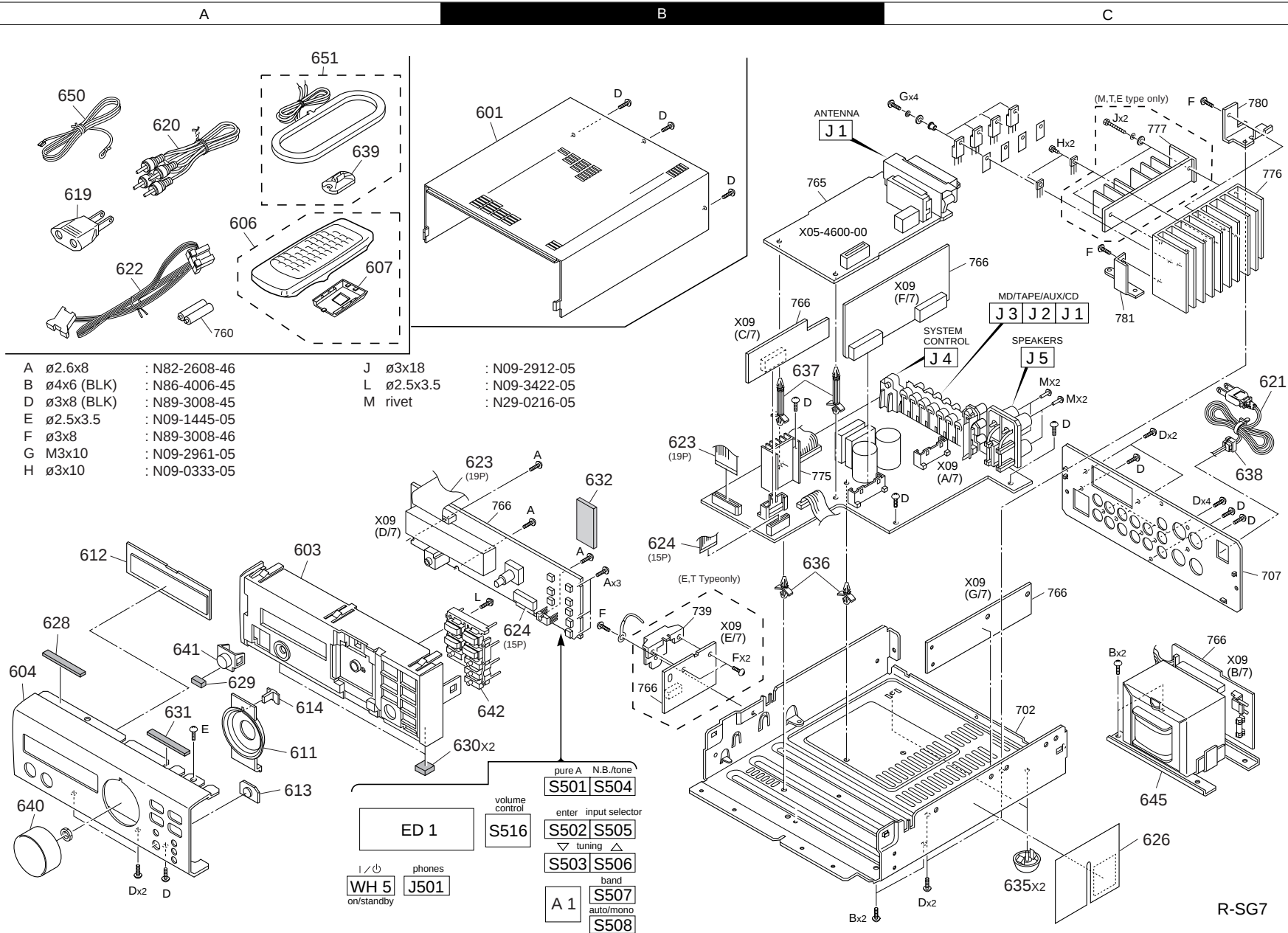
R-SG7/SG7G (3/3)

R-SG7/SG7G

Y05-3960-21

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EXPLODED VIEW (UNIT)



