

# Service Manual

## and Technical Guide

**Easa-Phone**  
CORDLESSPHONE

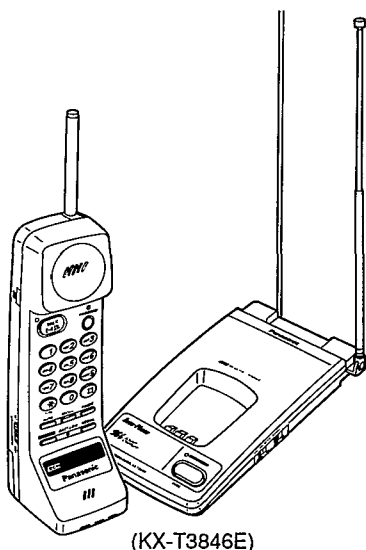
Telephone Equipment



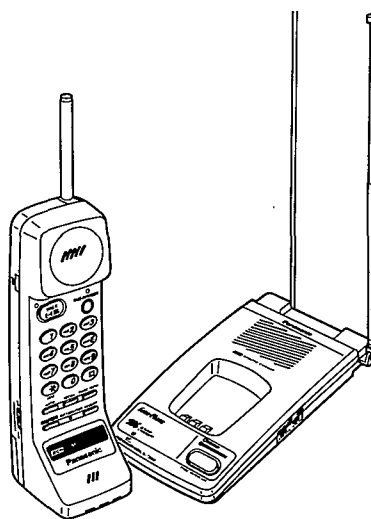
# KX-T3846E

# KX-T3856E

(for United Kingdom)



(KX-T3846E)



(KX-T3856E)

### ■ SPECIFICATIONS

#### General

Modulation:

Base Unit: FM 4 kHz Deviation, Portable Handset: FM 2.5 kHz Deviation

Frequency Stability:

±2.0 kHz

Dial Type:

Tone (DTMF)/Pulse

Redial:

Last dialed number each time the Redial button is pressed

Pause:

3.5 seconds per pause

Memory Capacity:

10 telephone numbers, up to 16 digits per station

	Base Unit	Portable Handset
Power Source: (Receiver Section)	AC adaptor KX-A14BEXE, Built-in	Built-in rechargeable Ni-Cd battery (KX-A36A)
Receiving Frequency:	2 channel within 47.4 to 47.6 MHz	2 channel within 1.64 to 1.79 MHz
Adjacent Channel Rejection:	40 dB	40 dB
Sensitivity: (Transmitter Section)	1 μV for 12 dB S/N	2 μV for 12 dB S/N
Transmitting Frequency:	2 channel within 1.64 to 1.79 MHz	2 channel within 47.4 to 47.6 MHz
Jacks:	DC IN, Telephone line	
Antenna:	Telescopic, Lead Antenna	Retractable Rubber Flexible, Bar Antenna
Speaker:	5 cm (2") PM dynamic (KX-T3856E only)	3 cm (1.2") ceramic type
Microphone:	Condenser microphone	Condenser microphone
Dimensions (HxWxD):	41x122x222 mm 1 <sup>5</sup> / <sub>8</sub> "x4 <sup>13</sup> / <sub>16</sub> "x8 <sup>3</sup> / <sub>4</sub> "	285x60x73 mm (11 <sup>7</sup> / <sub>32</sub> "x2 <sup>11</sup> / <sub>32</sub> "x2 <sup>7</sup> / <sub>8</sub> "
Weight:	320 g (0.71 lbs.) (KX-T3846E only) 380 g (0.84 lbs.) (KX-T3856E only)	270 g (0.6 lbs.) with battery

Design and specifications are subject to change without notice.

# Panasonic

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**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

When you mention the serial number, write down the 11 digits. The serial number may be found on the label affixed to the bottom of the unit.

**FOR SERVICE TECHNICIANS**

**ICs and LSIs are vulnerable to static electricity.**

**When replacing, the following precautions will help prevent recurring malfunctions.**

- 1) Cover the plastic parts boxes with aluminum foil.
- 2) Ground the soldering irons.
- 3) Use a conductive mat on the workable.
- 4) Do not grasp IC or pins with bare fingers.

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# LOCATION OF CONTROLS

## Base Unit

(KX-T3846EH)

(KX-T3856EH)

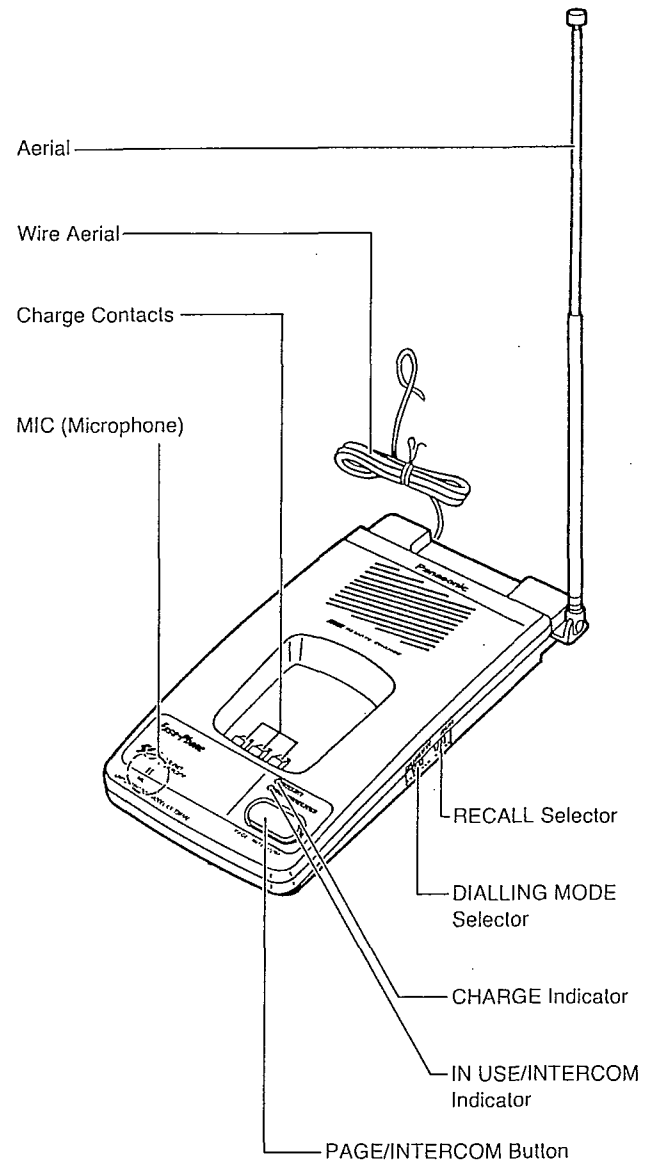
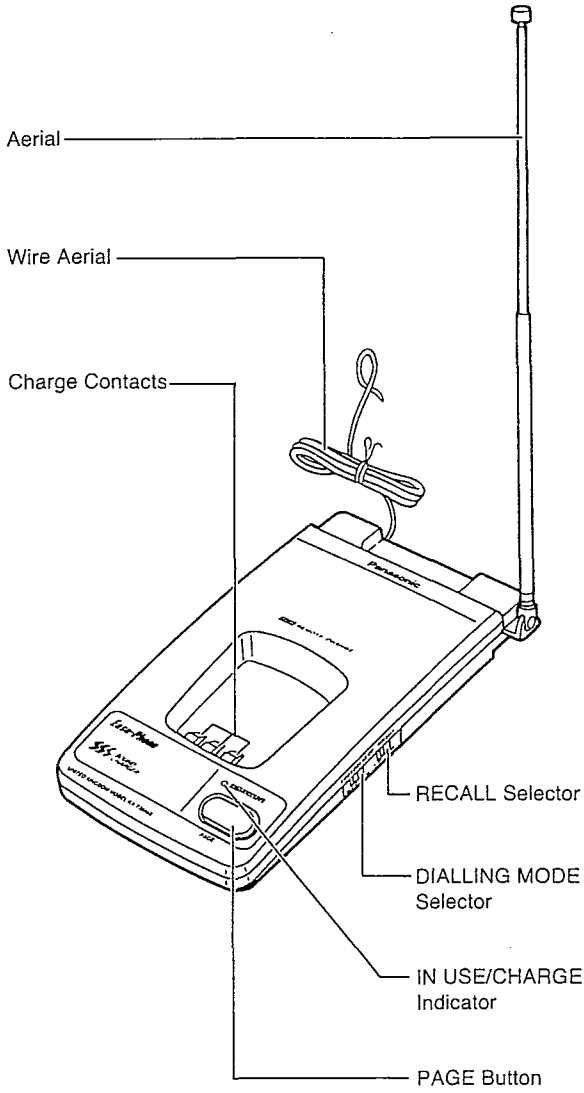


Fig. 1

### Portable Handset

(KX-T3846ER)

(KX-T3856ER)

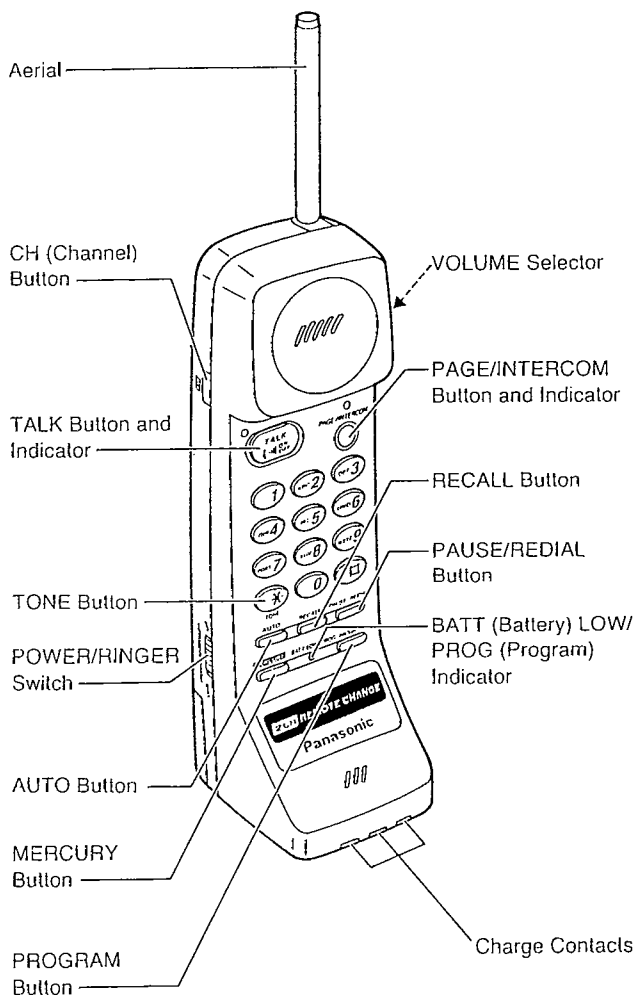
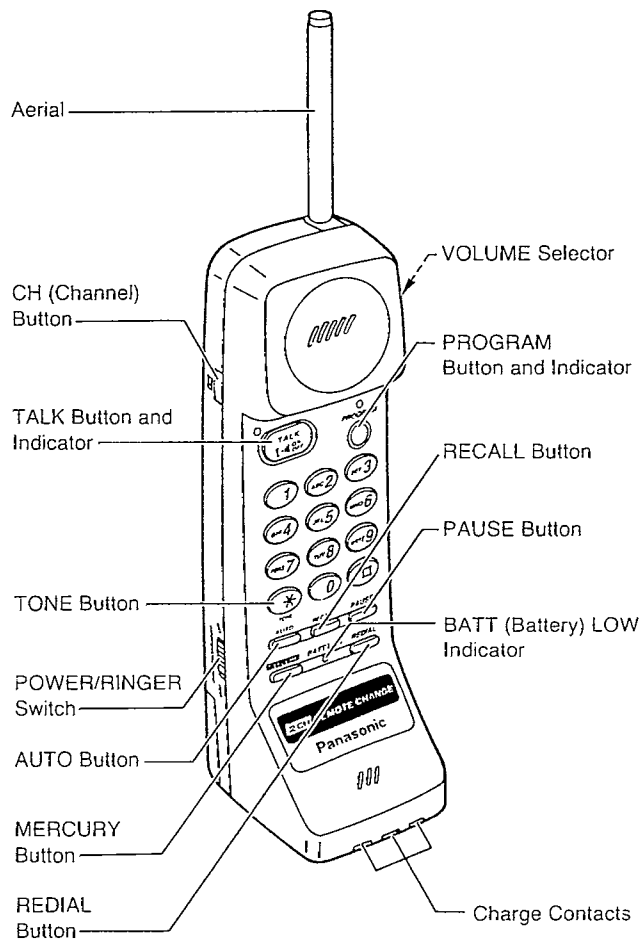
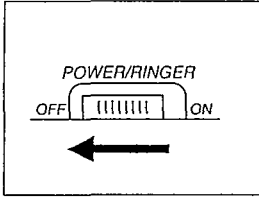


Fig. 2

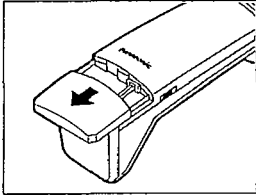
## BATTERY REPLACEMENT

Replace the battery with a new one if the BATT LOW/PROG indicator flashes after a few telephone calls even when the battery has been charged for 10 hours.

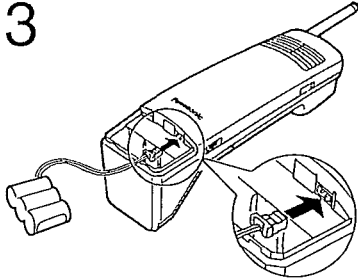
- 1



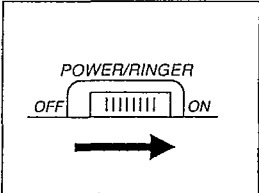
Set the POWER/RINGER switch on the portable handset to the OFF position, in order to prevent memory loss.
- 2



Remove the battery compartment cover.
- 3



Replace the battery.
- 4



Close the cover and set the POWER/RINGER switch to the ON position.

### Notes:

- Please use only Panasonic KX-A36A battery.
- Remember to charge the battery for about 10 hours after battery replacement.

### Standard battery life

If your Panasonic battery is fully charged:

In TALK mode	Up to about 7 hours
In Stand-by mode	Up to 7 days

Battery life may vary depending on actual use and ambient temperature.

## CONNECTION

### Power failure protection

The unit will not function during a power failure. We recommend that you install eight optional batteries (AA, R6 or UM-3 size) into the Battery box. Then, you can operate the unit during a power failure.

### CONNECTION OF POWER SUPPLY

USE ONLY Panasonic AC ADAPTOR KX-A14BE AND BATTERY BOX KX-A91E.

This apparatus is intended for use when powered by the KX-A14BEXE and KX-A91E. Using other power supplies will invalidate any approval given to this apparatus.

