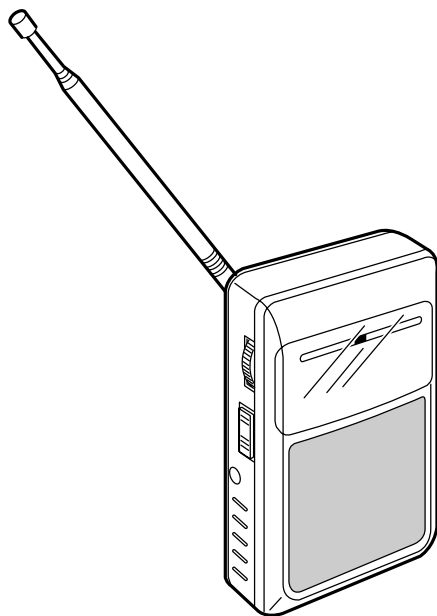




SERVICE MANUAL

RADIO RECEIVER

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” of CR-AS24 <YZ(S)>, (S/M Code No. 09-023-457-5T1).

aiwa

S/M Code No. 09-024-457-5R1

REVISION

DATA

SPECIFICATIONS

Frequency range:	FM: 87.5 - 108 MHz AM: 530 - 1,605 kHz
Maximum output:	160 mW (EIAJ 4 Ω)
Power source:	DC 3 V using two R6 (size AA) batteries
Speaker:	Diameter 57 mm, 4 Ω
Maximum dimensions:	67.6 (W) x 114.7 (H) x 28.6 (D) mm (excluding projecting parts and controls)
Weight:	Approx. 133 g (excluding batteries)

- Design and specifications are subject to change without notice.