R-SG7

* 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-SG7/SG7G M: R-SG7G						
601	1B	*	A01-3470-11	METALLIC CABINET	TE M TE M	
603	2A		A22-1783-11	SUB PANEL		
603	2A	*	A22-1826-01	SUB PANEL		
604	2A	*	A60-1677-03	PANEL		
604	2A	*	A60-1678-03	PANEL		
606	1A		A70-1154-05	REMOTE CONTROLLER ASSY	M	TE
606	1A		A70-1155-05	REMOTE CONTROLLER ASSY	TE	
607	1A		A09-0356-08	BATTERY COVER		
611	2A	*	B07-2457-03	ESCUTCHEON	TE	
612	2A		B10-2373-03	FRONT GLASS		
613	2A		B12-0320-04	INDICATOR		
614	2A	*	B12-0368-04	INDICATOR		
-			B46-0310-03	WARRANTY CARD		
-		*	B58-1647-04	CAUTION CARD	T E E E	
-		*	B60-4358-00	INSTRUCTION MANUAL(EN)		
-		*	B60-4359-00	INSTRUCTION MANUAL(FR)		
-		*	B60-4360-00	INSTRUCTION MANUAL(GE)		
-		*	B60-4361-00	INSTRUCTION MANUAL(NE)		
-		*	B60-4362-00	INSTRUCTION MANUAL(IT)	E	M
-		*	B60-4363-00	INSTRUCTION MANUAL(ES)	E	
-		*	B60-4364-00	INSTRUCTION MANUAL(TC)	M	
Δ 619	1A		E03-0115-05	AC PLUG ADAPTER	M	ME T
620	1A		E30-0615-05	AUDIO CORD		
Δ 621	1C		E30-2592-15	AC POWER CORD		
Δ 621	1C		E30-2721-05	AC POWER CORD	M TE	
622	1A		E30-2628-05	CORD WITH CONNECTOR		
623	1B		E35-2007-05	FLAT CABLE (19P)		
623	1B		E35-2077-05	FLAT CABLE (19P)	T ME T	
624	2B		E35-2078-05	FLAT CABLE (15P)		
626	2C		F19-1080-04	SHIELDING PLATE		
628	2A		G11-2389-04	CUSHION	E M T	
629	2A		G11-2390-04	CUSHION		
630	2B		G11-2391-04	CUSHION		
631	2A		G11-2403-04	CUSHION		
632	1B		G11-2417-04	CUSHION		
-			H10-7462-02	POLYSTYRENE FOAMED FIXTURE	T ME T	
-			H10-7463-02	POLYSTYRENE FOAMED FIXTURE		
-			H12-2298-14	PACKING FIXTURE		
-			H25-1579-04	PROTECTION BAG		
-			H25-1581-04	PROTECTION BAG		
-			H25-1595-04	PROTECTION BAG	E M T	
-		*	H50-3414-04	ITEM CARTON CASE		
-		*	H50-3417-14	ITEM CARTON CASE		
-		*	H50-3453-04	ITEM CARTON CASE		
635	2C		J02-0370-05	FOOT		
636	2B		J19-3331-05	UNIT HOLDER	Δ	
637	1B		J19-5877-05	UNIT HOLDER		
638	1C		J42-0083-05	POWER CORD BUSHING		
639	1A		J19-3645-05	AMTENNA STAND		
-			J61-0307-05	WIRE BAND		

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②

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640	2A	*	K29-6358-14	KNOB		TE	M
641	2A		K29-6741-04	KNOB			
642	2B		K29-7570-03	KNOB			
645	2C		L07-2386-05	POWER TRANSFORMER			
645	2C		L07-2415-05	POWER TRANSFORMER			
650	1A		T90-0801-05	LEAD WIRE ANTENNA		M	
650	1A		T90-0809-05	LEAD WIRE ANTENNA		TE	
651	1A		T90-0833-05	LOOP ANTENNA			
TUNER UNIT (X05-4860-71)							
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			CE04LW1C100M	ELECTRO	10UF	16WV	
C10			CK73FB1H473K	CHIP C	0.047UF	K	
C11			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C12			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	
C13			CK73FB1H102K	CHIP C	1000PF	K	
C14			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C15			CC73FCH1H220J	CHIP C	22PF	J	
C16			CE04LW1C100M	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	
C23			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C25			CE04LW1C100M	ELECTRO	10UF	16WV	
C26			CE04LW1C470M	ELECTRO	47UF	16WV	
C27			CE04LW1H010M	ELECTRO	1.0UF	50WV	
C28			CQ93FMG1H223J	MYLAR	0.022UF	J	
C29			CE04LW1H2R2M	ELECTRO	2.2UF	50WV	
C30			CE04LW1C101M	ELECTRO	100UF	16WV	
C31			CE04LW1A470M	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			CE04LW1C100M	ELECTRO	10UF	16WV	
C63			CC73FCH1H220J	CHIP C	22PF	J	
CN1			E40-4609-05	PIN ASSY			
J1			E20-0476-05	LOCK TERMINAL BOARD(4P)			
J1			E70-0051-05	LOCK TERMINAL BOARD			
J2			F10-0945-04	SHIELDING PLATE			
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)			

