

SERVICE MANUAL

RADIO RECEIVER

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
CR-AS16<YH(ST),YL(ST)>(S/M Code No.09-993-327-0T2).

SPECIFICATIONS

Frequency range	FM: 87.5 – 108 MHz AM: 530 – 1,605 kHz
Maximum output	160 mW (EIAJ 4 Ω)
Power source	DC 3V using two R6 (size AA) batteries
Speaker	Diameter 50mm, 4 Ω
Maximum dimensions	68.8 (W) × 118.2 (H) × 29.4 (D) mm (2 ³ / ₄ × 4 ³ / ₄ × 1 ³ / ₁₆ in.)
Weight	Approx. 134 g, 4.3 oz (excluding batteries)

- 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	S0-302-764-000		INSTRUC, BOOK(CRAS16YH)(EC)<YHST>
1	S0-302-765-000		INSTRUC, BOOK(CRAS16YL)<YLST>
2	S2-712-100-128		EARPHONE & PLUG 3.5MM MONO

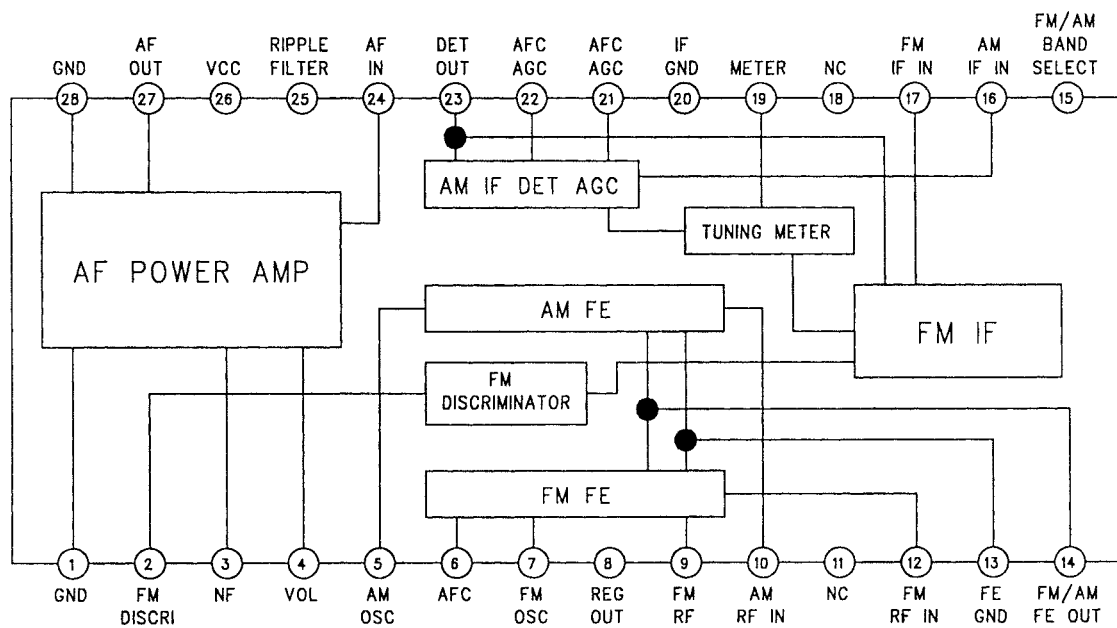
ELECTRICAL MAIN PARTS LIST

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".