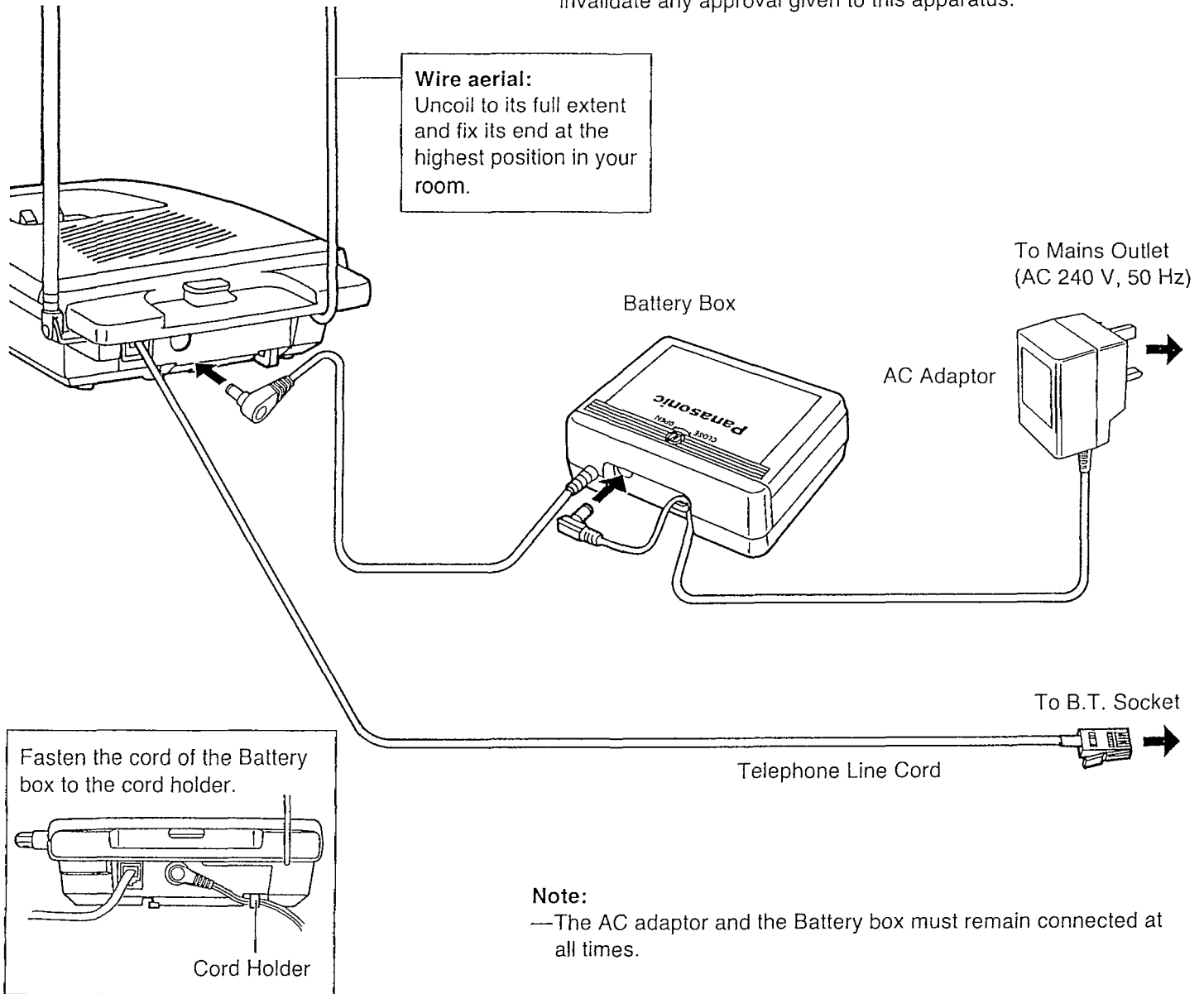
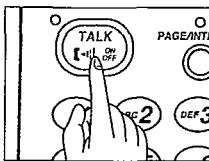
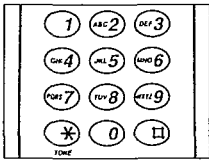
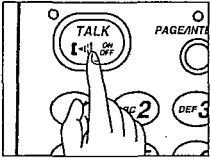


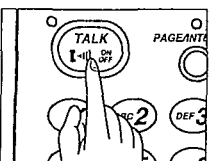
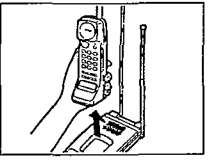
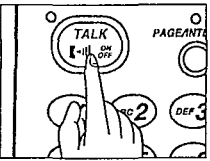
Fig. 3

# OPERATIONS

## MAKING CALLS

- 1  Press the TALK button to get dial tone.  
—The TALK indicator and the dialling button lights are on.
- 2  Dial a telephone number.  
—The dialling button lights will go out about 10 seconds later.
- 3  To hang up, press the TALK button or place the portable handset on the base unit.  
—The TALK indicator light goes out.

## ANSWERING CALLS

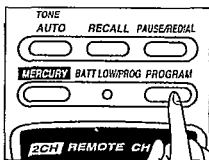
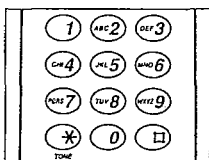
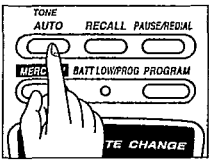
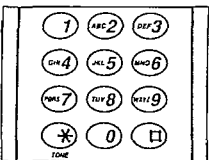
- 1  **If the portable handset is off the base unit:**  
When the telephone rings, press the TALK button to answer the call.  
—The TALK indicator light is on.  
  
**OR**
-  **If the portable handset is on the base unit:**  
When the telephone rings, lift the portable handset to answer the call.
- 2  To hang up, press the TALK button or place the portable handset on the base unit.  
—The TALK indicator light goes out.

## AUTOMATIC DIALING

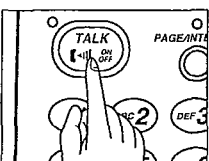
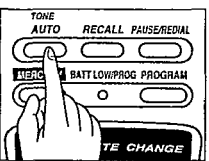
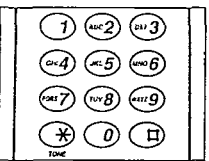
### Storing phone numbers in memory

The dialling buttons (0 through 9) function as memory stations for automatic dialing. A 16-digit phone number can be stored in each station.

Make sure that the TALK indicator light is off.

- 1  Press the PROGRAM button.  
—The BATT LOW/PROG indicator light is on to show the unit is in the programming mode.
- 2  Enter a phone number up to 16 digits.
- 3  Press the AUTO button.
- 4  Press one of the dialling buttons (0 through 9) to select a memory station.  
—The BATT LOW/PROG indicator light goes out.  
—The phone number is stored in the memory location.  
—To store other numbers, repeat steps 1 through 4.

### Dialling a stored number from memory

- 1  Press the TALK button to get dial tone.  
—The TALK indicator and the dialling button lights are on.
- 2  Press the AUTO button.
- 3  Press the dialling button (0 through 9) where the phone number you want to dial is stored.  
—The stored number is dialled automatically.

# DISASSEMBLY INSTRUCTIONS

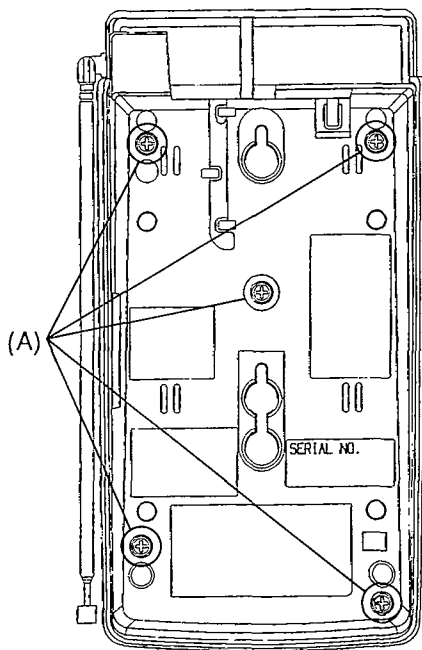
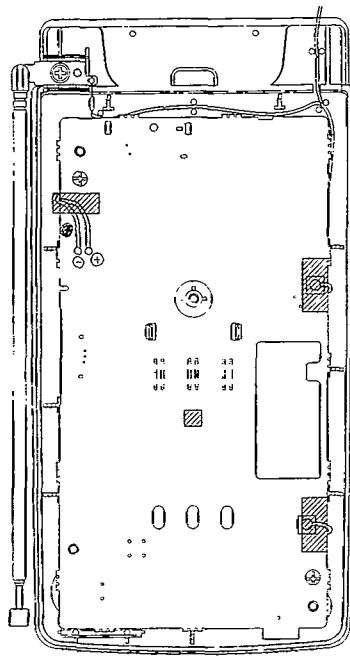


Fig. 4



Remove the P.C. Board.

Fig. 5

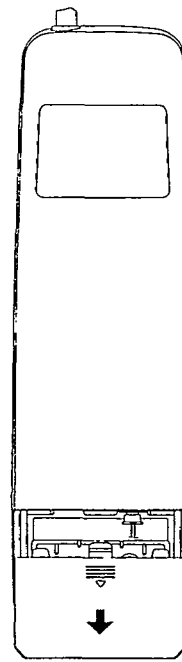


Fig. 6

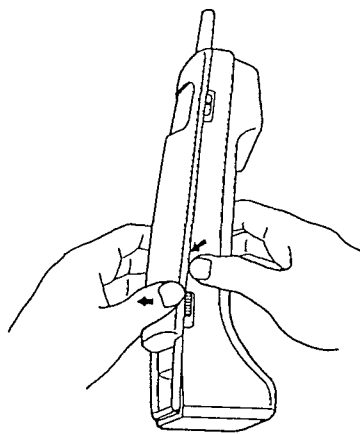


Fig. 7

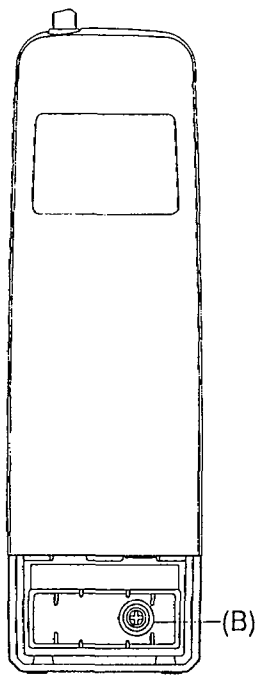


Fig. 8

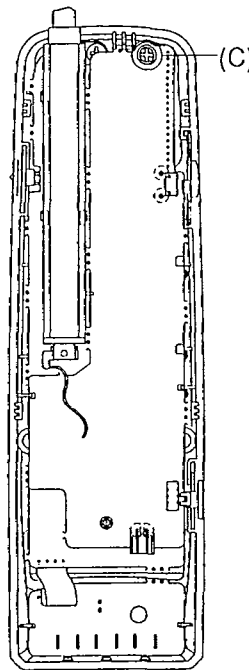


Fig. 9

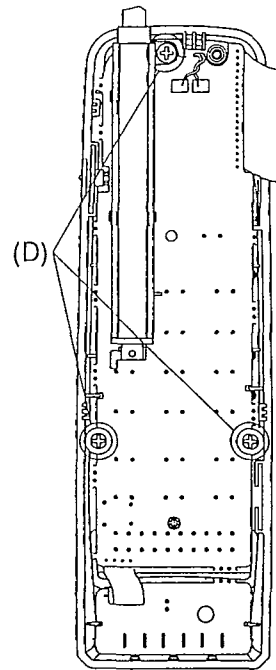


Fig. 10

Ref. No.	Procedure	Shown in Fig.—	To remove—	Remove—
1	1	4	Lower Cabinet	Screws (3x16) .....(A)x5
2	1, 2	5	Printed Circuit Board	Remove the P.C. Board.
3	3, 4	6	Rear Cabinet	Pull the battery cover in the direction arrow.
4		8	(Refer to the below note.)	Screw (2.6x10) .....(B)x1
5	3~5	9	Printed Circuit Board	Screw (2.6x10) .....(C)x1
6	3~6	10		Screws (2.6x10, 2.6x8) .....(D)x3

Note: When removing the rear cabinet, remove and while pressing the arrow point. (See Fig. 7.)



MEMO

# CPU DATA (KX-T3846EH/KX-T3856EH)

IC5 MN158413AKRB

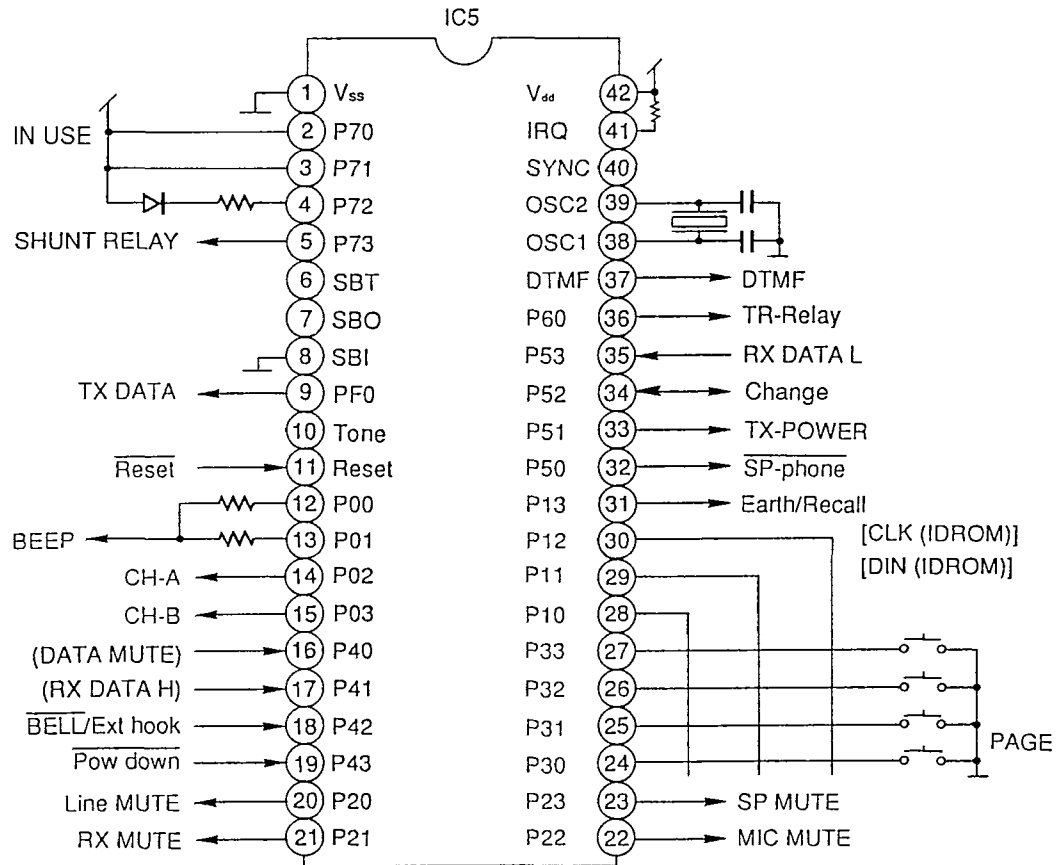


Fig. 11

Pin No.	Signal Name	I/O	High	High-Z	Low
1	GND		----	----	GND
2	(no use)	O	----	OFF	ON
3	(no use)	O	----	OFF	----
4	IN USE LED	O	----	OFF	ON
5	SHUNT Relay	O	----	OFF	ON
6	(no use)	O	/	/	/
7	(no use)	O	/	/	/
8	(no use)	I	/	/	/
9	TX DATA	O	1	----	0
10	(no use)	O	/	/	/
11	Reset	I	Normal	----	Reset
12	Beep Clock	O	(Active)	----	Normal
13	Beep Clock	O	(Active)	----	Normal
14	CH-A	O	1 OFF	0 CH-B	1 CH-A
15	CH-B	O	1	1	0

