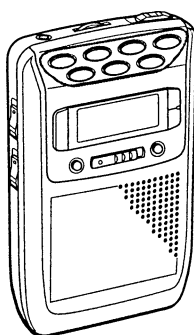


CR-DS505 YZ1(S),YH1(S) YJ1(S),YL1(S) CR-D500 YU(S),YZ1(S)YH1(S), YJ1(S)YL1(S)



SERVICE MANUAL

RADIO RECEIVER

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"

CR-DS505 YZ1(S)(S/M Code No. 09-004-343-7T1)

CR-D500 YZ1(S)(S/M Code No. 09-004-343-6T1)

CR-DS500 YH1(S),YJ1(S),YL1(S)/D500 YU(S),YH1(S),YL1(S),YJ1(S)
(S/M Code No. 09-004-343-6T2).

SPECIFICATIONS

DS505 MODEL

Frequency range:
AM STEP set to 9 kHz
 AM 531 – 1,602 kHz (9 kHz steps)
 FM 87.5 – 108 MHz (50 kHz steps)
AM STEP set to 10 kHz
 AM 530 – 1,710 kHz (10 kHz steps)
 FM 87.5 – 108.1 MHz (200 kHz steps)
Speaker: Diameter 36 mm, 8 ohms
Maximum output: 65 mW (EIAJ 8 ohms)
 4 mW + 4 mW (EIAJ 32 ohms)
Power sources: DC 3 V using two R03 (size AAA) dry cell batteries
Maximum outside dimensions:
 60.2 (W) × 98 (H) × 21.5 (D) mm
 2 3/8 × 3 7/8 × 7/8 in.
Weight: Approx. 76 g (2.7 oz.) excluding batteries

- Design and specifications are subject to change without notice.

D500 MODEL

Frequency range:
AM STEP set to 9 kHz
 AM 531 – 1,602 kHz (9 kHz steps)
 FM 87.5 – 108 MHz (50 kHz steps)
AM STEP set to 10 kHz
 AM 530 – 1,710 kHz (10 kHz steps)
 FM 87.5 – 108.1 MHz (200 kHz steps)
Maximum output: 4 mW + 4 mW (EIAJ 32 ohms)
Power sources: DC 3 V using two R03 (size AAA) dry cell batteries
Maximum outside dimensions:
 60.2 (W) × 98 (H) × 21.5 (D) mm
 2 3/8 × 3 7/8 × 7/8 in.
Weight: Approx. 76 g (2.7 oz.) excluding batteries
Supplied headphones HP-M035
 Type: In-ear type
 Impedance: 32 ohms
 Sensitivity: 95 dB/mW
Recommended commercially available headphones
 Type: In-ear type
 Impedance: 32 ohms
 Sensitivity: 102 dB/mW or less

- Design and specifications are subject to change without notice.

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-RC4-902-010	IB, YHJ(ECC)C<DS505YH1(S), DS505YJ1(S)>	
1	8A-RC5-902-010	IB, YHJ(ECC)C<D500YH1(S), D500YJ1(S)>	
1	8A-RC5-904-010	IB, YL(3L)C<D500YL1(S)>	
1	8A-RC4-904-010	IB, YL(3L)C<DS505YL1(S)>	
1	8A-RC5-901-010	IB, YU(3L)C<D500YU(S)>	
1	8A-RC4-905-010	IB, YZ(EGF)C<DS505YZ1(S)>	
1	8A-RC5-905-010	IB, YZ(EGF)C<D500YZ1(S)>	
1	8A-RC4-907-010	IB, YZ(PHNCZ)C<DS505YZ1(S)>	
1	8A-RC5-907-010	IB, YZ(PHNCZ)C<D500YZ1(S)>	
1	8A-RC5-906-010	IB, YZ(SID)C<D500YZ1(S)>	
1	8A-RC4-906-010	IB, YZ(SID)C<DS505YZ1(S)>	
2	87-B30-124-110	HEADPHONE, HP-M028<D500YU(S)>	
2	87-B30-240-010	HEADPHONE, HP-M035<DS505YZ1(S), DS505YH1(S), DS505YJ1(S), DS505YL1(S)>	
2	87-B30-240-010	HEADPHONE, HP-M035<D500YZ1(S), D500YH1(S), D500YJ1(S), D500YL1(S)>	

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

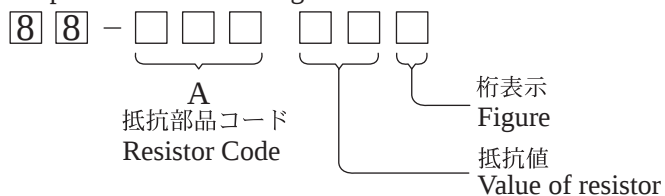
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C422	87-010-420-080		CAP,E 10-6.3 5L
	87-A21-407-040	C-IC,TA2104BFN		C423	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-017-642-080	IC,CXA1622M		C424	87-010-482-080		CAP,E 220-4 M 12.5L SRA
	87-A21-605-010	C-IC,TC9318FA-056		C451	87-A11-706-080		C-CAP,S 0.015-50 Z F
	87-A20-755-080	C-IC,AK93C45AF		C452	87-012-141-080		C-CAP, 0.22-16 Z F
TRANSISTOR				C453	87-010-196-080		CHIP CAPACITOR,0.1-25
	89-341-165-080	CHIP TRANSISTOR 2SC4116GR		C455	87-010-183-080		C-CAP,S 2700P-50 B
	89-115-884-080	CHIP -TRANSISTOR 2SA1588Y		C456	87-010-031-080		CAP,E 3.3-25 M BK
	89-342-153-080	C-TR,2SC42150		C457	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-026-467-080	TR,HN1C01F (0.3W)		C458	87-010-588-010		ELECT 220-2
	89-508-804-080	CHIP FET 2SK880Y		CF101	87-A91-162-010		FLTR,PFS 450 A7
DIODE				CF102	87-A90-991-010		FLTR,SFE10.7 MS239-A
	87-A40-462-080	C-VAR1-CAP,SVC 347(S)		CF103	87-A91-094-010		FLTR,CDA10.7 MG80A
	87-017-925-070	C-VARI-CAP,KV1460		J401	87-A60-760-010		JACK,3.5 ST W/O SW
	87-020-465-080	DIODE,1SS133 (110MA)		L101	8A-RC4-603-010		BAR-ANT,MW
	87-001-553-080	C-DIODE 1SS322		L102	8A-RC4-601-010		COIL,FM RF
MAIN C.B				L103	8A-RC4-602-010		COIL,FM OSC
BPF101	87-A90-749-010	FLTR,GFMB5		L104	87-003-152-080		COIL, 100UH
C101	87-010-570-080	C-CAP,S 220P-50 UJ		L401	87-003-383-010		COIL,1UH-S
C102	87-010-197-080	CAP, CHIP 0.01 DM		L402	87-003-383-010		COIL,1UH-S<EXCEPT D500YU(S)>
C103	87-010-196-080	CHIP CAPACITOR,0.1-25		L402	87-003-147-080		COIL,22UH J LAL02<D500YU(S)>
C104	87-010-574-080	C-CAP,S 470P-50 UJ		L403	87-003-359-080		C-COIL,1608 0.47UH K<D500YU(S)>
C105	87-010-164-080	C-CAP,S 68P-50 J SL		L451	87-003-383-010		COIL,1UH-S
C107	87-010-333-080	S-CHIP UJ 10P		S101	87-A91-152-010		SW,SL 1-1-2 SSSS212-11-A
C108	87-010-197-080	CAP, CHIP 0.01 DM		S401	87-036-127-010		SLIDE SWITCH
C109	87-010-575-080	C-CAP,S 560P-50 UJ		S402	87-A91-152-010		SW,SL 1-1-2 SSSS212-11-A
C110	87-010-197-080	CAP, CHIP 0.01 DM		SP401	84-TM1-635-010		SP,DIA36
C111	87-010-151-080	C-CAP,S 7P-50 D CH GEM		T101	87-A91-366-010		IFT,MW 5PLG
C112	87-010-197-080	CAP, CHIP 0.01 DM		T301	8A-RC4-604-010		COIL,D-D CON
C114	87-010-197-080	CAP, CHIP 0.01 DM		TC101	87-A91-392-010		TRIMMER,20P
C115	87-010-334-080	C-CAP,S 12P-50 UJ		VC101	87-A40-462-040		C-VARI-CAP,SVC347(S)
C116	87-010-573-080	C-CAP,S 390P-50 UJ		VC102	87-017-925-070		C-VARI CAP,KV1460
C117	87-010-334-080	C-CAP,S 12P-50 UJ		VC103	87-017-925-070		C-VARI CAP,KV1460
C118	87-010-572-080	C-CAP,S 330P-50 UJ		VR401	87-A91-735-010		VR,RTRY 50KX1 1 H RK14J11A
C120	87-010-805-080	CAP, S 1-16		FRONT C.B			
C121	87-010-196-080	CHIP CAPACITOR,0.1-25		C501	87-012-286-080		CAP, U 0.01-25
C122	87-010-805-080	CAP, S 1-16		C502	87-010-504-080		CAP, CHIP TANTALUM 0.47-25
C123	87-010-196-080	CHIP CAPACITOR,0.1-25		C503	87-010-831-080		C-CAP,U,0.1-16F
C124	87-010-805-080	CAP, S 1-16		C504	87-016-436-080		C-CAP,TN 47-4(B2)
C125	87-010-570-080	C-CAP,S 220P-50 UJ		C506	87-012-172-080		C-CAP,U 10P-50 D
C126	87-016-526-080	C-CAP,S 0.47-16 BK		C507	87-012-172-080		C-CAP,U 10P-50 D
C127	87-010-419-080	CAP,E 4.7-16 M 5L SRE		C508	87-010-831-080		C-CAP,U,0.1-16F
C128	87-010-196-080	CHIP CAPACITOR,0.1-25		C509	87-010-831-080		C-CAP,U,0.1-16F
C129	87-010-482-080	CAP,E 220-4 M 12.5L SRA		C510	87-010-831-080		C-CAP,U,0.1-16F
C130	87-010-166-080	C-CAP,S 100P-50 J SL		C511	87-010-831-080		C-CAP,U,0.1-16F
C131	87-010-197-080	CAP, CHIP 0.01 DM		C513	87-012-282-080		C-CAP,U 4700P-50 K B
C132	87-010-197-080	CAP, CHIP 0.01 DM		LCD101	8A-RC4-607-010		LCD,ARC-4
C133	87-010-169-080	C-CAP,S 180P-50 J SL		LED501	87-A40-845-080		C-LED,PY1333F YG
C136	87-012-274-080	C-CAP,U 18P-50 J UJ		S501	87-A91-732-010		SW,SL 2-2-2 ALZ
C301	87-010-341-080	C-CAP,S47P-50UJ		S502	87-A90-871-080		C-SW, SL 1-1-2
C302	87-010-501-080	E/CAP GAS 47-4		S516	87-A90-871-080		C-SW, SL 1-1-2
C303	87-010-188-080	CAP,CHIP 6800P		X501	87-A70-187-010		VIB,XTAL 75KHZ CFV206
C304	87-010-805-080	CAP, S 1-16					
C401	87-A11-706-080	C-CAP,S 0.015-50 Z F					
C402	87-012-141-080	C-CAP,S 0.22-16 Z F C2012					
C403	87-010-196-080	CHIP CAPACITOR,0.1-25					
C405	87-010-183-080	C-CAP,S 2700P-50 B					
C406	87-010-031-080	CAP,E 3.3-25 M BK					
C407	87-010-196-080	CHIP CAPACITOR,0.1-25					
C408	87-010-588-010	ELECT 220-2					
C420	87-010-186-080	C-CAP,S 4700P-50 K B					
C421	87-010-420-080	CAP,E 10-6.3 5L					

