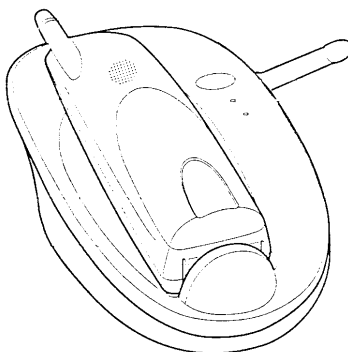




SERVICE MANUAL

CORDLESS TELEPHONE

This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-99C-338-3T1).

aiwa

S/M Code No. 09-001-338-3R1

REVISION

DATA

SPECIFICATIONS

OPERATING FREQUENCIES

	BASE	HANDSET
TRANSMIT FREQUENCY	43-46MHz	48-49MHz
RECEIVE FREQUENCY	48-49MHz	43-46MHz

GENERAL

Pulse Mode Dialing Rate	10 PPS
Pause Entry Delay	Approximately 3 Seconds
Interdigital Pause	600 ms
Redial Memory Capacity	32 Digits
Power Requirements	
BASE	115/230V AC
HANDSET	3.6V DC (Nickel-Cadmium Battery)
Weight	
BASE	320 g (11.2 oz.)
HANDSET (Battery not included)	146 g (5.1 oz.)
Measurements	
BASE	128 (W) × 222 (D) × 46 (H) mm
(Antenna not included)	(5 ¹ / ₈ × 8 ³ / ₄ × 1 ¹³ / ₁₆ in.)
Antenna length	650 mm (25 ⁵ / ₈ in.)
HANDSET	55 (W) × 183 (D) × 44 (H) mm
(Antenna not included)	(2 ¹ / ₄ × 7 ¹ / ₄ × 1 ³ / ₄ in.)
Antenna length	190 mm (7 ¹ / ₂ in.)
Battery Life (HANDSET)	Standby: 10 days
	Talk: 10 hours
Frequency	43/49 MHz
Modulation	FM
Security Code	65K Random

• Design and specifications are subject to change without notice.

ACCESSORIES 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
1	8Z-PC5-901-010	IB, AHR (E) -CL236		6	87-A90-628-010		PLUG, CONVERSION IR40 C
2	8Z-PC5-902-010	IB, AHR (CH) -CL236		7	8Z-PC5-009-010		HLDR, WALL B/U
3	87-B30-216-010	AC ADAPTOR, AC-D1222HRJNC		8	87-301-162-410		SW+3.8-32
4	87-B30-204-010	BAT, NB-302NC					
5	88-PCD-627-010	CORD, ST9-2WA					

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				C327	87-012-286-080		CAP, U 0.01-25
				C328	87-A10-707-080		C-CAP,U 0.47U-16 F Z
	8Z-PC5-611-010	IC, TMP87C408M		C329	87-010-831-080		C-CAP,U 0.1-16F
	87-A91-033-010	P-COUPLER, LTV817		C330	87-010-402-080		CAP, ELECT 2.2-50V
	87-PC4-603-010	C-IC, TB31224F		C331	87-010-378-080		CAP, ELECT 10-16V
	8Z-PC5-612-010	IC, TMP87PH47U					
	8Z-PC5-629-040	C-IC, RH5VL30AA		C332	87-010-831-080		C-CAP,U 0.1-16F
				C333	87-010-831-080		C-CAP,U 0.1-16F
	8Z-PC5-628-040	C-IC, RH5RE30AA		C334	87-010-402-080		CAP, ELECT 2.2-50V
	87-A21-542-040	C-IC, AT24C64		C335	87-012-274-080		CHIP CAP,U 1000P-50B
	8Z-PC5-614-010	C-IC, KS0070B-00		C336	87-010-831-080		C-CAP,U 0.1-16F
TRANSISTOR				C337	87-010-831-080		C-CAP,U 0.1-16F
				C339	87-010-378-080		CAP, ELECT 10-16V
	85-XD1-622-080	C-TR, MMBT3904		C340	87-010-831-080		C-CAP,U 0.1-16F
	89-327-144-080	TR, 2SC2714Y		C341	87-012-180-080		C-CAP,U 22P-50 CH
	87-026-699-080	C-TR, MMBT3906LT1		C342	87-012-281-080		C-CAP,U 3900P-50 B
	89-318-156-080	TR, 2SC1815 (0.4W)					
DIODE				C343	87-010-831-080		C-CAP,U 0.1-16F
				C344	87-012-274-080		CHIP CAP,U 1000P-50B
	87-070-345-080	DIODE, IN4148		C345	87-010-831-080		C-CAP,U 0.1-16F
	87-A40-583-080	ZENER, BZX55-C5V6		C346	87-012-285-080		C-CAP,U 8200P-50 B
	87-A40-586-080	DIODE, 1N4004		C347	87-010-828-080		CHIP CAPACITOR,U 0.033-25F
	8Z-PC5-622-080	ZENER, BZX55-C33					
	87-A40-585-080	ZENER, BZX55-C6V2		C348	87-012-278-080		C-CAP,U 2200P-50 B
				C351	87-010-831-080		C-CAP,U 0.1-16F
	87-A40-398-080	DIODE, 1N4001		C352	87-A10-353-080		C-CAP,U 0.22-10KB
	8Z-PC5-658-080	C-ZENER, RLZ5.6		C353	87-012-182-080		C-CAP,U 27P-50 CH
	8Z-PC5-626-080	C-ZENER, RLZ5.1		C354	87-A10-047-080		C-CAP,U 1-10 Z F
MAIN C.B				C355	87-018-209-080		CAP, CER 0.01
				C356	87-012-199-080		CAP 220P
				C357	87-012-270-080		CAP, U 470P-50
				C358	87-018-200-080		CAP, TC-U 3900P-16 X
				C359	87-010-831-080		C-CAP,U 0.1-16F
	BPF301	87-PC4-615-010	FLTR, DPX1030 B/U	C360	87-010-831-080		C-CAP,U 0.1-16F
	BPF302	87-PC4-617-010	FLTR, SFE10.7MA5	C361	87-010-378-080		CAP, ELECT 10-16V
	BPF303	8Z-PC5-647-010	FLTR, ASC455F	C362	87-012-197-080		C-CAP,U 150P-50 CH
	C101	87-012-182-080	C-CAP,U 27P-50 CH	C363	87-010-784-080		C-CAP,U 0.012-25 B
	C102	87-012-182-080	C-CAP,U 27P-50 CH	C365	87-012-199-080		CAP 220P
	C103	87-A10-707-080	C-CAP,U 0.47U-16 F Z	C371	87-012-278-080		C-CAP,U 2200P-50 B
	C104	87-A10-047-080	C-CAP,U 1-10 Z F	C372	87-012-286-080		CAP, U 0.01-25
	C105	87-010-380-080	CAP, ELECT 47-16V	C373	87-012-286-080		CAP, U 0.01-25
	C106	87-012-286-080	CAP, U 0.01-25	C374	87-012-199-080		CAP 220P
	C108	87-010-831-080	C-CAP,U 0.1-16F	C375	87-012-282-080		CAP, U 4700P-50
	C201	87-A12-029-080	CAP, 1000P-2K K DE0805	C376	87-010-384-080		CAP, ELECT 100-25V
	C202	87-A12-029-080	CAP, 1000P-2K K DE0805	C377	87-010-380-080		CAP, ELECT 47-16V
	C203	8Z-PC5-620-080	CAP, M/P 0.56-250 K	C378	87-012-268-080		C-CAP,U 330P-50 B
	C204	87-010-830-080	C-CAP,U 0.068-16F	C379	87-010-384-080		CAP, ELECT 100-25V
	C205	87-010-831-080	C-CAP,U 0.1-16F	C501	87-010-387-080		CAP,E 470-25 SME
	C301	87-012-176-080	CAP 15P	C502	87-010-831-080		C-CAP,U 0.1-16F
	C302	87-012-176-080	CAP 15P	C503	87-010-380-080		CAP, ELECT 47-16V
	C303	87-012-186-080	C-CAP,U 39P-50 CH	C504	87-010-831-080		C-CAP,U 0.1-16F
	C304	87-012-196-080	C-CAP,U 120P-50 CH	C505	87-010-378-080		CAP, ELECT 10-16V
	C305	87-012-286-080	CAP, U 0.01-25	C506	87-010-384-080		CAP, ELECT 100-25V
	C306	87-012-286-080	CAP, U 0.01-25	D304	87-A40-226-080		VARI-CAP, SVC251SPA
	C307	87-012-165-080	CAP 3P	FR201	87-PC4-612-010		RES, FUSE 10-1/2W J
	C308	87-012-166-080	C-CAP,U 4P-50 CH	J201	87-PC4-629-010		JACK, MODULAR 2 P 8606-24
	C309	87-012-337-080	C-CAP,U 56P-50 CH	J501	87-PC4-630-010		JACK, DC 6.2 DC-210
	C310	87-012-337-080	C-CAP,U 56P-50 CH	L101	87-003-152-080		COIL, 100UH
	C311	87-012-188-080	C-CAP,U 47P-50 CH	L201	87-003-136-080		COIL, 100UH
	C312	87-012-191-080	CHIP CAP 68 PF	L202	87-003-136-080		COIL, 100UH
	C313	87-012-286-080	CAP, U 0.01-25	L301	87-005-165-080		COIL, 1UH M LAL03
	C314	87-012-274-080	CHIP CAP,U 1000P-50B	L302	87-003-138-080		COIL, 0.39UH S
	C315	87-010-378-080	CAP, ELECT 10-16V	L303	8Z-PC5-643-010		COIL, 2299-T037
	C316	87-012-286-080	CAP, U 0.01-25	L304	8Z-PC5-646-010		COIL, 2217-T014
	C317	87-010-402-080	CAP, ELECT 2.2-50V	L305	87-003-142-080		COIL, 3.3UH LAL02
	C318	87-010-829-080	CAP, U 0.047-16	L306	8Z-PC5-644-010		COIL, 2299-T036
	C319	87-012-167-080	C-CAP,U 5P-50 CH	L307	87-A50-461-080		COIL, 22UH K LAL02
	C320	87-012-286-080	CAP, U 0.01-25	L308	8Z-PC5-642-010		COIL, 2217-T010
	C322	87-012-286-080	CAP, U 0.01-25	L309	8Z-PC5-645-010		COIL, 2164-T009
	C323	87-012-274-080	CHIP CAP,U 1000P-50B	L310	87-005-154-080		COIL, 220UH K LAL03
	C324	87-012-286-080	CAP, U 0.01-25	L501	87-003-136-080		COIL, 100UH
	C325	87-012-274-080	CHIP CAP,U 1000P-50B	L502	87-003-136-080		COIL, 100UH
	C326	87-012-182-080	C-CAP,U 27P-50 CH	L503	87-003-152-080		COIL, 100UH