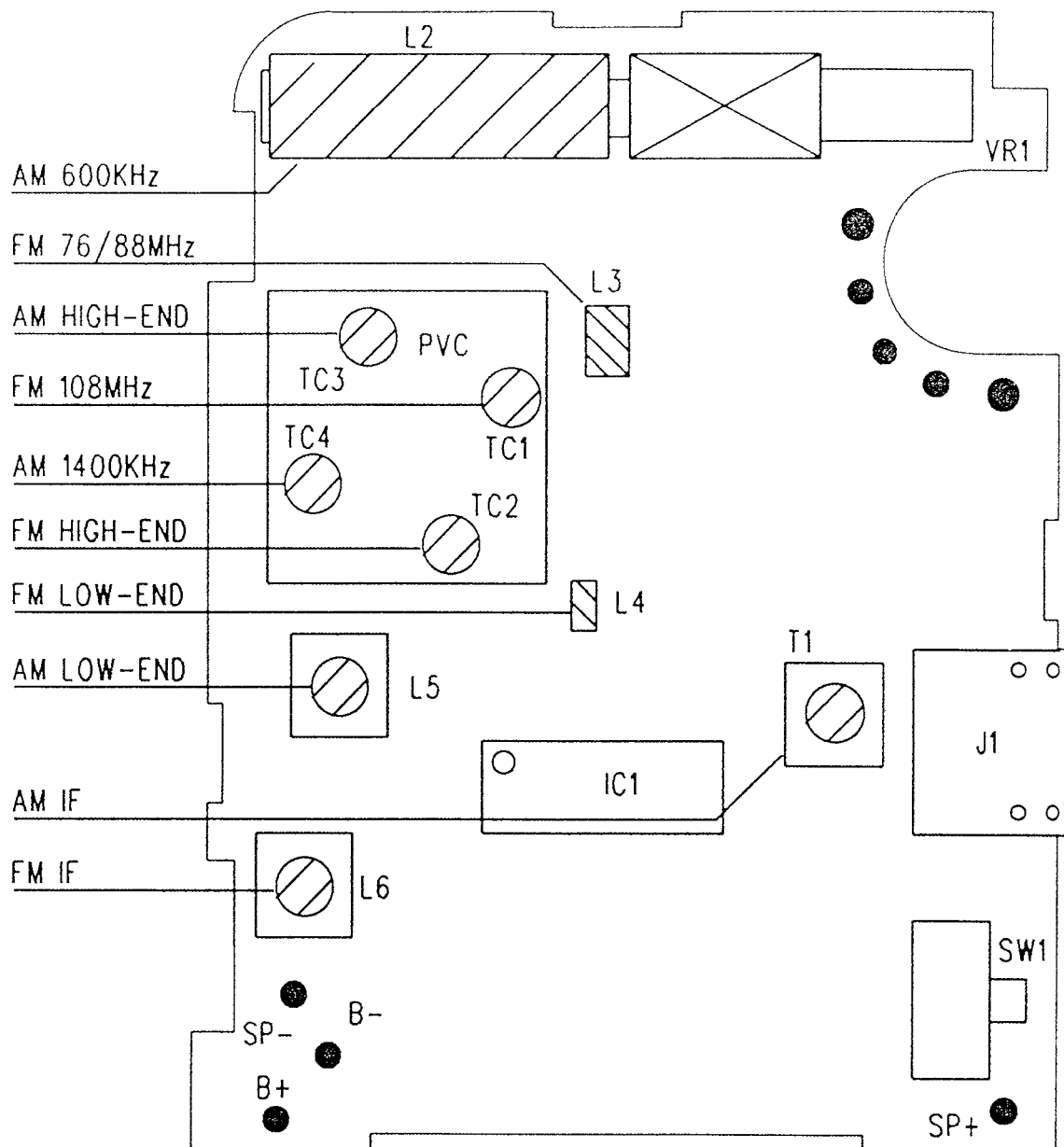
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				CF2	S2-310-011-700		CER, FILTER 10.7MHZ
	S2-516-191-100	IC, CXA1619AM		J1	S1-210-011-500		JACK, HP ST
DIODE				L2	S1-110-100-121		BAR, ANT AM 10-50
	82-135-799-010	DIODE, 1N4148		L5	S1-110-013-200		COIL, OSC AM 8441A 7Z0-93100
MAIN C.B				L6	S3-010-011-900		IET, FM 7.5-7.5-12.5(GRN)
				LED1	S5-570-100-100		LED, 3.0MM(RED)
				PVC1	S1-520-100-108		PVC, 21-21.6-11 WF420LT12 - A23
				SP1	S1-010-016-301		SPKR, SLIM MYLEAR 50MM 0.2W
				SW1	S3-110-014-200		SW, SLIDE 2P2T
				SW2	S2-110-010-202		VOL, ROTARY RV121S-10-012J-B50K
C5	87-016-299-080	CAP, E 10-10V		T1	S1-010-012-000		IFT, AM 7.5-7.5-12.5
C12	87-010-403-080	CAP, E 3.3-50V		VR1	S2-110-010-202		VOL, ROTARY RV121S-10-012J-B50K
C14	87-016-299-080	CAP, E 10-10V					
C15	87-010-404-080	CAP, E 4.7UF-50V					
C16	87-016-299-080	CAP, E 10-10V					
C18	87-010-400-080	CAP, E 0.47UF-50V					
C19	87-016-299-080	CAP, E 10-10V					
C21	87-010-221-080	CAP, E 470UF-10V					
C23	87-010-221-080	CAP, E 470UF-10V					
CF1	S1-910-010-300	CER, FIL 450K					