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

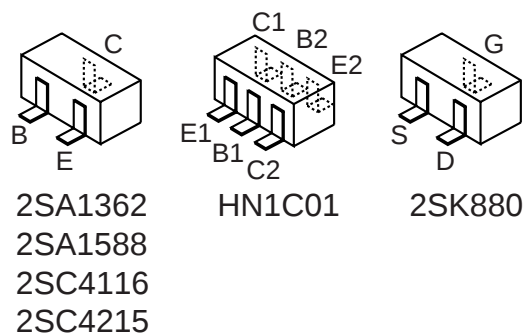
Chip Resistor Part Coding



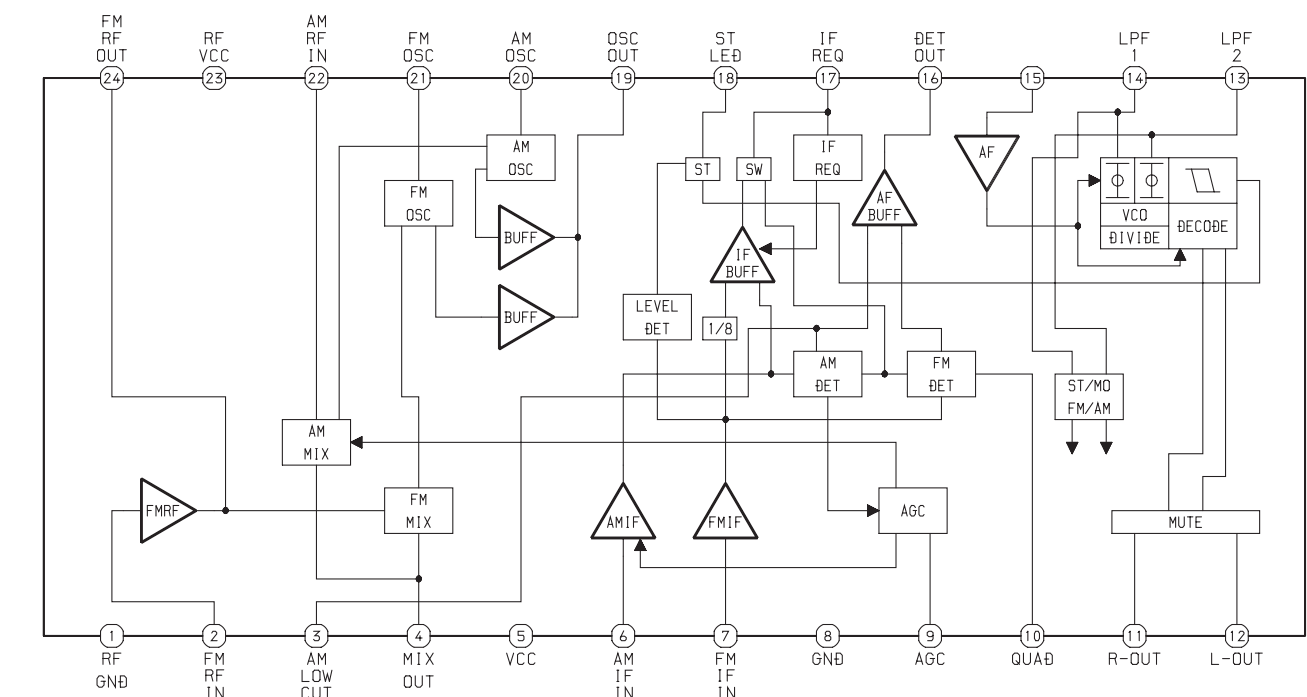
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