Pin No.	Signal Name	I/O	High	High-Z	Low
16	(no use)	I			
17	(no use)	I			
18	Bell	I	Normal	----	Bell
19	Power Down	I	Normal	----	Down
20	Line MUTE	O	Mute	----	Unmute
21	RX MUTE	O	Mute	----	Unmute
22	MIC MUTE	O	Mute	----	Unmute
23	(no use)			----	
24	Key in	I	Normal	----	Key in
25	Key in	I	Normal	----	Key in
26	Key in	I	Normal	----	Key in
27	Key in	I	Normal	----	Key in
28	Option Strobe	O	----	Normal	Active
29	Option Strobe	O	----	Normal	Active
30	Option Strobe	O	----	Normal	Active
31	Earth/Recall	O	----	ON	OFF
32	SP-CS	O	OFF	----	ON
33	TX-POWER	O	ON	----	OFF
34	Charge	I	Charge	----	Non
35	RX DATA	I	1	----	0
36	TR-RLY	O	----	OFF	ON
37	DTMF	O	(Active)	Normal	(Active)
38	CPU Clock	O			
39	(3.581 MHz)	I			
40	Synchronous Signal Output				
41	External Interrupt Input				
42	Power Supply	I	Normal	----	----

## ■ MN158413AKRB (IC5) TERMINALS EXPLANATION

Pin No.	Marking	Terminal Name	Function
42	V <sub>DD</sub>	Power Supply	+2.5~5.5 V connection
1	V <sub>SS</sub>	GND	Ground connection (0 V)
38, 39	OSC1 OSC2	Oscillation	Crystal oscillation of 3.57954 MHz (OSC1 Input, OSC2 Output) Feedback register is installed between OSC1 and OSC2.
11	$\overline{\text{RST}}$	Reset Signal Input	When a "L" level signal is input for more than 1 machine cycle, RESET is activated. Pull-up resistor option
41	$\overline{\text{IRQ}}$	Interrupt Input	Program control interrupt is activated when the negative edge signal is input. Pull-up resistor option
37	DTMF	DTMF Signal Input	DTMF signal ( wave mixed two types of signals) output.
8	$\overline{\text{SBI}}$	Serial Data Input	Input of 8-bit serial data.
20~23, 32~35	P20~P23 P50~P53	Parallel Data I/O	I/O ports for 4-bit parallel data. ("H" level during RESET, pull-up resistor option)
16~19, 24~27	P30~P43	Parallel Data Input	Input ports for 4-bit parallel data. Pull-up resistor option
2~5, 36	P60 P70~P73	Open drain Output	Output ports for 4-bit parallel data. (Open drain structure, High impedance during RESET.)
9, 12~15, 28~31	P00~P13 PF0	Parallel Data Output	Output port for 4-bit parallel data. "H" level during RESET.

# CPU DATA (KX-T3846ER/KX-T3856ER)

IC100 PQVI006G675

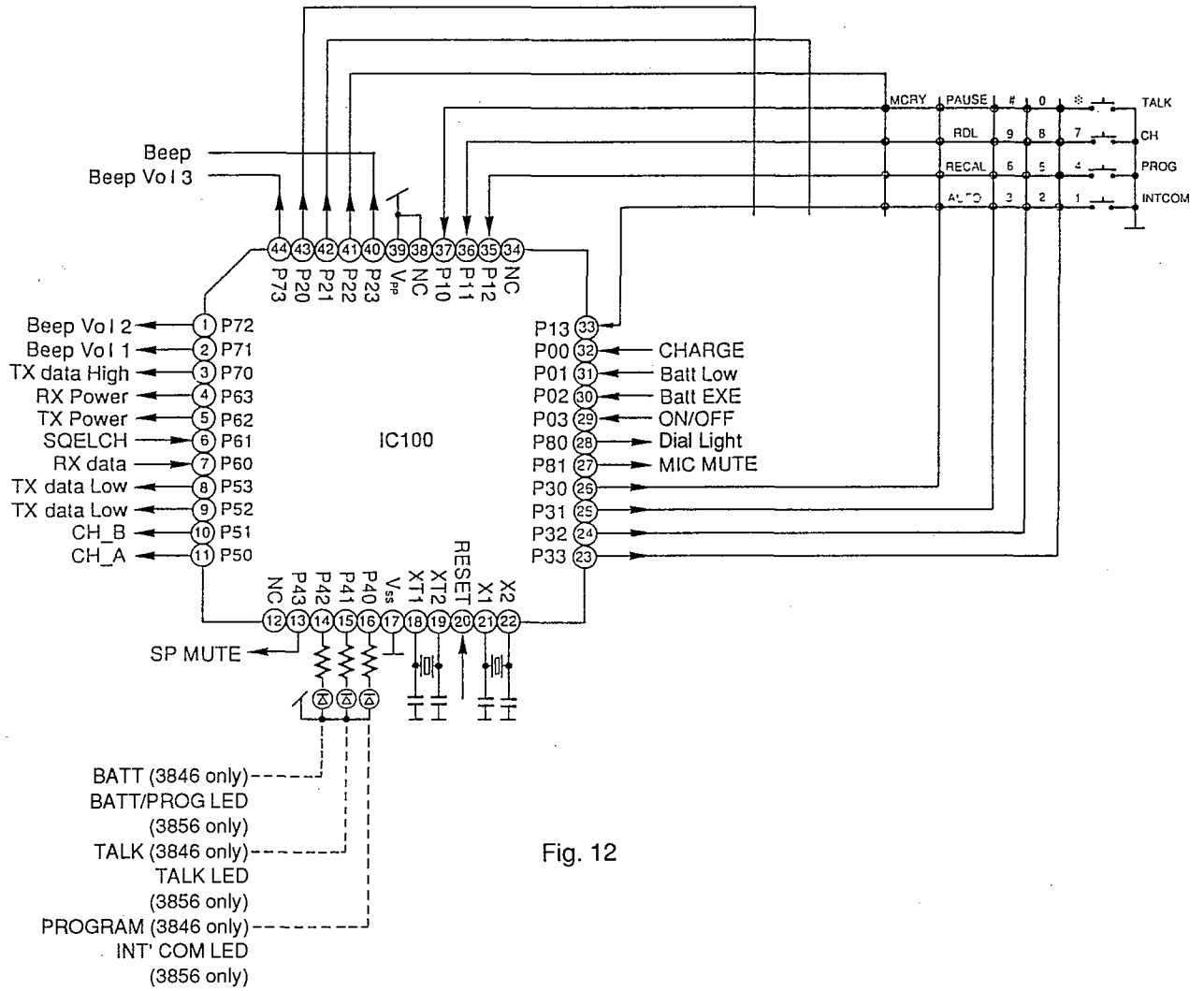


Fig. 12

Pin No.	Signal Name	I/O	High	High-Z	Low
1	Beep Vol. 2	O	Small	----	Large
2	Beep Vol. 1	O	Small	----	Large
3	TX DATA (H)	O	1	----	0
4	RX POWER	O	OFF	----	ON
5	TX POWER	O	OFF	----	ON
6	SQUELCH	I	Strong Electric Field	----	Weak Electric Field
7	RX DATA	I	1	----	0
8	TX DATA (L)	O	1	----	0
9	TX DATA (L)	O	1	----	0
10	CH-A	O	1 OFF	0 CH-B	1 CH-A
11	CH-B	O	1	1	0
12			----	----	----

Pin No.	Signal Name	I/O	High	High-Z	Low
13	SP MUTE	O	Unmute	----	Mute
14	LED BATT LOW	O	----	OFF	ON
15	LED TALK	O	----	OFF	ON
16	LED INT' COM	O	----	OFF	ON
17	GND		----	----	GND
18	Sub Clock	I	/	/	/
19	(32.768 kHz)	O	/	/	/
20	Reset	I	Normal	----	Reset
21	Main Clock	I	/	/	/
22	(1.2 MHz)	I	/	/	/
23	Key Strobe	O	----	Normal	Active
24	Key Strobe	O	----	Normal	Active
25	Key Strobe	O	----	Normal	Active
26	Key Strobe	O	----	Normal	Active
27	MIC MUTE	O	Mute	----	Unmute
28	LIGHTED	O	ON	----	OFF
29	ON/OFF	I	OFF	----	ON
30	Batt Exist	I	Yes	----	No
31	Batt Low	I	Normal	----	Batt Low
32	Charge	I	Non	----	Charge
33	Key in	I	Normal	----	Key in
34	/	/	----	----	----
35	Key in	I	Normal	----	Key in
36	Key in	I	Normal	----	Key in
37	Key in	I	Normal	----	Key in
38	/	/	----	----	----
39	Power Supply	/	----	----	----
40	Beep Clock	O	Normal	----	Active
41	Key Strobe	O	----	Normal	Active
42	Option Strobe	O	----	Normal	Active
43	Option Strobe	O	----	Normal	Active
44	Beep Vol. 3	O	Small	----	Large

**■ PQVI006G675 (IC100) TERMINALS EXPLANATION**

Pin No.	Symbol	I/O	Description
32	P00	I	4-bit input port (PORT0).
31	P01	I/O	P01–P03 are used for 3-bit input. The built-in pull-up resistance can be designated by 4 bits using software.
30	P02		
29	P03		
37	P10	I	4-bit input ports (PORT1). The built-in pull-up resistance can be designated by 4 bits using software.
36	P11		
35	P12		
33	P13		
43	P20	I/O	4-bit I/O ports (PORT2). The built-in pull-up resistance can be designated by software.
42	P21		
41	P22		
40	P23		
26	P30	I/O	Programmable 4-bit I/O ports (PORT3) used for input/output by bits. The built-in pull-up resistance can be designated by 4 bits using software.
25	P31		
24	P32		
23	P33		
13–16	P40–P43	I/O	N-ch open drain 4-bit I/O ports (PORT4). The pull-up resistance can be built-in by bit. (Mask option) During open drain: 10 V withstand
8–11	P50–P53	I/O	N-ch open drain 4-bit I/O ports (PORT5). The pull-up resistance can be built-in by bit. (Mask option) During open drain: 10 V withstand
7	P60	I/O	Programmable 4-bit I/O ports (PORT6) used for input/output by bit. The built-in pull-up resistance can be designated by 4 bits using software.
6	P61		
5	P62		
4	P63		
3	P70	I/O	4-bit I/O ports (PORT7). The built-in pull-up resistance can be designated by 4 bits using software.
2	P71		
1	P72		
44	P73		
28	P80	I/O	2-bit I/O ports (PORT8). The built-in pull-up resistance can be designated by 2-bits using software.
27	P81		

Pin No.	Symbol	I/O	Description	
33	TIO	I	External event pulse input terminal for the timer/event counter.	
43	PTO0	I/O	Timer/event counter output terminal.	
41	PCL	I/O	Clock output terminal.	
40	BUZ	I/O	Fixed frequency output terminal (for buzzer or trimming of the system clock).	
31	SCK	I/O	Serial clock I/O terminal.	
30	SO/SB0	I/O	Serial data output terminal. Serial bus I/O terminal.	
29	SI/SB0	I/O	Serial data input terminal. Serial bus I/O terminal.	
32	INT4	I	Input terminal of edge detection vector interrupt. (Rise and fall edges can be detected.)	
37	INT0	I	Edge detection vector interrupt input terminal. (Detection edge can be selected.)	Clock synchronous system
36	INT1			Asynchronous system
35	INT2	I	Edge detection testable input terminal. (Rise edge is detected.)	Asynchronous system
4~7	KR0-KR3	I/O	Parallel fall edge detection testable input terminal.	
1~3, 44	KR4-KR7	I/O	Parallel fall edge detection testable input terminal.	
21, 22	X1, X2	I	Crystal/ceramic connection terminal for the main system clock oscillation. For external clock, signal is input to X1 and its reversed phase is input to X2.	
18	XT1	I	Crystal connection terminal for the sub-system clock oscillation. For external clock, signal is input to XT1. XT2 is open.	
19	XT2			
20	RESET	I	System reset input terminal.	
12	NC		Not used	
39	V <sub>DD</sub>		Positive power supply.	
17	V <sub>SS</sub>		GND electric potential terminal.	