ELECTRICAL PARTS LIST

! =  SAFETY PARTS
C = Components marked

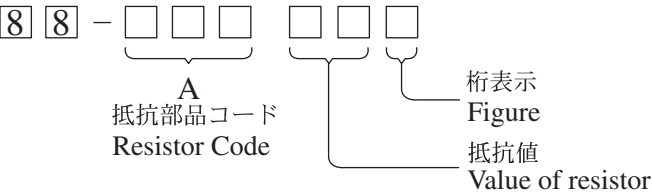
All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CR-AS24 YZBSC
MAIN	O C	0001	87-012-188-080	CHIP C CAP 47PF 50V +/-10% (1	a
MAIN	X C	0002	S8-056-250-500	CHIP CAP 25PF 50V +/-10% (160	a
MAIN	O C	0003	87-012-188-080	CHIP C CAP 47PF 50V +/-10% (1	a
MAIN	O C	0004	87-A10-801-080	C-CAP S CER 0.022UF 16V +/-10	a
MAIN	O C	0005	87-A10-468-080	ELECT CAPACITOR 10UF 10V +/-2	a
MAIN	O C	0006	87-012-167-080	C-CAP 5PF 50V +/-0.25P NPO 16	a
MAIN	O C	0007	87-012-180-080	C-CAP 22P 50V +/-5% NPO 1608	a
MAIN	O C	0008	87-012-182-080	CHIP CAP NPO 27PF 50V +/-5% (	a
MAIN	O C	0009	87-012-168-080	CHIP C CAP 6PF 50V +/-0.25PF	a
MAIN	O C	0010	87-012-164-080	CHIP C.CAP 2PF 50V +/-0.25PF	a
MAIN	O C	0012	87-010-403-080	ELECT.CAPACITOR 3.3UF 50V +/-	a
MAIN	X C	0013	S8-036-103-500	CHIP C-CAP S 0.01UF 16V +/-10	a
MAIN	O C	0014	87-A10-468-080	ELECT CAPACITOR 10UF 10V +/-2	a
MAIN	O C	0015	87-010-404-080	ELECT CAPACITOR 4.7UF 50V +/-	a
MAIN	O C	0016	87-A10-468-080	ELECT CAPACITOR 10UF 10V +/-2	a
MAIN	O C	0017	87-A10-801-080	C-CAP S CER 0.022UF 16V +/-10	a
MAIN	O C	0018	87-010-400-080	ELECT.CAPACITOR 0.47UF 50V +/-	a
MAIN	O C	0019	87-A10-468-080	ELECT CAPACITOR 10UF 10V +/-2	a
MAIN	X C	0020	S5-140-104-400	CERAMIC CAPACITOR 0.1UF 25V +	a
MAIN	O C	0021	87-010-221-080	ELECT CAP 470UF 10V +/-20% (6	a
					CR-AS24 YZBSC
MAIN	O C	0022	87-016-453-080	CHIP C-CAP 0.1UF 16V +80% -20	a
MAIN	O C	0023	87-010-221-080	ELECT CAP 470UF 10V +/-20% (6	a
MAIN	X C	0024	S8-036-103-500	CHIP C-CAP S 0.01UF 16V +/-10	a
MAIN	O C	0025	87-A10-801-080	C-CAP S CER 0.022UF 16V +/-10	a
MAIN	X C	0026	S8-036-103-500	CHIP C-CAP S 0.01UF 16V +/-10	a
MAIN	O CF	0001	S1-910-010-300	CERAMIC FILTER 450KHZ SFU450B	a
MAIN	O CF	0002	S2-310-011-700	CERAMIC FILTER 10.7MHZ MA5-A	a
MAIN	O CF	0003	S2-310-010-100	DISCRMINATOR FILTER CDA10.7MH	a