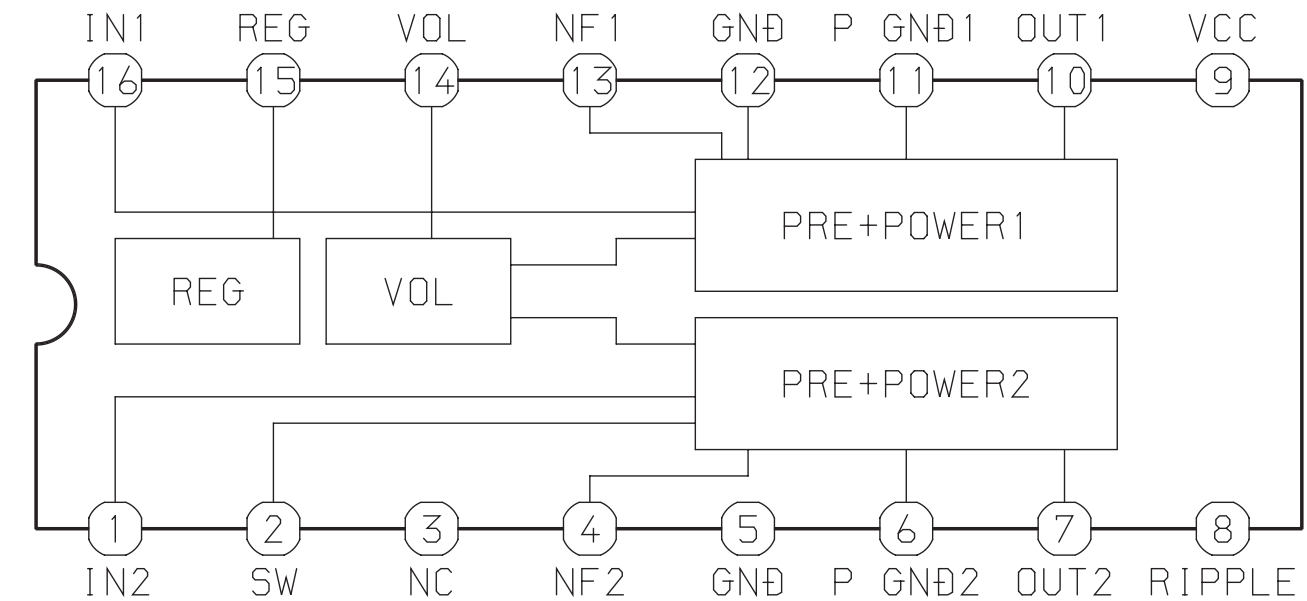
TRANSISTOR ILLUSTRATION



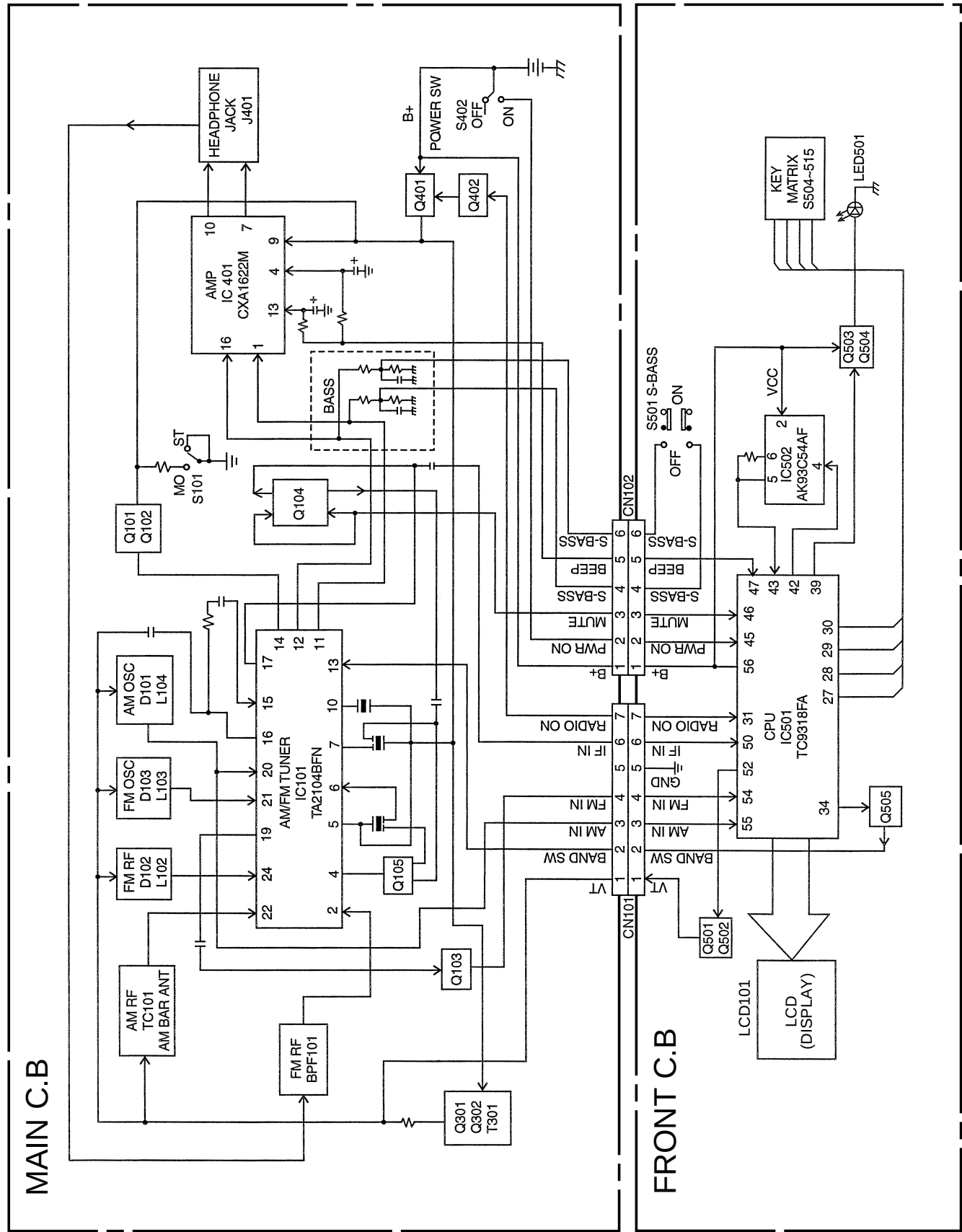
IC BLOCK DIAGRAM
IC, TA2104BFN



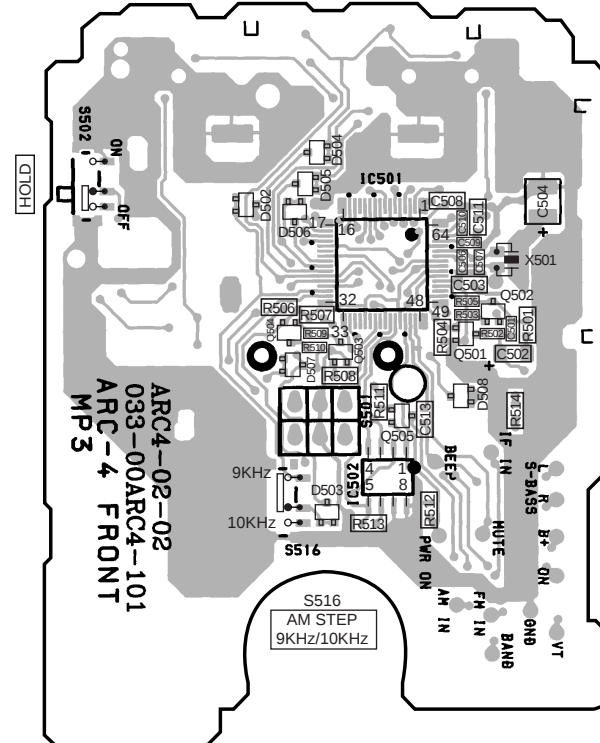
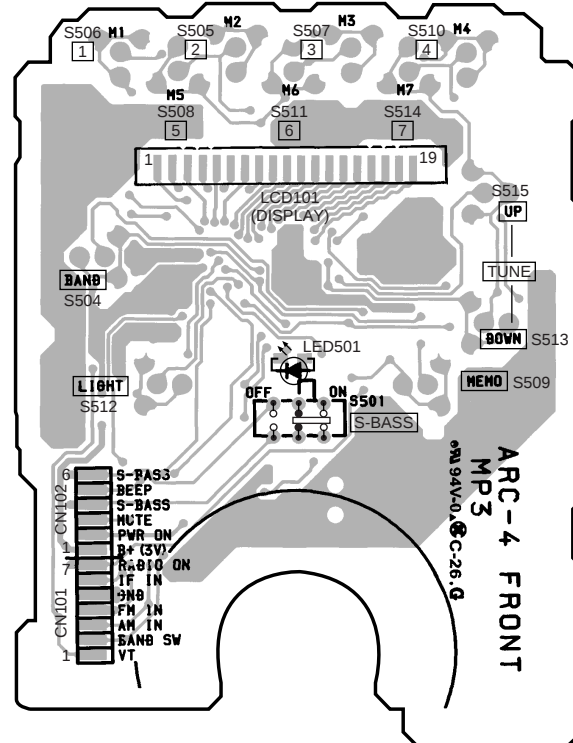
IC, CXA1622M