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L504	87-005-274-080		COIL, 68UH K LAL03	C709	87-012-337-080		C-CAP, U 56P-50 CH
L505	87-005-274-080		COIL, 68UH K LAL03	C710	87-012-337-080		C-CAP, U 56P-50 CH
LED101	87-A40-259-080		LED, SLR-342VCT31 RED	C711	87-012-188-080		C-CAP, U 47P-50 CH
LED103	87-A40-259-080		LED, SLR-342VCT31 RED	C712	87-012-191-080		CHIP CAP 68 PF
R203	8Z-PC5-648-010		RES, 130-2W J	C713	87-012-286-080		CAP, U 0.01-25
RY201	87-PC4-645-010		RELAY, K5-R-0700HL8V	C714	87-012-274-080		CHIP CAP, U 1000P-50B
SCR201	87-PC4-646-010		VRIS, VE09M00251K	C715	87-015-681-080		CAP, E 10-16 7L
SFR301	87-A91-035-080		SFR, 100K H EVNDXAA03B15	C716	87-012-286-080		CAP, U 0.01-25
SW101	87-PC4-626-010		SW, SL 1-1-2 SK12F03-RG6	C717	87-015-696-080		CAP, E 2.2-50 7L
SW102	87-PC4-628-010		SW, TACT PAGE	C718	87-010-829-080		CAP, U 0.047-16
T201	87-PC4-610-010		MT, XF-CCT-02401	C719	87-012-166-080		C-CAP, U 4P-50 CH
TC301	87-PC4-611-010		TRIMMER, 30P CVN630	C720	87-012-286-080		CAP, U 0.01-25
X101	8Z-PC5-621-010		VIB, CER 4.0MHZ CSA4.00MG	C722	87-012-286-080		CAP, U 0.01-25
X301	87-PC4-619-010		VIB, XTAL 10.24MHZ HC-49/UKI102	C723	87-018-131-080		CAP, CER 1000P-50V
				C724	87-012-286-080		CAP, U 0.01-25
HANDSET-KEY C.B				C725	87-012-274-080		CHIP CAP, U 1000P-50B
C601	87-010-831-080		C-CAP, U, 0.1-16F	C726	87-012-182-080		C-CAP, U 27P-50 CH
C602	87-010-831-080		C-CAP, U, 0.1-16F	C727	87-012-281-080		C-CAP, U 3900P-50 B
C603	87-010-831-080		C-CAP, U, 0.1-16F	C728	87-A10-353-080		C-CAP, U0.22-10KB
C604	87-010-831-080		C-CAP, U, 0.1-16F	C729	87-A12-028-080		C-CAP, U 0.039-16 K B
C605	87-A10-047-080		C-CAP, U 1-10 Z F	C730	87-015-696-080		CAP, E 2.2-50 7L
C606	87-012-182-080		C-CAP, U 27P-50 CH	C731	87-015-681-080		CAP, E 10-16 7L
C607	87-012-182-080		C-CAP, U 27P-50 CH	C732	87-010-831-080		C-CAP, U, 0.1-16F
C609	87-012-195-080		C-CAP, U 100P-50CH	C733	87-010-831-080		C-CAP, U, 0.1-16F
C613	87-012-176-080		CAP 15P	C734	87-015-696-080		CAP, E 2.2-50 7L
C614	87-012-176-080		CAP 15P	C735	87-012-274-080		CHIP CAP, U 1000P-50B
C616	87-010-831-080		C-CAP, U, 0.1-16F	C736	87-010-831-080		C-CAP, U, 0.1-16F
C617	87-010-831-080		C-CAP, U, 0.1-16F	C737	87-010-831-080		C-CAP, U, 0.1-16F
C618	87-010-831-080		C-CAP, U, 0.1-16F	C739	87-015-681-080		CAP, E 10-16 7L
C619	87-012-274-080		CHIP CAP, U 1000P-50B	C740	87-010-831-080		C-CAP, U, 0.1-16F
C620	87-012-274-080		CHIP CAP, U 1000P-50B	C741	87-012-180-080		C-CAP, U 22P-50 CH
CN601	87-099-043-010		CONN 2P EH	C742	87-012-281-080		C-CAP, U 3900P-50 B
L601	8Z-PC5-623-080		C-COIL, 100UH K NL3225	C743	87-010-831-080		C-CAP, U, 0.1-16F
L602	8Z-PC5-624-080		C-COIL, 470UH	C744	87-012-274-080		CHIP CAP, U 1000P-50B
L603	8Z-PC5-624-080		C-COIL, 470UH	C745	87-010-831-080		C-CAP, U, 0.1-16F
LCD1	8Z-PC5-607-010		LCD, ZPC-5 H/S	C746	87-012-270-080		CAP, U 470P-50
LED601	8Z-PC5-654-080		C-LED, LT1D67A RED	C747	87-012-273-080		C-CAP, U 820P-50 B
LED602	87-A40-810-080		LED, SELU2E10C BLUE	C750	87-012-286-080		CAP, U 0.01-25
LED603	8Z-PC5-634-080		C-LED, PY1101F-TR GRN	C751	87-012-286-080		CAP, U 0.01-25
LED604	8Z-PC5-634-080		C-LED, PY1101F-TR GRN	C752	87-012-172-080		CAPACITOR CHIP U 10P CH
LED605	8Z-PC5-634-080		C-LED, PY1101F-TR GRN	C753	87-012-176-080		CAP 15P
LED606	8Z-PC5-634-080		C-LED, PY1101F-TR GRN	C754	87-010-831-080		C-CAP, U, 0.1-16F
LED607	87-A40-126-080		C-LED, LT1E67A GRN	C755	87-012-283-080		C-CAP, U, 5600P
LED608	87-A40-126-080		C-LED, LT1E67A GRN	C757	87-012-271-080		CAP, U 560P-50
LED609	87-A40-126-080		C-LED, LT1E67A GRN	C758	87-010-787-080		CAP, U 0.022-25
LED610	87-A40-126-080		C-LED, LT1E67A GRN	C759	87-010-831-080		C-CAP, U, 0.1-16F
LED611	87-A40-126-080		C-LED, LT1E67A GRN	C760	87-010-831-080		C-CAP, U, 0.1-16F
LED612	87-A40-126-080		C-LED, LT1E67A GRN	C761	87-015-681-080		CAP, E 10-16 7L
LED613	87-A40-126-080		C-LED, LT1E67A GRN	C762	87-012-199-080		CAP 220P
LED614	87-A40-126-080		C-LED, LT1E67A GRN	C763	87-010-828-080		CHIP CAPACITOR, U 0.033-25F
LED615	87-A40-126-080		C-LED, LT1E67A GRN	C765	87-012-162-080		CAP 1P
LED616	87-A40-126-080		C-LED, LT1E67A GRN	C790	87-010-831-080		C-CAP, U, 0.1-16F
LED617	87-A40-126-080		C-LED, LT1E67A GRN	D704	87-A40-226-080		VARI-CAP, SVC251SPA
LED618	87-A40-126-080		C-LED, LT1E67A GRN	L701	87-003-141-080		CHOKE COIL 1.2UH
MIC1	8Z-PC5-636-010		MIC, CMP-62	L703	8Z-PC5-649-010		COIL, 2299-T037
W1	8Z-PC5-638-010		RBN-CORD, 19P 1.5 35MM	L704	8Z-PC5-651-010		COIL, 2217-T034
X601	8Z-PC5-631-080		C-VIB, CER 4.0MHZ CSAC4.00MGC	L706	8Z-PC5-650-010		COIL, 2299-T036
X602	87-A70-058-010		VIB, XTAL 32KHZ DT-26	L707	87-A50-461-080		COIL, 22UH K LAL02
				L708	8Z-PC5-653-010		COIL, 2259-T171
				L709	8Z-PC5-652-010		COIL, 4195-T012
HANDSET-RF C.B				SFR701	87-024-437-080		SFR100K, RH063EC
BPF701	87-PC4-616-010		FLTR, DPX1030 H/S	TC701	87-PC4-611-010		TRIMMER, 30P CVN630
BPF702	87-PC4-617-010		FLTR, SFE10.7MA5	X701	87-A70-248-010		VIB, XTAL 10.24MHZ AT-38
BPF703	8Z-PC5-647-010		FLTR, ASC455F				
C704	87-012-196-080		C-CAP, U 120P-50 CH	LED C.B			
C705	87-012-286-080		CAP, U 0.01-25	LED102	87-A40-810-080		LED, SELU2E10C BLUE
C706	87-012-286-080		CAP, U 0.01-25				
C707	87-012-178-080		C-CAP, U 18P-50 CH				
C708	87-012-172-080		CAPACITOR CHIP U 10P CH				