IC BLOCK DIAGRAM

IC, CXA1619AM



ELECTRICAL ADJUSTMENT



PRACTICAL SERVICE FIGURE

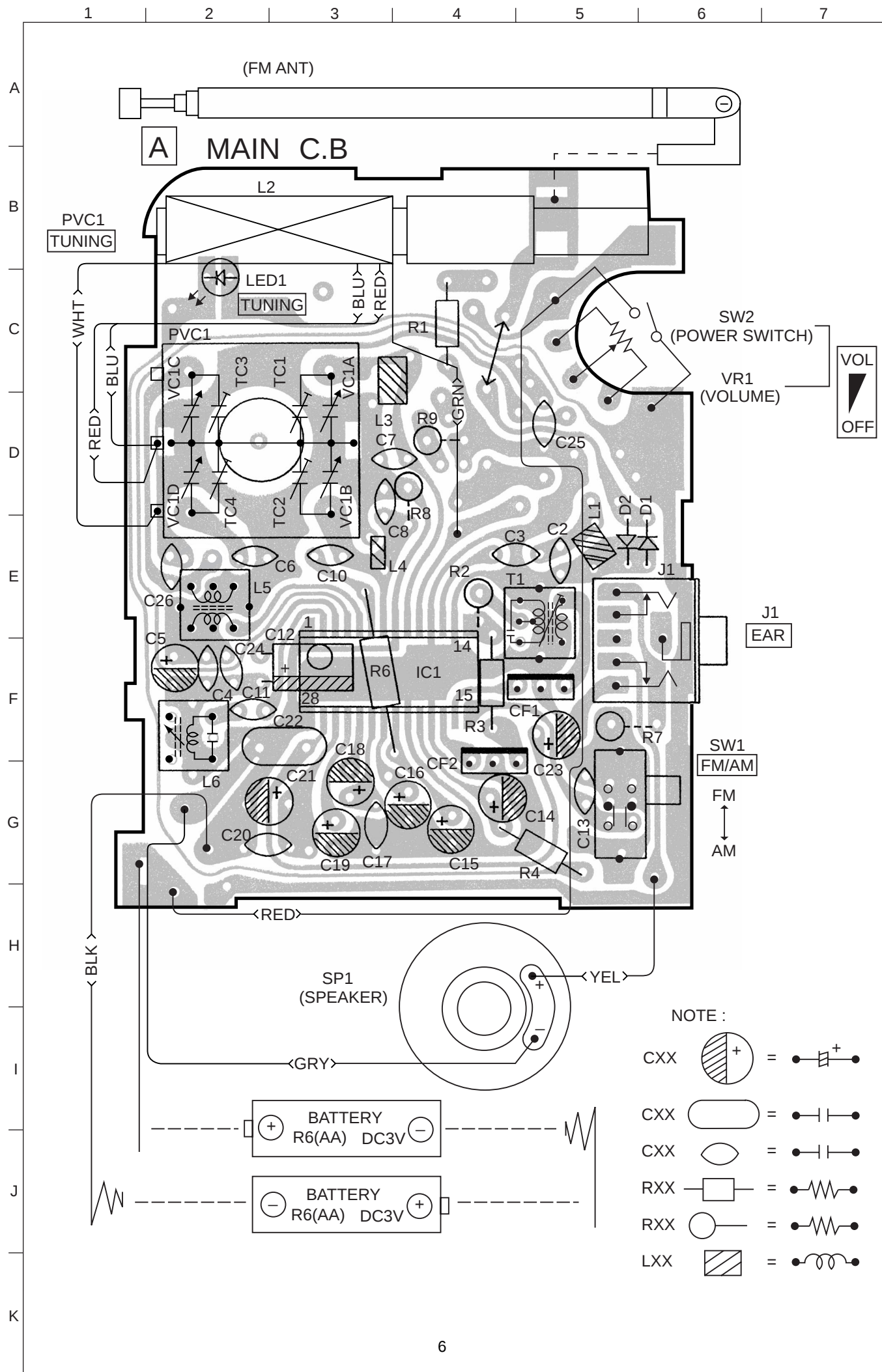
< AM SECTION >

Sensitivity:	Less than 49dB (at 600kHz)
(S/N 10dB)	Less than 47dB (at 1000kHz)
	Less than 46dB (at 1400kHz)
Distortion:	Less than 3% (at 1000kHz)
Intermediate frequency:	450kHz