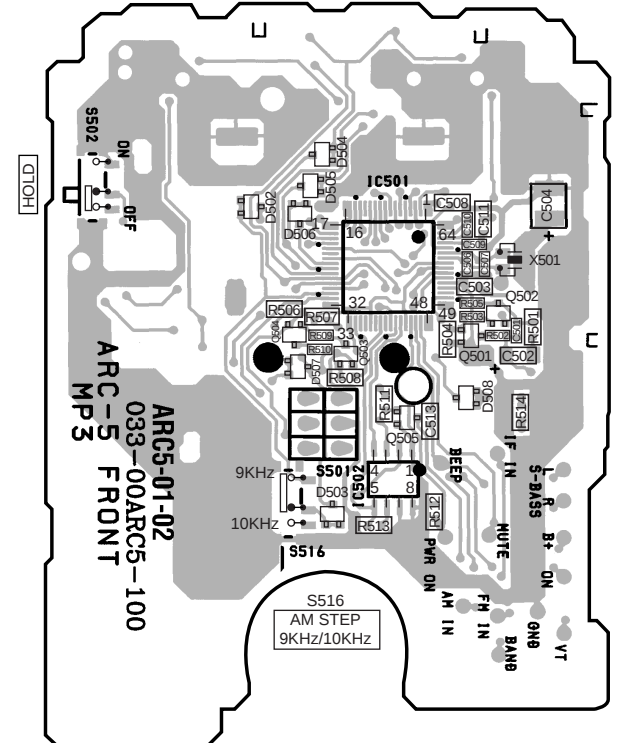
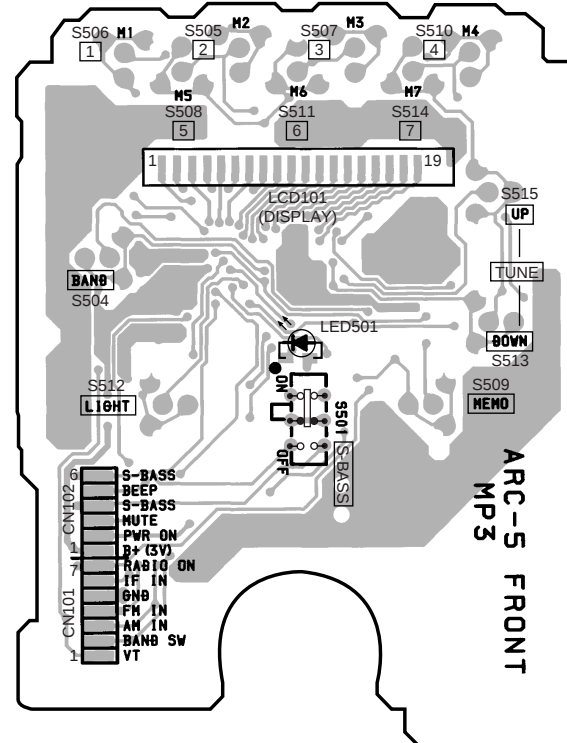
BLOCK DIAGRAM



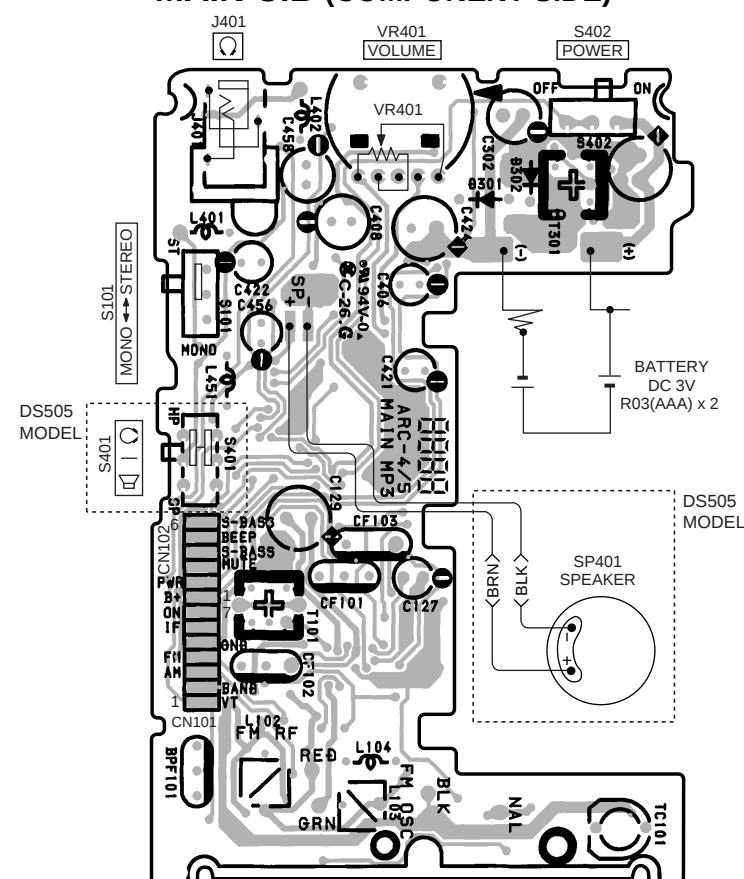
FRONT C.B (CONDUCTOR SIDE)



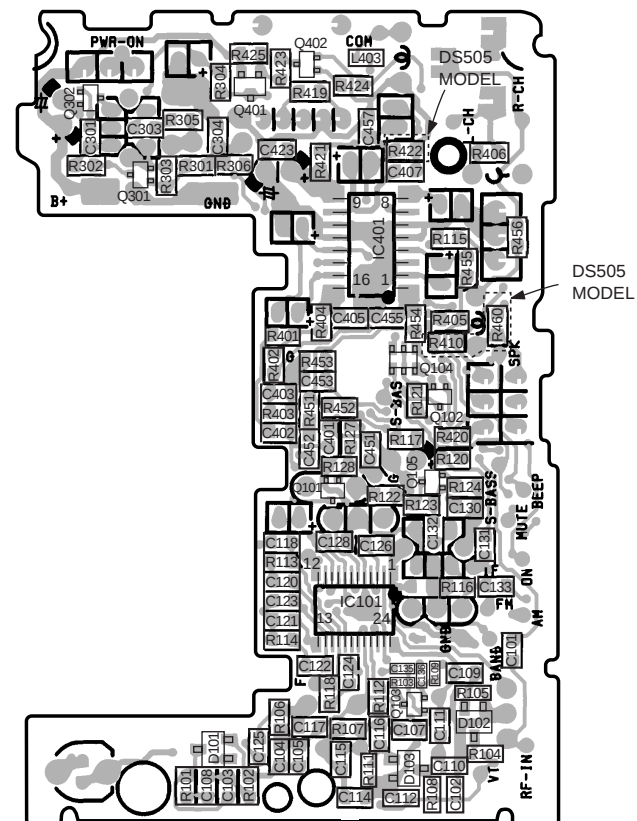
FRONT C.B (COMPONENT SIDE)



MAIN C.B (COMPONENT SIDE)