# EXPLANATION OF CPU DATA COMMUNICATION

## 1. Calling

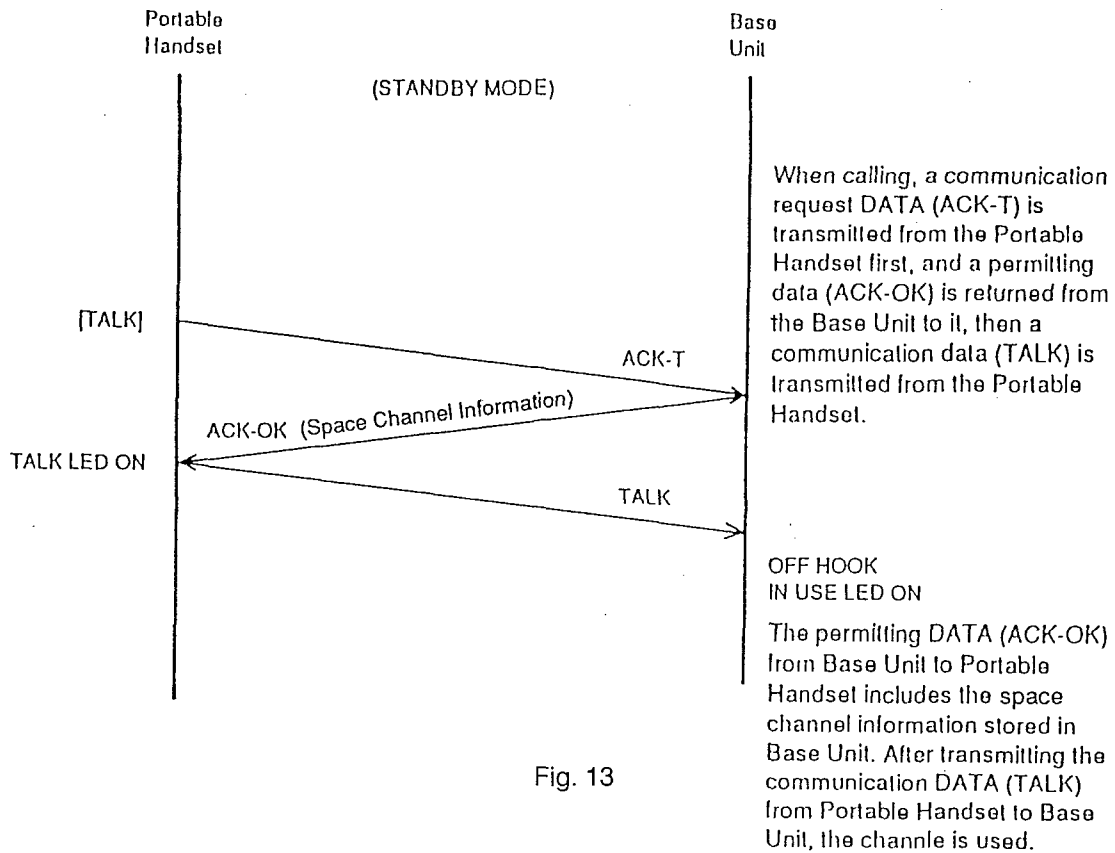


Fig. 13

## 2. To terminate Communication

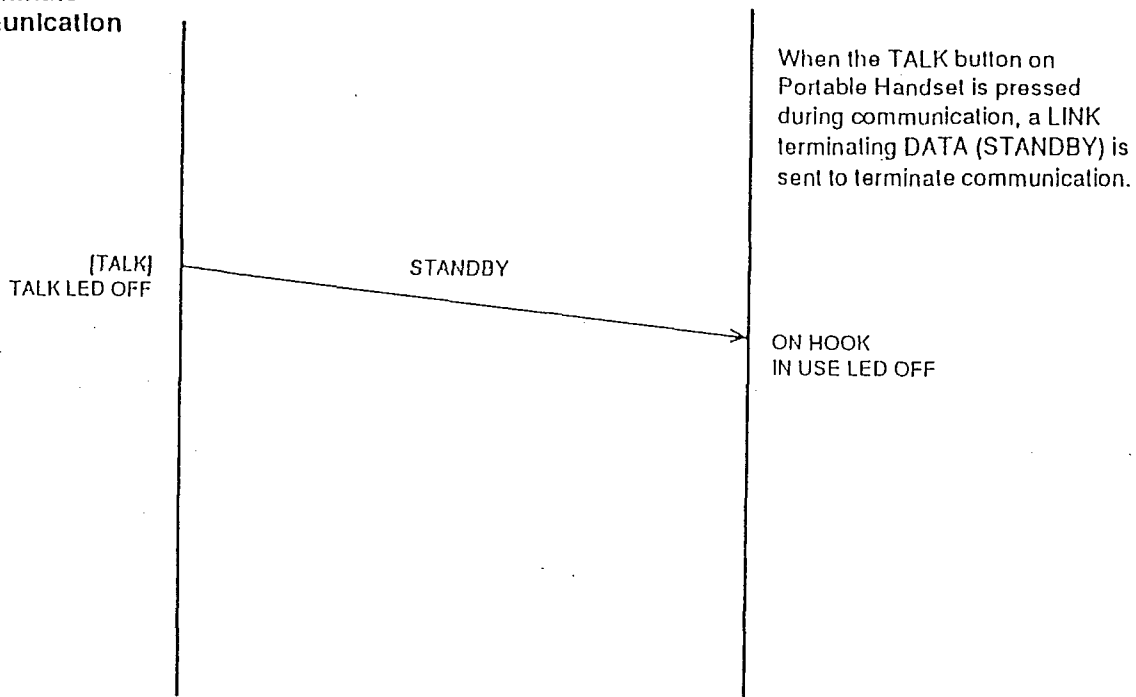


Fig. 14

### 3. Ringing

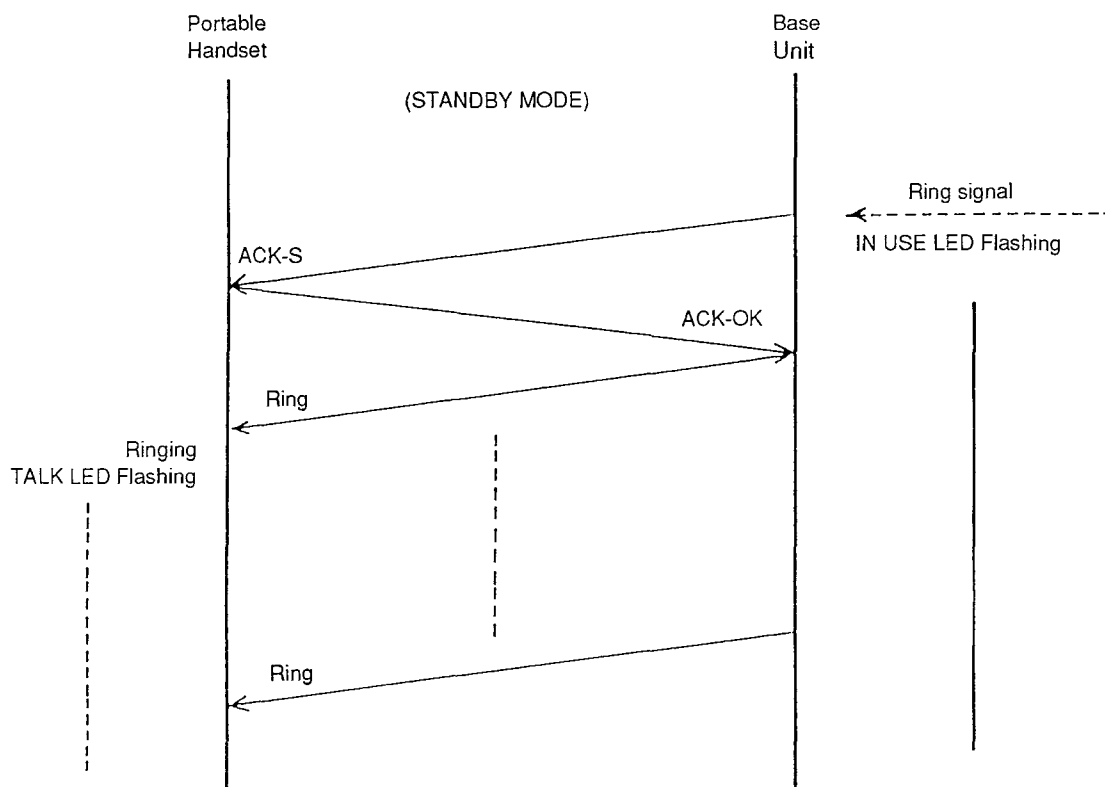


Fig. 15

After detecting the Ring signal from circuit, the Base Unit sends a LINK form requesting DATA (ACK-S) to the Portable Handset. When receiving this data, the Portable Handset returns a permitting DATA (ACK-OK) to the Base Unit. After receiving the returned DATA from the Portable Handset, the Base Unit sends a ring signal DATA (Ring), then the Portable Handset starts ringing.

### 4. Ports for transmitting and receiving of data

Portable Handset: transmitting...8 Pin receiving...7 Pin.

Base Unit: transmitting...9 Pin receiving...35 Pin

### 5. Wave form of DATA used for cordless transmission and reception

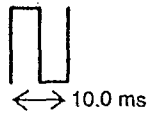
The DATA which is transmitted from the Portable Handset to the Base Unit is combination of DATA 0, DATA 1, DATA Delimt, Pre data and End data.

The DATA which is transmitted from the Base Unit to the Portable Handset is combination of DATA 0, DATA 1, DATA Delimt, Pre data and End data.

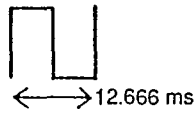
**PORTABLE HANDSET**

**Transmitting DATA Format**

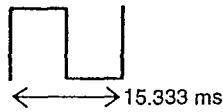
DATA 0



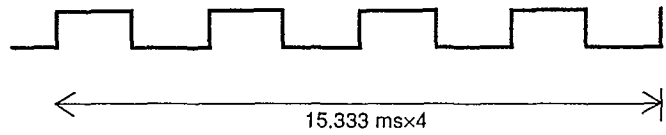
DATA 1



DATA Delimit



Pre data



END data

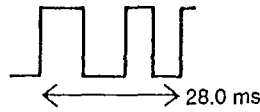
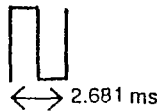


Fig. 16

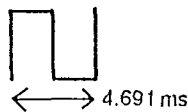
**BASE UNIT**

**Transmitting DATA Format**

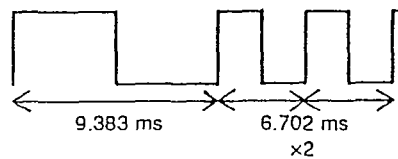
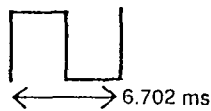
DATA 0



DATA 1



DATA Delimit



END data

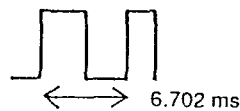


Fig. 17

**6. When LINKing**

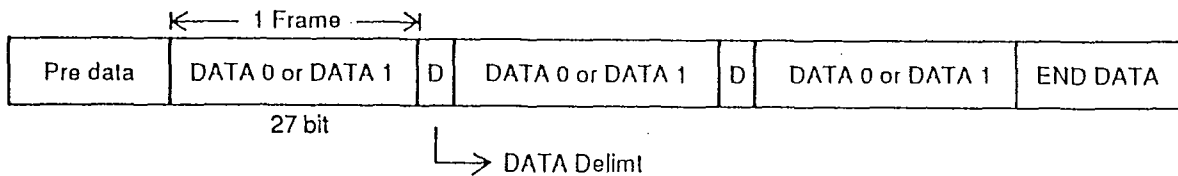


Fig. 18

When LINKing from the Portable Handset (when becoming STBY to TALK), DATA is transmitted in above format. The combined portion of DATA 0 and DATA 1 is transmitted in LINK requesting DATA format first. Then, when LINK OK (ACK-OK) DATA is returned from the Base Unit, it is sent as LINK form DATA after changing the combination of DATA 0 and DATA 1. And the DATA Delimit is between each Frame as a stop.

The contents of LINK requesting DATA and LINK form DATA are different depending on each operation.

7. Pulse Dial

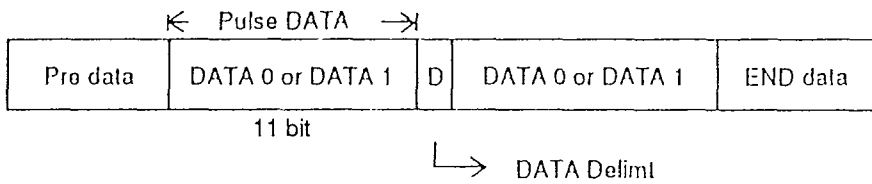


Fig. 19

When executing Pulse Dial, the Pulse Dial DATA is transmitted from the Portable Handset to the Base Unit in above format. The combination of DATA 0 and DATA 1 are changed by each Dial No. And the DATA Delimit is between each Frame as a stop. The number of Frame is 2.

8. Tone Dial

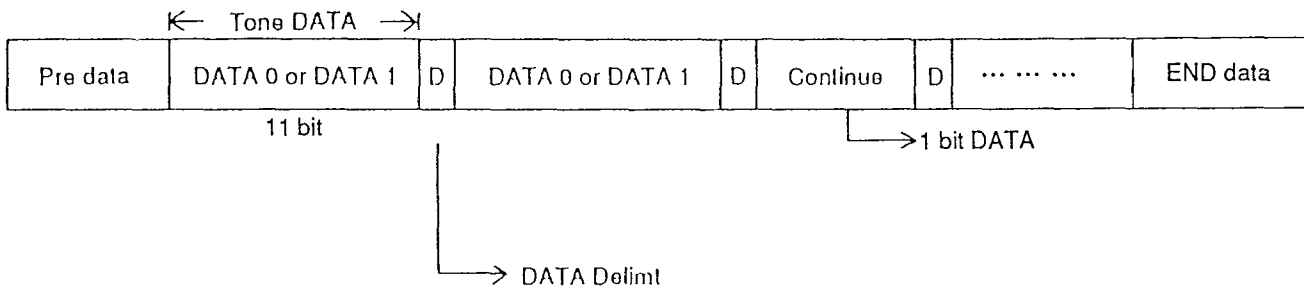


Fig. 20

When executing Tone Dial, Tone Dial DATA is transmitted from the Portable Handset to the Base Unit in above format. The DATA is changed by Dial No. as same as Pulse Dial. When Tone Dialing, DATA (Continue DATA) that the key is pressed continuously is sent to the Base Unit during the key is pressed. When depressing the key, the TONE Dial exterminating DATA (Tone end DATA) is sent, and the END data is sent finally.

NOTE

60,000 kinds of the security code are available for the model KX-T3846E/KX-T3856E. Each time the portable unit is set on the cradle of the base unit (for charging), the CPU automatically change the security code.

# ADJUSTMENTS (KX-T3846EH/KX-T3856EH)

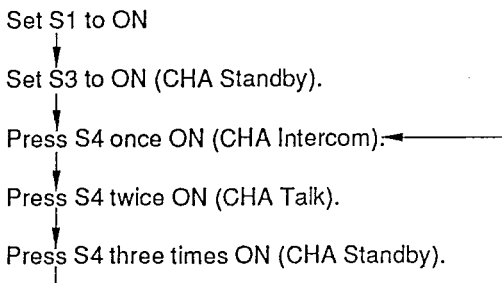
## Purpose of Adjustment

Symptom	Remedy
The transmit output is low, and the arrival distance is shorted between base unit and portable handset.	Adjust the adjustment item (1).
The transmit frequency is slipped.	Adjust the adjustment item (2).
The sound volume of reception is low.	Adjust the adjustment item (3).
The sound volume of sending is low.	Adjust the adjustment item (4).
The reception sensitivity of base unit is wrong, the noise is occurred.	Adjust the adjustment item (5).

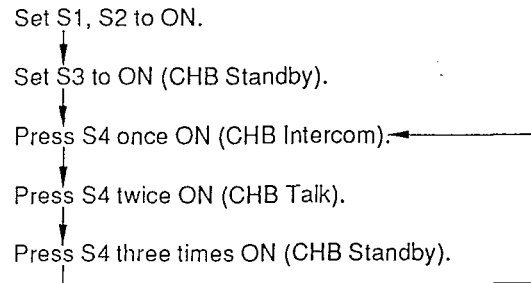
### Unit Condition:

When doing these adjustments, remove the wire aerial of Base Unit. After adjusting, re-soldering the wire aerial.