○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



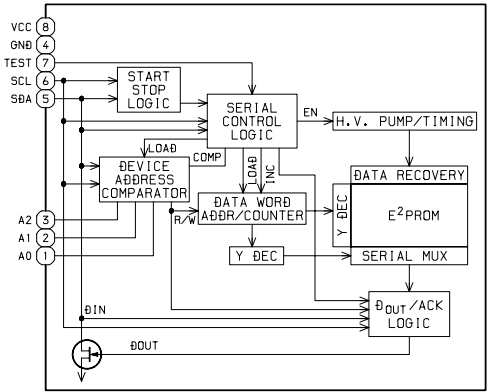
桁表示
Figure
抵抗値
Value of resistor

チップ抵抗
Chip resistor

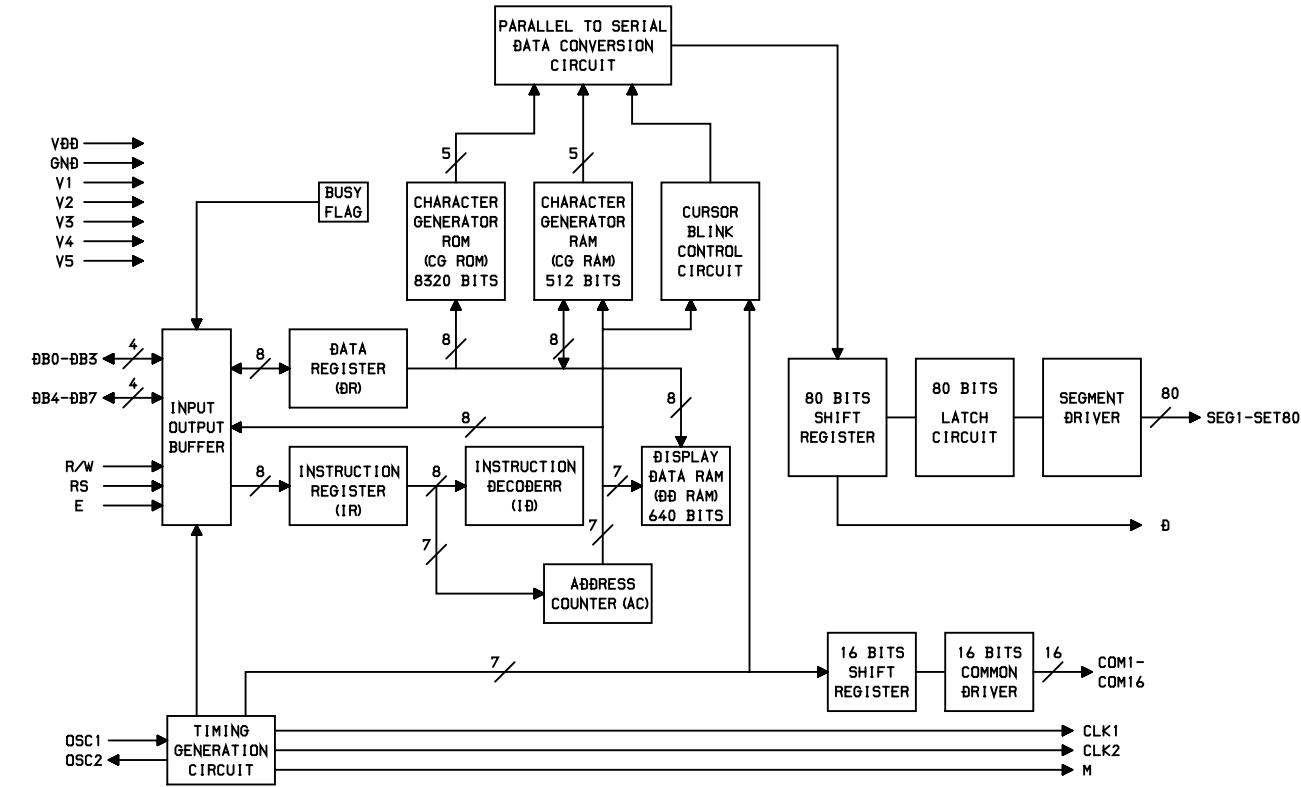
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