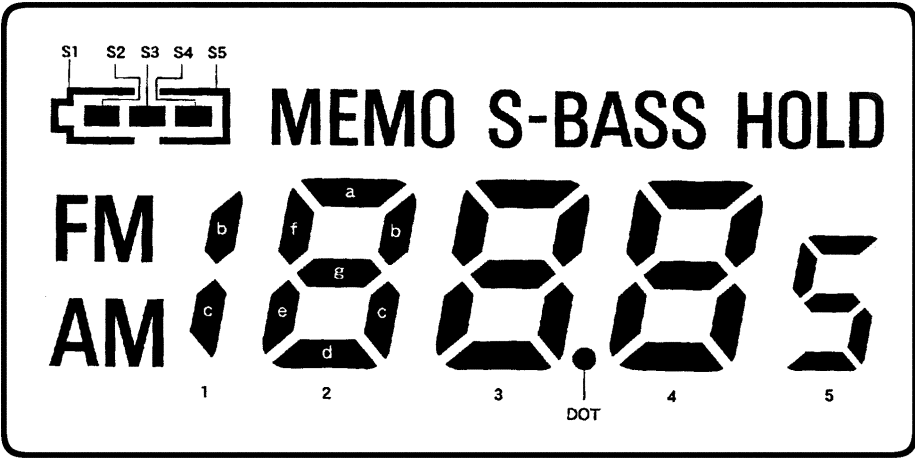
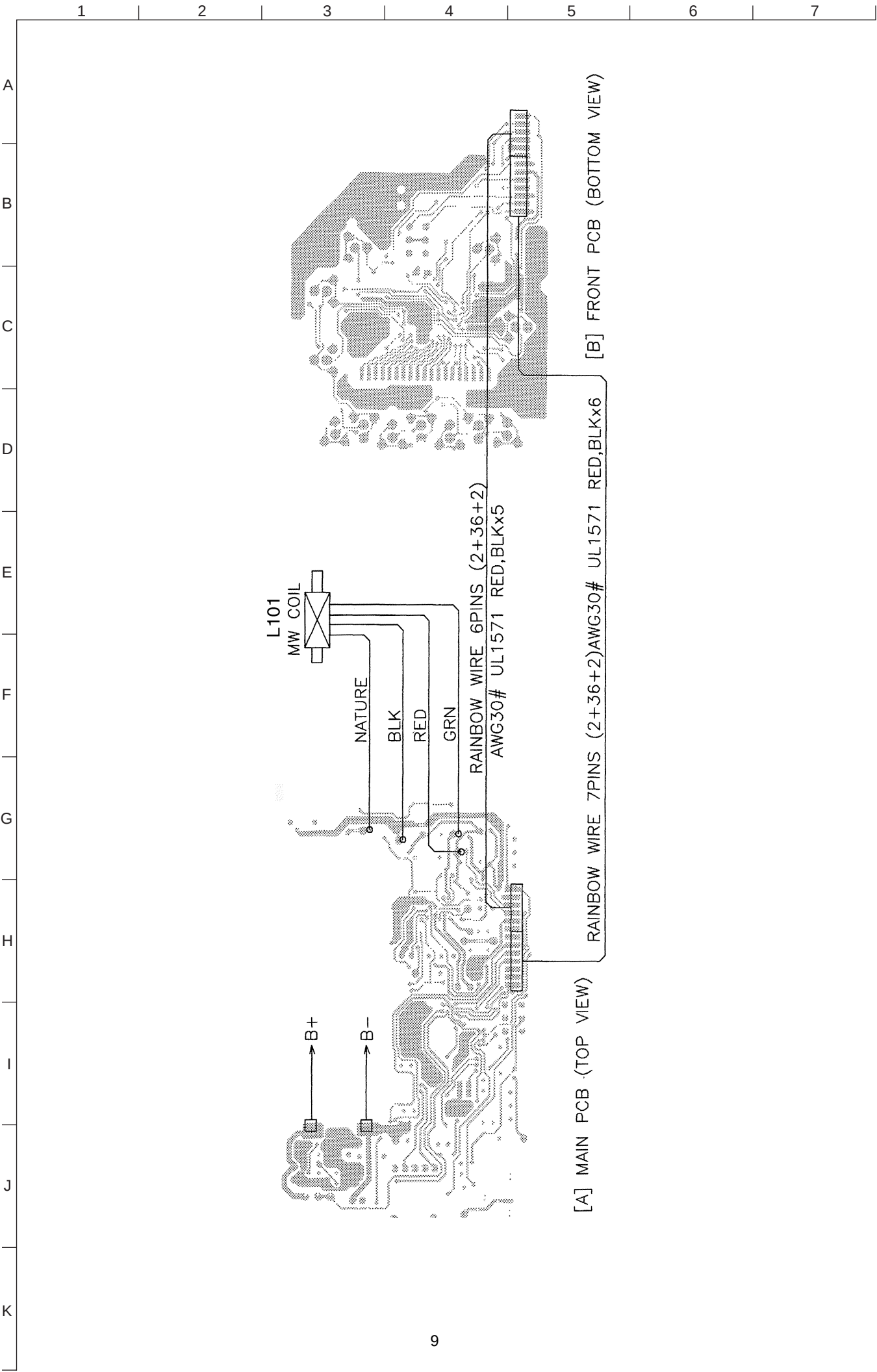


MAIN C.B (CONDUCTOR SIDE)