#### Procedure for CHA Test mode:



#### Procedure for CHB Test mode:



When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Points	Procedure
(1) T4, L9, Q29	Transmit Output Adjustment	CHA Talk	T4, L9	<ul style="list-style-type: none"> <li>● Set S8 to wire aerial side.</li> <li>● Set the unit to CHA Talk test mode.</li> <li>● Adjust T4→L9→T4→L9 (in that order) for maximum output on spectrum analyzer.</li> </ul>
(2) L9, X4, X5, L4, L5	Frequency Adjustment	CHA Talk CHB Talk	L5 L4	<ul style="list-style-type: none"> <li>● Set S8 to Frequency Counter side. Set S13 to ON.</li> <li>● Set the unit to CHA Talk test mode.</li> <li>● Adjust L5 so that the reading of the Frequency Counter is that of the CHA target frequency ±200 Hz. (Target frequency... Refer to page 22)</li> <li>● Set the unit to CHB Talk test mode.</li> <li>● Adjust L4 so that the reading of the Frequency Counter is that of the CHB target frequency ±200 Hz.</li> </ul>

When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Points	Procedure
(3) VR2, VR3	Modulation Adjustment	CHA Talk  CHB Talk	VR2  VR3	<ul style="list-style-type: none"> <li>Set the unit to CHA Talk test mode.</li> <li>Set S8 to FM Deviation Meter Side. Set S7, S14 to ON.</li> <li>Apply a signal (f=1 kHz, -18 dBm at 600Ω termination) by AF OSC.</li> <li>Adjust VR2 so that the reading of the FM Deviation Meter is 2.20±0.10 kHz.</li> <li>Set the unit to CHB Talk test mode.</li> <li>Apply a signal (f=1 kHz, -18 dBm at 600Ω termination) by AF OSC.</li> <li>Adjust VR3 so that the reading of the FM Deviation Meter is 2.20±0.10 kHz.</li> </ul>
(4) VR1, Q19	Tel Line Transmit Level Adjustment	CHA Talk	VR1	<ul style="list-style-type: none"> <li>Set S6 to ON.</li> <li>Set the unit to CHA Talk test mode.</li> <li>Adjust VR1 so that the reading of the AF VTVM output is -2.0 dBm ±0.5 dBm.</li> </ul>
(5) T1, T2, T3, L3	Receiver Sensitivity Adjustment	CHA Talk	T1, T2, T3  L3	<ul style="list-style-type: none"> <li>Set the unit to CHA Talk test mode.</li> <li>Set S5 to ON.</li> <li>Apply a 46 dBμV output from S.S.G. (modulation frequency 1 kHz, dev. 1.5 kHz/devi).</li> <li>Adjust T1→T2→T3 (in that order) so that output maximum at IC1 pin 5 (at RF VTVM).</li> <li>Set S6 to ON.</li> <li>Apply a 60 dBμV (modulation frequency 1 kHz, dev. 1.5 kHz/devi).</li> <li>Adjust L3 so that the Tel Line output is maximum (at AF VTVM).</li> </ul>

**Frequency Combination**

	CHA	CHB	CHA	CHB
Frequency division label	X1	X2	X4	X5
3,5	36.78125	36.80625	1.682	1.722
4,6	36.79375	36.81875	1.702	1.742

**Frequency Table (MHz)**

	Receive		Transmit
	Local Frequency	Target Frequency	Target Frequency
CH3	36.78125	47.48125	1.682
CH4	36.79375	47.49375	1.702
CH5	36.80625	47.50625	1.722
CH6	36.81875	47.51875	1.742

Flow Solder Side View

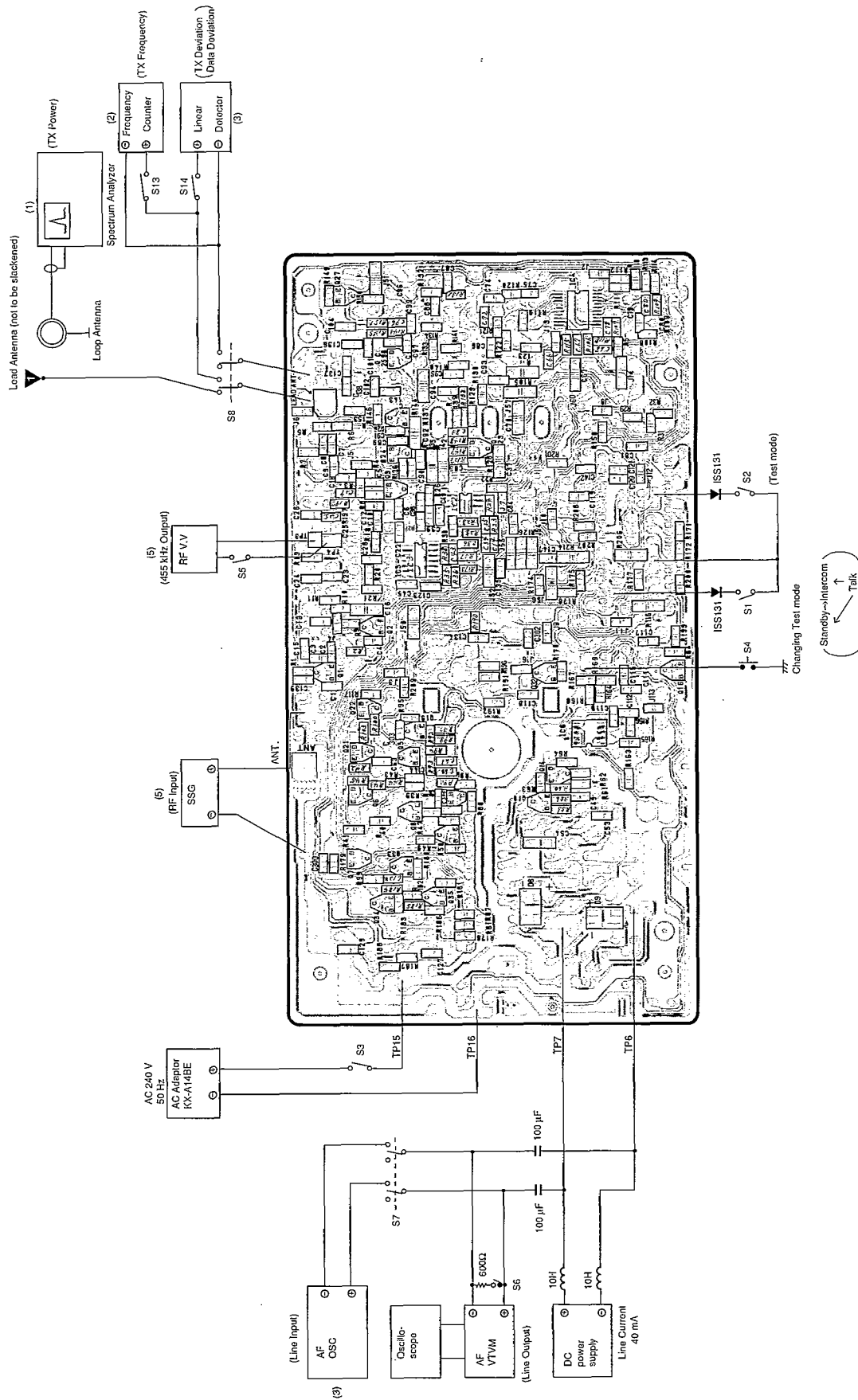


Fig. 21

MEMO

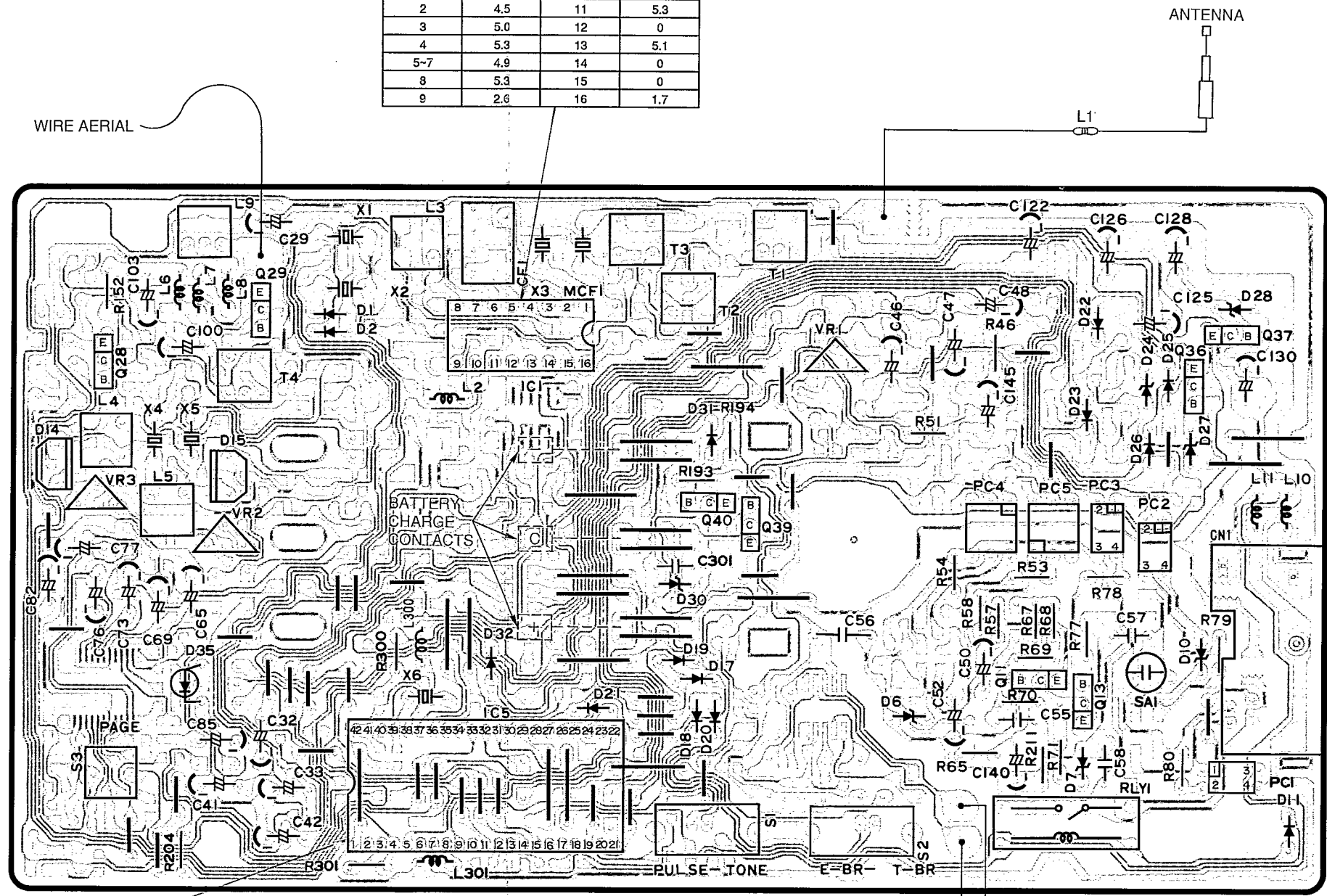


CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T3846EH)

1 2 3 4 5 6 7 8 9 10 11 12

(Component View)

IC1			
Pin	Voltage	Pin	Voltage
1	5.3	10	0
2	4.5	11	5.3
3	5.0	12	0
4	5.3	13	5.1
5-7	4.9	14	0
8	5.3	15	0
9	2.6	16	1.7

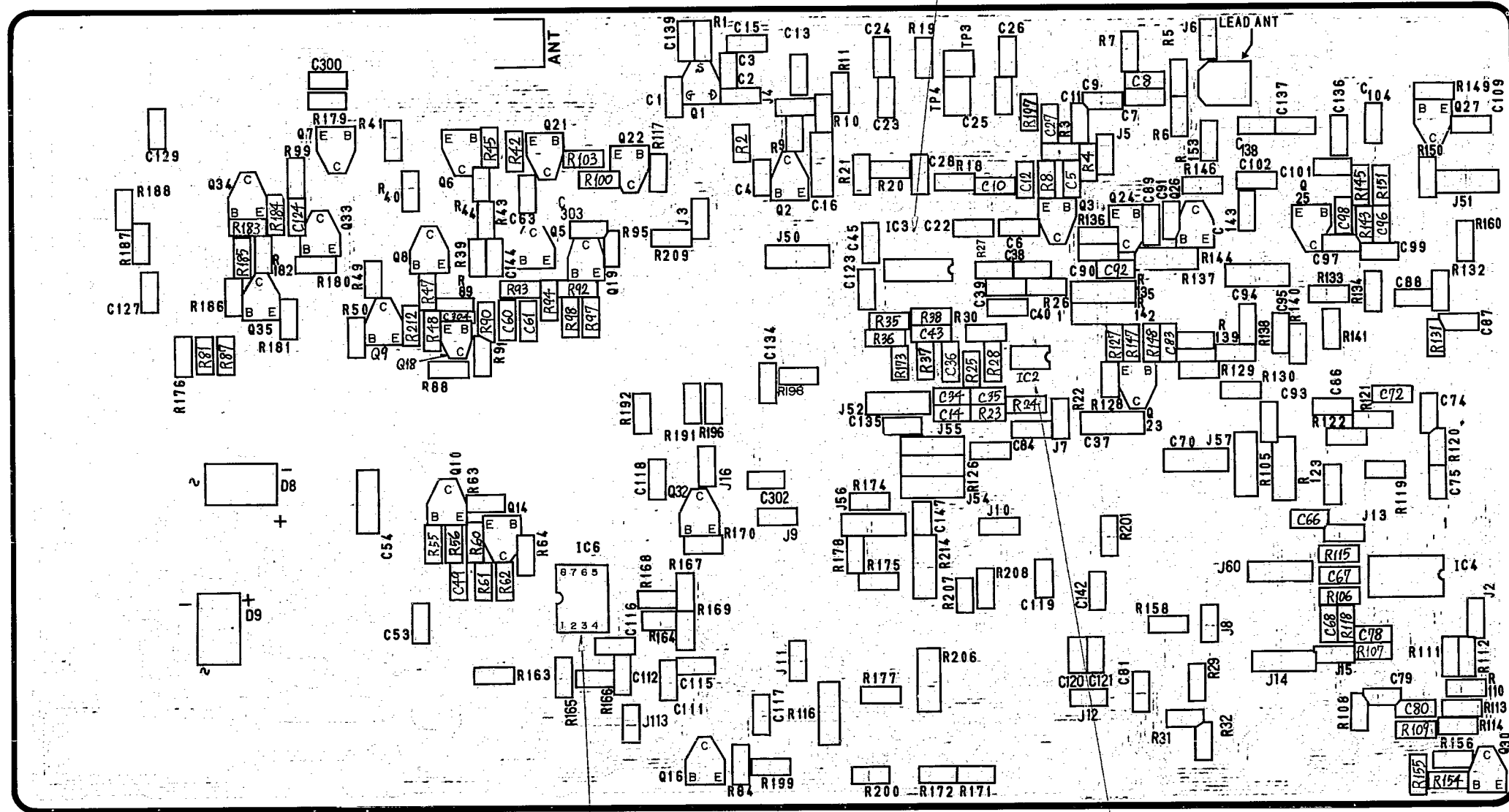


IC5			
Pin	Voltage	Pin	Voltage
1-3	0	29	6.3
4	0.6	30	5.3
5-10	0	31	0
11	3.3	32	5.3
12	0	33	5.1
13	0	34	0.6
14	5.3	35	2.1
15-17	0	36	0
18	3.3	37	0
19	5.3	38	2.2
20	0	39	2.5
21	0	40-42	5.3
22-28	5.3		

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T3846EH)

(Flow Solder Side View)