IC BLOCK DIAGRAMS

IC, TA24C64



IC, KS0070B-00

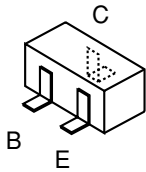


TRANSISTOR ILLUSTRATION



E C B

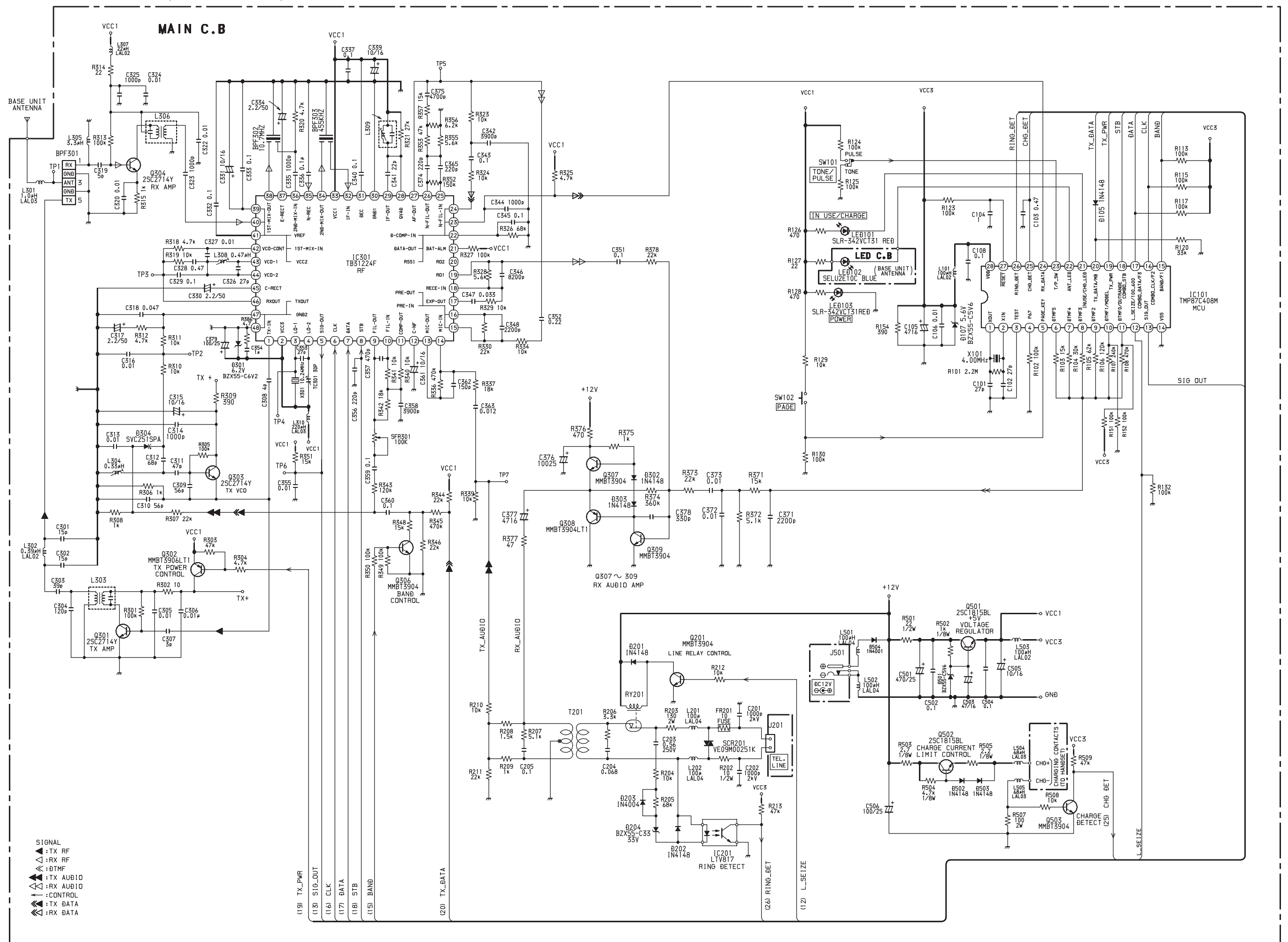
2SC1815

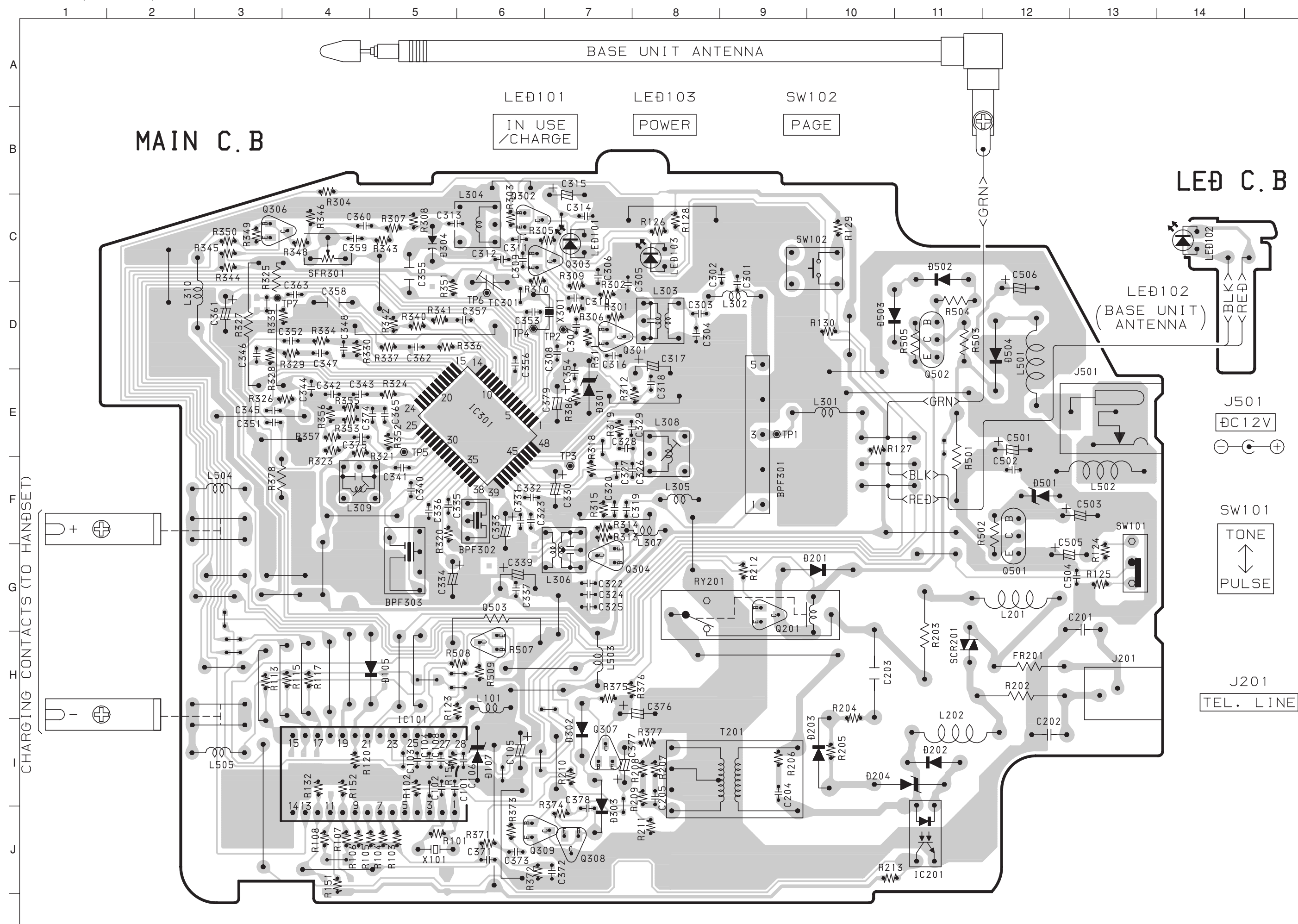


B E C

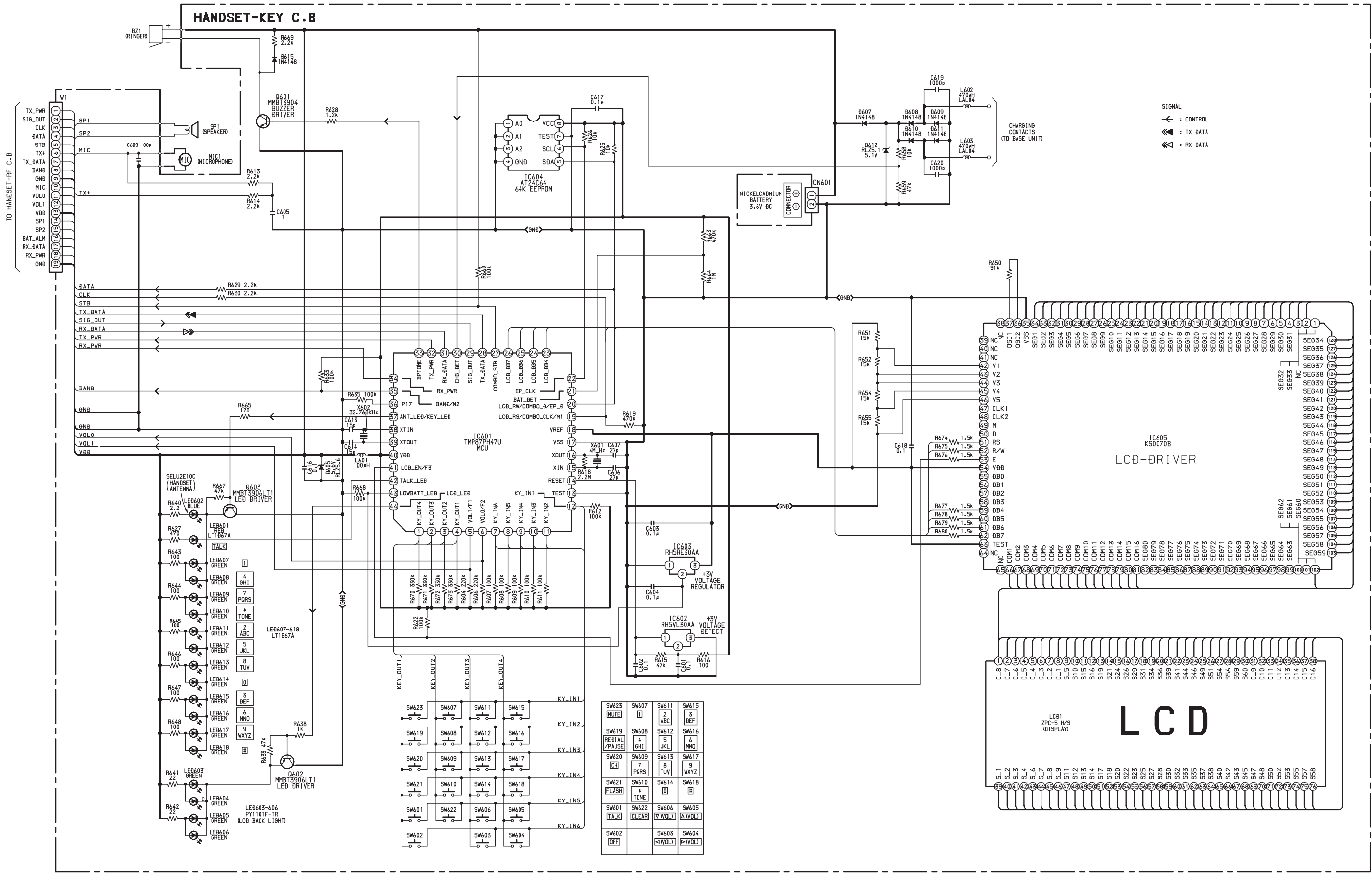
2SC2714
MMBT3904
MMBT3906

SCHEMATIC DIAGRAM-1 (MAIN SECTION)