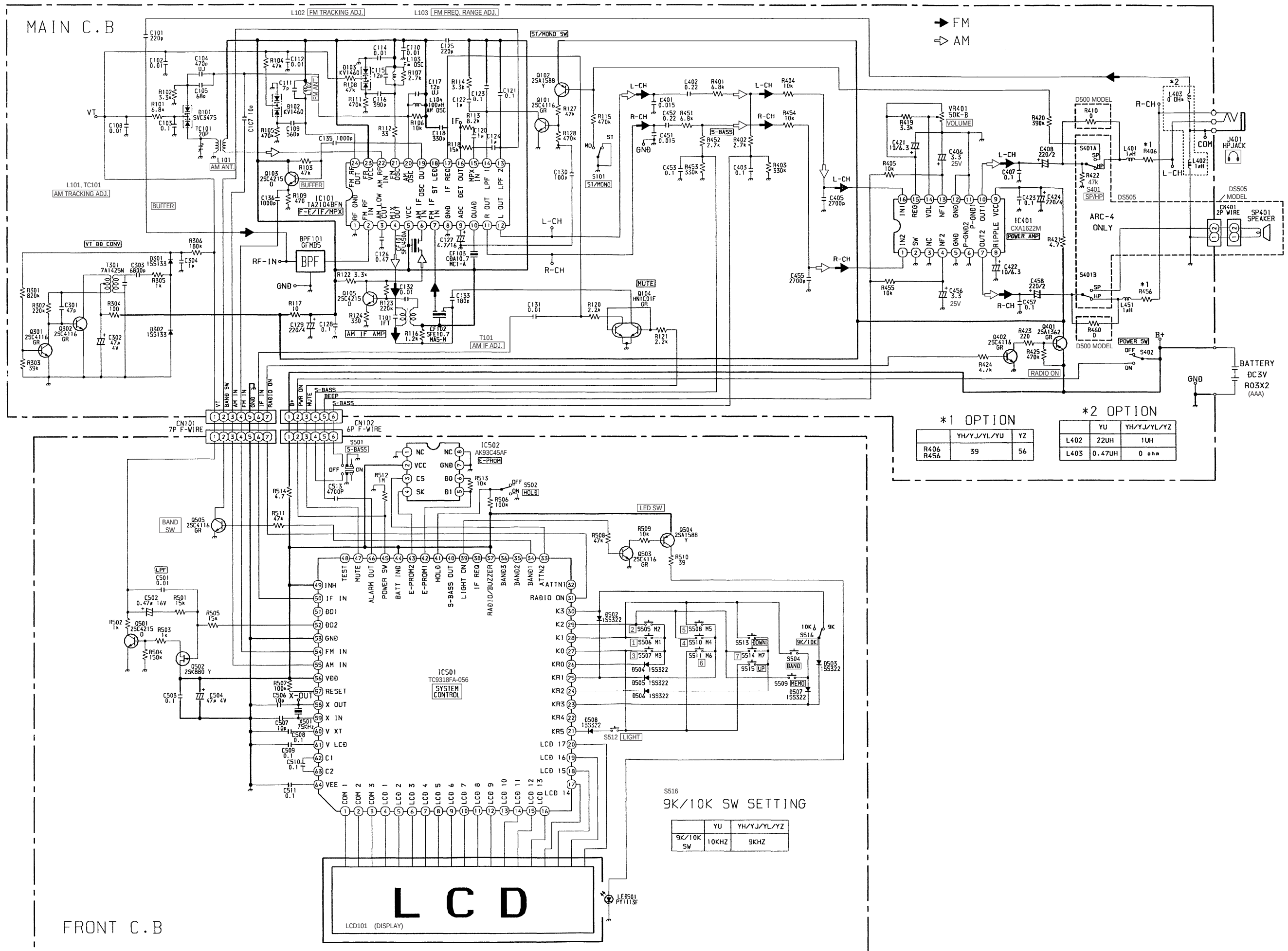




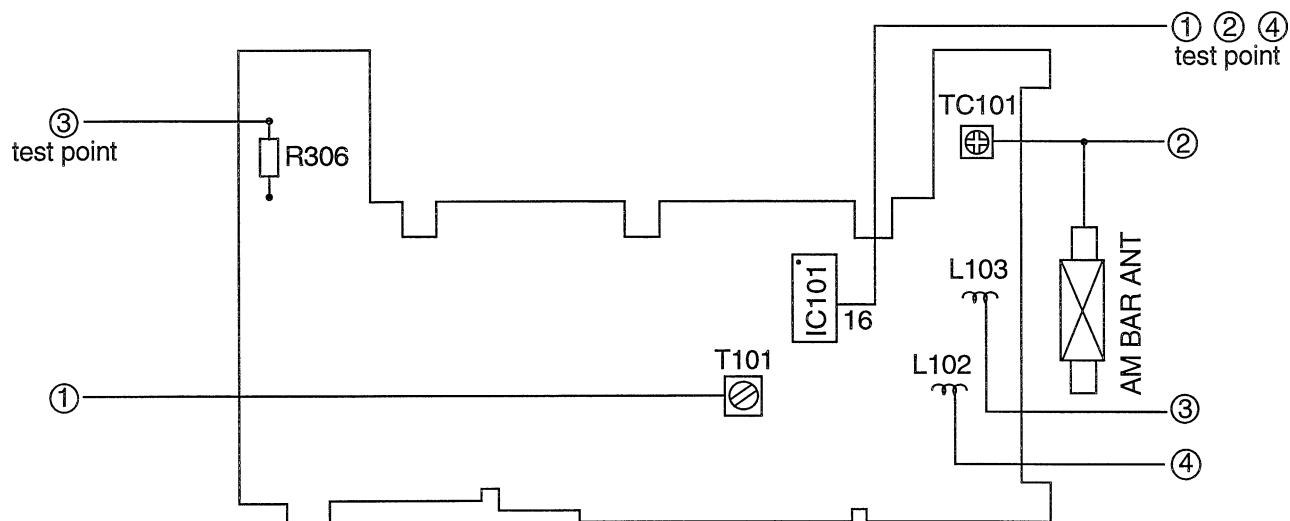


No	COM0	COM1	COM2
1	COM0	---	---
2	---	COM1	---
3	---	---	COM2
4	---	---	FM
5	---	AM	---
6	---	---	S1
7	---	---	S2
8	---	---	S3
9	1c	1b	S4
10	2e	2f	S5
11	2g	2a	MEMO
12	2d	2c	2b
13	3e	3f	3a
14	3d	3g	3b
15	---	DOT	3c
16	4d	4e	4f
17	4g	4a	HOLD
18	5	4c	4b
19	---	MHz	kHz

SCHEMATIC DIAGRAM



ELECTRICAL ADJUSTMENT



1. AM IF Adjustment

Test point: IC101(TA2104BFN) 16 PIN and GND

Adjustment location: T101

T101 ----- 450kHz

2. AM Tracking Adjustment

Test point: IC101(TA2104BFN) 16 PIN and GND

Adjustment location: TC101, AM BAR ANT(L101)

TC101 ----- 630kHz waveform max.

AM BAR ANT(L101) ----- 1440kHz waveform max.

3. FM Frequency Range Adjustment

Test point: R306

Adjustment location: L103

Set the tuner frequency to be 87.5MHz

Adjust L103 so that the test point voltage is

$2.3V \pm 0.5V$

4. FM Tracking Adjustment

Test point: IC101(TA2104BFN) 16 PIN and GND

Adjustment location: L102

L102 ----- 88MHz waveform max.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

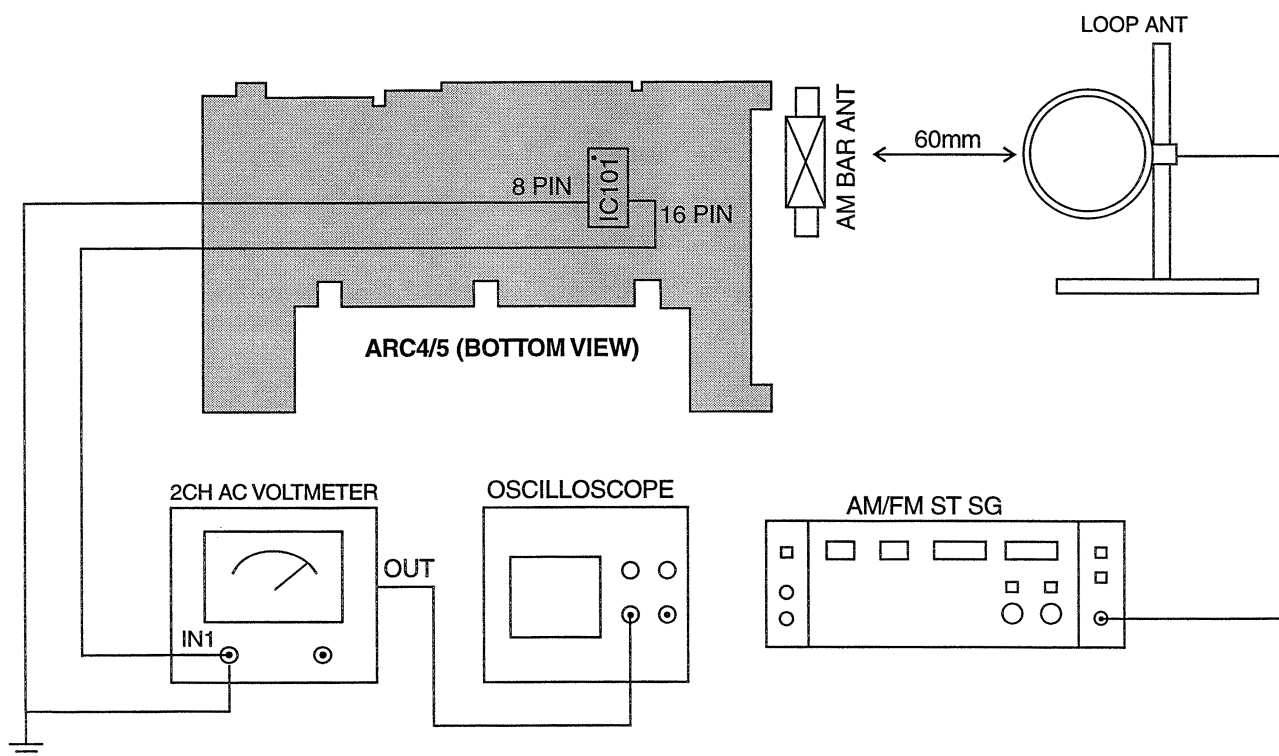
< FM SECTION >

Sensitivity:	Less than 18dB (87.5MHz)
(THD 3%)	Less than 18dB (98.5MHz)
	Less than 18dB (107.1MHz)
Distortion:	Less than 2% (at 98.0MHz)
Intermediate frequency:	10.7MHz $\pm$ 0.15MHz
Stereo separation:	More than 20dB