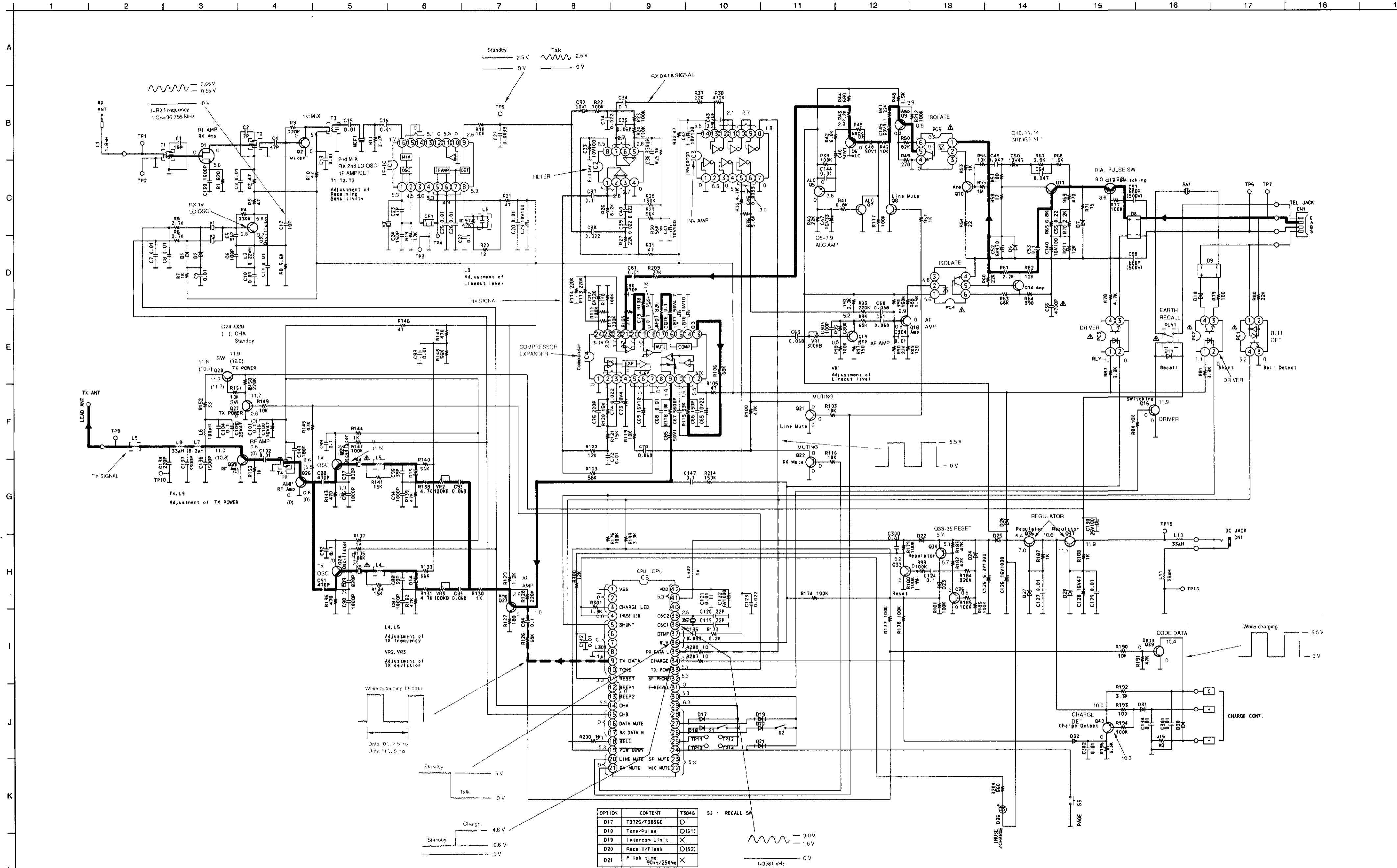
IC3			
Pin	Voltage	Pin	Voltage
1	0	8	1.80
2	5.5	9	2.7
3	0.0	10	2.7
4	5.5	11	2.1
5	3.0	12	2.1
6	3.0	13	3.0
7	0	14	5.5



IC6			
Pin	Voltage	Pin	Voltage
1	4.8	6	10.4
2	4.7	7	0
3-5	4.5	8	4.5

IC2			
Pin	Voltage	Pin	Voltage
1	2.8	5	2.6
2	2.8	6	2.7
3	2.7	7	2.7
4	0	8	5.5

# SCHEMATIC DIAGRAM (KX-T3846EH)



OPTION	CONTENT	T3846
D17	T3726/T3856E	○
D18	Tone/Pulse	○/S11
D19	Intercom Limit	×
D20	Recall/Flash	○/S2
D21	Flash Time 90ms/250ms	×

**Notes:**  
 1. S1: Page/Intercom Switch  
 2. S2: Recall Selector Switch  
 3. S3: Dialing Mode Selector Switch

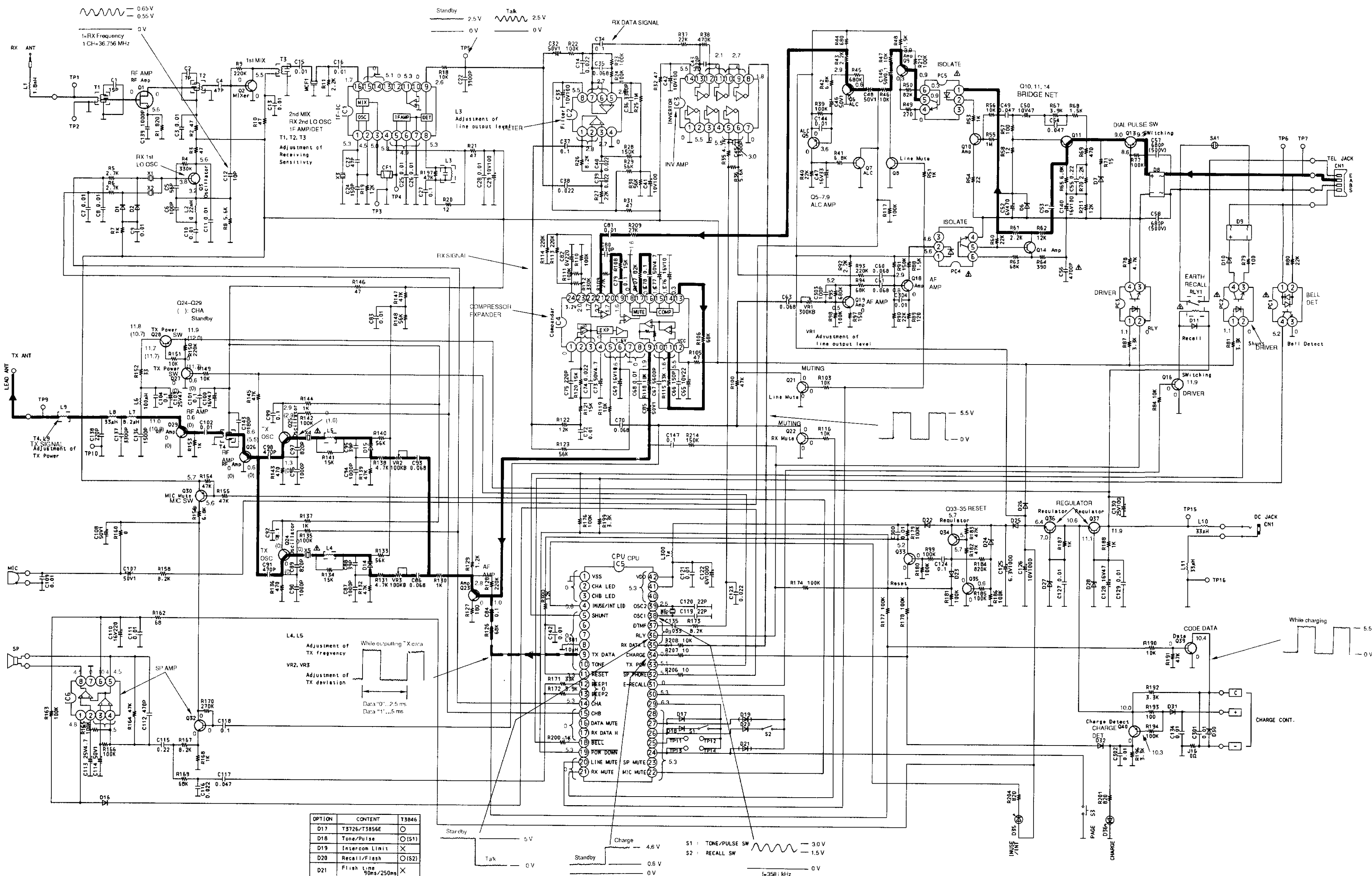
4. DC voltage measurements are taken with an electronic voltmeter from the negative voltage line.

**Definition of 0 V:**  
 0 V indicates in schematic diagram means 0 V-0.09 V measurement value.  
 The values of voltage without mode indication are measured in Talk mode of CHA.

**Important safety notice**  
 Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

**This schematic diagram may be modified at any time with development of new technology.**

# SCHEMATIC DIAGRAM (KX-T3856EH)



- Notes:**
- S1: Page Switch
  - S2: Recall Selector Switch
  - S3: Dialing Mode Selector Switch

4. DC voltage measurements are taken with an electronic voltmeter from the negative voltage line.

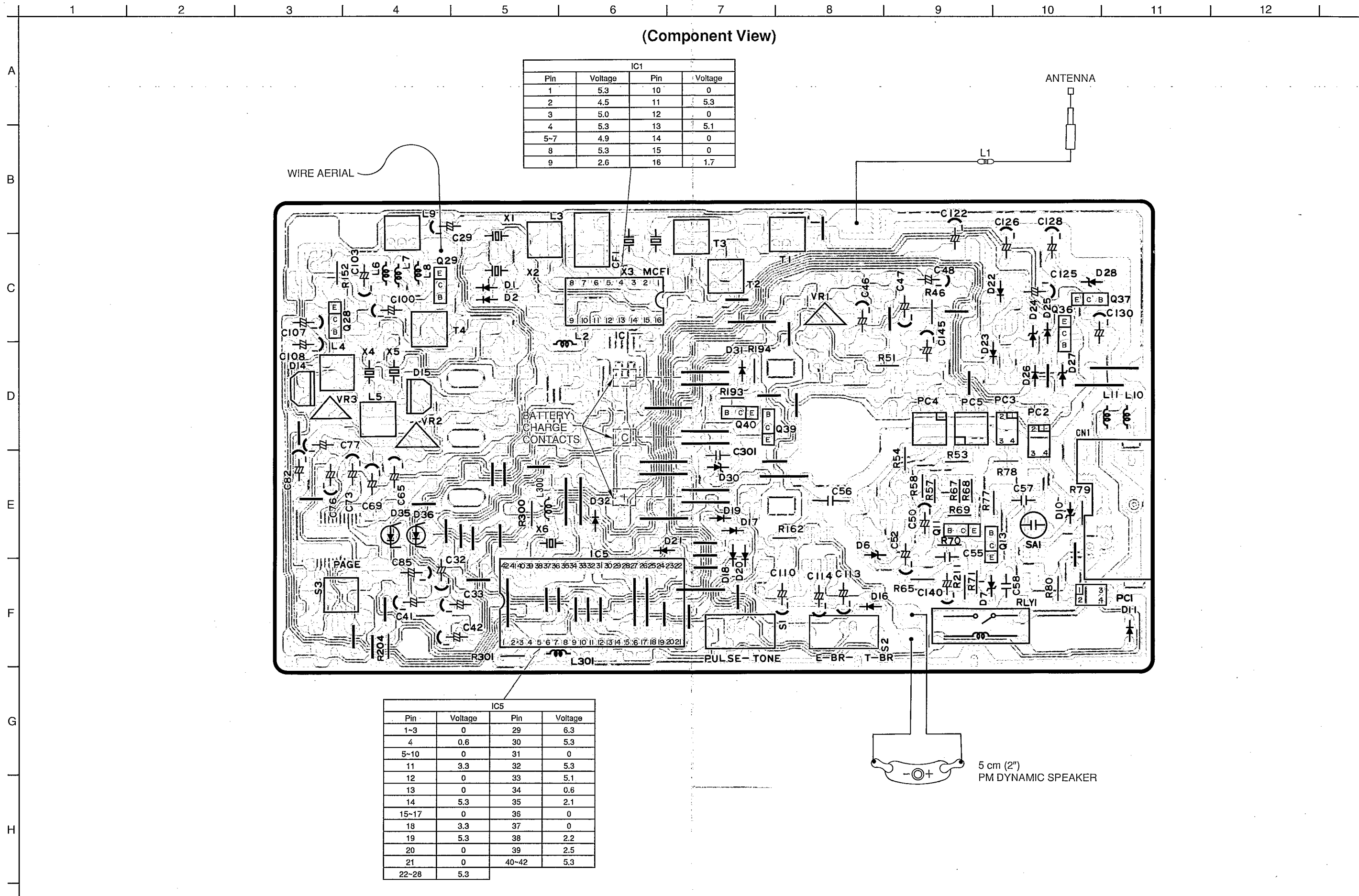
**Definition of 0 V:**  
0 V that indicates in schematic diagram means 0 V-0.09 V measurement value.

The values of voltage without mode indication are measured in Talk mode of CHA.

**Important safety notice**  
Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

**This schematic diagram may be modified at any time with development of new technology.**

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T3856EH)



(Component View)

IC1			
Pin	Voltage	Pin	Voltage
1	5.3	10	0
2	4.5	11	5.3
3	5.0	12	0
4	5.3	13	5.1
5-7	4.9	14	0
8	5.3	15	0
9	2.6	16	1.7

IC5			
Pin	Voltage	Pin	Voltage
1-3	0	29	6.3
4	0.6	30	5.3
5-10	0	31	0
11	3.3	32	5.3
12	0	33	5.1
13	0	34	0.6
14	5.3	35	2.1
15-17	0	36	0
18	3.3	37	0
19	5.3	38	2.2
20	0	39	2.5
21	0	40-42	5.3
22-28	5.3		

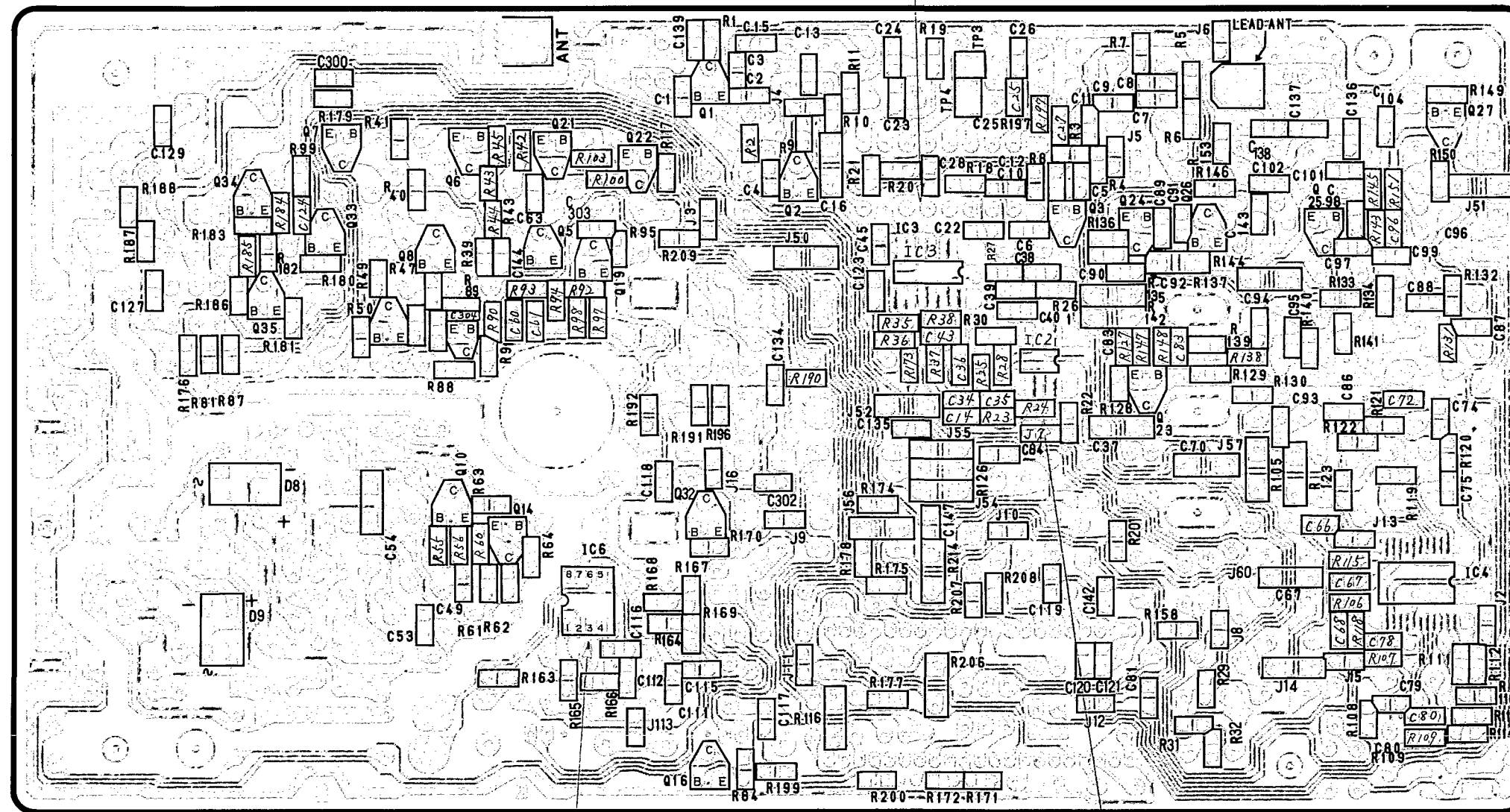
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T3856EH)