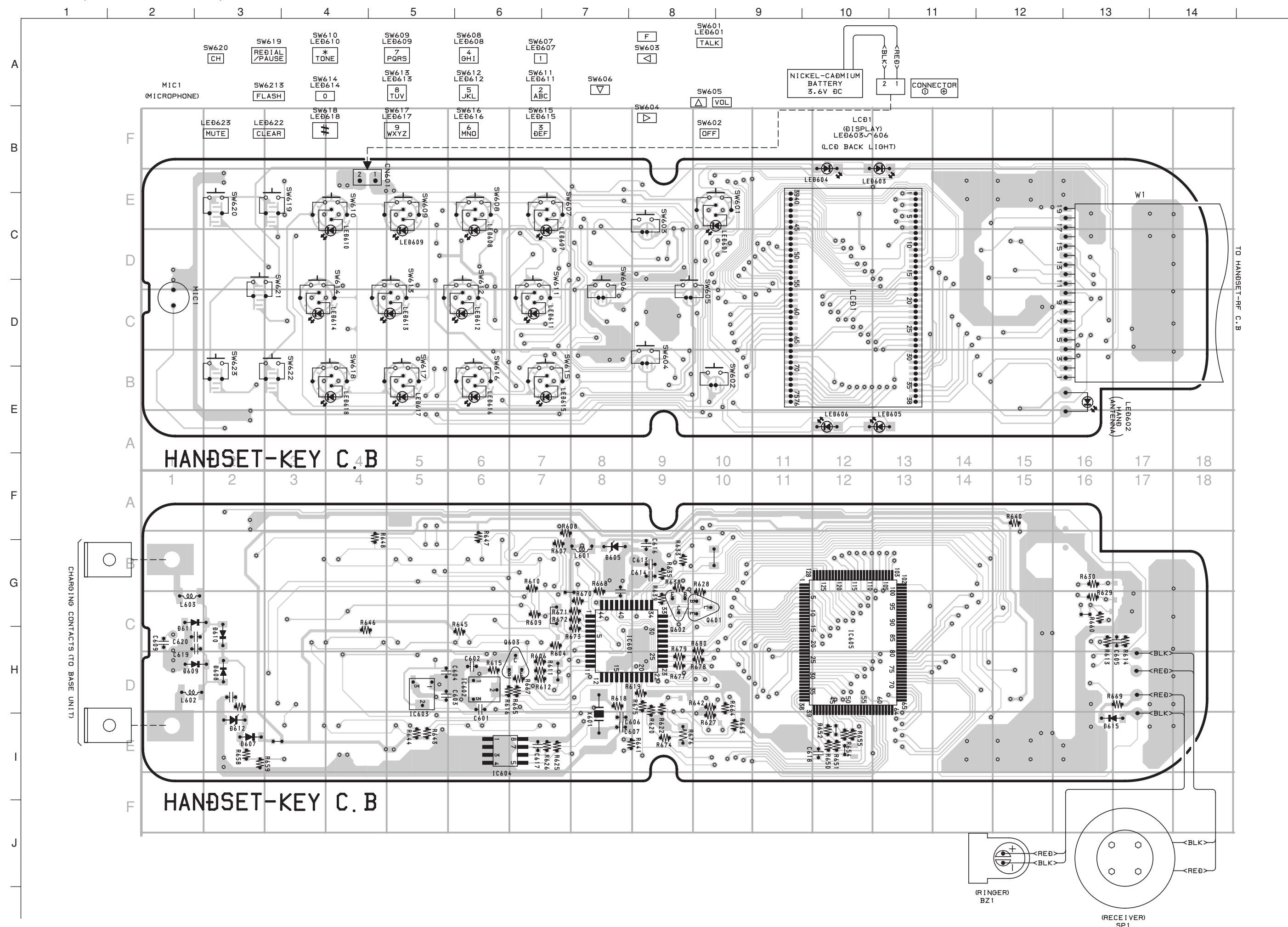




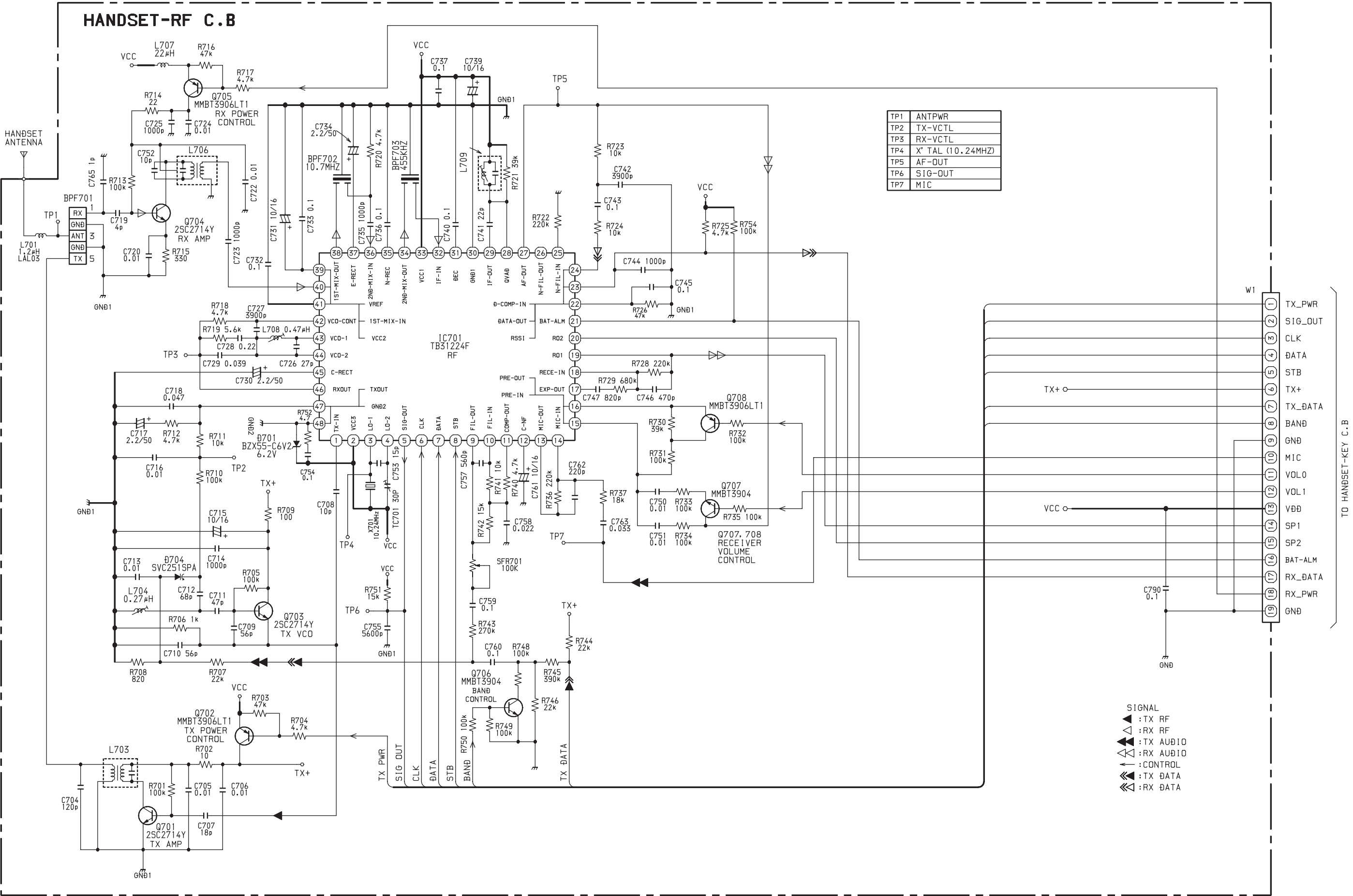
SCHEMATIC DIAGRAM-2 (HANDSET-KEY SECTION)



WIRING-2 (HANDSET-KEY C.B)



SCHEMATIC DIAGRAM-3 (HANDSET-RF SECTION)





VOLTAGE CHART

IC101

Pin No.	WAITING	TALKING
1	2.08	2.08
2	3.27	3.27
3	0	0
4	4.72	4.72
5	3.60	0.78
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	4.65
13	4.63	4.63
14	0	0
15	4.72	4.72
16	0	0
17	0	0
18	0	0
19	4.72	0
20	0	0
21	4.72	0.38
22	0	0
23	1.58	0.69
24	2.10	2.10
25	3.72	3.72
26	2.28	2.28
27	3.60	3.60
28	4.74	4.74

IC201

1	0	0
2	0	0
3	0	0
4	2.20	2.20

IC601

1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	4.16
7	1.50	1.50
8	1.50	1.50
9	1.50	1.50

Pin No.	WAITING	TALKING
10	1.50	1.50
11	1.50	1.50
12	1.50	1.50
13	0	0
14	2.52	2.52
15	1.56	1.56
16	3.81	3.81
17	0	0
18	3.00	3.00
19	1.08	4.13
20	3.09	0
21	0.33	0.33
22	3.09	0
23	1.06	1.06
24	1.06	1.06
25	1.06	1.06
26	1.06	1.06
27	0	0
28	0	3.75
29	2.69	0.11
30	0.00	0
31	3.62	2.10
32	3.05	0
33	0	0
34	3.23	0
35	1.79	4.17
36	0	0
37	1.64	1.64
38	1.00	1.00
39	1.11	1.11
40	4.21	4.21
41	0	0
42	4.20	0.32
43	4.12	4.12
44	4.20	4.20