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X1 X2			L77-1122-05 L78-0637-05	CRYSTAL RESONATOR(7.2MHZ) RESONATOR (456KHZ)		
R1 R2 R3 R4 ,5 R6			RK73FB2A332J RK73FB2A681J RK73FB2A5R6J RK73FB2A331J RK73FB2A101J	CHIP R 3.3K J 1/10W CHIP R 680 J 1/10W CHIP R 5.6 J 1/10W CHIP R 330 J 1/10W CHIP R 100 J 1/10W		
R7 R8 R11 R13 R15 ,16			RK73FB2A473J RK73FB2A331J RK73FB2A472J RK73FB2A473J RK73FB2A393J	CHIP R 47K J 1/10W CHIP R 330 J 1/10W CHIP R 4.7K J 1/10W CHIP R 47K J 1/10W CHIP R 39K J 1/10W		
R17 R18 R19 R20 -23 R24			RK73FB2A271J RK73FB2A302J RK73FB2A822J RK73FB2A102J RK73FB2A562J	CHIP R 270 J 1/10W CHIP R 3.0K J 1/10W CHIP R 8.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 5.6K J 1/10W		
Δ R25 Δ R26 R27 R28 R29 ,30			RD14NB2E101J RD14NB2E561J RK73FB2A102J RK73FB2A103J RK73FB2A102J	RD 100 J 1/4W RD 560 J 1/4W CHIP R 1.0K J 1/10W CHIP R 10K J 1/10W CHIP R 1.0K J 1/10W		
R31 R32 R33 Δ R41 Δ R42			RK73FB2A103J RK73FB2A122J RK73FB2A123J RS14KB3A181J RD14NB2E820J	CHIP R 10K J 1/10W CHIP R 1.2K J 1/10W CHIP R 12K J 1/10W FL-PROOF RS 180 J 1W RD 82 J 1/4W		
Δ R43 R44 R46 R48 R51 -54			RD14NB2E221J RK73FB2A101J RK73FB2A104J RK73FB2A473J RK73FB2A473J	RD 220 J 1/4W CHIP R 100 J 1/10W CHIP R 100K J 1/10W CHIP R 47K J 1/10W CHIP R 47K J 1/10W		
R55 ,56 R59 ,60 VR1 W101-106 W108-114			RK73FB2A154J RK73FB2A332J R32-0038-05 R92-0670-05 R92-0670-05	CHIP R 150K J 1/10W CHIP R 3.3K J 1/10W SEMI FIXED VARIABLE RESISTOR CHIP R 0 OHM CHIP R 0 OHM		
W118 W121 W201-211			R92-0670-05 R92-0670-05 R92-0679-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM		
D1 ,2 D1 ,2 D3 ,4 D3 ,4 D8			HSS104 1SS133 HZS5.1N(B2) MTZJ5.1(B) HSS104	DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
D8 D10 IC1 IC2 IC4			1SS133 MA111 LA1832 LC72131 NJM4565M	DIODE DIODE ANALOGUE IC MOS-IC ANALOGUE IC		
Q1 Q3 Q3 Q5			2SC2714(R,O) 2SA1576A(R,S) 2SB1218A(Q,R) 2SC4081(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q5 A1			2SD1819A(Q,R) W02-2608-05	TRANSISTOR FM FRONT-END ASSY		
TUNER UNIT (X05-4882-70)						
C1 C2 C3 -8 C9 C30			CE04LW1C470M CE04LW1H010M CK73FB1H103K C91-0769-05 CK73EB1E473K	ELECTRO 47UF 16WV ELECTRO 1.0UF 50WV CHIP C 0.010UF K CERAMIC 0.010UF K CHIP C 0.047UF K		
C31 C32 C33 C34 C35			CE04LW1C470M CK73FB1H103K CE04LW1C100M CK73EB1E104K CE04LW1C100M	ELECTRO 47UF 16WV CHIP C 0.010UF K ELECTRO 10UF 16WV CHIP C 0.10UF K ELECTRO 10UF 16WV		
C36 C37 C38 C40 C41			CK73FB1E473K CK73EF1E105Z C90-3217-05 C90-3253-05 C90-3251-05	CHIP C 0.047UF K CHIP C 1.0UF Z ELECTRO 10UF 10WV ELECTRO 1.0UF 50WV ELECTRO 0.47UF 50WV		
C42 C43 C44 C45 C46			C90-3240-05 CE04LW1HR47M CK73FB1E473K CC73FCH1H220J CE04LW1A101M	ELECTRO 2.2UF 35WV ELECTRO 0.47UF 50WV CHIP C 0.047UF K CHIP C 22PF J ELECTRO 100UF 10WV		
C47 C48 C49 C50 C51 ,52			CK73FB1H682K CC73FSL1H101J C90-3253-05 CK73FB1H102K C90-3217-05	CHIP C 6800PF K CHIP C 100PF J ELECTRO 1.0UF 50WV CHIP C 1000PF K ELECTRO 10UF 10WV		
C53 ,54 C55 ,56 C57 ,58 C60 C61			CK73FB1H223K C90-3240-05 CK73FB1H682K CK73FB1E104K CK73FB1H103K	CHIP C 0.022UF K ELECTRO 2.2UF 35WV CHIP C 6800PF K CHIP C 0.10UF K CHIP C 0.010UF K		
C63 C64 C66 C67 C68			CC73FCH1H040C CK73FB1H333K CC73FCH1H060D CC73FCH1H220J CC73FSL1H020C	CHIP C 4.0PF C CHIP C 0.033UF K CHIP C 6.0PF D CHIP C 22PF J CHIP C 2.0PF C		
C69 C70 C81 C82 C84			CK73FB1H103K CC73FSL1H101J CC73FCH1H220J CC73FCH1H270J CK73FB1H102K	CHIP C 0.010UF K CHIP C 100PF J CHIP C 22PF J CHIP C 27PF J CHIP C 1000PF K		
C85 C86 C87 C89 C90			C91-0745-05 C91-0757-05 CE04LW1A470M CE04LW1C470M CE04LW1H2R2M	CERAMIC 100PF K CERAMIC 1000PF K ELECTRO 47UF 10WV ELECTRO 47UF 16WV ELECTRO 2.2UF 50WV		
C91 C92 C93 C94 C95			CQ92FM1H223J CC73FSL1H471J CK73FB1H103K CK73FB1H102K CC73FCH1H470J	MYLAR 0.022UF J CHIP C 470PF J CHIP C 0.010UF K CHIP C 1000PF K CHIP C 47PF J		

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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)		
J1			E70-0052-05	LOCK TERMINAL BOARD		
J2			F10-1053-04	SHIELDING PLATE		
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			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)		
R1			RD14NB2E101J	RD 100 J 1/4W		
R2			RK73FB2B221J	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		
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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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		
VR1			R32-0036-05	SEMI FIXED VARIABLE RESISTOR		
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		
W77			R92-0670-05	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			HZS8.2N(B2)	ZENER DIODE		
D31			MTZJ8.2(B)	ZENER DIODE		
D32			MA111	DIODE		
D33			HSS104	DIODE		
D33			1SS133	DIODE		
D61 ,62			HSS104	DIODE		
D61 ,62			1SS133	DIODE		
D81			HZS5.1N(B2)	ZENER DIODE		
D81			MTZJ5.1(B)	ZENER DIODE		
D101			HZS3.3N(B2)	ZENER DIODE		
D101			MTZJ3.3(B)	ZENER DIODE		
IC1			LA1836	ANALOGUE IC		
IC2			LC72131	MOS-IC		
IC3			M5223FP	IC(OP AMP X4)		
Q1 ,2			2SC2714(R,O)	TRANSISTOR		
Q3			2SA1576(R,S)	TRANSISTOR		
Q3			2SB1218A(Q,R)	TRANSISTOR		
Q31 ,32			2SC4081(R,S)	TRANSISTOR		
Q31 ,32			2SD1819A(Q,R)	TRANSISTOR		
Q81			2SA1576(R,S)	TRANSISTOR		
Q81			2SB1218A(Q,R)	TRANSISTOR		
Q101,102			2SD2114K	TRANSISTOR		
Q103			2SA1576(R,S)	TRANSISTOR		

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Q103			2SB1218A(Q,R)	TRANSISTOR		
A1			W02-2565-05	FM FRONT-END ASSY		
AUDIO UNIT (X09-496X-XX)						
D560			B30-2521-05	LED(YEL•PHAI 3)		
C1 ,12			CC73FSL1H221J	CHIP C 220PF	J	
C13 ,14			CE04KW1E100M	ELECTRO 10UF	25WV	
C15 ,16			CC73FSL1H221J	CHIP C 220PF	J	
C17 ,18			CC73FSL1H101J	CHIP C 100PF	J	
C19 ,20			CE04KW1E100M	ELECTRO 10UF	25WV	
C21 ,22			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C23 ,24			CC73FSL1H101J	CHIP C 100PF	J	
C25 ,26			CK73FB1H223K	CHIP C 0.022UF	K	M
C25 ,26			CK73FB1H683K	CHIP C 0.068UF	K	TE
C27 ,28			CK73FF1C474Z	CHIP C 0.47UF	Z	
C29 ,30			CK73FB1H333K	CHIP C 0.033UF	K	
C31 ,32			CC73FSL1H220J	CHIP C 22PF	J	
C33 ,34			CE04KW1H4R7M	ELECTRO 4.7UF	50WV	
C35 ,36			CE04KW1H2R2M	ELECTRO 2.2UF	50WV	
C37 ,38			CK73FB1H222K	CHIP C 2200PF	K	
C39 ,40			CE04KW1A101M	ELECTRO 100UF	10WV	M
C41 ,42			CC73FCH1H101J	CHIP C 100PF	J	
C43 ,44			CC73FSL1H101J	CHIP C 100PF	J	
C45			CC45FSL1H101JM	CERAMIC 100PF	J	
C46 -48			CC73FSL1H101J	CHIP C 100PF	J	
C49 ,50			CC73FSL1H102J	CHIP C 1000PF	J	
C51 ,52			CK73FB1E104K	CHIP C 0.10UF	K	TE
C51 ,52			CK73FB1E473KTA	CHIP C 0.047UF	K	M
C53 ,54			CK73FB1E104K	CHIP C 0.10UF	K	TE
C55 ,56			CK73FB1H472K	CHIP C 4700PF	K	TE
C57 -60			CE04KW1E100M	ELECTRO 10UF	25WV	
C61 ,62			CC73FSL1H220J	CHIP C 22PF	J	TE
C63 ,64			CK73FB1H103K	CHIP C 0.010UF	K	
C101			CE04KW1V102M	ELECTRO 1000UF	35WV	
C102			CE04DW1V221M	ELECTRO 220UF	35WV	
C103			CE04KW1V220M	ELECTRO 22UF	35WV	
C104			CE04KW1V330M	ELECTRO 33UF	35WV	
C105,106			CE04KW1C470M	ELECTRO 47UF	16WV	
C107,108			C90-3743-05	ELECTRO 3300UF	35WV	
C109			CE04KW1V101M	ELECTRO 100UF	35WV	
C110			CE04KW1H470M	ELECTRO 47UF	50WV	
C111			CE04KW1V4R7M	ELECTRO 4.7UF	35WV	
C112			CE04KW1E101M	ELECTRO 100UF	25WV	
C113,114			CE04KW1E100M	ELECTRO 10UF	25WV	
C115			CC73FSL1H471J	CHIP C 470PF	J	
C116-119			CK73FB1H103K	CHIP C 0.010UF	K	
C120			CC73FSL1H221J	CHIP C 220PF	J	
C121			CC45FSL1H221JM	CERAMIC 220PF	J	
C122			CE04KW1E100M	ELECTRO 10UF	25WV	
C123			CE04KW1A101M	ELECTRO 100UF	10WV	
C124,125			CC73FSL1H221J	CHIP C 220PF	J	
C126			CE04HW1E4R7M	NP-ELEC 4.7UF	25WV	
C127			CC73FSL1H102J	CHIP C 1000PF	J	
C128			CE04HW1H3R3M	NP-ELEC 3.3UF	50WV	