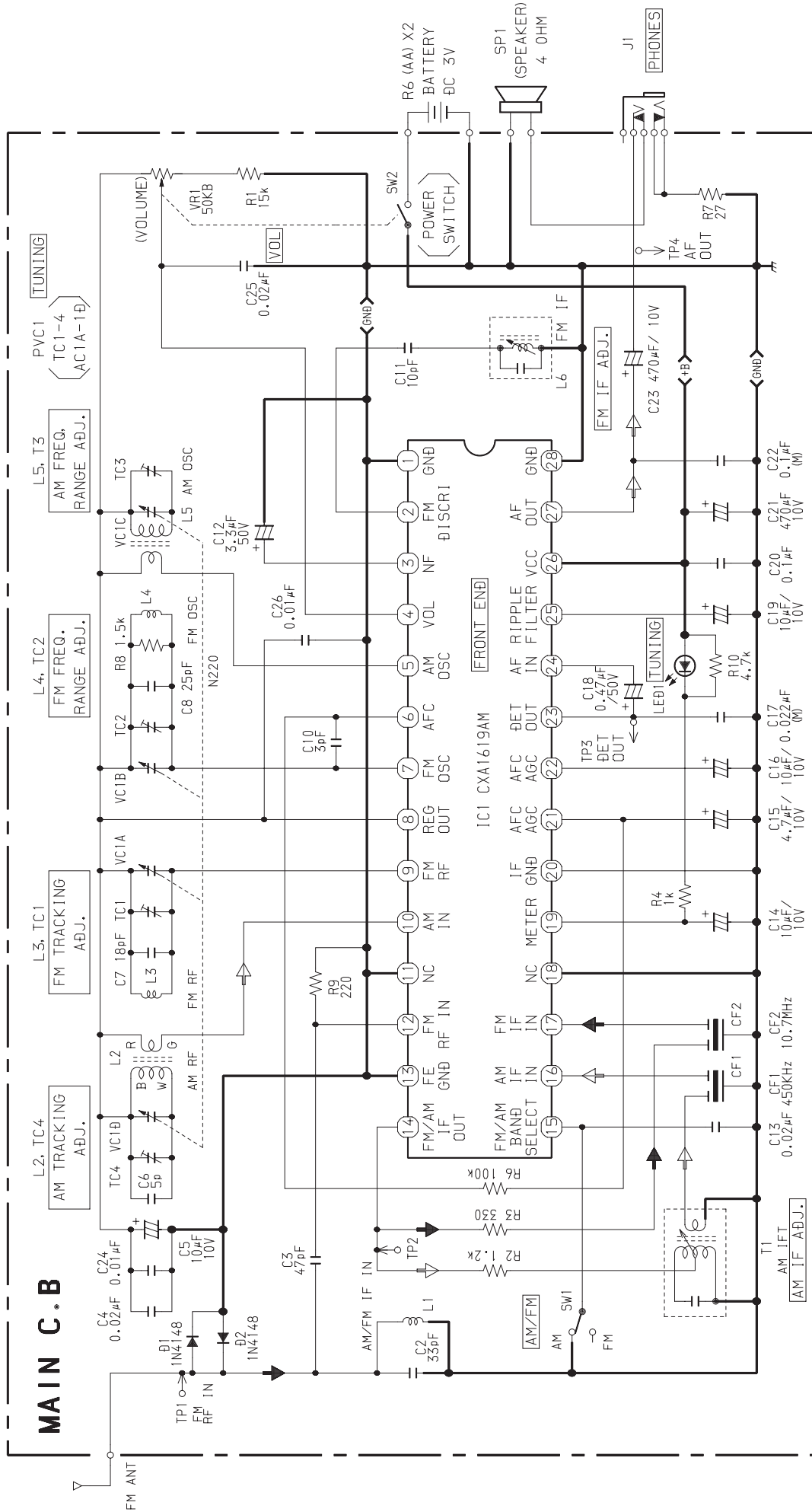
< FM SECTION >

Sensitivity:	Less than 16dB
(THD 3%)	(at 88, 98, 100MHz)
Distortion:	Less than 2% (at 98MHz)
(Input 60dB)	
Intermediate frequency:	10.7MHz