IC602

1	2.36	2.36
2	4.20	4.20
3	0	0

IC603

1	0	0
2	4.12	4.12
3	3.00	3.00

IC604

Pin No.	WAITING	TALKING
1	0	0
2	0	0
3	0	0
4	0	0
5	3.12	3.12
6	0	0
7	0	0
8	4.21	4.21

IC605

1 - 34	—	—
35	0	0
36	1.52	1.52
37	1.50	1.50
38	—	—
39	—	—
40	—	—
41	—	—
42	2.05	2.05
43	1.33	1.33
44	1.33	1.33
45	0.68	0.68
46	0	0
47	0	0
48	1.45	1.45
49	1.50	1.50
50	0.23	0.23
51	1.89	1.89
52	3.53	3.53
53	0	0
54	3.00	3.00
55	1.00	1.00
56	0.77	0.77
57	0.79	0.79
58	0.75	0.75
59	0.81	0.81
60	0.86	0.86
61	0.90	0.90
62	0.87	0.87
63	3.00	3.00
64	—	—
65	—	—
66 - 128	—	—

Q201

Pin No.	WAITING	TALKING
E	0	0
C	13.30	0
B	0	0.73

Q501

Pin No.	WAITING	TALKING
E	5.00	5.00
C	12.70	12.70
B	5.67	5.67

Q704

Pin No.	WAITING	TALKING
E	0	0.78
C	0	4.10
B	0	0.92

Q301

E	0	0
C	0	4.91
B	0	0.76

Q502

E	13.17	13.17
C	13.81	13.81
B	11.23	11.23

Q705

E	4.22	4.22
C	0	4.17
B	3.55	3.49

Q302

E	5.00	5.00
C	0.59	4.95
B	4.34	4.28

Q503

E	0	0
C	2.55	2.55
B	0	0

Q706

E	0	0
C	0	0
B	0	0.55

Q303

E	0	1.84
C	0.57	4.17
B	0.60	1.73

Q601

E	0	0
C	4.22	4.22
B	0	0

Q707

E	0.67	0.60
C	0	0
B	0	0.40

Q304

E	2.22	2.22
C	4.95	4.95
B	1.60	1.60

Q602

E	2.61	2.61
C	0	0
B	4.12	4.12

Q708

E	0	1.47
C	0	1.47
B	0	1.51

Q306

E	0	0
C	0	0
B	0.59	0.59

Q603

E	2.61	2.61
C	0	0
B	1.68	1.68

Q307

E	6.47	6.25
C	10.92	10.54
B	6.95	6.74

Q701

E	0	0
C	0	4.12
B	0	0.65

Q308

E	6.48	6.23
C	0	0
B	5.06	5.46

Q702

E	4.22	4.22
C	0	4.16
B	3.54	3.49

Q309

E	0	0
C	5.66	5.42
B	0.69	0.69

Q703

E	0	1.67
C	0	3.97
B	0	1.22

IC DESCRIPTION

IC, TMP87C408M

Pin No.	Pin Name	I/O	Description
1	XOUT	O	Resonator out (4.0 MHz)
2	XIN	I	Resonator in (4.0 MHz)
3	TEST	I	Tied low
4	NC	I	Not connected
5	PAGE KEY	I	PAGE Key 1 = PAGE ON, 0 = Standby
6	DTMF 5	O	DTMF DATA 5
7	DTMF 4	O	DTMF DATA 4
8	DTMF 3	O	DTMF DATA 3
9	DTMF 2	O	DTMF DATA 2
10	DTMF 1	O	DTMF DATA 1
11	DTMF 0 OUT RANGE	I/O	DTMF DATA 0 Normally High (Pull up)
12	L SEIZE 100/600	I/O	Line Seize 1 = Line Seize Flush Time select 1 = 100ms, 0 = 600ms
13	SIG OUT	I	Received Signal Strength Indicator 0 = Carrier present, 1 = Carrier absent 0 = RX unlock, 1 = RX lock 0 = TX unlock, 1 = TX lock
14	VSS	—	Ground
15	BAND Frequency 1	I/O	Shunt capacitor frequency high band 1 = Shunt 1 = 25CH, 0 = 10CH
16	COMBO CLK	O	Combo chip CLOCK
17	COMBO DATA	O	Combo chip DATA
18	COMBO STB	O	Combo chip STB
19	TX PWR	O	TX Power control 0 = ON, 1 = OFF
20	TX DATA M/B	I/O	Transmitted DATA Make Break rate select 1 = 33.3%, 0 = 40.0%
21	INUSE/CHG LED	O	INUSE/CHG LED 0 = ON
22	ANT LED	O	ANT LED 0 = ON
23	T/P SW	I	T/P SW input 1 = Pulse, 0 = Tone
24	RX DATA	I	Received DATA
25	CHG DET	I	Charger detect 0 = Charging, 1 = Not charging
26	RING DET	I	Ringer detect 0 = Ring
27	RESET	I	Normally High, low to reset MCU
28	VDD	—	Power (VDD)