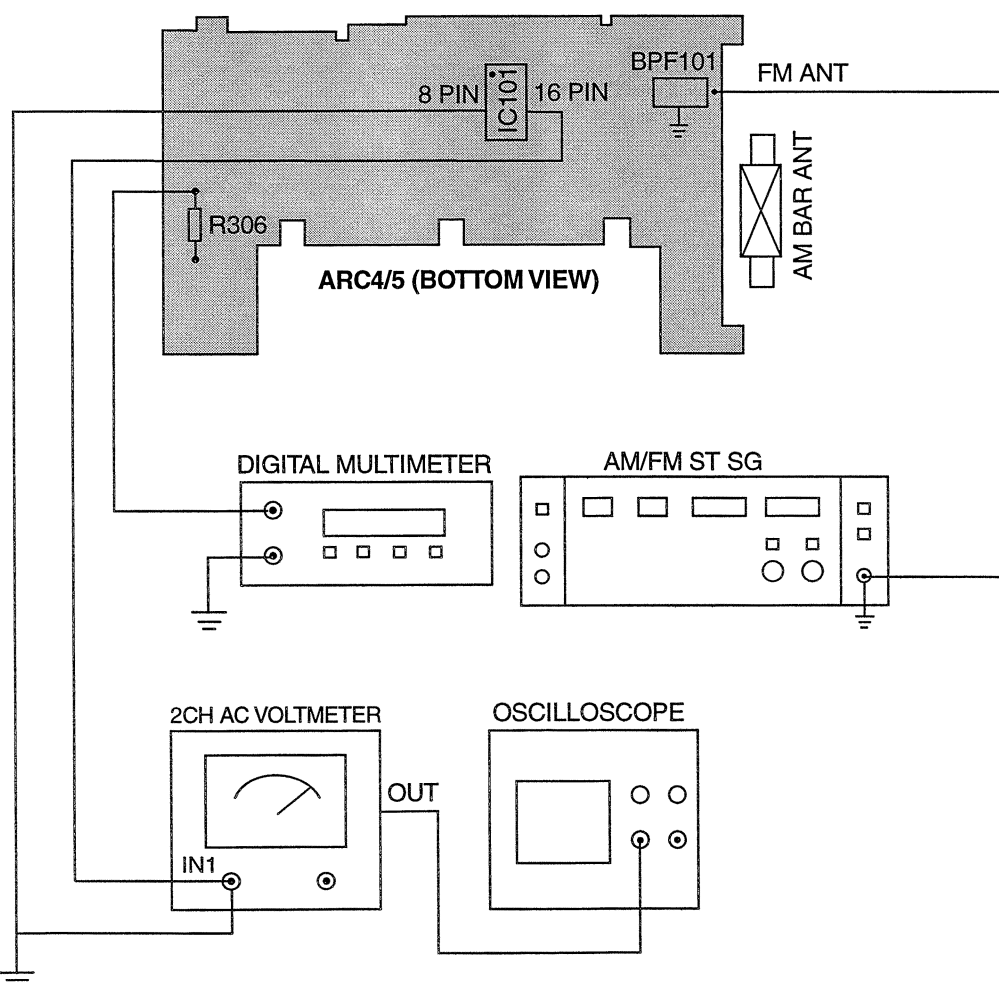
< AM SECTION >

Sensitivity:	Less than 55dB (at 630kHz)
(S/N 10dB)	Less than 52dB (at 1000kHz)
	Less than 52dB (at 1440kHz)
Distortion:	Less than 3%
(Input 100dB)	
Intermediate frequency:	450kHz $\pm$ 2kHz

AM SECTION



FM SECTION



VOLTAGE CHART

THE MEASURED VALUE IS DC VOLTAGE

UNIT:V

TUNER SECTION

TEST CONDITION: SET AM/FM TUNER ON ONE FREQUENCY

IC101 (TA2104BFN)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
FM	0	0.77	0	2.10	2.85	2.71	2.83	0	0.03	2.06	1.14	1.15
AM	0	0	1.00	2.77	2.88	2.20	2.88	0	0.18	2.78	1.14	1.12
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
FM	2	2.20	0.70	1.12	1.12	1.80	2.70	0.90	2.82	2.85	2.84	2.84
AM	0	0.70	0.70	1.00	1.20	1.50	2.70	2.88	2.80	2.88	2.88	2.88

TRANSISTOR	Q501(2SC4116)			Q502(2SK880)			Q505(2SC4116)		
	E	C	B	E	C	B	E	C	B
FM	0	3.40	0.55	0.59	0.28	2.69	0	1.96	0
AM	0	0.80	0.55	0.60	0.29	2.88	0	0.01	0.60

TRANSISTOR	Q301(2SC4116)			Q302(2SC4116)			Q103(2SC4215)			Q105(2SC4215)		
	E	C	B	E	C	B	E	C	B	E	C	B
AM	0	0.60	0.50	0	0	0.70	0	1.40	0.60	0.10	1.48	0.80

TRANSISTOR	Q503(2SC4116)			Q504(2SA1558)		
POWER	E	C	B	E	C	B
FM	0	2.80	0	2.90	0	7.20

POWER AMP SECTION

TEST CONDITION: TUNER ON

IC501 (TC9318FA)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
FM	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
PIN'S NUMBER	13	14	15	16	17	18	19	20	21	22	23	24
FM	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.55	1.55	1.55	1.55	1.55
PIN'S NUMBER	25	26	27	28	29	30	31	32	33	34	35	36
FM	1.55	1.55	1.32	1.30	0.70	0.75	0.75	0	0	0	0	2.60
PIN'S NUMBER	37	38	39	40	41	42	43	44	45	46	47	48
FM	2.74	0	0	0	2.71	0	0	2.95	0.90	0	0	0
PIN'S NUMBER	49	50	51	52	53	54	55	56	57	58	59	60
FM	2.70	1.40	0	0.27	0	1.50	0	2.98	2.95	0.25	0.75	1.37
PIN'S NUMBER	61	62	63	64								
FM	3.00	0.74	2.25	1.50								

IC401 (CXA1622M)

PIN'S NUMBER	1	2	3	4	5	6	7	8
FM	0	0	0	1.45	0	0	1.47	2.70
PIN'S NUMBER	9	10	11	12	13	14	15	16
FM	2.92	1.47	0	0	1.45	1.27	1.28	0

IC502 (AK93045AF)

PIN'S NUMBER	1	2	3	4	5	6	7	8
FM	0	2.75	0	0	0	0	0	0

TRANSISTOR	Q401(2SA1362)			Q402(2SC4116)			Q102(2SA1588)			Q101(2SC4116)		
	E	C	B	E	C	B	E	C	B	E	C	B
FM	2.95	2.90	2.10	0	0.03	0.75	0.60	1.40	0.80	0	0	0.60

IC DESCRIPTION
IC, TC9318FA-056

Pin No.	Pin Name	I/O	Description
1	COM1	O	LCD COMMON.
2	COM2	O	LCD COMMON.
3	COM3	O	LCD COMMON.
4	LCD1	O	LCD SEGMENT.
5	LCD2	O	LCD SEGMENT.
6	LCD3	O	LCD SEGMENT.
7	LCD4	O	LCD SEGMENT.
8	LCD5	O	LCD SEGMENT.
9	LCD6	O	LCD SEGMENT.
10	LCD7	O	LCD SEGMENT.
11	LCD8	O	LCD SEGMENT.
12	LCD9	O	LCD SEGMENT.
13	LCD10	O	LCD SEGMENT.
14	LCD11	O	LCD SEGMENT.
15	LCD12	O	LCD SEGMENT.
16	LCD13	O	LCD SEGMENT.
17	LCD14	O	LCD SEGMENT.
18	LCD15	O	LCD SEGMENT.
19	LCD16	O	LCD SEGMENT.
20	LCD17	O	LCD SEGMENT.
21	KR5	O	KEY RETURN TIMING OUTPUT
22	KR4	O	KEY RETURN TIMING OUTPUT. (Not connected)
23	KR3	O	KEY RETURN TIMING OUTPUT.
24	KR2	O	KEY RETURN TIMING OUTPUT.
25	KR1	O	KEY RETURN TIMING OUTPUT.
26	KR0	O	KEY RETURN TIMING OUTPUT.
27	K0	I	KEY INPUT.
28	K1	I	KEY INPUT.
29	K2	I	KEY INPUT.
30	K3	I	KEY INPUT.
31	RADIO ON	O	RADIO FANCTIONS, C WHEN ALARM OUTPUT, H OUTPUT.
32	ATTN1	O	WHEN ALARM OUTPUT H→H→L→L OUTPUT at 10sec. (Not connected)
33	ATTN2	O	WHEN ALARM OUTPUT H→L→H→L OUTPUT at 10sec.
34	BAND1	O	AM FANCTIONS H OUTPUT.
35	BAND2	O	FM FANCTIONS H OUTPUT. (Not connected)
36	BAND3	O	E: LW or J: TV or U: TV, WEATHER FANCTIONS H OUTPUT. (Not connected)
37	RADIO/BUZZER	I	ALARM SELECTION H : RADIO ALARM L: FBuzzer ALARM. (Connected to VDD)
38	IF REQ	O	DURING AUTO SCANNING H OUTPUT. (Not connected)
39	LIGHT ON	O	LIGHT KEY PUSHED H OUTPUT.
40	S-BASS OUT	O	S BASS KEY PUSHED H↔L OUTPUT CICRIC. (Not connected)