MAIN	S D	0001	82-135-799-010	DIODE IN4148-US-T (TAPE TYPE	a
MAIN	S D	0002	82-135-799-010	DIODE IN4148-US-T (TAPE TYPE	a
MAIN	O HP	0001	S1-210-011-500	DIA3.5 STEREO JACK TC38-010	a
MAIN	S IC	0001	S2-522-426-000	IC KA22426D	a
MAIN	O L	0001	8B-RT9-601-010	FM SPRING COIL DIA 3.5x4.5Tx0	a
MAIN	O L	0002	S1-110-020-000	FM SPRING COIL DIA3.5x3.5Tx0.	a
MAIN	O L	0003	8B-RT9-601-010	FM SPRING COIL DIA 3.5x4.5Tx0	a
MAIN	O L	0005	S1-110-013-200	AM OSC COIL 8441A 7Z0-93100 (	a
MAIN	O L	0006	S1-110-100-121	AM BAR ANTENNA SET 10x50MM (A	a
MAIN	O L	0009	S2-810-010-600	AXIAL LEAD INDUCTOR 1.5uH 1/8	a
MAIN	O LED	0001	S5-570-100-100	DIA3.0MM LED LAMP (RED) 202HD	a
MAIN	X PVC	0001	S2-010-015-500	PVC AM/FM FC-22125-4N000-0	a
					CR-AS24 YZBSC
MAIN	O R	0001	88-118-153-080	CHIP RESISTOR 15K OHM 1/10W +	a
MAIN	X R	0002	88-118-122-080	CHIP RESISTOR 1.2K OHM 1/10W	a
MAIN	O R	0003	88-118-331-080	CHIP RESISTOR 330 OHM 1/10W +	a
MAIN	O R	0004	88-118-102-080	CHIP RESISTOR 1K OHM 1/10W	a
MAIN	O R	0005	88-118-472-080	CHIP RESISTER 4.7K OHM 1/10W	a
MAIN	O R	0006	88-121-104-080	CARBON FILM RESISTOR 100K OHM	a
MAIN	X R	0007	88-118-220-080	CHIP RESISTOR 22 OHM 1/10W +/-	a
MAIN	X R	0008	88-118-152-080	CHIP RESISTOR 1.5K OHM 1/10W	a
MAIN	X R	0009	88-118-221-080	CHIP RESISTOR 220 OHM 1/10W +	a
MAIN	X R	0010	88-118-151-080	CHIP RESISTOR 150 OHM 1/10W +	a
MAIN	O R	0011	88-118-102-080	CHIP RESISTOR 1K OHM 1/10W	a
MAIN	O SW	0001	S3-112-005-000	SLIDE SWITCH SKA-12D01S-G4-NA	a
MAIN	O T	0001	S1-007-000-600	AM IFT 7.8X7.8X12.5MM (WHITE)	a
MAIN	O VR	0001	S1-050-311-200	ROTARY VOL R121S-10-1.5F-A50K	a
MAIN	X W	0001	S2-021-001-100	UL-1007 STRANDED AWG#30 100MM	a
MAIN	X W	0002	S2-040-901-100	UL-1007 STRANDED AWG#30 L=90M	a
MAIN	X W	0003	S2-010-501-100	UL-1007 STRANDED AWG#30 50MM	a
MAIN	X W	0004	S2-020-301-100	UL-1007 STRANDED AWG#30 30MM	a
MAIN	X W	0005	S2-001-101-100	UL-1007 STRANDED AWG#30 110MM	a
MAIN	X W	0006	S2-090-401-100	UL-1007 STRANDED AWG#30 40MM	a