WIRING

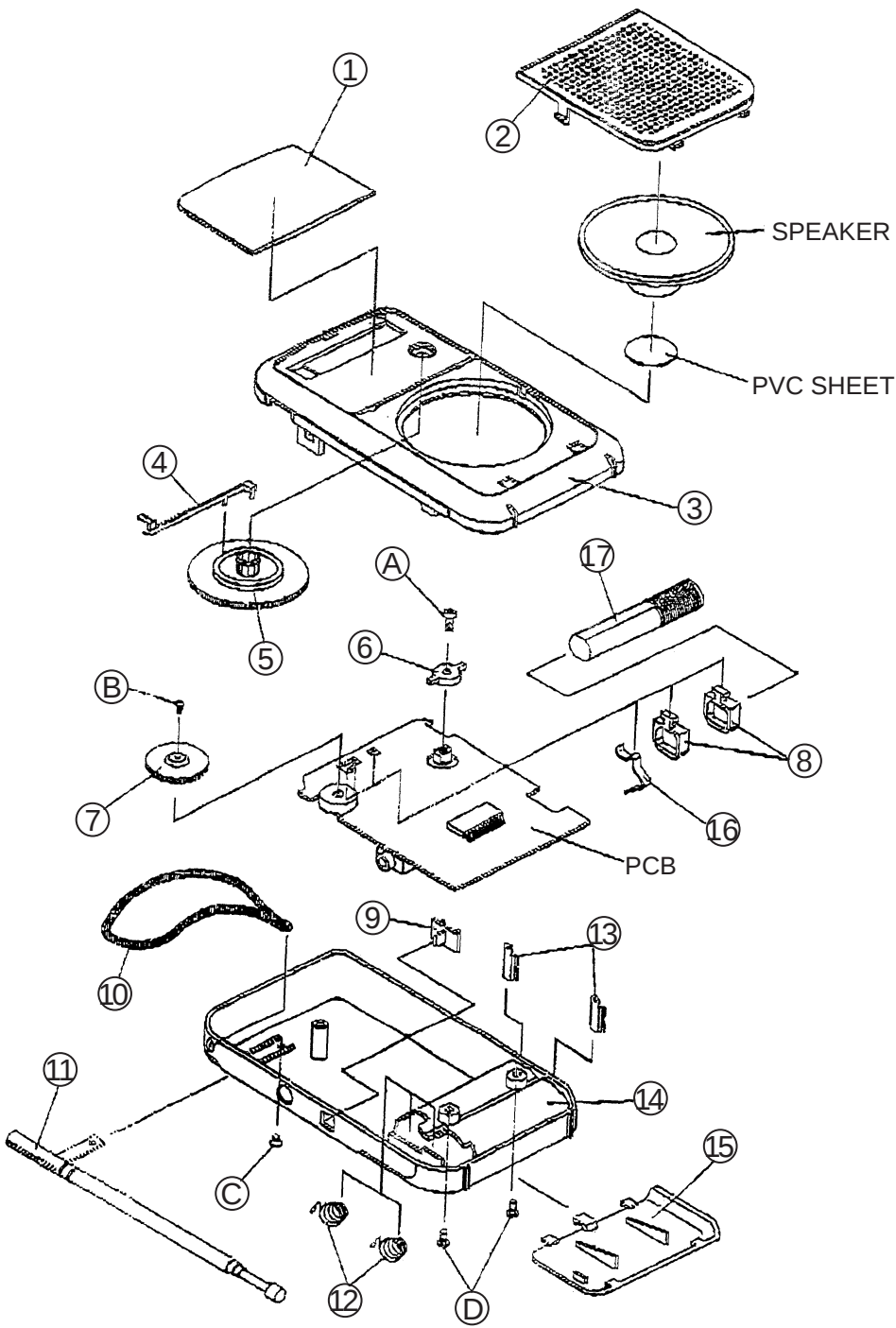


SCHEMATIC DIAGRAM



		PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14
CXA1619AM		FM	0	2.18	1.5	0.76	1.22	1.42	1.22	1.22	1.22	1.22	0	0.32	0	0.4
		AM	0	2.7	1.5	0.76	1.22	1.07	1.22	1.22	1.22	1.22	0	0	0	0.1
	PINS VOLTAGE	PIN	15	16	17	18	19	20	21	22	23	24	25	26	27	28
VCC=3.0V		FM	1.28	0	1.27	0	0	0	0.82	1.43	1.61	0	2.7	3.0	1.52	0
		AM	0	0	0	0	0	0	1.47	1.08	0.97	0	2.7	3.0	1.52	0

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	S0-801-070-100		LENS, DIAL
2	S1-600-770-000		GRILLE, SPKR
3	S0-101-340-000		CAB, FRONT
4	S0-700-360-000		POINTER, DIAL
5	S0-502-360-001		KNOB, RTRY TUN
6	S1-000-150-001		HLDR JOIN
7	S0-502-370-000		KNOB, RTRY VOL
8	S1-009-011-000		BAR HOLDER
9	S0-400-940-000		KNOB, BAND SWITCH
10	S0-100-050-000		HAND STRAP (BLK)
11	S2-010-010-803		ANT, ROD FM
12	S0-201-660-000		BATT, CONTACT (-)
13	S0-201-650-000		BATT, CONTACT (+)
14	S0-201-330-200		CABI, REAR (CRAS16YJ)
15	S0-301-190-000		DOOR, BATT
17	S1-110-100-121		BAR, ANT AM 10-50
A	87-265-071-210		PAN M-SCREW M2.6-4
B	S9-717-040-200		SPECIAL HEAD M1.7-4
C	S6-026-025-000		FLAT M-SCREW M2.6-2.5
D	87-841-035-410		S-SCREW, 2-6 PB

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		



サービス技術ニュース	
番号	連絡内容
Gー ー	
Gー ー	
Gー ー	

アイワ株式会社 〒110 東京都台東区池之端1-2-11 ☎03（3827）3111（代表）
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111