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C129			CE04KW1H010M	ELECTRO 1.0UF	50WV	
C130,131			CE04KW1E100M	ELECTRO 10UF	25WV	
C132			CE04KW1A101M	ELECTRO 100UF	10WV	
C133,134			C90-3237-05	ELECTRO 47UF	25WV	
C135			CE04KW1E100M	ELECTRO 10UF	25WV	
C136			CE04HW1E4R7M	NP-ELEC 4.7UF	25WV	
C137			CE04KW1E100M	ELECTRO 10UF	25WV	
C138			CE04KW1V4R7M	ELECTRO 4.7UF	35WV	
C139			CE04KW1A221M	ELECTRO 220UF	10WV	
C140			CK73FB1H222K	CHIP C 2200PF	K	
C141			CE04KW1E100M	ELECTRO 10UF	25WV	
C143,144			CE04KW1E470M	ELECTRO 47UF	25WV	
C145,146			CC73FSL1H102J	CHIP C 1000PF	J	
C502			C90-3211-05	ELECTRO 33UF	6.3WV	
C503-505			CK73FB1H103K	CHIP C 0.010UF	K	
C506			C90-3253-05	ELECTRO 1.0UF	50WV	
C507			CK73EF1C105Z	CHIP C 1.0UF	Z	
C508			CK73FB1H103K	CHIP C 0.010UF	K	
C509			C90-3216-05	ELECTRO 330UF	6.3WV	
C513-516			CK73FB1H103K	CHIP C 0.010UF	K	
C517			CC45FCH1H220JM	CERAMIC 22PF	J	
C518			CC73FCH1H220J	CHIP C 22PF	J	
C524			CK73EB1H103K	CHIP C 0.010UF	K	TE
C526			CC73FSL1H220J	CHIP C 22PF	J	TE
C528,529			CC73FCH1H101J	CHIP C 100PF	J	
C531			CK73FB1H103K	CHIP C 0.010UF	K	
C532			CK73FB1H103K	CHIP C 0.010UF	K	TE
C533,534			CK73FB1H472K	CHIP C 4700PF	K	
C535			CK73FB1H223K	CHIP C 0.022UF	K	
C701			CK73FB1H103K	CHIP C 0.010UF	K	TE
C702			C90-3240-05	ELECTRO 2.2UF	35WV	TE
C703			C91-0751-05	CERAMIC 330PF	K	TE
C704			CK73FB1H561K	CHIP C 560PF	K	TE
C705			CC73FCH1H470J	CHIP C 47PF	J	TE
C706			CC73FCH1H220J	CHIP C 22PF	J	TE
C707,708			CK73FB1H103K	CHIP C 0.010UF	K	TE
C709			C90-3212-05	ELECTRO 47UF	6.3WV	TE
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		
J2			E63-0136-15	PHONO JACK		
J3			E63-0047-15	PHONO JACK		
J4			E08-0312-05	RECTANGULAR RECEPTACLE		
J5			E70-0034-05	LOCK TERMINAL BOARD		

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J501			E11-0300-05	PHONE JACK		
Δ F1			F05-4016-05	FUSE (SEMKO) (250V T400MAL)	TE	
Δ F1			F05-8013-05	FUSE (SEMKO) (250V T800MAL)	M	
CN13,14			J13-0075-05	FUSE CLIP		
L701			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE	
L702			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K) T1E1		
X501			L78-0267-05	RESONATOR (4.194MHZ)		
X502			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)	TE	
X701			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)		
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			RK73FB2A103J	CHIP R 10K 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		
R35 ,36			RK73FB2A104J	CHIP R 100K J 1/10W		
R37 ,38			RK73FB2A202J	CHIP R 2.0K J 1/10W		
R39			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	M	
R49 ,50			RK73FB2A102J	CHIP R 1.0K J 1/10W	TE	
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		
Δ 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		
Δ R106			RD14NB2E100J	RD 10 J 1/4W		
R111			RK73FB2A163J	CHIP R 16K J 1/10W		
R112			RK73FB2A153J	CHIP R 15K J 1/10W		
Δ R113			RD14GB2E2R2J	FL-PROOF RD 2.2 J 1/4W		
R114			RK73FB2A473J	CHIP R 47K J 1/10W		
R115			RK73FB2A472J	CHIP R 4.7K J 1/10W		

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R116			RK73FB2A473J	CHIP R 47K J 1/10W		
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		
Δ 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		
Δ R141,142			RD14NB2E2R2J	RD 2.2 J 1/4W		
R149			RK73FB2A473J	CHIP R 47K J 1/10W		
Δ R155			RD14NB2E2R2J	RD 2.2 J 1/4W		
R157			RK73FB2A473J	CHIP R 47K J 1/10W		
R158			RK73FB2A103J	CHIP R 10K J 1/10W	M	
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		
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	TE	
R553,554			RK73FB2A104J	CHIP R 100K J 1/10W		
R555,556			RK73FB2A472J	CHIP R 4.7K 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	TE	
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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PARTS LIST