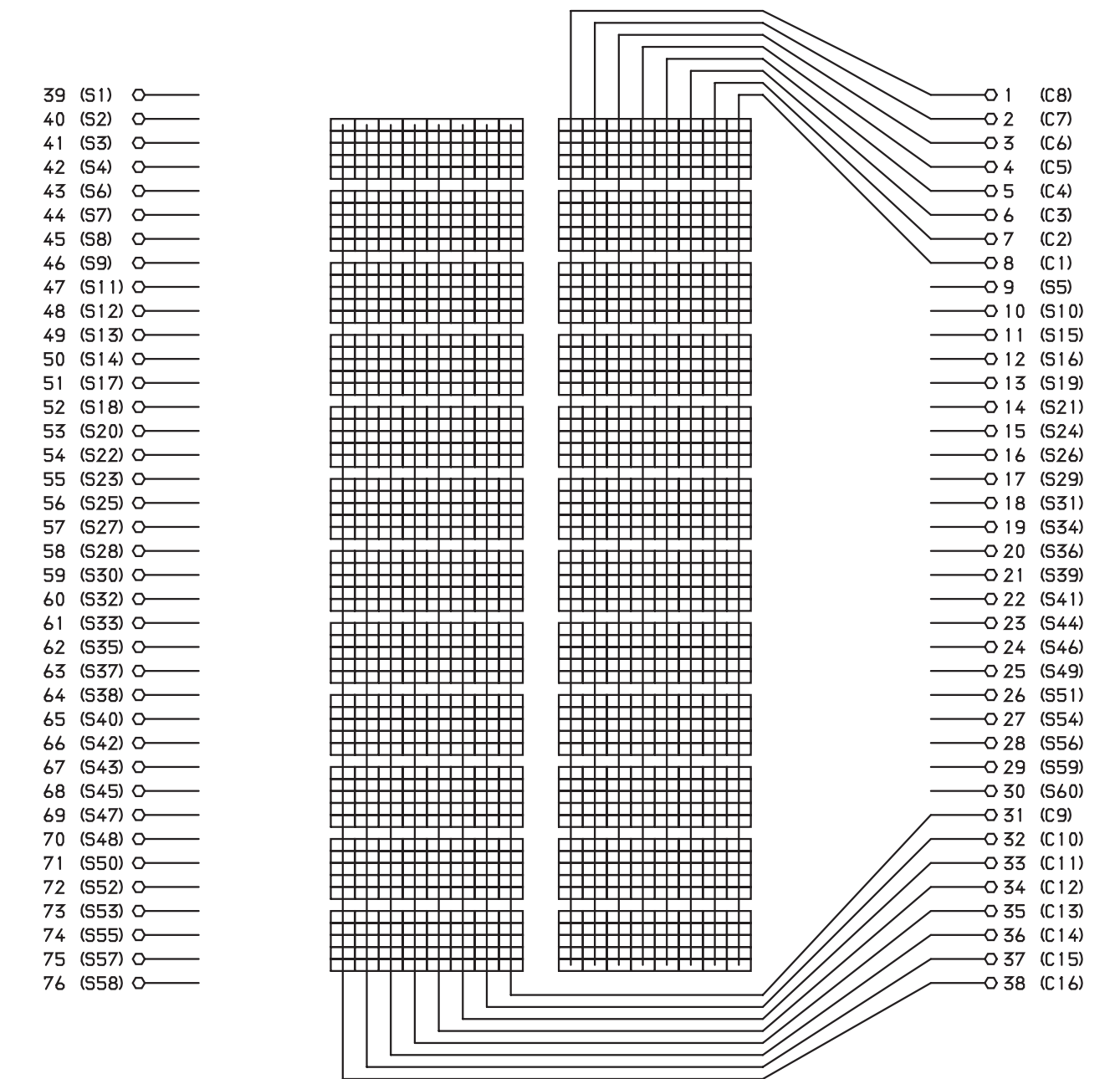
IC, TMP87PH47U

Pin No.	Pin Name	I/O	Description															
1	KY OUT 4	O	Keypad column output 4															
2	KY OUT 3	O	Keypad column output 3															
3	KY OUT 2	O	Keypad column output 2															
4	KY OUT 1	O	Keypad column output 1															
5	FREQUENCY 1 VOL 1	I/O	1 = 25CH, 0 = 10CH <table><tr><td></td><td>4 (Max.)</td><td>3</td><td>2</td><td>1 (Min.)</td></tr><tr><td>VOL 1</td><td>1</td><td>1</td><td>0</td><td>0</td></tr><tr><td>VOL 0</td><td>1</td><td>0</td><td>1</td><td>0</td></tr></table>		4 (Max.)	3	2	1 (Min.)	VOL 1	1	1	0	0	VOL 0	1	0	1	0
	4 (Max.)	3		2	1 (Min.)													
VOL 1	1	1		0	0													
VOL 0	1	0	1	0														
6	VOL 0	O																
7	KY IN 6	I	Keypad column input 6															
8	KY IN 5	I	Keypad column input 5															
9	KY IN 4	I	Keypad column input 4															
10	KY IN 3	I	Keypad column input 3															
11	KY IN 2	I	Keypad column input 2															
12	KY IN 1	I	Keypad column input 1															
13	TEST	I	Tied to low															
14	RESET	I	Normaly High, low to reset MCU															
15	XIN	I	Resonator in (4.0 MHz)															
16	XOUT	O	Resonator out (4.0 MHz)															
17	VSS	—	Ground															
18	VREF	I	A/D Reference voltage input (3.0V)															
19	LCD RS COMBO CLK	O	LCD Control (Resister select 0 = Instruction resister, 1 = Data resister) Combo chip CLOCK															
20	LCD RW COMBO DATA EP DATA	I/O	LCD Control (0 = Write, 1 = Read) Combo chip DATA EEPROM DATA															
21	BAT DET	I	Battery voltage input															
22	EP CLK	O	EEPROM CLOCK															
23	LCD DB 4	I/O	LCD DATA 4															
24	LCD DB 5	I/O	LCD DATA 5															
25	LCD DB 6	I/O	LCD DATA 6															
26	LCD DB 7	I/O	LCD DATA 7															
27	COMBO STB	O	Combo chip STB															
28	TX DATA	O	Transmitted DATA															
29	SIG OUT	I	Received Signal Strength Indicator 0 = Carrier present, 1 = Carrier absent 0 = RX unlock, 1 = RX lock 0 = TX unlock, 1 = TX lock															
30	CHG DET	I	Charger detect 1 = Charging, 0 = Not charging															
31	RX DATA	I	Received DATA															
32	TX PWR	O	TX Power control 0 = ON, 1 = OFF															
33	BPTONE	O	Buzzer signal															
34	RX PWR	O	RX Power control 0 = ON, 1 = OFF															

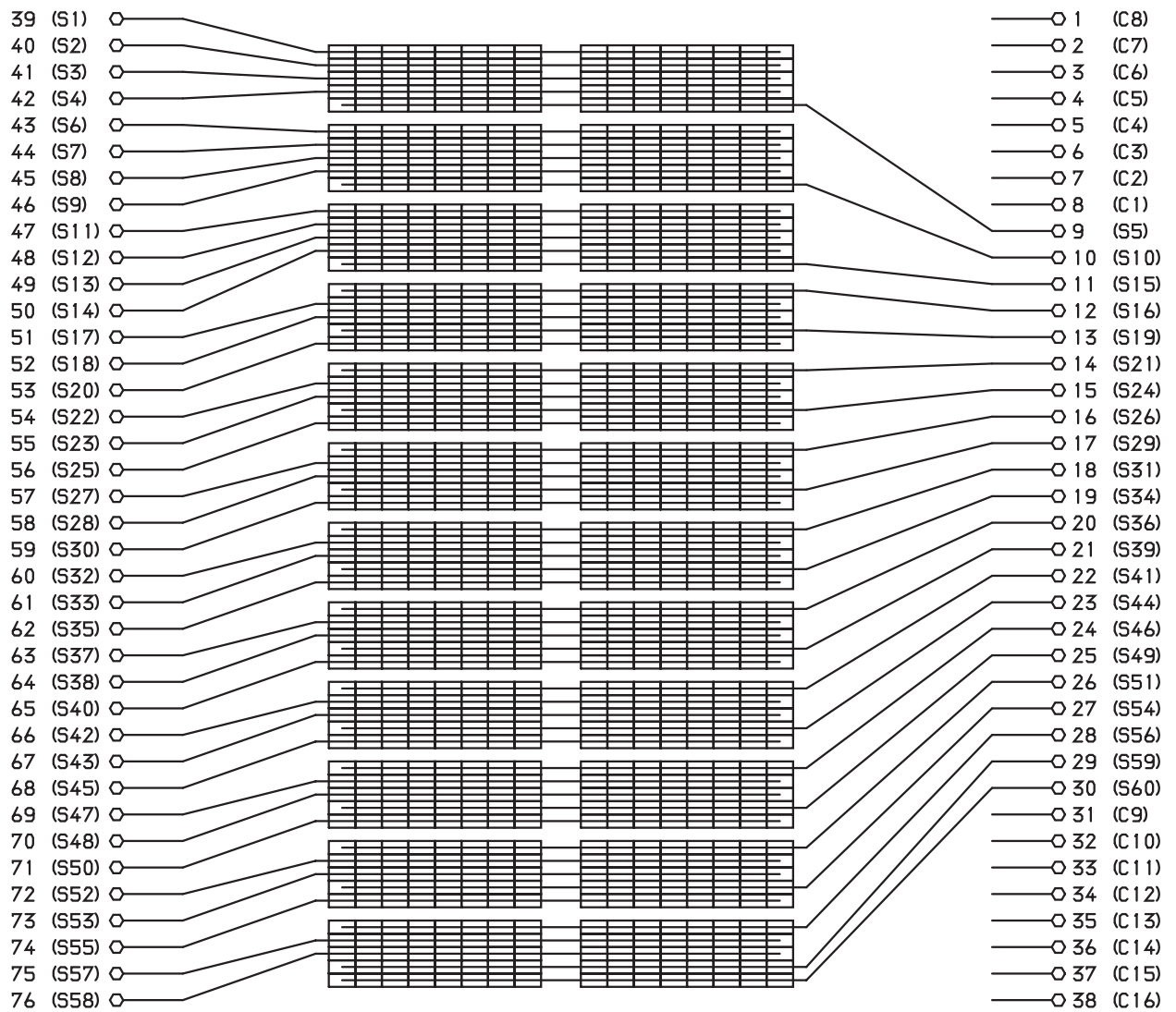
Pin No.	Pin Name	I/O	Description
35	BAND	O	Shunt capacitor frequency high band 1 = Shunt
36	NC	—	Not connected
37	ANT LED/KEY LED	O	ANT/Keypad LCD 0 = ON
38	XTIN	I	32.768 kHz crystal
39	XTOUT	O	32.768 kHz crystal
40	VDD	—	Power (VDD)
41	LCD EN	O	LCD Enable (1 = Enable)
42	TALK LED	O	TALK LED 0 = ON
43	LOWBAT LED	O	Normaly High
44	LCD LED	O	LCD Backlight LED 0 = ON