1 2 3 4 5 6 7 8 9 10 11 12

(Flow Solder Side View)

A  
B  
C  
D  
E  
F  
G  
H

IC3			
Pin	Voltage	Pin	Voltage
1	0	8	1.80
2	5.5	9	2.7
3	0.0	10	2.7
4	5.5	11	2.1
5	3.0	12	2.1
6	3.0	13	3.0
7	0	14	5.5

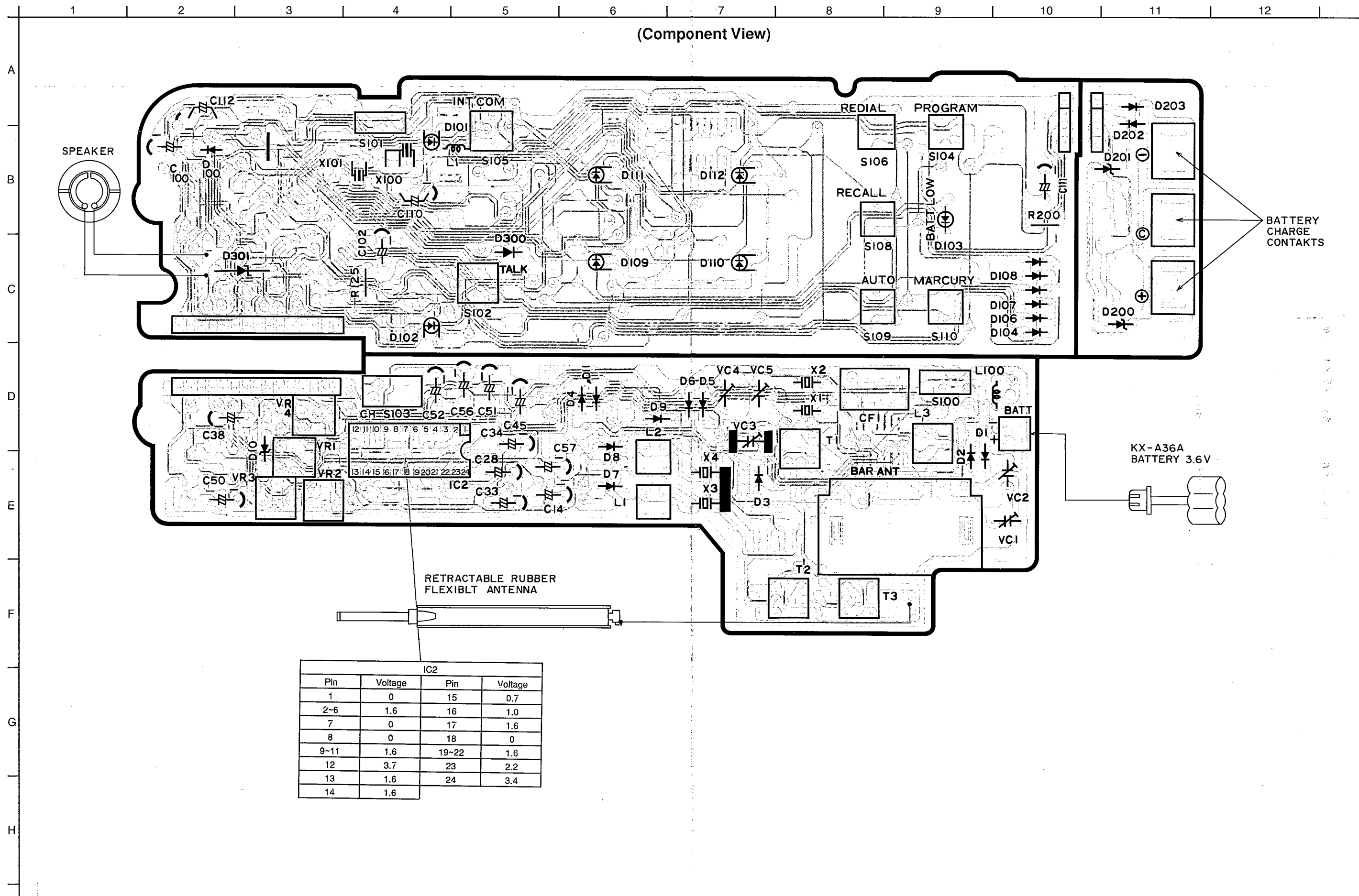


IC6			
Pin	Voltage	Pin	Voltage
1	4.8	6	10.4
2	4.7	7	0
3-5	4.5	8	4.5

IC2			
Pin	Voltage	Pin	Voltage
1	2.8	5	2.6
2	2.6	6	2.7
3	2.7	7	2.7
4	0	8	5.5

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T3846ER/KX-T3856ER)

(Component View)

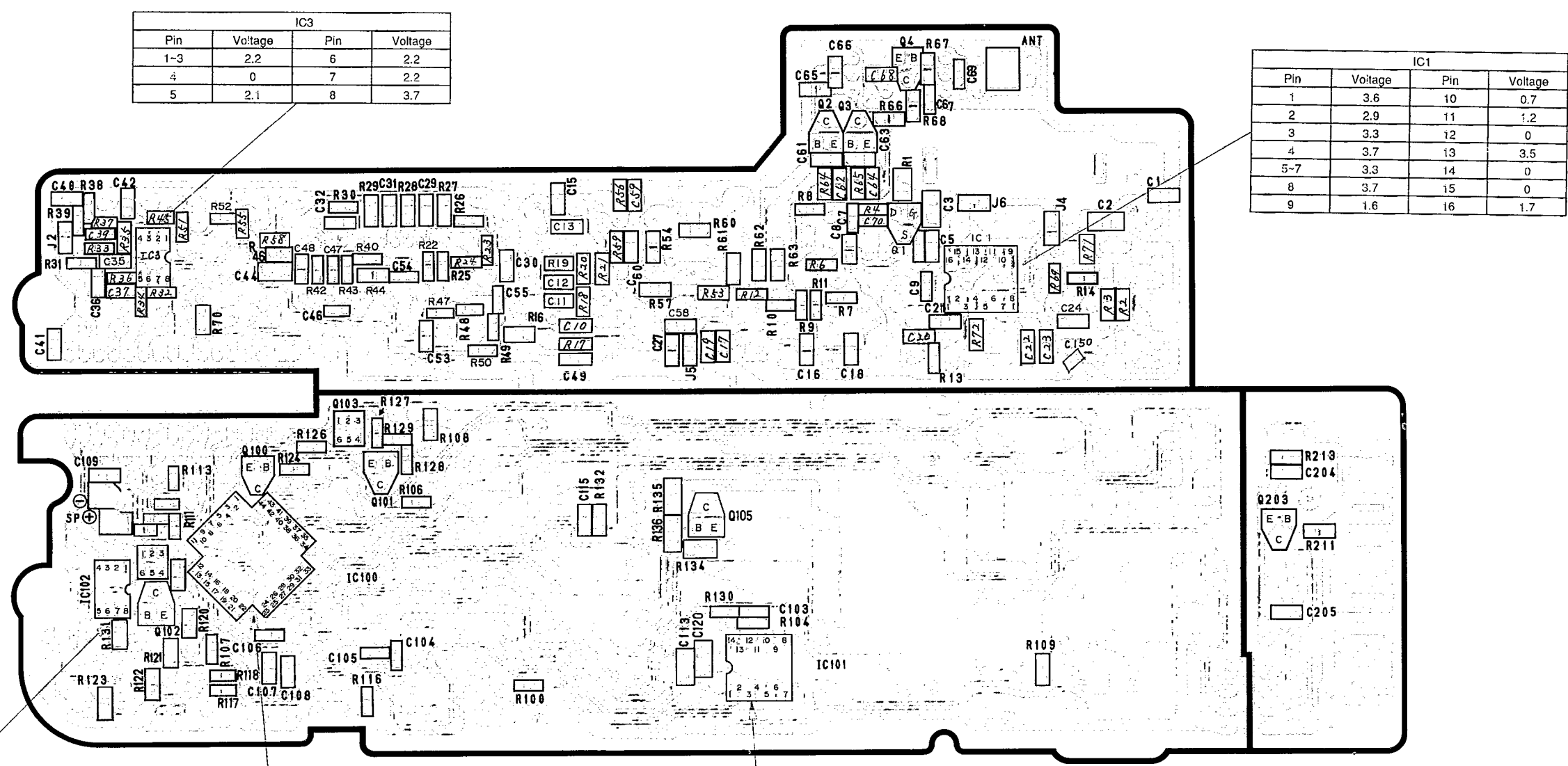


CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T3846ER/KX-T3856ER)

(Flow Solder Side View)

A  
B  
C  
D  
E  
F  
G  
H

1 2 3 4 5 6 7 8 9 10 11 12



IC3			
Pin	Voltage	Pin	Voltage
1-3	2.2	6	2.2
4	0	7	2.2
5	2.1	8	3.7

IC1			
Pin	Voltage	Pin	Voltage
1	3.6	10	0.7
2	2.9	11	1.2
3	3.3	12	0
4	3.7	13	3.5
5-7	3.3	14	0
8	3.7	15	0
9	1.6	16	1.7

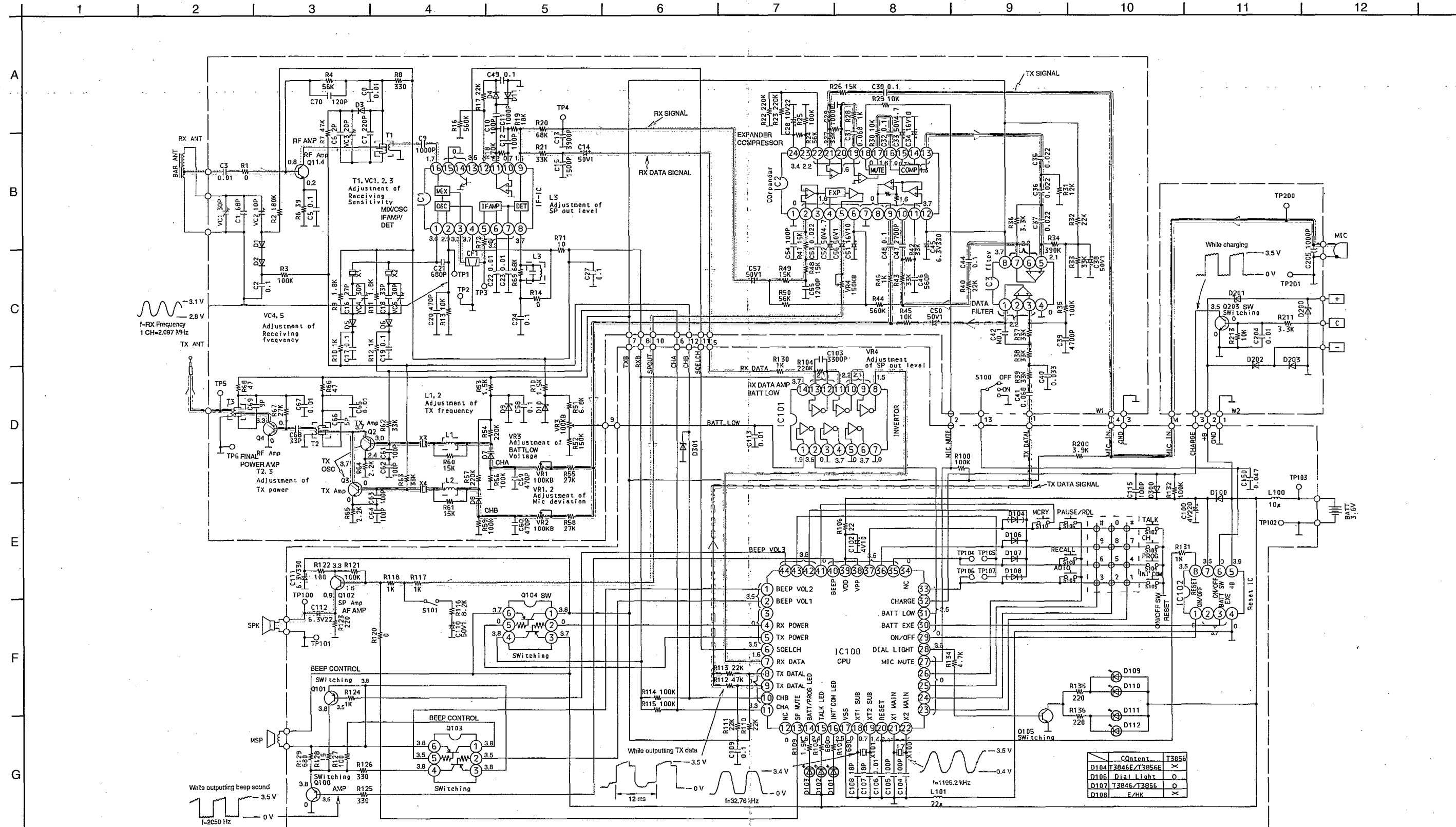
IC102			
Pin	Voltage	Pin	Voltage
1	0	5	3.9
2	3.7	6	0
3	3.7	7	3.6
4	0	8	3.5

IC100			
Pin	Voltage	Pin	Voltage
1	3.5	18	0.7
2	3.5	19	1.4
3-5	0	20	3.4
6	3.5	21	1.7
7	1.6	22	1.7
8-10	0	23-27	0
11	3.3	28	3.5
12	0	29	0
13	1.6	30-33	3.5
14	2.4	34	0
15	0	35-40	3.5
16	2.6	41	0
17	0.0	42-44	3.5

IC101			
Pin	Voltage	Pin	Voltage
1	1.9	8	1.5
2	3.5	9	2.1
3	0.0	10	2.1
4	3.7	11	2.2
5	0	12	2.1
6	3.7	13	2.1
7	0	14	3.7



**SCHEMATIC DIAGRAM (KX-T3846ER/KX-T3856ER)**



**Notes:**

- 1. S100: Power/Ringer Switch
- 2. S101: Volume Selector Switch
- 3. S102: Talk Switch
- 4. S103: Channel Switch
- 5. S104: Program Switch
- 6. S105: Intercom/Page Switch (KX-T3726E only)
- 7. S106: Pause Switch
- 8. S107: Redial Switch
- 9. S108: Recall Switch
- 10. S109: Auto Switch
- 11. S110: Mercury Switch
- 12. DC voltage measurements are taken with electronic voltmeter from negative voltage line.