R-SG7/SG7G

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R591 R592,593 R704 VR1 ,2 W203-205			RK73FB2A104J RK73FB2A103J RK73FB2A222J R12-1616-05 R92-0679-05	CHIP R 100K J 1/10W CHIP R 10K J 1/10W CHIP R 2.2K J 1/10W TRIMMING POT.(1K) CHIP R 0 OHM	TE	
W206 W207-209 W211 W212 W215,216			R92-0670-05 R92-0679-05 R92-0670-05 R92-0679-05 R92-0670-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM		
W218-221 W501-506 W501,502 W508-512 W901			R92-0679-05 R92-0679-05 R92-0679-05 R92-0679-05 R92-0670-05	CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM CHIP R 0 OHM	TE M	
Δ K1 ,2 K3 S501-509			S76-0075-15 S76-0056-05 S70-0031-05	MAGNETIC RELAY MAGNETIC RELAY TACT SWITCH		
PH1 -4 S516			T95-0149-05 T99-0598-05	OPTO ISOLATOR ROTARY ENCODER		
Δ D5 Δ D5 Δ D6 ,7 Δ D8 ,9 Δ D8 ,9			D3SBA20F03 RBV-402LFA MA111 HSS104A 1SS131	DIODE DIODE DIODE DIODE DIODE		
Δ D10 -14 Δ D10 -14 D15 ,16 D15 ,16 D17			S5688B 1SR139-400 HZS16N(B2) MTZJ16(B) HZS6.2N(B2)	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D17 D18 D18 D19 D19			MTZJ6.2(B) HZS6.8N(B2) MTZJ6.8(B) HZS6.2N(B2) MTZJ6.2(B)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D20 ,21 D20 ,21 D22 D22 D23			HZS4.7N(B2) MTZJ4.7(B) HZS5.1N(B2) MTZJ5.1(B) HZS3.9N(B2)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
D23 D24 D24 D25 ,26 D25 ,26			MTZJ3.9(B) HZS4.7N(B2) MTZJ4.7(B) HSS104 1SS133	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D27 D27 D28 D28 D29 ,30			HZS11N(B2) MTZJ11(B) HZS4.7N(B2) MTZJ4.7(B) HSS104	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		
D29 ,30 D31 D32 D32			1SS133 MA111 HSS104 1SS133	DIODE DIODE DIODE DIODE		

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D33 D33 D36 ,37 D36 ,37 D39			HZS4.7N(B2) MTZJ4.7(B) HZS20N(B) MTZJ20 HZS3.9N(B2)	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
Δ D39 D40 D502 D503 D503			MTZJ3.9(B) KBP02ML-6127 MA111 HSS104 1SS133	ZENER DIODE DIODE DIODE DIODE DIODE		
D504-511 D512 D512 D513,514 D515-517			MA111 HSS104 1SS133 MA111 HSS104A	DIODE DIODE DIODE DIODE DIODE	TE TE	
D515-517 D518 D518 D519 D519			1SS131 HSS104 1SS133 HSS104A 1SS131	DIODE DIODE DIODE DIODE DIODE	M M TE TE	
D521,522 D521,522 D523 D531 D532			HSS104 1SS133 MA111 MA111 HSS104	DIODE DIODE DIODE DIODE DIODE		
D532 D701 D701 ED1 ED1			1SS133 HSS104 1SS133 FIP9GM6R * HNA-09SS18	DIODE DIODE DIODE INDICATOR TUBE INDICATOR TUBE	TE TE	
IC1 IC2 IC3 IC4 IC5			NJU7313AM NJM4565D-D * M62421SP M5219P NJM4565L-D	ANALOGUE IC IC(OP AMP X2) ANALOGUE IC ANALOGUE IC ANALOGUE IC		
IC11 IC12 IC13 IC701 Q1 -4			* UPD78045FGF088 S-806D-Z X24C04S SAA6579 2SC4213(B)	MI-COM IC ANALOGUE IC MEMORY IC ANALOGUE IC TRANSISTOR	TE TE	
Δ Q5 ,6 Δ Q7 ,8 Q9 ,10 Δ Q11 ,12 Q15 ,16			2SD2589K 2SB1659K 2SC4137(V,W) 2SC1845(F,E) 2SC4213(B)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Δ Q51 Q52 Q53 Q53 Q54			2SD2589K*2 2SC1845(F,E) DTC113ZUA UN5219 2SA992(F,E)	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
Δ Q55 Q56 ,57 Q56 ,57 Δ Q58 Δ Q59			2SA1534A(R,S) 2SC4081(R,S) 2SD1819A(Q,R) 2SB764(E,F) 2SD2525	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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Δ Q60 ,61 Q60 ,61 Q62 Q63 Q63			2SA1576A(R,S)	TRANSISTOR		
			2SB1218A(Q,R)	TRANSISTOR		
			2SC2003(L,K)	TRANSISTOR		
			2SC4081(R,S)	TRANSISTOR		
			2SD1819A(Q,R)	TRANSISTOR		
Q64 -66 Q67 Q68 Q68 Q69 ,70			2SC1845(F,E)	TRANSISTOR		
			2SA992(F,E)	TRANSISTOR		
			2SA1576A(R,S)	TRANSISTOR		
			2SB1218A(Q,R)	TRANSISTOR		
			2SC4081(R,S)	TRANSISTOR		
Δ Q69 ,70 Q71 Q504 Q504			2SD1819A(Q,R)	TRANSISTOR		
			2SA954(L,K)	TRANSISTOR		
			2SC4081(R,S)	TRANSISTOR		
			2SD1819A(Q,R)	TRANSISTOR		
A1			W02-2561-05	ELECTRIC CIRCUIT 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 Δ indicates safety critical components.