LCD DISPLAY

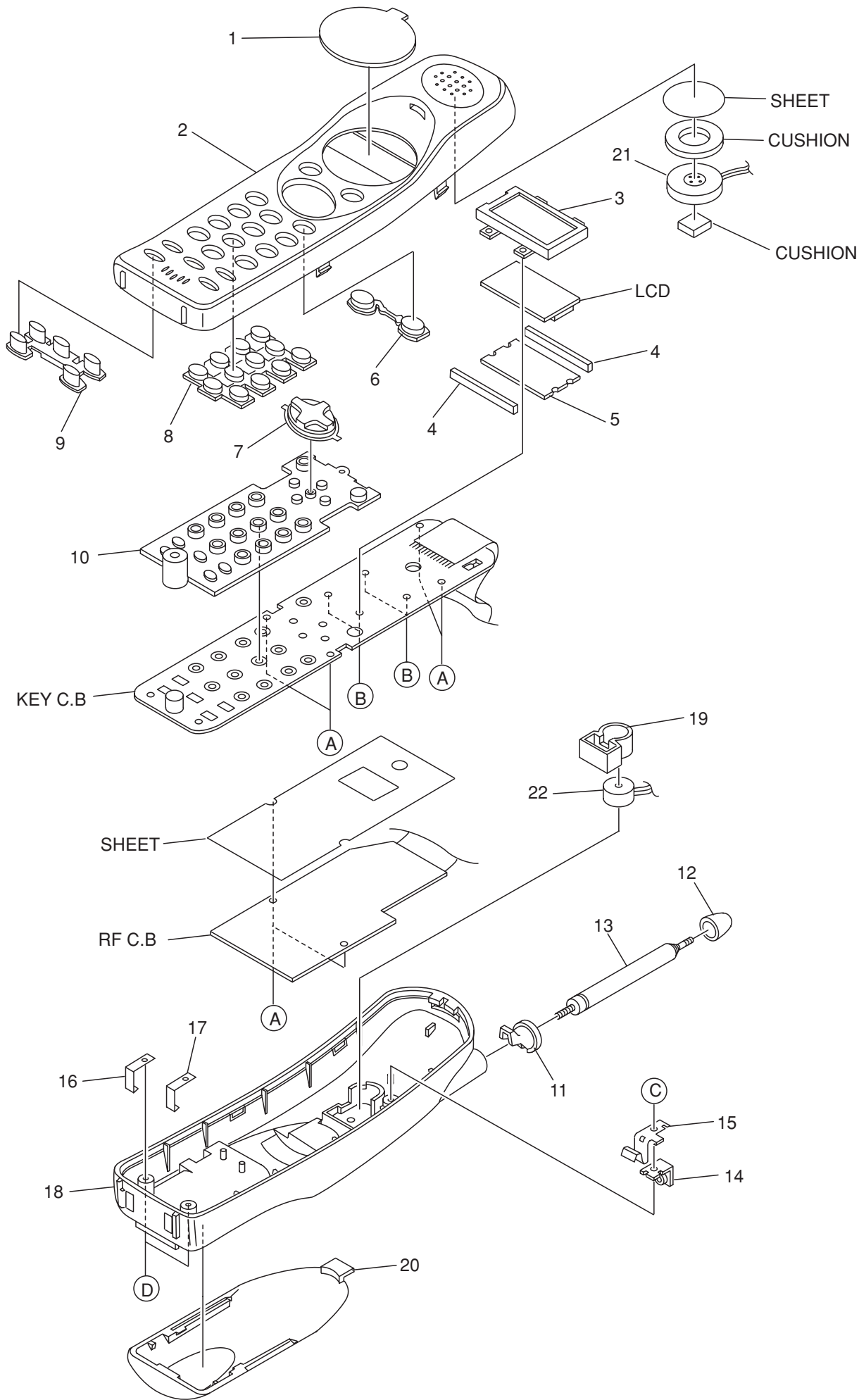
• COMMON



• SEGMENT



MECHANICAL EXPLODED VIEW 1/2 [HANDSET UNIT SECTION]



MECHANICAL MAIN PARTS LIST 1/2 [HANDSET UNIT SECTION]

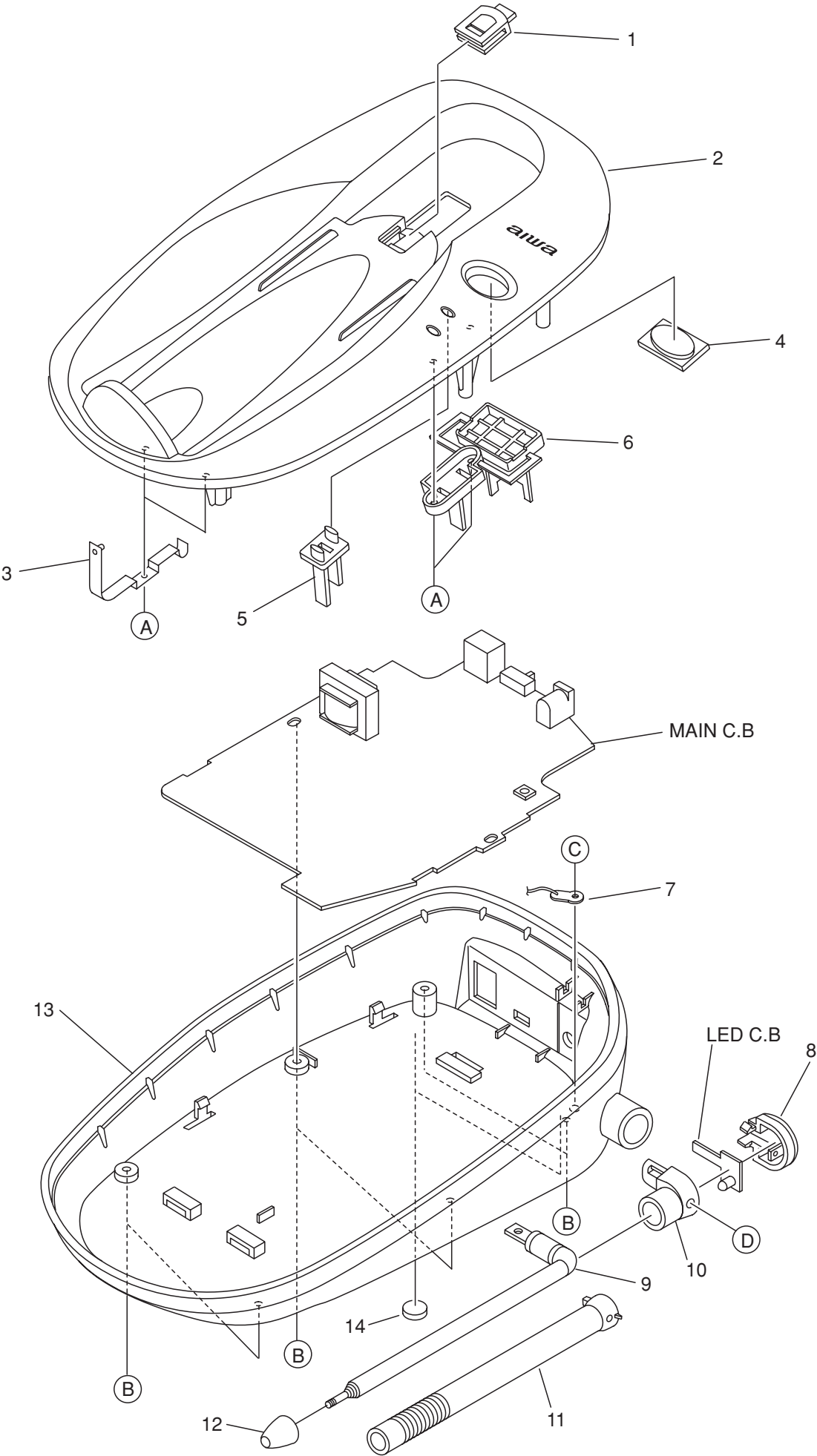
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-PC5-028-010		WINDOW, LCD
2	8Z-PC5-021-010		CABI, FR H/S
3	8Z-PC5-222-010		HLDR, LCD H/S
4	8Z-PC5-224-010		TERMINAL, RUBBER LCD
5	8Z-PC5-223-010		REFLECTOR, LCD H/S
6	8Z-PC5-025-010		BTN, TALK H/S
7	8Z-PC5-027-010		BTN, SEARCH H/S
8	8Z-PC5-024-010		BTN, DIAL H/S
9	8Z-PC5-026-010		BTN, FUNCTION H/S
10	8Z-PC5-221-010		BTN, RUBBER H/S
11	8Z-PC5-029-010		GUIDE, LED H/S
12	8Z-PC5-030-010		CAP, ANT H/S
13	8Z-PC5-608-010		ANT, ZPC-5 H/S
14	8Z-PC5-227-010		HLDR, ANT H/S
15	8Z-PC5-228-010		TERMINAL, ANT H/S
16	8Z-PC5-225-010		PLATE, CONT L H/S
17	8Z-PC5-226-010		PLATE, CONT R H/S
18	8Z-PC5-022-010		CABI, REAR H/S
19	8Z-PC5-229-010		HLDR, BUZZER H/S
20	8Z-PC5-023-010		LID, BATT H/S
21	8Z-PC5-637-010		SPKR, SD153BH
22	8Z-PC5-635-010		VIB, BUZZER 1960HZ 160HMPR99116
A	87-751-034-410		SCREW VT2+2-5
B	87-261-032-410		V+2-3 GLD
C	87-751-074-410		VT2+2.6-8 W/O CUT
D	87-751-036-410		VT2+2-8 W/O SLOT

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		

MECHANICAL EXPLODED VIEW 2/2 [BASE UNIT SECTION]



MECHANICAL MAIN PARTS LIST 2/2 [BASE UNIT SECTION]

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	8Z-PC5-008-010		HANGER, H/S B/U
2	8Z-PC5-001-010		CABI, TOP B/U
3	8Z-PC5-201-010		TERMINAL, CHG
4	8Z-PC5-003-010		KEY, PAGE B/U
5	8Z-PC5-004-010		LENS, LED B/U
6	8Z-PC5-202-010		HLDR, PAGE B/U
7	88-PCD-205-010		TERMINAL, ANT B/U
8	8Z-PC5-006-010		COVER, BOTTOM ANT B/U
9	8Z-PC5-609-010		ANT, ZPC-5 B/U
10	8Z-PC5-005-010		COVER, TOP ANT B/U
11	8Z-PC5-007-010		GUIDE, LED ANT B/U
12	8Z-PC5-010-010		CAP, ANTENNA B/U
13	8Z-PC5-002-010		CABI, BOTTOM B/U
14	88-PCD-202-010		FOOT, RUBBER
A	87-751-034-410		SCREW VT2+2-5
B	87-751-096-410		VT2+3-10 GLD
C	87-751-095-410		VT2+3-8 W/O
D	87-261-553-310		V+2-6