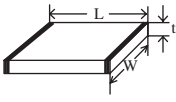
チップ抵抗部品コード／CHIP RESISTOR PART CODE

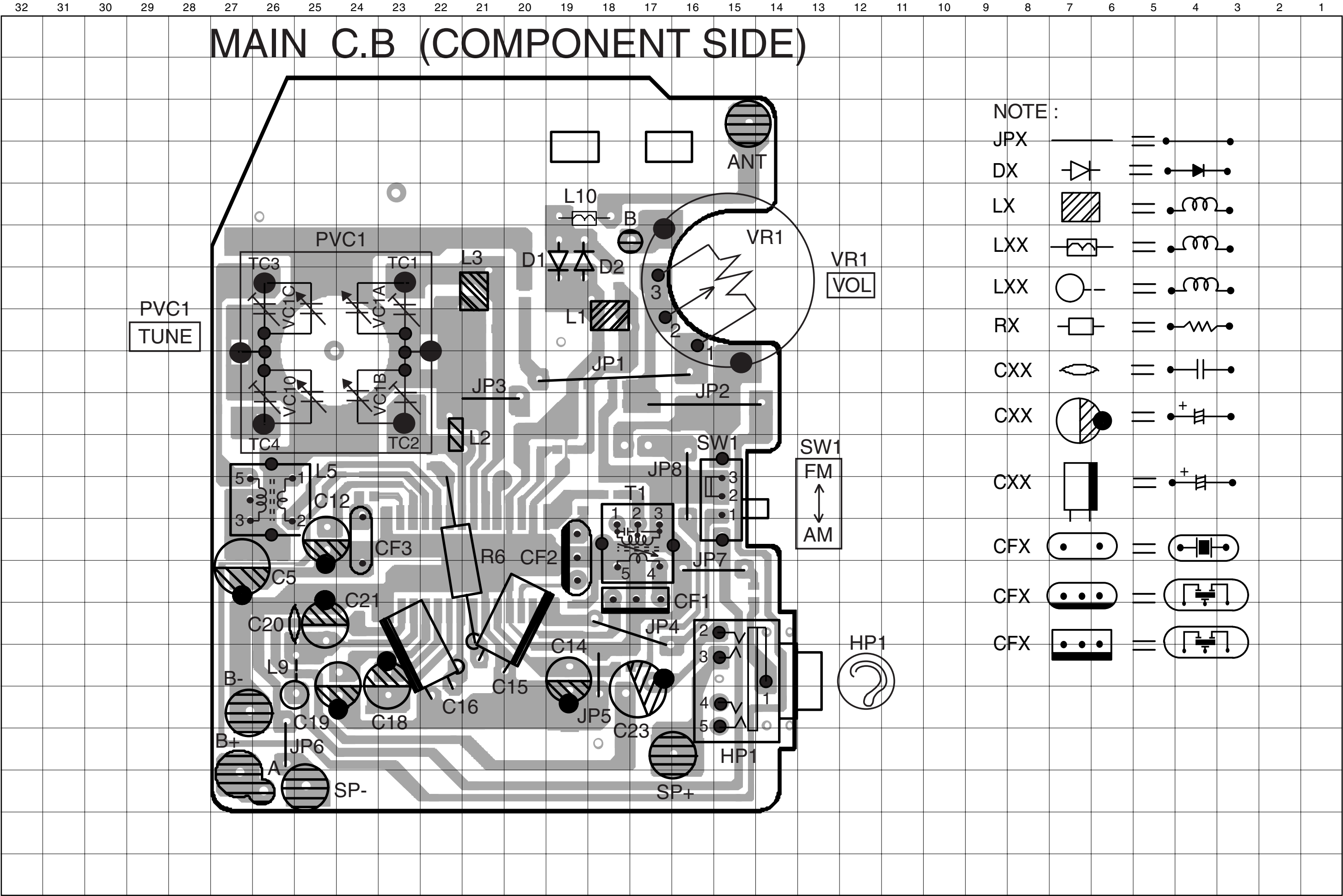
チップ抵抗部品コードの成り立ち

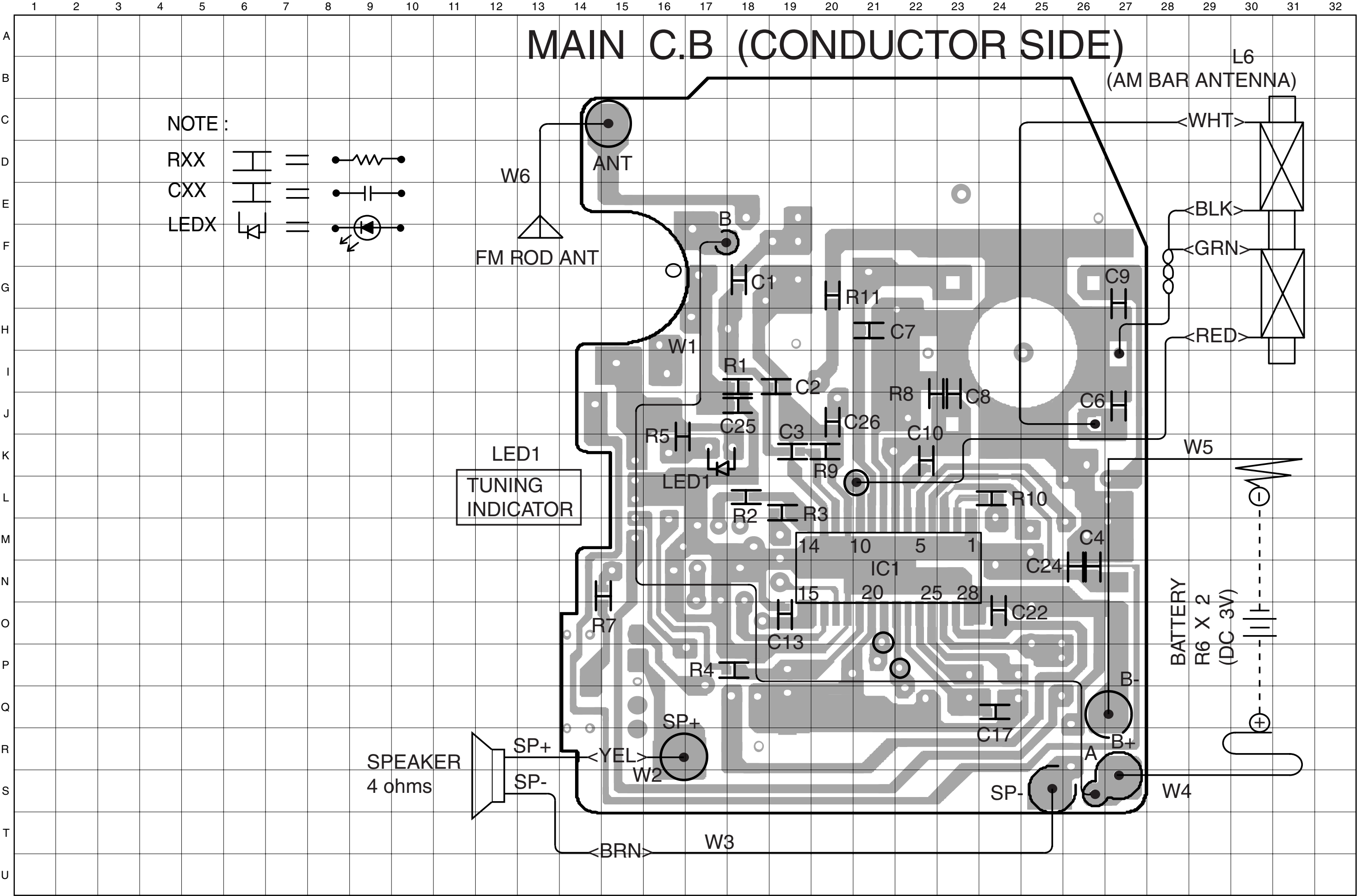
Chip Resistor Part Coding

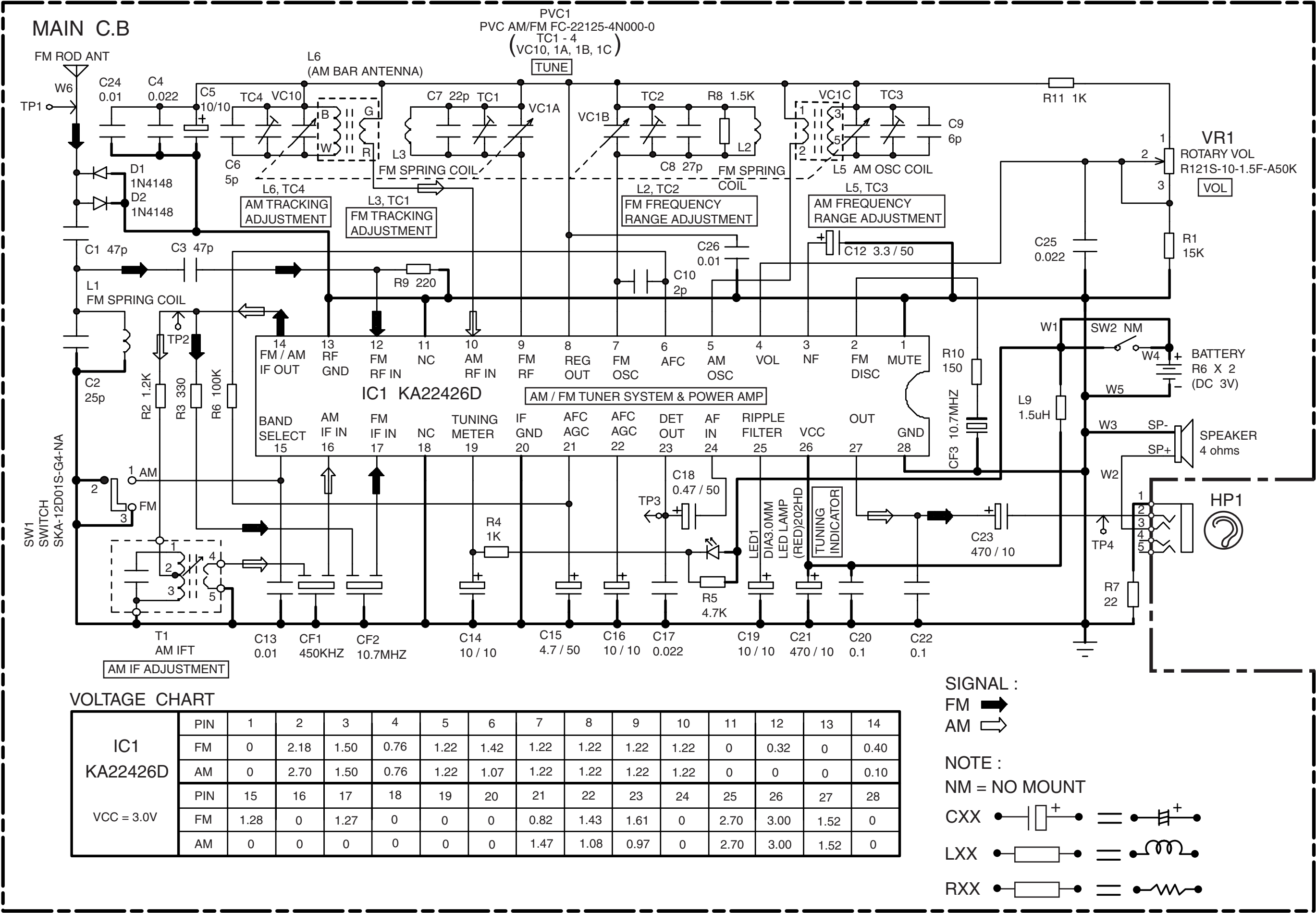


チップ抵抗
Chip resistor

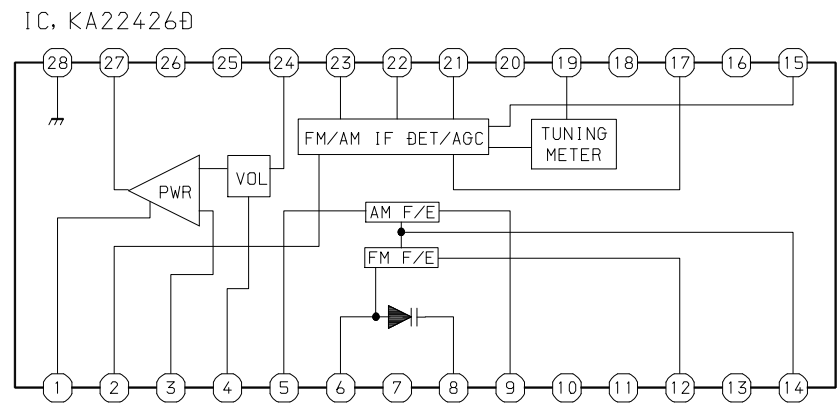
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A
				外形／Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128





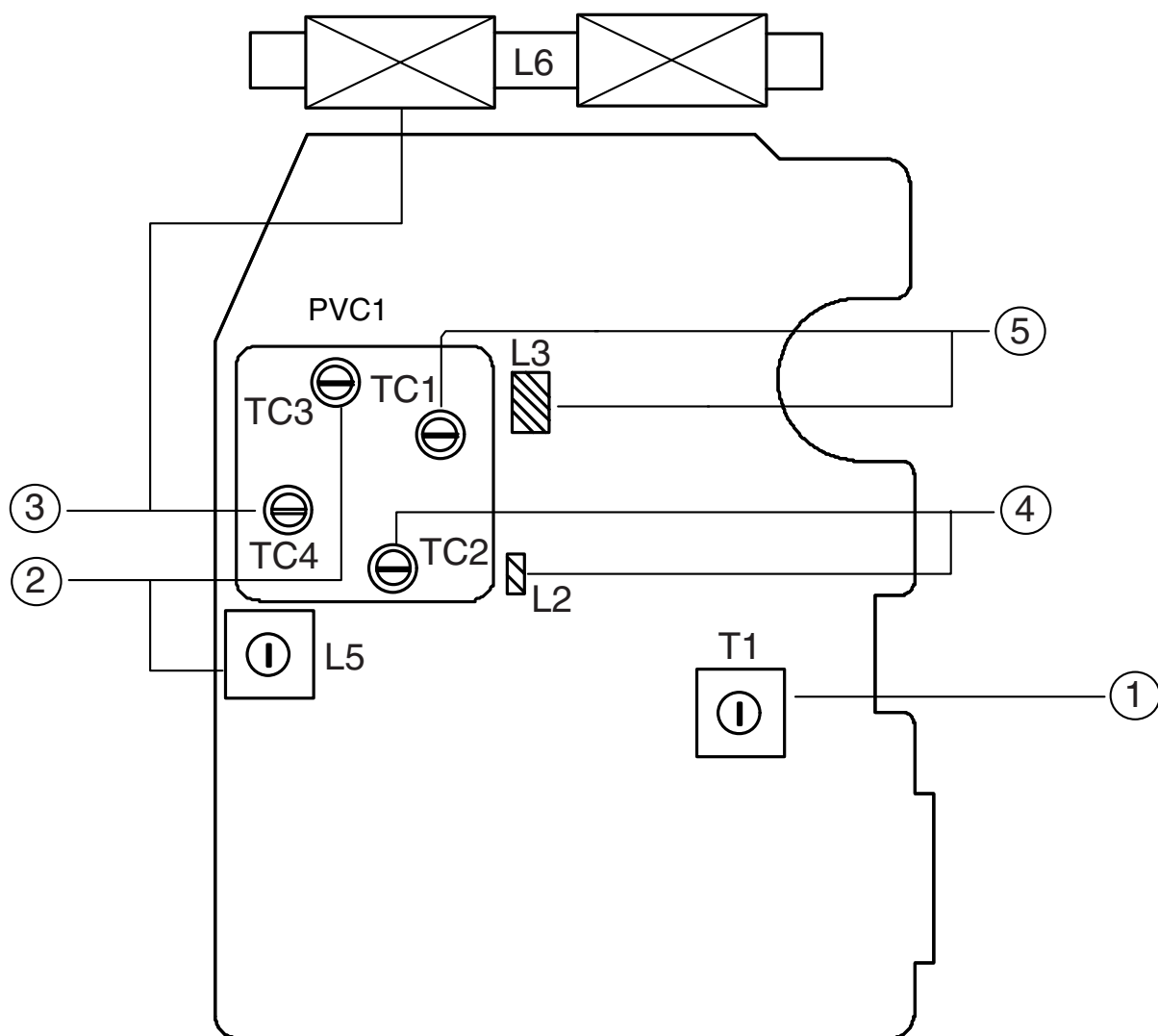


IC BLOCK DIAGRAM



ADJUSTMENT

MAIN C.B (COMPONENT SIDE)



1. AM IF Adjustment

Settings : Test point IC1(KA22426D) pin 23

Adjustment Location : T1

T1 450kHz

2. AM Frequency Range Adjustment

Settings : Test point IC1(KA22426D) pin 23

Adjustment Location : L5, TC3

L5 515kHz $\pm$ 5kHz

TC3 1635kHz $\pm$ 20kHz

3. AM Tracking Adjustment

Settings : Test point IC1(KA22426D) pin 23

Adjustment Location : L6, TC4

L6 600kHz

TC4 1400kHz

4. FM Frequency Range Adjustment

Settings : Test point IC1(KA22426D) pin 23

Adjustment Location : L2, TC2

L2 87.4MHz $\pm$ 0.1/-0.2MHz

TC2 108.3MHz $\pm$ 0.2MHz

5. FM Tracking Adjustment

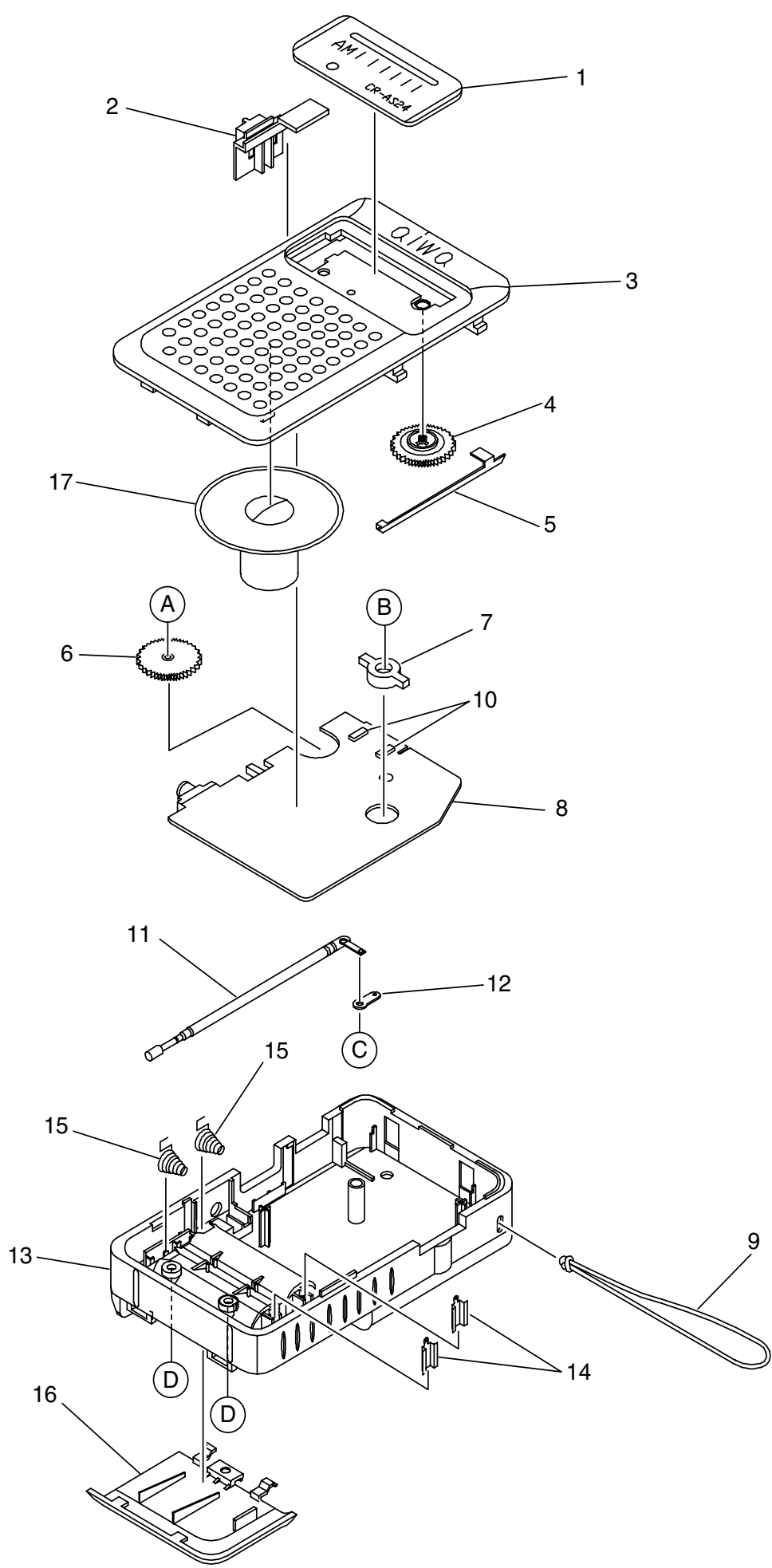
Settings : Test point IC1(KA22426D) pin 23

Adjustment Location : L3, TC1

L3 88MHz

TC1 108MHz

MECHANICAL EXPLODED VIEW



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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	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

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This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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アイワ株式会社 〒110-8710 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 110-8710, JAPAN TEL:03(3827)3111

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