PARTS LIST

R-SG7/SG7G

R-SG7/SG7G

SPECIFICATIONS

Receiver (R-SG7)

[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

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

Total harmonic distortion 0.02% (1 kHz, 10 W, 6 Ω)

Frequency response 20 Hz ~ 40 kHz, +0 dB, -3 dB

Input sensitivity / Impedance 200 mV / 47 k Ω

Output level / Impedance

SUPER WOOFER PRE OUT 2.0 V / 1 k Ω

TAPE REC 200 mV / 1 k Ω

Signal to noise ratio 96 dB (IHF'66)

[FM Tuner section]

Tuning frequency range 87.5 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)

MONO 65 dB

STEREO 58 dB

Selectivity (DIN $\pm$ 300 kHz) 64 dB

Stereo separation (DIN at 1 kHz) 35 dB

[AM Tuner section]

Tuning frequency range 531 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 consumption 45 W

Dimensions W: 200 mm

H: 77 mm

D: 278 mm

Weight (net) 3.0 kg

CD player (DP-SG7)

Laser Semiconductor laser

Playing rotation 200 rpm ~ 500 rpm (CLV)

Frequency response 4 Hz ~ 20 kHz, $\pm$ 1.0 dB

Signal to noise ratio More than 100 dB

Dynamic range More than 96 dB

Total harmonic distortion

..... Less than 0.004 % (at 1 kHz)

Channel separation More than 92 dB (at 1 kHz)

Wow & Flutter Unmeasurable Limit

Output level / Impedance

Fixed 1.2 V / 1 k Ω

Digital output

Optical -15 dBm ~ -21 dBm

(wave length 660 nm)

General

Power consumption 10 W

Dimensions W: 200 mm

H: 77 mm

D: 249 mm

Weight (net) 2.0 kg

Cassette deck (X-SG7)

Track 4-track, 2-channel stereo

Recording system AC bias system

(Frequency: 105 kHz)

Heads

Playback / recording head 1

Erasing head 1

Motors 1

Wow and flutter 0.1 % (W.R.M.S.)

Fast winding time Approx. 110 seconds

(C-60 tape)

Frequency response

TYPE I tape 40 Hz to 18,000 Hz, $\pm$ 3 dB

TYPE IV tape 40 Hz to 19,000 Hz, $\pm$ 3 dB

Signal to noise ratio

Dolby B NR ON 67 dB (CrO2 tape)

Dolby C NR ON 73 dB (CrO2 tape)

Dolby NR OFF 60 dB (CrO2 tape)

Input sensitivity / Impedance 77.5 mV / 47 k Ω

Output level / Impedance 775 mV / 10 k Ω

General

Power consumption 14 W

Dimensions W: 200 mm

H: 77 mm

D: 249 mm

Weight (net) 2.2 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 possible at very low temperatures (under a water-freezing temperature).

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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