Pin No.	Pin Name	I/O	Description
41	HOLD	I	L INPUT, KEYS HOLD.
42	E-PROM1	I/O	E-PROM INTERFACE.
43	E-PROM2	O	E-PROM INTERFACE.
44	BATT IND	I	A/D INPUT FOR BATTERY INDICATOR. (Connected to VDD)
45	POWER SW	I	H INPUT, RADIO ON.
46	ALARM OUT	O	ALARM1,ALARM2 OUTPUT.
47	MUTE	O	WHEN MUTE ON, H OUTPUT.
48	TEST	I	TEST PIN. (Not connected)
49	INH	I	L INPUT RADIO OFF.
50	IF IN	I	IF SIGNAL INPUT.
51	DO1	O	PLL OUTPUT. (Connected to VDD)
52	DO2	O	PLL OUTPUT.
53	GND	—	GND.
54	FM IN	I	FM OSC SIGNAL INPUT.
55	AM IN	I	AM OSC SIGNAL INPUT.
56	VDD	—	Power Supply Pin.
57	RESET	I	Input pin for system reset signals. (Pull up)
58	X OUT	O	Crystal oscillator output pin.
59	X IN	I	Crystal oscillator input pin.
60	V XT	I	Power supply for the crystal oscillator. (Pull down)
61	V LCD	I	Voltage doubler boosting pin for driving the LCD.
62	C1	O	
63	C2	O	
64	VEE	—	1.5V constant voltage supply pin for driving the LCD. (Pull down)

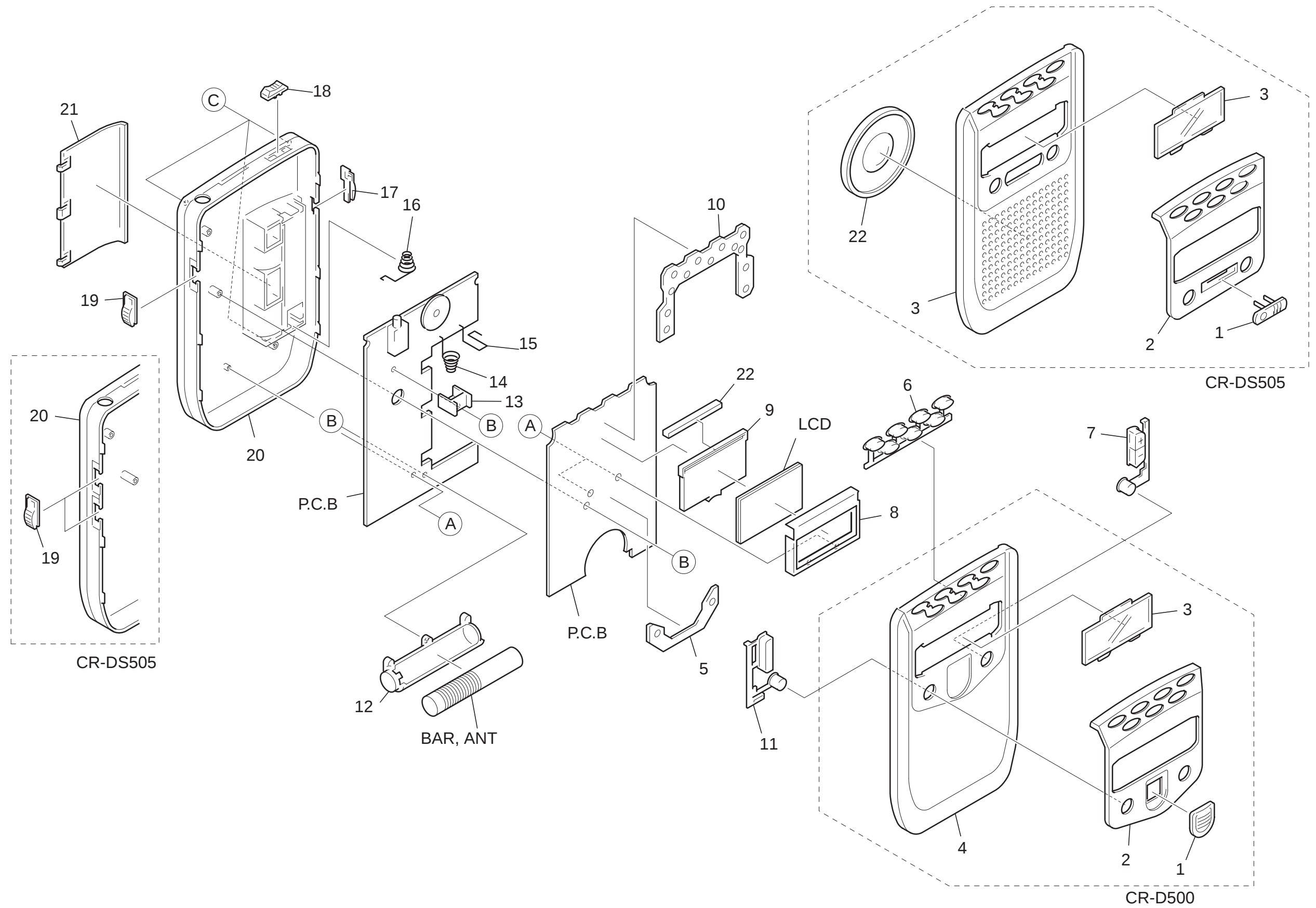
MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-RC4-011-010	KN0B, SL S-BASS	<DS505YZ1(S), DS505YH1(S), DS505YJ1(S), DS505YL1(S)>	11	8A-RC4-006-010	BTN, BAND/LIGHT	<DS505YZ1(S), DS505YH1(S), DS505YJ1(S), DS505YL1(S)>
1	8A-RC5-005-010	KN0B, SL S-BASS	<D500YU(S), D500YZ1(S), D500YH1(S), D500YJ1(S), D500YL1(S)>	12	8A-RC4-202-010	HLDR, AM ANT	
2	8A-RC4-003-010	PANEL, FRONT	<DS505YZ1(S), DS505YH1(S), DS505YJ1(S), DS505YL1(S)>	13	8A-RC4-203-010	HLDR, JACK	
2	8A-RC5-002-010	PANEL, FRONT	<D500YU(S), D500YZ1(S), D500YH1(S), D500YJ1(S), D500YL1(S)>	14	8A-RC4-209-010	BAT-CONTACT, (-)	
3	8A-RC4-012-010	WINDOW, LCD		15	8A-RC4-208-010	BAT-CONTACT, (+)	
4	8A-RC5-001-010	CABI, FRONT	<D500YU(S), D500YZ1(S), D500YH1(S), D500YJ1(S), D500YL1(S)>	16	8A-RC4-210-010	BAT-CONTACT, (+-)	
4	8A-RC4-001-010	CABI, FRONT	<DS505YZ1(S), DS505YH1(S), DS505YJ1(S), DS505YL1(S)>	17	8A-RC4-008-010	KN0B, SL HOLD	
5	8A-RC4-205-010	HLDR, LIGHT/MEMO		18	8A-RC4-009-010	KN0B, SL POWER	
6	8A-RC4-005-010	BTN, PRESET		19	8A-RC4-010-010	KN0B, SL MO/ST	
7	8A-RC5-004-010	BTN, TUNE/MEMO	<D500YU(S), D500YZ1(S), D500YH1(S), D500YJ1(S), D500YL1(S)>	20	8A-RC4-002-010	CABI, REAR Y	<DS505YH1(S), DS505YL1(S)>
7	8A-RC4-007-010	BTN, TUNE/MEMO	<DS505YZ1(S), DS505YH1(S), DS505YJ1(S), DS505YL1(S)>	20	8A-RC5-006-010	CABI, REAR Y	<D500YH1(S), D500YL1(S)>
8	8A-RC4-206-010	COVER, LCD		20	8A-RC5-009-010	CABI, REAR YJ<D500YJ1(S)>	
9	8A-RC4-201-010	LENS, LCD		20	8A-RC4-014-010	CABI, REAR YJ<DS505YJ1(S)>	
10	8A-RC4-204-010	HLDR, PRESET		20	8A-RC5-007-010	CABI, REAR YU<D500YU(S)>	
11	8A-RC5-003-010	BTN, BAND/LIGHT	<D500YU(S), D500YZ1(S), D500YH1(S), D500YJ1(S), D500YL1(S)>	20	8A-RC5-008-010	CABI, REAR YZ<D500YZ1(S)>	
				20	8A-RC4-013-010	CABI, REAR YZ<DS505YZ1(S)>	
				21	8A-RC4-004-010	LID, BATT	
				22	8A-RC4-211-010	CONN, RUBBER LCD	
				A	87-067-746-010	S-SCREW, SERR+1.4-2	
				B	87-352-509-310	VT2+1.4-4	
				C	87-067-405-010	SCREW, 1.4-6	

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		



REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL