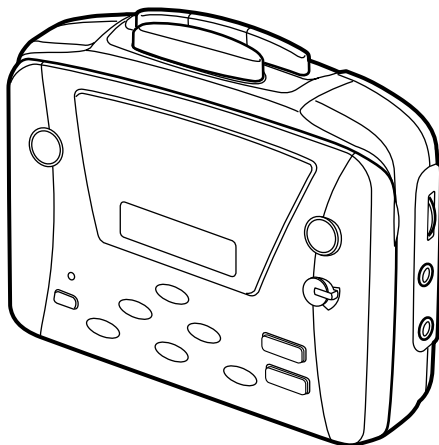




SERVICE MANUAL

STEREO RADIO
CASSETTE PLAYER

BASIC TAPE MECHANISM : 4ZM-2 P5NF
P5NC

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" HS-TX406 (YH,YJ). (S/M Code No. 09-99B-423-0T1).

SPECIFICATIONS

Frequency range:	For using in North and South America AM: 530 – 1,710 kHz (10 kHz step) FM1,FM2: 87.5 – 108.1 MHz (200 kHz step) For using in Europe and other countries AM: 531 – 1,602 kHz (9 kHz step) FM1,FM2: 87.5 – 108 MHz (50 kHz step)
Maximum output:	15 mW + 15 mW (EIAJ/32 Ω)
Power source:	DC 3 V using two R6 (size AA) dry cell batteries
Battery life (EIAJ 1 mW output):	Approx. 7 hours using R6P (size AA) manganese batteries Approx. 22 hours using LR6 (size AA) alkaline batteries
Maximum dimensions:	116.7 (W) x 91.5 (H) x 35 (D) mm ($4\frac{5}{8}$ x $3\frac{5}{8}$ x $1\frac{7}{16}$ in.)
Weight	Approx.142 g (4.97 oz) (excluding batteries)

- Design and specifications are subject to change without notice.

ACCESSORIES / PACKAGE LIST

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
1	8A-HRC-913-010	IB, YH (EC)	-C<YH>
1	8A-HRC-915-010	IB, YJ (EC)	-IN<YJ>
2	84-447-019-310	CLIP, BELT	
3	87-B30-258-010	HEADPHONE, HP-M007B (F)	<YH>
3	87-B30-150-210	HEADPHONE, HP-M006A (F)	<YJ>

ELECTRICAL MAIN PARTS LIST

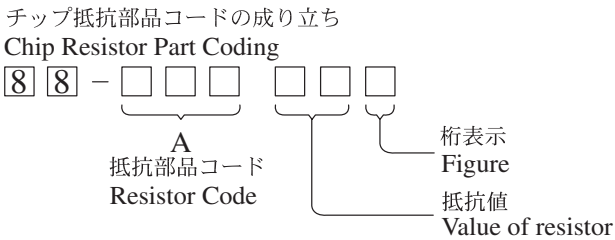
REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-235-080	C-IC, LAG668FTF	
	87-A20-851-040	C-IC, TA2111F	
	87-A21-149-010	C-IC, TC9322FB-501	
	87-A20-904-080	C-IC, TK11823MTL	
TRANSISTOR			
	89-113-625-080	TR, 2SA1362GR	
	87-026-210-080	CHIP-TR, DTC144EK	
	87-026-264-080	C-TR, RN1411	
	87-026-262-080	C-TR, RN1407	
	89-327-143-080	TR, 2SC2714 (0.1W)	
	87-026-268-080	C-TR, RN2411	
	87-A30-159-080	C-TR, KTA1298Y	
	89-327-125-080	CHIP TR, 2SC2712GR	
DIODE			
	87-001-142-080	DIODE, 1SS294 (100MA)	
	87-020-027-080	CHIP-DIODE 1SS184	
MAIN C.B			
	87-A91-093-010	FLTR, KIT KSKM2-AO-003	
BPF101	87-A91-682-010	FLTR, GFWB7-C1	
C1	87-A11-552-080	C-CAP, S 1200P-50 K B<YH>	
C1	87-010-179-080	C-CAP, S 1200P-50 K B GRM<YJ>	
C2	87-A11-552-080	C-CAP, S 1200P-50 K B<YH>	
C2	87-010-179-080	C-CAP, S 1200P-50 K B GRM<YJ>	
C3	87-015-676-040	E/CAP 47/6.3	
C4	87-010-820-040	CAP, E 47-4 (MJ)	
C5	87-A11-585-080	C-CAP, S 0.033-25 K B	
C6	87-A11-585-080	C-CAP, S 0.033-25 K B	
C7	87-012-141-080	C-CAP, S 0.22-16 Z F C2012	
C8	87-012-141-080	C-CAP, S 0.22-16 Z F C2012	
C9	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C10	87-010-822-040	CAP, E 220-4 (MJ)	
C11	87-010-822-040	CAP, E 220-4 (MJ)	
C12	87-A11-551-080	C-CAP, S 1000P-50 K B	
C13	87-A11-235-080	C-CAP, TN 3.3-4 M AM004R	
C14	87-A10-489-080	CAP, E 220-4 7L SR	
C15	87-A11-187-080	C-CAP, TN 10-4 AM004R	
C16	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C17	87-A10-489-080	CAP, E 220-4 7L SR	
C18	87-A11-550-080	C-CAP, S 820P-50 K B<YH>	
C18	87-010-177-080	C-CAP, S 820P-50 J SL <YJ>	
C19	87-A11-550-080	C-CAP, S 820P-50 K B<YH>	
C19	87-010-177-080	C-CAP, S 820P-50 J SL <YJ>	
C20	87-A11-551-080	C-CAP, S 1000P-50 K B	
C21	87-A11-551-080	C-CAP, S 1000P-50 K B	
C22	87-A11-187-080	C-CAP, TN 10-4 AM004R	
C23	87-010-805-080	C-CAP, S 1-16 Z F	
C24	87-A11-187-080	C-CAP, TN 10-4 AM004R	
C25	87-010-805-080	C-CAP, S 1-16 Z F	
C101	87-010-194-080	CAP, CHIP 0.047	
C102	87-010-197-080	CAP, CHIP 0.01 DM	
C103	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C104	87-012-153-080	C-CAP, S 120P-50 CH	
C105	87-012-140-080	CAP 470P	
C106	87-012-153-080	C-CAP, S 120P-50 CH	
C107	87-010-145-080	C-CAP, S 1P-50 CH	
C108	87-012-155-080	C-CAP 180P-50CH	
C110	87-010-154-080	CAP CHIP 10P	
C112	87-010-311-080	CAP 12P	
C113	87-010-154-080	CAP CHIP 10P	
C114	87-010-197-080	CAP, CHIP 0.01 DM	
C115	87-010-146-080	CHIP CAP 2PF	
C117	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C118	87-010-805-080	CAP, S 1-16	
C119	87-010-197-080	CAP, CHIP 0.01 DM	
C120	87-010-183-080	C-CAP, S 2700P-50 B	

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
C121	87-012-157-080	C-CAP, S 330P-50 CH	
C122	87-012-141-080	CHIP-CAPACITOR, 0.22-16F	
C123	87-012-141-080	CHIP-CAPACITOR, 0.22-16F	
C124	87-010-805-080	CAP, S 1-16	
C125	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C126	87-010-196-080	CHIP CAPACITOR, 0.1-25	
C127	87-010-419-040	CAP, E 4.7-16 5L	
C128	87-010-452-080	CAPACITOR, 1-16	
C129	87-010-426-080	C-CAP, S 0.012-25 B	
C130	87-010-426-080	C-CAP, S 0.012-25 B	
C131	87-010-213-080	C-CAP, S 0.015-50 B	
C132	87-010-213-080	C-CAP, S 0.015-50 B	
C133	87-010-822-040	CAP, E 220-4 (MJ)	
C136	87-010-178-080	CHIP CAP 1000P	
C138	87-016-461-080	C-CAP, S 0.47-16F	
C140	87-012-156-080	C-CAP, S 220P-50 CH	
C142	87-010-322-080	C-CAP, S 100P-50 CH	
C145	87-010-176-080	C-CAP, S 680P-50 SL	
C146	87-010-178-080	C-CAP, S 1000P-50 KB	
C147	87-010-321-080	CHIP CAPACITOR, 82P (J)	
C149	87-012-140-080	C-CAP, S 470-50 J CH	
C150	87-010-177-080	C-CAP, S 820P-50 SL	
C401	87-010-196-080	C-CAP, 0.1-25	
C402	87-010-196-080	C-CAP, 0.1-25	
C403	87-010-805-080	CAP, S 1-16	
C404	87-010-805-080	CAP, S 1-16	
C405	87-015-674-010	CAP 22U-6.3V	
D101	87-A40-799-040	C-VARI-CAP, KV1610S	
D102	87-A40-655-080	C-VARI-CAP, HVU200A	
D103	87-A40-655-080	C-VARI-CAP, HVU200A	
J1	85-HRL-623-010	JACK, 3.5 ST BLK	
J2	87-A61-124-010	JACK, DC DIA2.75 BLK TC<YH>	
L1	87-A50-038-010	COIL, RF CHOKE	
L101	8A-HRC-605-010	BAR-ANT, MW	
L102	8A-HRC-607-010	COIL, FM RF	
L103	8A-HRC-606-010	COIL, OSC FM	
L104	87-005-742-080	COIL, 100UH J SP02	
L105	87-A91-063-010	IFT, AM 450KHZ	
R9	87-A00-330-080	RES, M/F 220-1/8W 3900PPM	
SFR1	87-A91-057-040	C-SFR, 3.3K B RH03AXAN4X	
SW1	87-A90-133-110	SW, LEAF LSA1120JAU	
TH1	87-026-256-090	THERMISTOR, HT-100	
VC101	87-011-252-080	TRIMMER 10P LAR	
VR1	87-A90-981-010	VR, RTRY 20KBX1	
FRONT C.B			
C251	87-012-286-080	CAP, U 0.01-25	
C252	87-A11-056-080	C-CAP, U 1-10 Z F	
C254	87-A11-056-080	C-CAP, U 1-10 Z F	
C255	87-012-167-080	C-CAP, U 5P-50 CH	
C256	87-012-337-080	C-CAP, U 56P-50 CH	
C257	87-012-170-080	C-CAP, U 8P-50 CH	
C258	87-010-787-080	CAP, U 0.022-25	
C259	87-010-452-080	C-CAP, 1-16<YH>	
C259	87-010-505-080	C-CAP, TN 1-16 M ECS<YJ>	
C275	87-A11-056-080	C-CAP, U 1-10 Z F	
C277	87-A11-056-080	C-CAP, U 1-10 Z F	
C278	87-A11-056-080	C-CAP, U 1-10 Z F	
C279	87-A11-056-080	C-CAP, U 1-10 Z F	
C280	87-012-176-080	CAP 15P	
C281	87-012-176-080	CAP 15P	
C282	87-A10-706-080	C-CAP, U 0.33U-16 F Z	
C284	87-A10-263-080	C-CAP, U 0.1-16ZF	
C285	87-A10-263-080	C-CAP, U 0.1-16ZF	
C287	87-A10-263-080	C-CAP, U 0.1-16ZF	
C288	87-010-427-080	C-CAP, S 0.039-25 B	
L251	87-A50-443-080	C-COIL, D-D (C5-S)	
LCD201	88-HRC-610-110	LCD, HS ASSY (BAND/TU)	
R275	87-022-359-080	C-RES, S22K-1/10WF	
R276	87-022-359-080	C-RES, S22K-1/10WF	
R277	87-022-361-080	C-RES, S 47K-1/10W F	

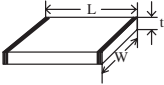
REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
SW213	87-A90-330-080	C-SW, SL 1-1-2 SSSS81	
TH201	87-A91-188-080	C-THMS, 47K NTH5G1M40B	
X201	87-A70-082-010	VIB, XTAL 75KHZ	

FLEX C.B		
	8A-HRC-604-010	FF-CABLE, 17P

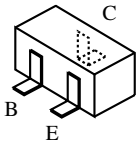
○チップ抵抗部品コード／CHIP RESISTOR PART CODE



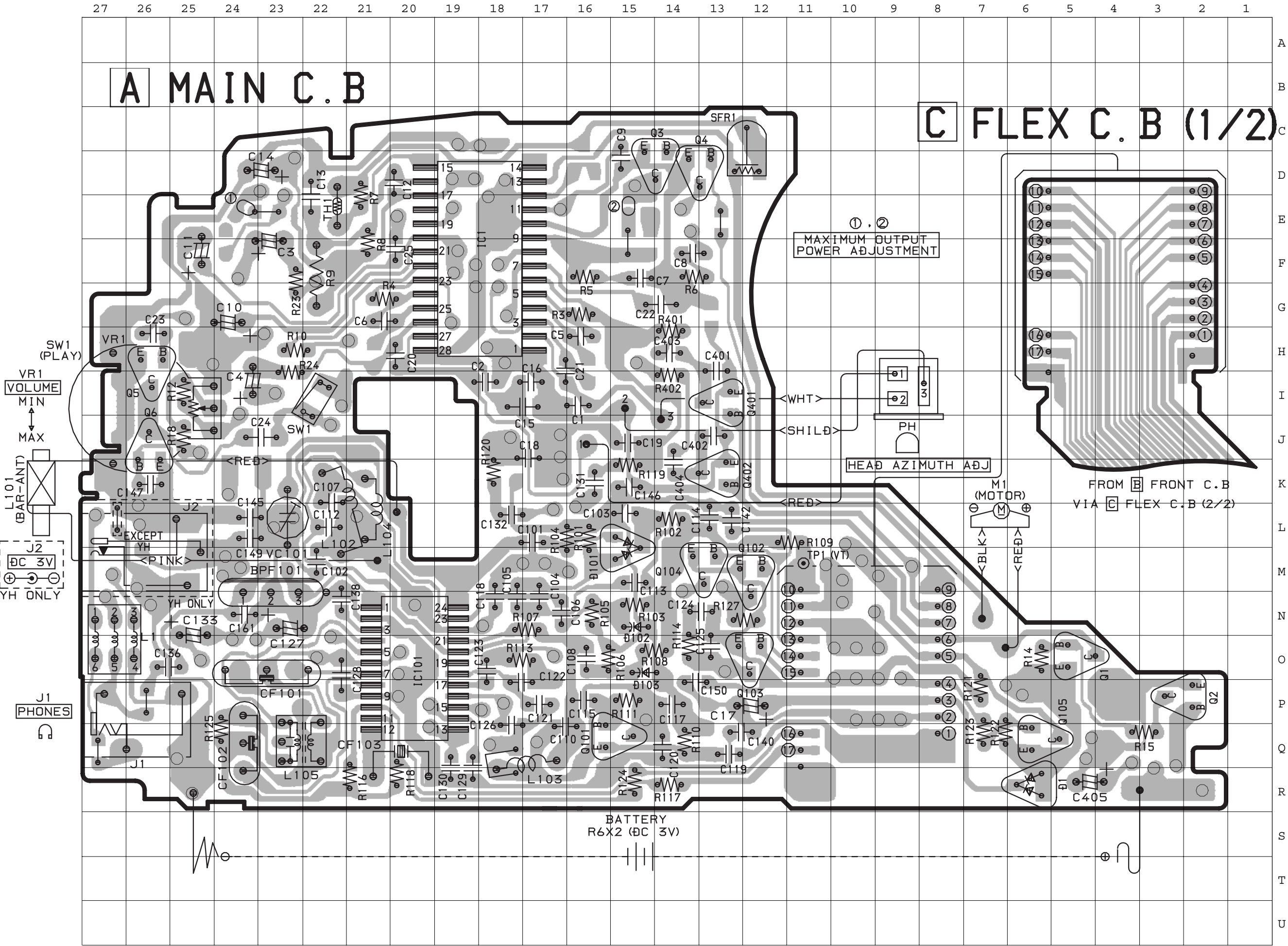
チップ抵抗
Chip resistor

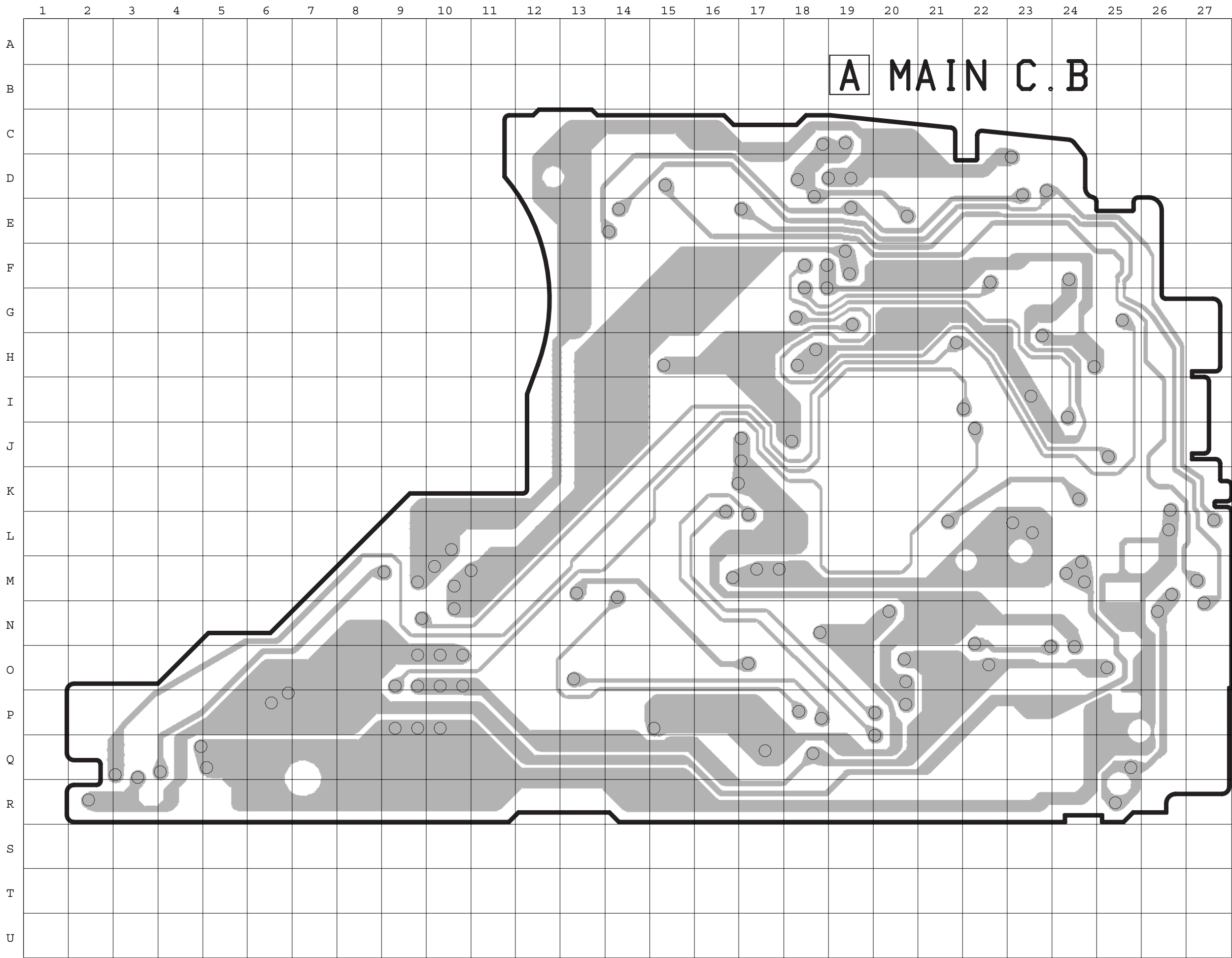
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

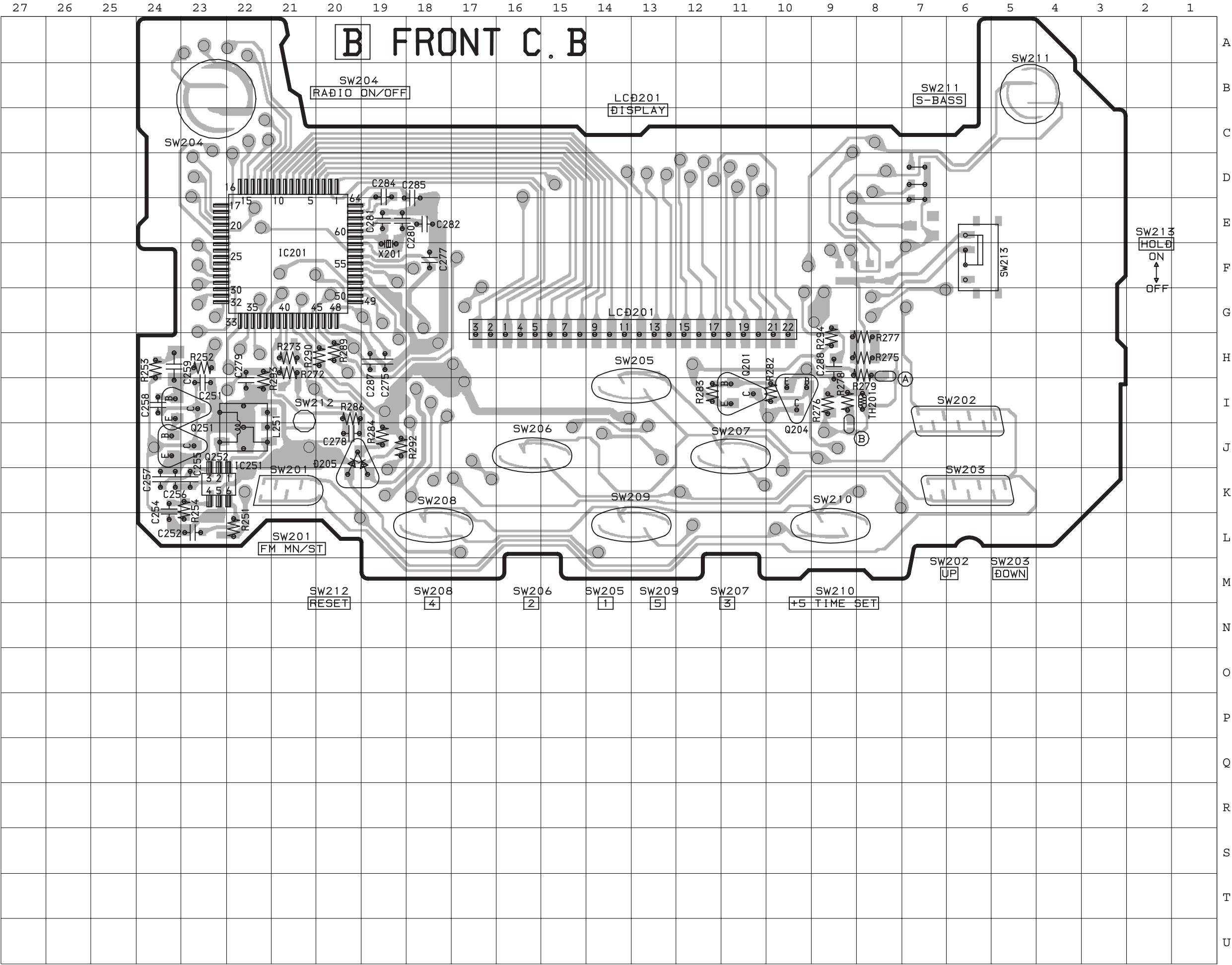
TRANSISTOR ILLUSTRATION

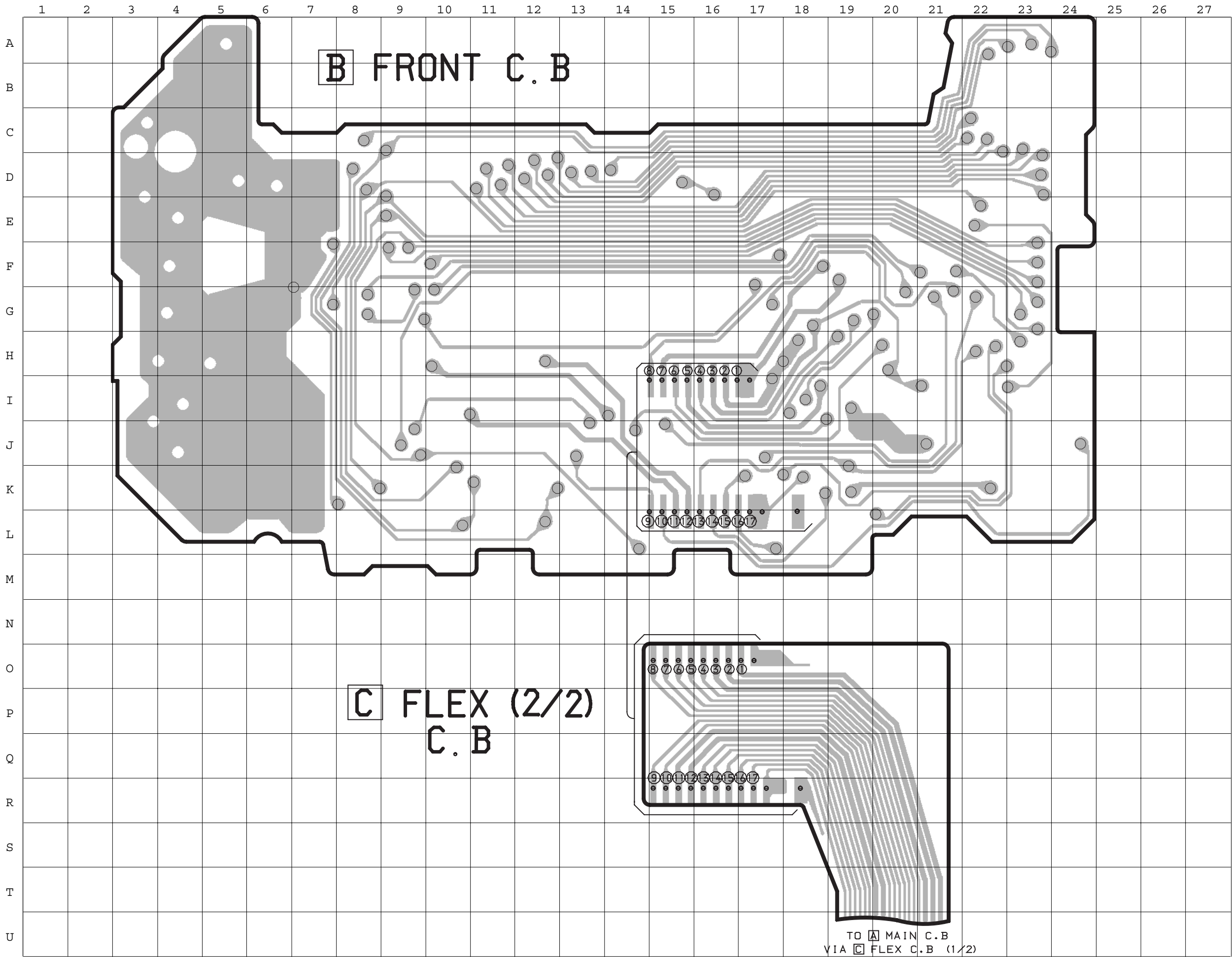


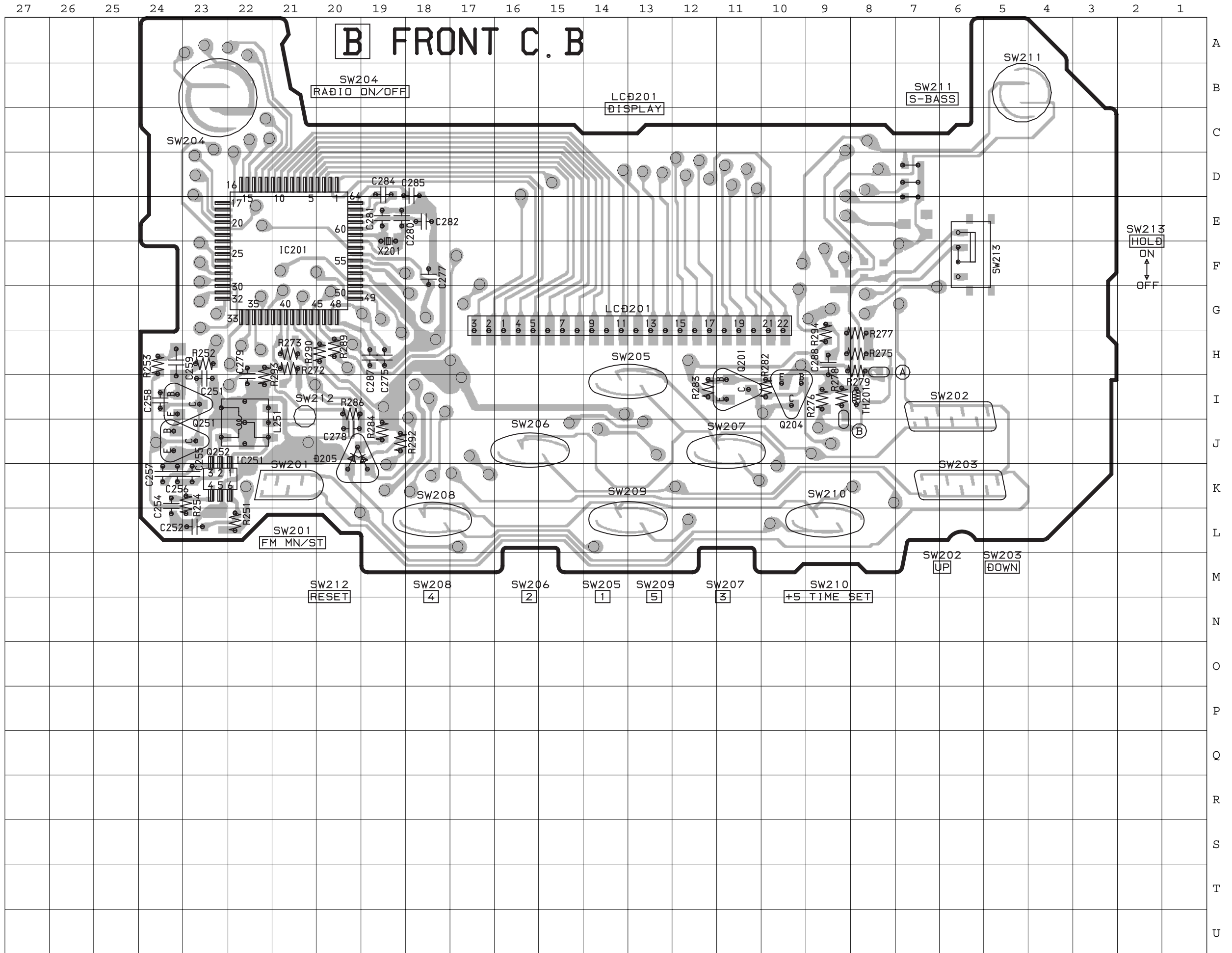
RN2411	2SA1362
RN1411	2SC2714
RN1407	2SC2712
DTC144EK	KTA1298

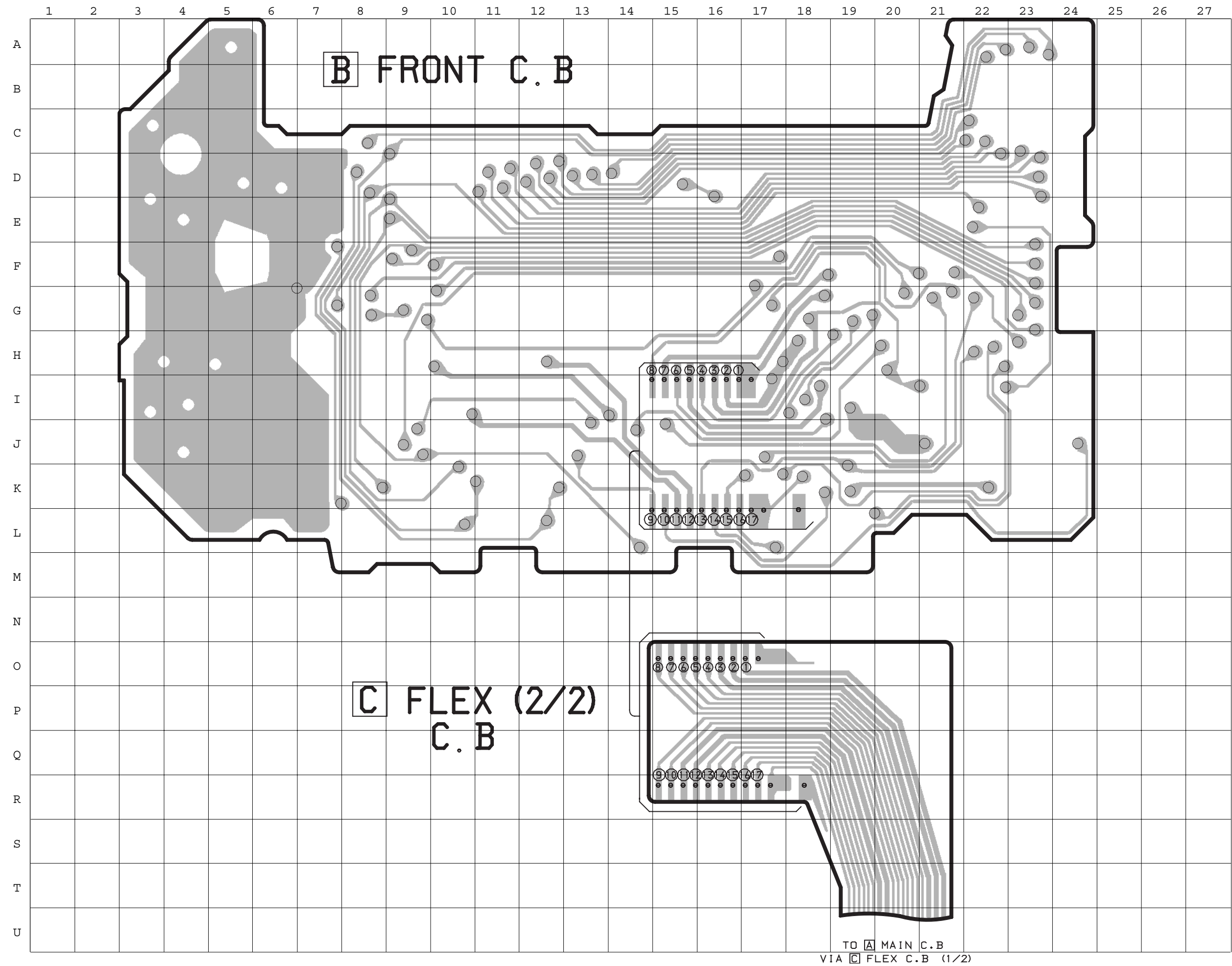




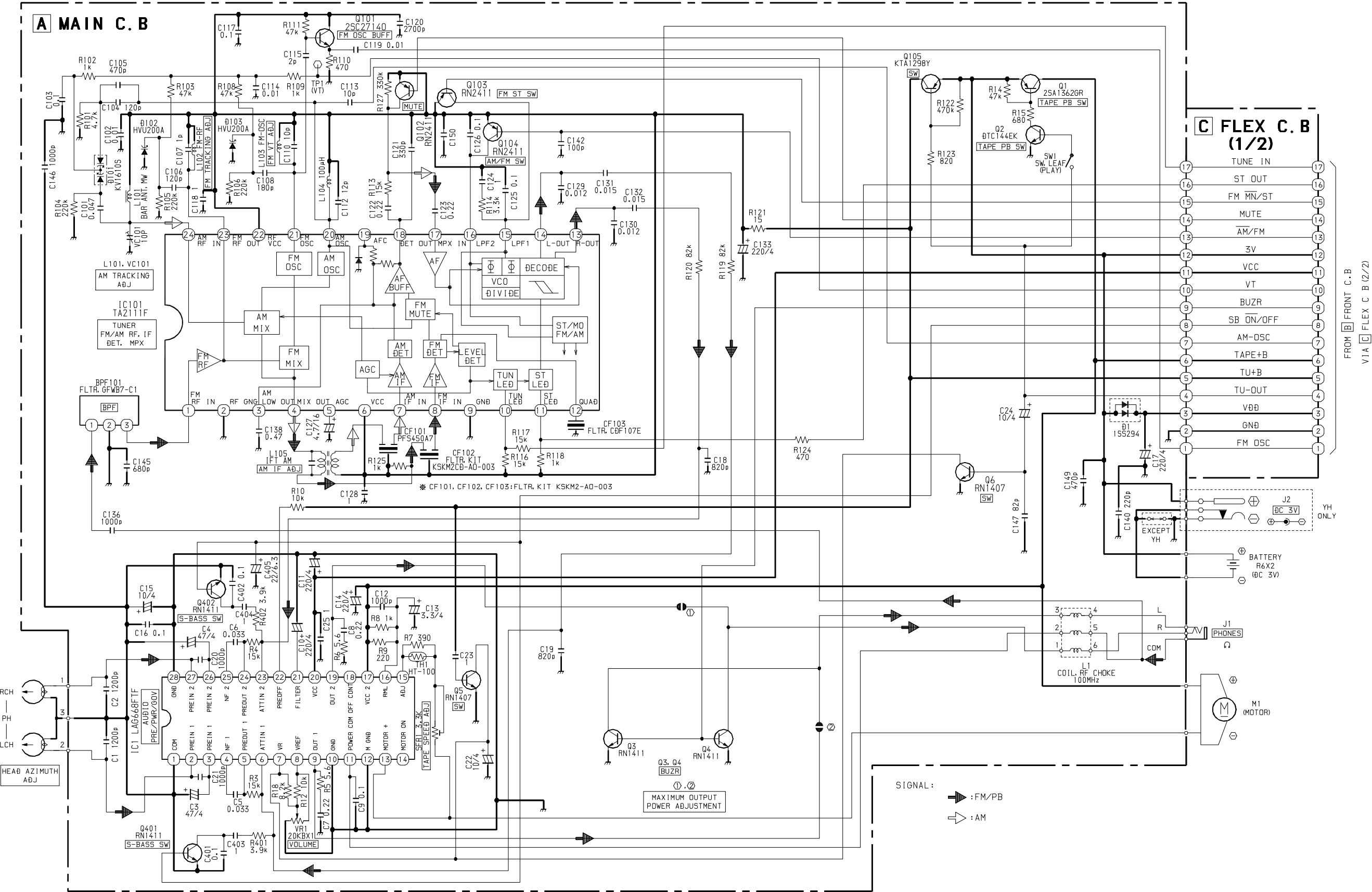








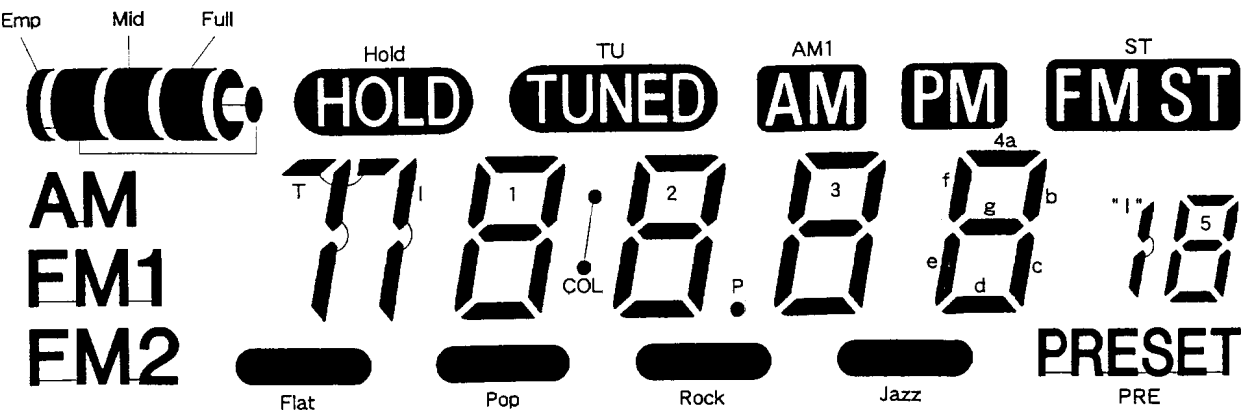
SCHEMATIC DIAGRAM - 1 (MAIN)





LCD DISPLAY

LCD, HS ASSY (BAND/TU)
GRID ASSIGNMENT



ANODE CONNECTION

No.	COM1	COM2	COM3
1	---	---	COM3
2	---	COM2	---
3	COM1	---	---
4	FM2	FM1	AM
5	Flat	Mid	Emp
6	I	T	Full
7	1e	1f	Hold
8	1d	1g	1a
9	Pop	1c	1b
10	COL	TU	AM1
11	2e	2f	2a
12	2d	2g	2b
13	Rock	2c	3f
14	P	3e	3g
15	3d	3c	3b
16	Jazz	4f	3a
17	4e	4g	4a
18	4d	4c	4b
19	PRE	5e	"I"
20	5d	5g	5f
21	5c	5b	5a
22	---	ST	PM

IC VOLTAGE CHART

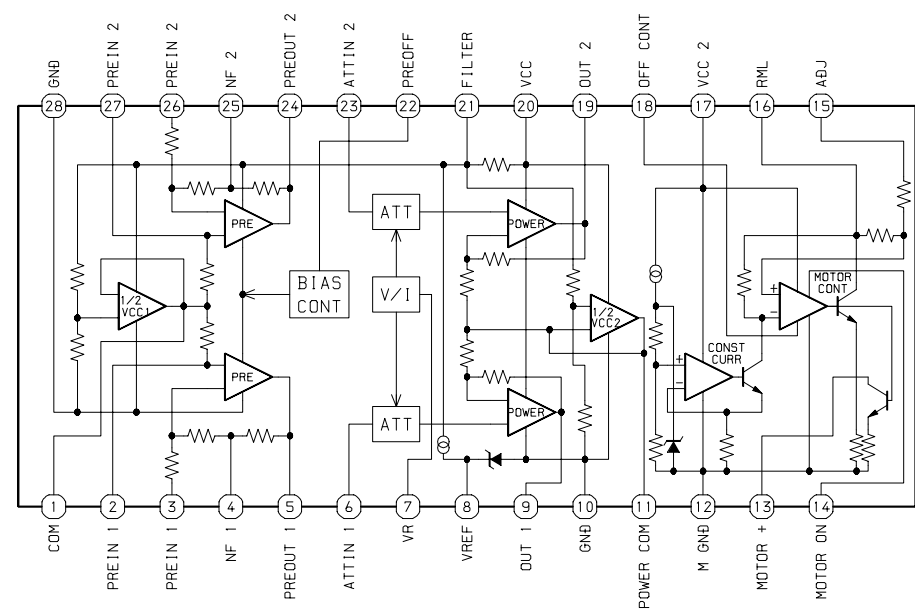
IC, TC9322FB-501

Pin No.	AM(V)	FM(V)	TAPE(V)	Pin No.	AM(V)	FM(V)	TAPE(V)
1	1.486	1.476	1.490	33	2.772	2.690	2.754
2	1.487	1.477	1.491	34	0.0027	0.0035	0.0019
3	1.488	1.477	1.490	35	1.083	2.608	2.674
4	1.477	1.464	1.478	36	2.136	2.690	2.754
5	1.475	1.464	1.475	37	2.616	0.0036	2.709
6	1.476	1.464	1.480	38	0.0028	2.690	2.755
7	1.478	1.463	1.478	39	0.028	0.0006	0.0022
8	1.475	1.462	1.481	40	2.139	2.079	2.132
9	1.478	1.463	1.479	41	2.609	2.545	2.711
10	1.476	1.463	1.479	42	1.460	1.475	1.473
11	1.476	1.463	1.479	43	0.855	0.0001	-0.0001
12	1.474	1.464	1.480	44	0.426	0.442	0.444
13	1.477	1.464	1.481	45	2.097	2.078	2.090
14	1.476	1.463	1.481	46	0.0027	0.0035	0.0017
15	1.475	1.463	1.479	47	2.772	2.690	2.780
16	1.475	1.464	1.481	48	0	0	0
17	1.475	1.463	1.481	49	2.334	2.331	2.326
18	1.476	1.464	1.480	50	2.874	2.812	-
19	1.476	1.463	1.482	51	0.731	0.762	2.765
20	1.474	1.464	1.479	52	1.032	1.026	0.0605
21	1.476	1.463	1.479	53	0	0	0
22	1.475	1.464	1.479	54	0.006	1.404	0.0003
23	1.475	1.463	1.481	55	0.699	0.0014	0.0003
24	1.477	1.463	1.480	56	2.776	2.698	2.787
25	1.477	1.464	1.479	57	2.280	2.205	2.232
26	1.474	1.463	1.480	58	0.2304	0.2358	0.2189
27	0.0024	0.0032	0.0017	59	0.3	0.31	0.294
28	0.0023	0.0033	0.0016	60	1.383	1.379	1.387
29	0.0025	0.0032	0.0017	61	2.944	2.933	2.955
30	0.0024	0.0032	0.0017	62	0.741	0.739	0.743
31	2.663	2.691	2.755	63	2.226	2.218	2.223
32	2.661	2.690	2.755	64	1.489	1.485	1.495

IC, TK11823MTL

Pin No.	AM(V)	FM(V)	TAPE(V)	Pin No.	AM(V)	FM(V)	TAPE(V)
1	0.0031	0.0027	-	4	1.057	4.29	0.0039
2	0.767	0.743	0.0189	5	0	0	0
3	0.0007	-0.0145	-	6	2.595	2.641	-

IC BLOCK DIAGRAM
IC, LAG668FTF



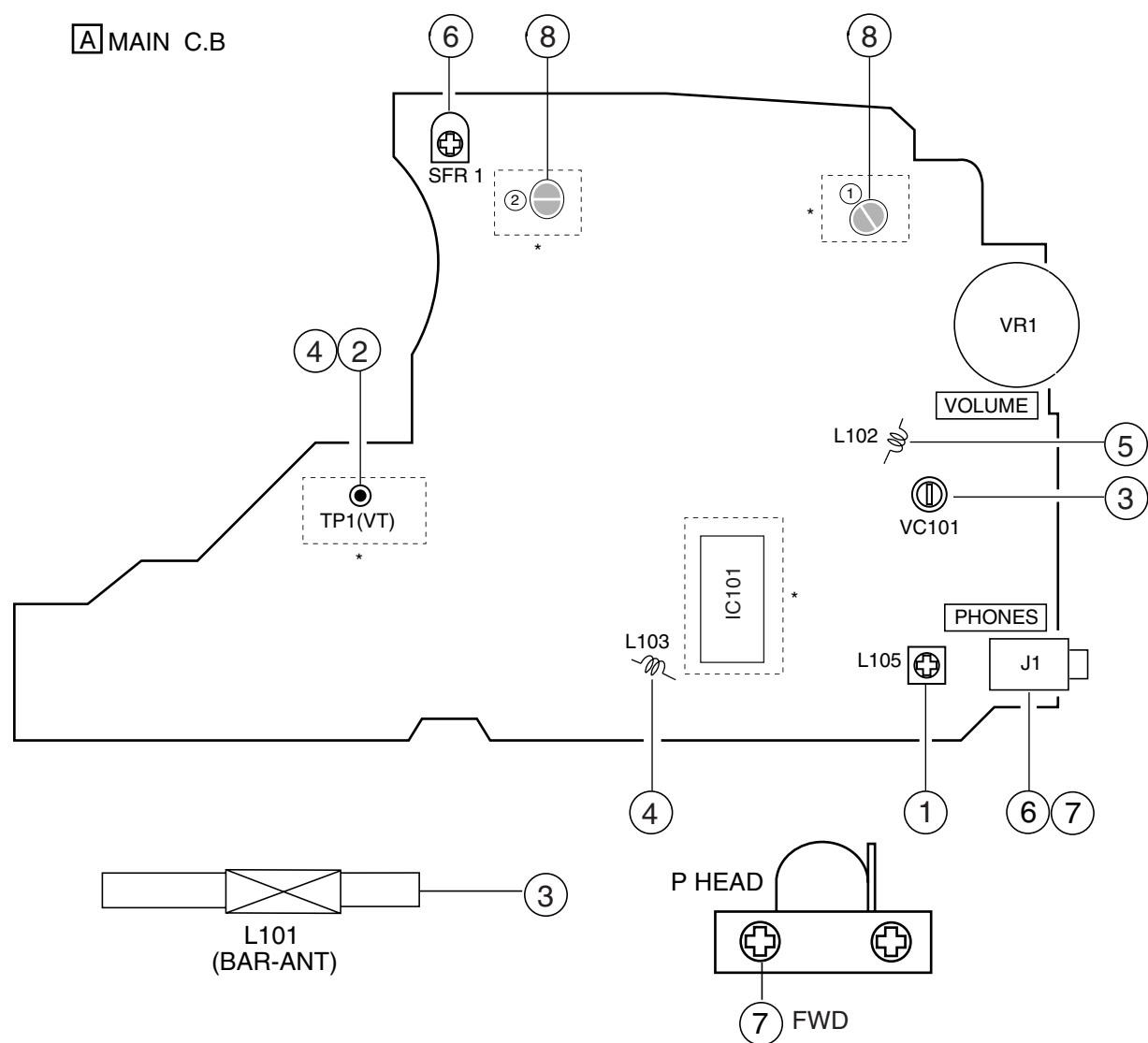
IC DESCRIPTION

IC, TC9322FB-501

Pin No.	Pin Name	I/O	Description
1	COM 1	O	LCD commn output 1.
2	COM 2	O	LCD commn output 2.
3	COM 3	O	LCD commn output 3.
4	S1	O	LCD segment output.
5	S2	O	LCD segment output.
6	S3	O	LCD segment output.
7	S4	O	LCD segment output.
8	S5	O	LCD segment output.
9	S6	O	LCD segment output.
10	S7	O	LCD segment output.
11	S8	O	LCD segment output.
12	S9	O	LCD segment output.
13	S10	O	LCD segment output.
14	S11	O	LCD segment output.
15	S12	O	LCD segment output.
16	S13	O	LCD segment output.
17	S14	O	LCD segment output.
18	S15	O	LCD segment output.
19	S16	O	LCD segment output.
20	S17	O	LCD segment output.
21	S18	O	LCD segment output.
22	S19	O	LCD segment output.
23	S20	O	LCD segment output. (Not used)
24	S21	O	LCD segment output. (Not used)

Pin No.	Pin Name	I/O	Description
25	S22	O	LCD segment output. (Not used)
26	S23	O	LCD segment output. (Not used)
27	K0	I	Key matrix input.
28	K1	I	Key matrix input.
29	K2	I	Key matrix input.
30	K3	I	Key matrix input.
31	T0	O	Key return timing output.
32	T1	O	Key return timing output.
33	T2	O	Key return timing output.
34	T3	O	Key return timing output. (Not used)
35	FM / AM	O	'H' : FM out, 'L' : AM out.
36	FM MN / ST	O	'H' : FM Stereo out, 'L' : FM Mono out.
37	S-BASS ON/OFF	O	S-BASS switching output. 'H': OFF, 'L' :ON.
38	ROCK	-	Not used.
39	DES	I	These two input ports determine the destination.
40	DES	I	
41	TAPE / ST	I	In Clock mode: 'H' = LCD display TAPE. 'L' : = LCD display TIME. In FM Stereo mode : 'H' = FM ST indicator will Flash. 'L' = FM ST indicator will not Flash.
42	POWER CHECK	I	A / D in for power supply voltage level.
43	REMOTE	I	A / D in for remote controller.
44	POWER SW	O	'H' : Power Off, 'L' : Power On.
45	HOLD	I	'H' : Hold Off, 'L' :Hold On.
46	BUZZER	O	Buzzer output.
47	MUTE	O	Mute output.
48	TEST	-	Connected to ground.
49	WAKE UP	I	Wake up the system from Memory back-up mode.
50	TUNE IN	I	'L' : LCD display 'TUNED'.
51	TU OUT	O	When tuner on, 'L' level is output.
52	PLL OUT	O	Phase comparison output.
53	GND	-	Ground terminal.
54	FMIN	I	FM oscillator signal input.
55	AMIN	I	AM oscillator signal input.
56	VDD	-	Supply voltage terminal.
57	RESET	I	System reset input.
58	XOUT	-	Crystal 75kHz oscillator pin.
59	XIN	-	Crystal 75kHz oscillator pin.
60	VXT	-	Power supply for crystal oscillator.
61	VLCD	-	Reference voltage for LCD driver. (Not used)
62	C1	-	Voltage doubler boosting.
63	C2	-	
64	VEE	-	Connected to ground through a coupling capacitor.

ADJUSTMENT



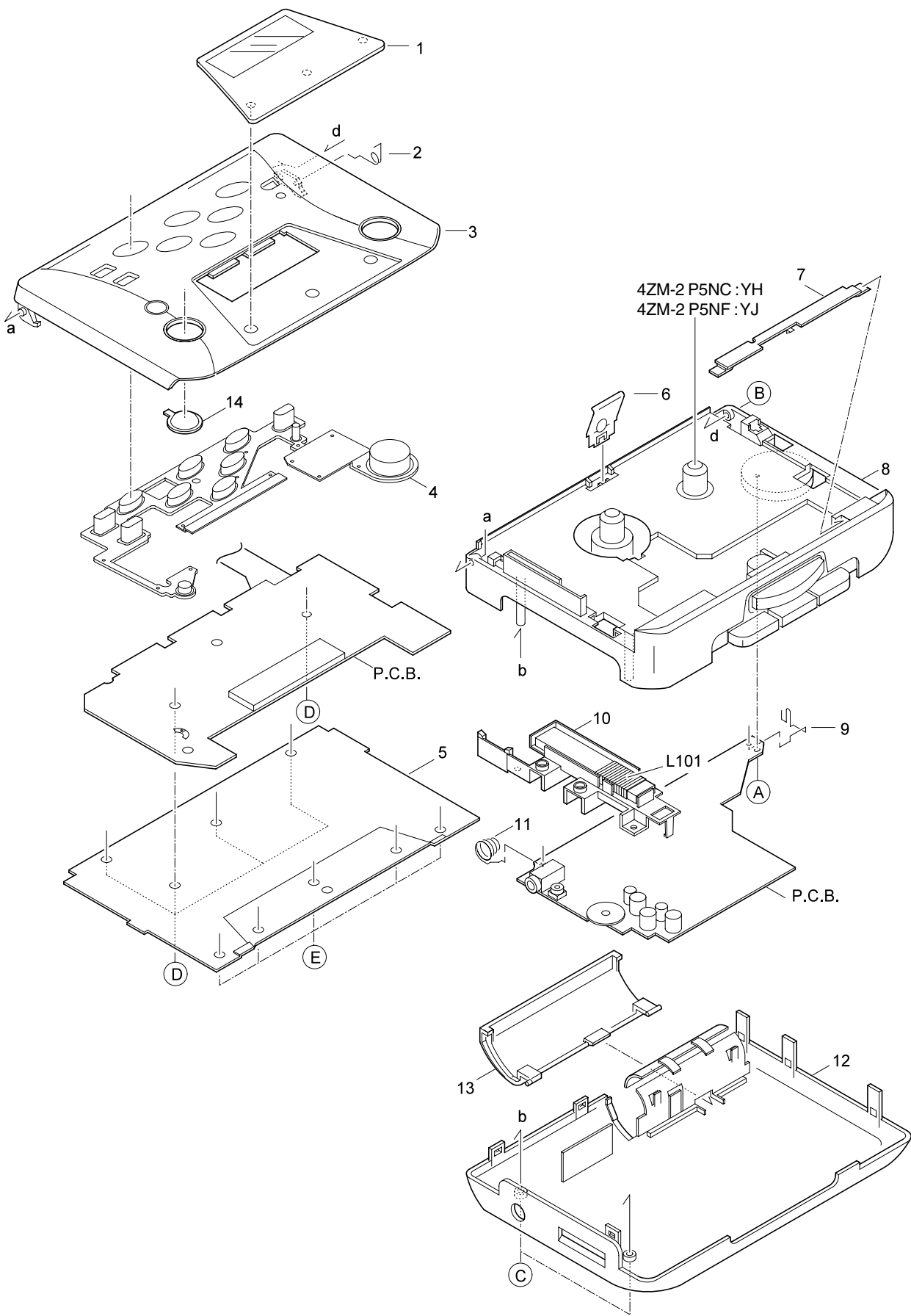
NOTE :
* : On the other side of the pattern.

<RADIO SECTION>

- | | |
|--|--|
| 1. AM IF Adjustment
L105 450kHz | 4. FM VT Adjustment
Settings : • Test point : TP1 (VT)
• Adjustment location : L103
Method : Set to FM 76MHz and adjust L103 so that the test point becomes 1.0V $\pm$ 0.1V. Then set to FM 108.1MHz and check that the test point is less than 8.5V. |
| 2. AM VT Check
Settings : • Test point : TP1 (VT)
Method : Set to AM 530kHz and check that the test point is more than 0.8V. Then set to AM 1710kHz and check that the test point is less than 8.7V. | 5. FM Tracking Adjustment
L102 76.0MHz |
| 3. AM Tracking Adjustment
L101 630kHz
VC101 1440kHz | |

<TAPE PLAYER SECTION>

6. Tape Speed Adjustment
Settings : • Test tape : TTA-100 (TAPE CENTRE)
• Test point : Phones Jack (J1)
• Adjustment location : SFR1
• Tape/radio : TAPE
• S-BASS : OFF
• Volume : NON-CLIP (MAX -10dB)
Method : Play back the test tape and adjust SFR1 for 3000Hz $\pm$ 10Hz. Then confirm WOW is less than 0.50%.
7. Azimuth Adjustment
Settings : • Test tape : TTA-330/TTA-420
• Test point : Phones Jack (J1)
• S-BASS : OFF
• Tape/radio : TAPE
• Volume : MAX
• Adjustment location : Head azimuth adjustment screw
Method : Play back the 8KHz signal of the test tape and adjust the screw so that the output becomes maximum.
8. Maximum Output Power Adjustment
Settings : • Test tape : TTA-210
• Volume : MAX
• S-BASS : ON
Method : • Short the shorting point ① and ② .

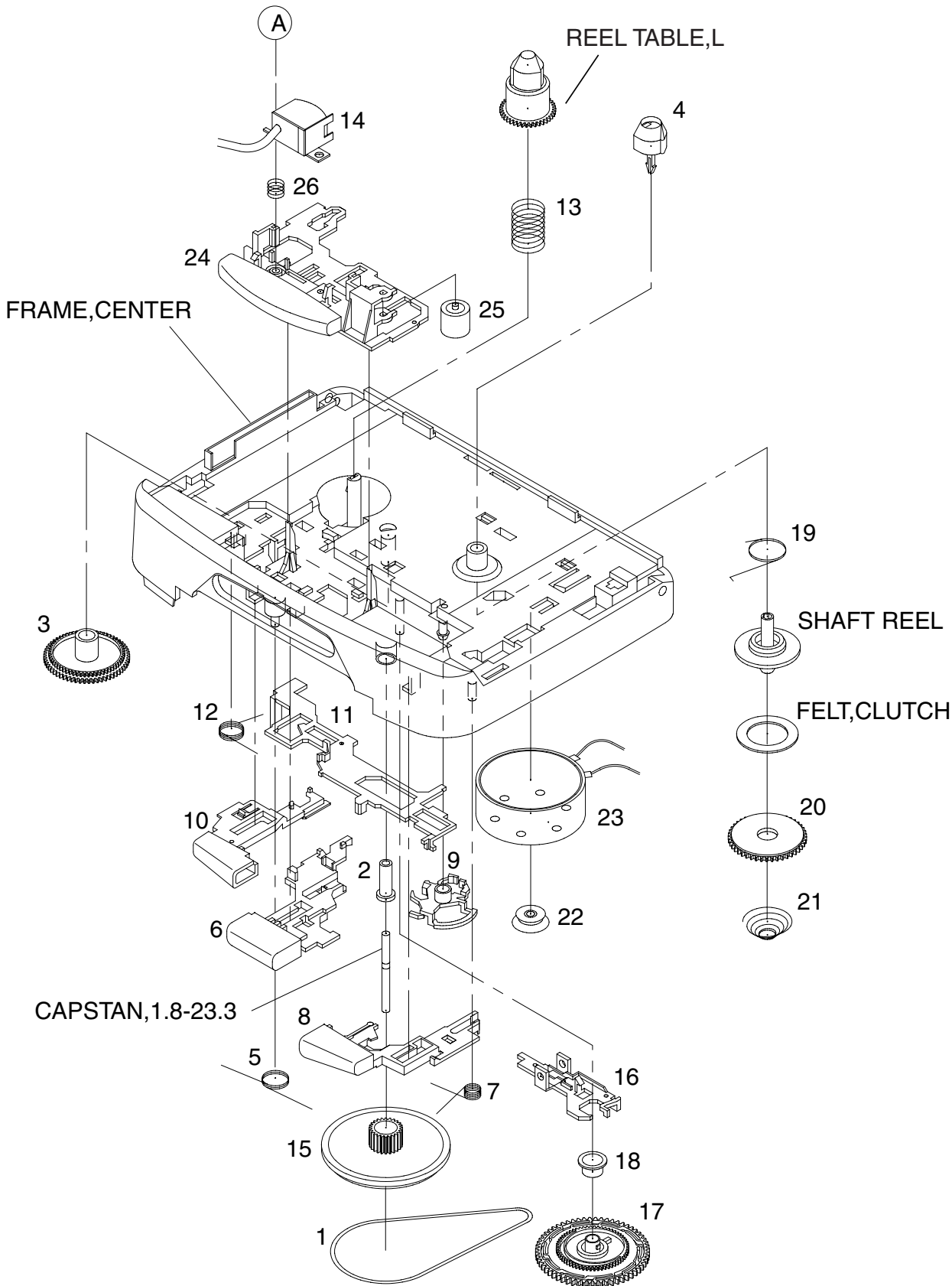


REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
1	8A-HRC-002-010		WINDOW, LCD
2	86-HRM-205-010		SPR-T, CLICK
3	8A-HRC-031-110		LID, CASS ASSY<YH>
3	8A-HRC-033-110		LID, CASS ASSY BLU<YJ>
4	8A-HRC-004-210		BTN, FUNCTION
5	8A-HRC-201-110		COVER, PCB<YH>
5	8A-HRC-204-110		COVER, PCB BLU<YJ>
6	8A-HRL-202-010		SPR-P, CASS
7	8Z-HRC-204-010		PLATE, HEAD<YH>
7	8Z-HRC-207-010		PLATE, HEAD BLUE<YJ>
8	8Z-HRC-002-010		FRAME, CENTER<YH>
8	8Z-HRC-014-010		FRAME, CENTER BLUE<YJ>
9	8Z-HRC-205-010		BAT-CONTACT, (+)
10	8Z-HRC-202-010		HLDR, ANT
11	8Z-HRC-206-110		BAT-CONTACT, (-)
12	8Z-HRC-035-110		CABI, REAR ASSY BLUE YU<YJ>
12	8Z-HRC-003-010		CABI, REAR<YH>
13	8Z-HRC-004-010		LID, BATT<YH>
14	8A-HRC-006-010		CAP, SBASS
A	87-264-525-310		SCREW, V+1.7-2.5
B	87-067-756-010		SCREW HINGE 1.4-4
C	87-B10-078-010		VT2+1.7-10 (3) BLK
D	87-067-384-010		SCREWT1.4-3.5HL
E	87-067-732-010		TAPPING SCREW, VT1.4-3

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				

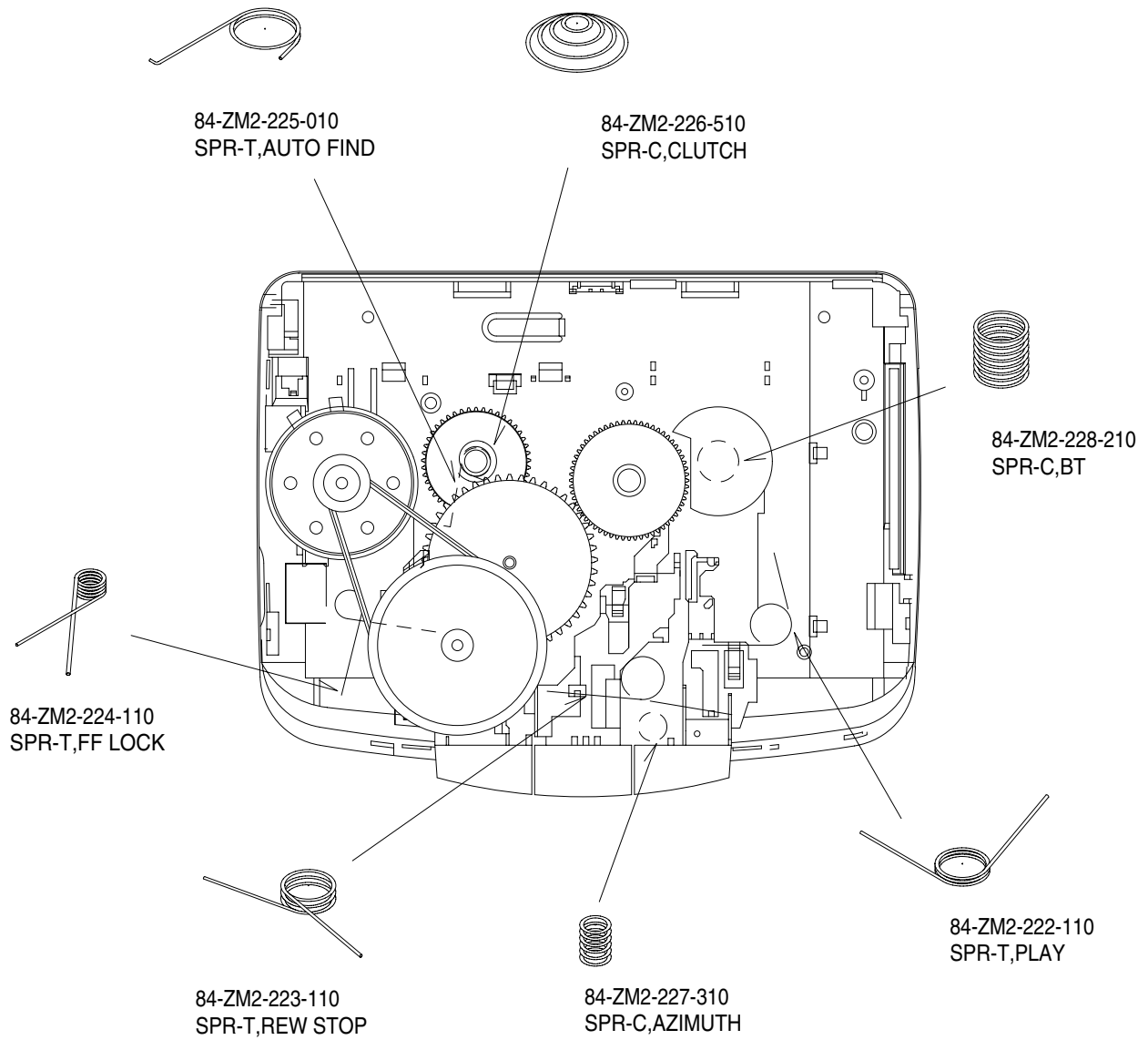
TAPE MECHANISM EXPLODED VIEW 1 / 1



TAPE MECHANISM PARTS LIST 1 / 1

REF.NO.	PARTNO.	KANRI NO.	DESCRIPTION
1	84-ZM2-244-010		BELT,MAIN Y
2	84-ZM2-220-110		BRG,P
3	84-ZM2-211-010		GEAR,CONNECT
4	84-ZM2-216-210		REEL TABLE,R
5	84-ZM2-223-110		SPR-T,REW STOP
6	84-ZM2-054-010		LEVER,REW THIN
7	84-ZM2-224-110		SPR-T,FF LOCK
8	84-ZM2-053-010		LEVER,FF THIN
9	84-ZM2-207-310		LEVER,AUTO
10	84-ZM2-055-010		LEVER,STOP THIN
11	84-ZM2-206-410		LEVER,LOCK
12	84-ZM2-222-110		SPR-T,PLAY
13	84-ZM2-228-210		SPR-C,BT
14	87-A90-272-010		HEAD,PH MS25P ETH
15	84-ZM2-221-110		FLY-WHL,P2
16	84-ZM2-208-310		LEVER,SHIFT
17	84-ZM2-210-210		GEAR,AUTO
18	84-ZM2-218-110		CAP,GEAR AUTO
19	84-ZM2-225-010		SPR-T,AUTO FIND
20	84-ZM2-212-010		GEAR,CLUTCH
21	84-ZM2-226-510		SPR-C,CLUTCH
22	84-ZM2-219-010		PULLEY,MOTOR
23	87-045-385-110		MOT,BCY3B
24	84-ZM2-052-010		LEVER,PLAY THIN
25	84-ZM2-233-110		ROLLER ASSY,PINCH
26	84-ZM2-227-310		SPR-C,AZIMUTH
A	84-ZM2-252-010		S-SCREW,AZI-2-6.4 C

SPRING APPLICATION POSITION



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