**Definition of 0 V:**

0 V that indicates in schematic diagram means 0 V~0.09 V measurement value.

The values of voltage without mode indication are measured in Talk mode of CHA.

## ADJUSTMENTS (KX-T3846ER/KX-T3856ER)

### Purpose of Adjustment

Symptom	Remedy
The movement of Battery Low Indicator is wrong.	Adjust the adjustment item (1).
The transmit output is low, and the arrival distance is shorted between base unit and portable handset.	Adjust the adjustment items (2), (5).
The reception sensitivity of base unit is wrong, the noise is occurred.	Adjust the adjustment item (3).
The sound of volume of base unit is low. The reception of data is wrong.	Adjust the adjustment item (4).
The transmit frequency is slipped.	Adjust the adjustment item (6).

#### Unit Condition: (Adjustment 2-6)

Power Supply .....DC 3.9 V  
 SP Load .....Built-in speaker 130Ω  
 Power Switch ..... OFF  
 Volume Selector Switch .....HIGH

When doing these adjustments, remove the wire aerial of portable handset. After adjusting, re-solder the wire aerial.

#### Procedure for CHA Test mode:

Set S1 to ON  
 ↓  
 Set power switch to ON (CHA Standby).  
 ↓  
 Press the talk switch (CHA Talk).

#### Procedure for CHB Test mode:

Set S1, S2 to ON.  
 ↓  
 Set power switch to ON (CHA Standby).  
 ↓  
 Press the talk switch (CHA Talk).  
 ↓  
 Press the CH switch (CHB Talk).  
 ↓  
 Press the CH switch (CHA Talk).

When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Points	Procedure
(1) VR3	Battery Low Adjustment	CHA Talk	VR3	<ul style="list-style-type: none"> <li>Set the DC power supply to 3.57 V.</li> <li>Set the unit to CHA Talk test mode.</li> <li>Adjust VR3 so that the reading of oscilloscope is 1.5 V±0.1 V.</li> </ul>
(2) X1, X2, VC4	Receive Local Frequency Adjustment	CHA Talk CHB Talk	VC4	<ul style="list-style-type: none"> <li>Set the unit to CHA Talk test mode.</li> <li>Adjust VC4 for the local frequency of X1 (f±200 Hz).</li> <li>Press CH switch. (The unit becomes CHB Talk.)</li> <li>Adjust VC5 for the local frequency of X2 (f±200 Hz).</li> <li>* Local frequency...Refer to page 46.</li> </ul>

When replcaing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Points	Procedure
(3) VC1, T1, VC2, VC3, IC1	Receive Sensitivity Adjustment	CHB Talk CHA Talk	VC1, T1 VC2, VC3	<ul style="list-style-type: none"> <li>Set the unit to CHB Talk test mode.</li> <li>Set S3 to ON.</li> <li>Set the S.S.G. to receiver frequency of CHB.</li> <li>Set the S.S.G. output level to 50 dBμ (modulation frequency 1 kHz, modulation factor 2.4 kHz/devi).</li> <li>Adjust VC1→T1→VC1 (in that order) for maximum output RF VTVM I at IC1 Pin 5.</li> <li>Press CH switch (The unit becomes CHA Talk). Set the S.S.G. to receiver frequency of CHA.</li> <li>Adjust VC2→VC3→VC2 (in that order) for maximum output RF VTVM II at IC1 Pin 5.</li> </ul>
(4) L3, L4	Speaker Output Adjustment	CHA Talk	L3 L4	<ul style="list-style-type: none"> <li>Set the unit to CHA Talk test mode.</li> <li>Set S8 to ON.</li> <li>Set the S.S.G. to receiver frequency of CHA.</li> <li>Set the S.S.G. output level to 60 dBμ (modulation frequency 1 kHz, modulation factor 2.4 kHz/devi).</li> <li>Adjust L3 for maximum output on AF VTVM.</li> <li>Adjust L4 for maximum output on AF VTVM.</li> </ul>
(5) T2, T3	Transmit Output Adjustment	CHA Talk	T2, T3	<ul style="list-style-type: none"> <li>Set the unit to CHA Talk test mode.</li> <li>Set S4 to ON.</li> <li>Adjust T2, T3 (in that order) for maximum output on RF VTVM II.</li> </ul>
(6) L1, L2	Transmit Frequency Adjustment	CHA Talk CHB Talk	L1 L2	<ul style="list-style-type: none"> <li>Set the unit to CHA Talk test mode.</li> <li>Set S5 to ON.</li> <li>Adjust L1 so that the reading of the frequency counter is that of CHA frequency ±200 Hz.</li> <li>Press CH switch (The unit becomes CHB talk).</li> <li>Adjust L2 so that the reading of the frequency counter is that of CHB frequency ±200 Hz.</li> </ul>

Frequency Table (MHz)

CH	Transmit		Receive	
	Local Frequency	TX Frequency	S.S.G. Frequency	Local Frequency
3	15.82708	47.48125	1.682	2.137
4	15.83125	47.49375	1.702	2.157
5	15.83541	47.50625	1.722	2.177
6	15.83958	47.51875	1.742	2.197

Frequency Combination

Frequency division label	CHA	CHB	CHA	CHB
	X3	X4	X1	X2
3,5	17.82708	15.83541	2.137	2.177
4,6	15.83125	15.83958	2.157	2.197

Flow Solder Side View

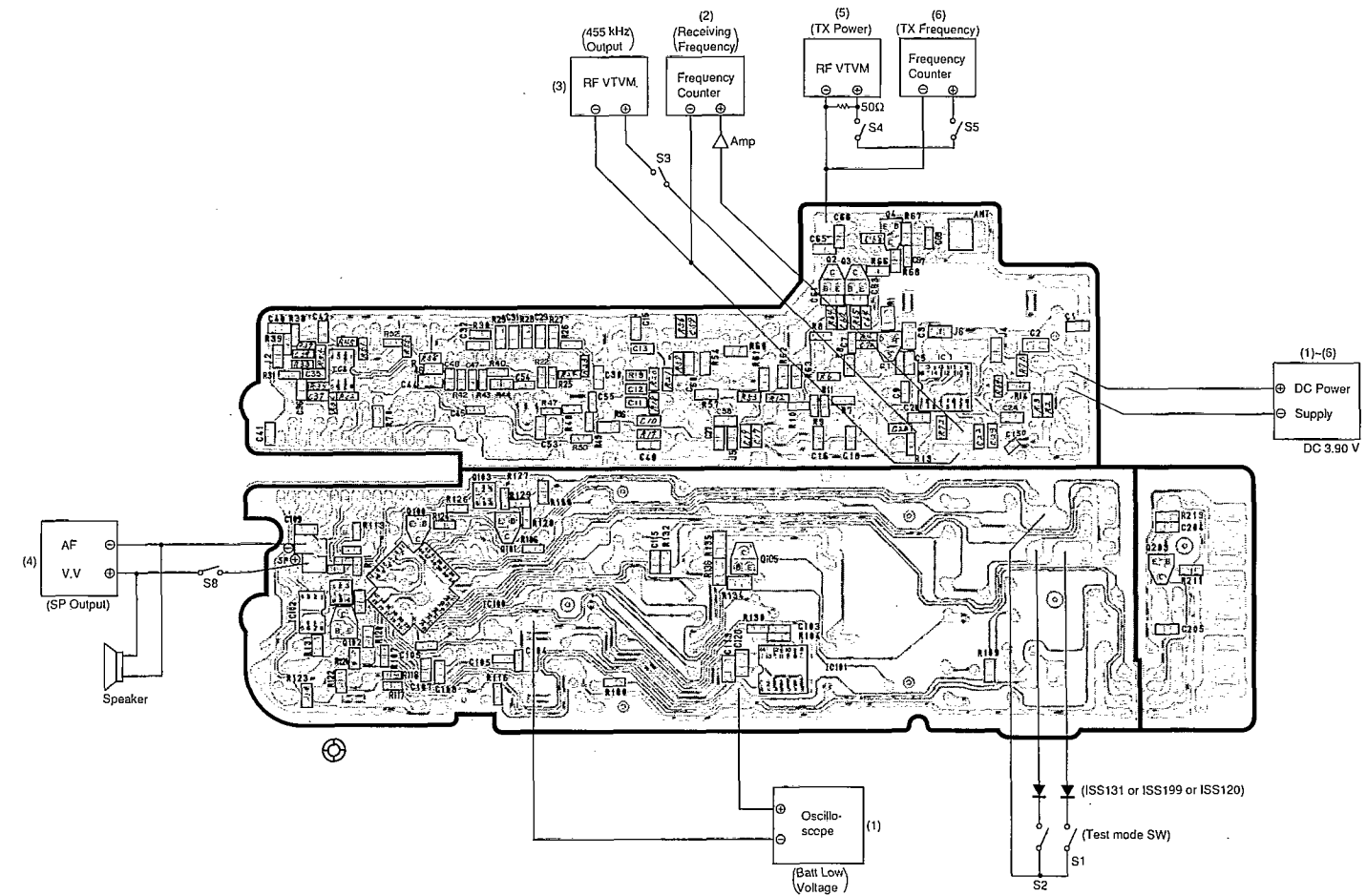


Fig. 22

# BLOCK DIAGRAM (KX-T3846EH/KX-T3856EH)

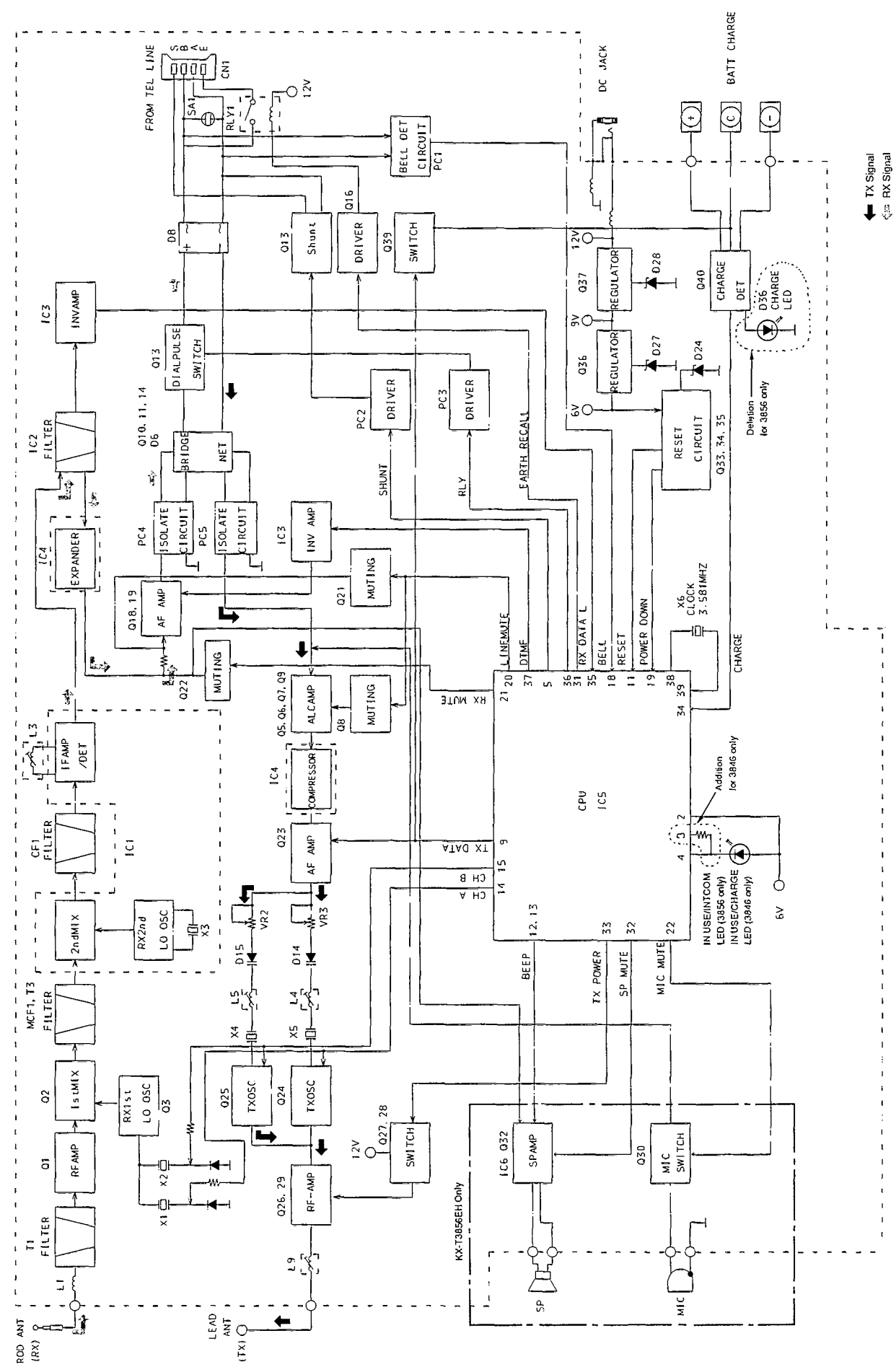


Fig. 23

## CIRCUIT OPERATION (KX-T3846EH/KX-T3856EH)

### TELEPHONE MODE OPERATION

When a ring signal enters from the Line

- 1) The ring detection circuit, i.e., the photocoupler PC1, begins to operate and its output is inputted to Pin 18 of IC5 (CPU).
- 2) To obtain a display synchronized with the ring signal, an IN USE signal is outputted from Pin 4 of IC5 and the IN USE LED (D35) flashes.
- 3) To show the arrival of the ring signal to the portable handset, Pin 33 of IC4 enters into the transmission mode thus becoming a High and the ring signal data having the code set by Pin 9 of IC5 is sent to portable handset as a modulated output signal.
- 4) Upon receiving the ring signal data, when the portable handset is switched from standby to the talk mode, the base unit receives a carrier modulated by the data indicating the switch from standby to talk. This data is then demodulated at the base unit. This signal is then inputted to Pin 35 of IC5, via Pin 36 of IC5 which causes the circuit relay to release the muting, and enables talk.

Circuit-making from the portable handset

- 1) When the operator of the portable handset switches from STANDBY to TALK, data enters into the base unit, this data is then demodulated by the base unit and passed through the data amp of IC2 and enters Pin 35 of IC5.
- 2) When the codes coincide, Pin 21 of IC5 becomes a "Low". At this time the transmission condition is reached and the muting is cancelled and the transistor relay Q13 is closed.
- 3) Further, an IN USE signal is sent out from Pin 4 of IC5, thus dimly lighting the IN USE LED (D35).

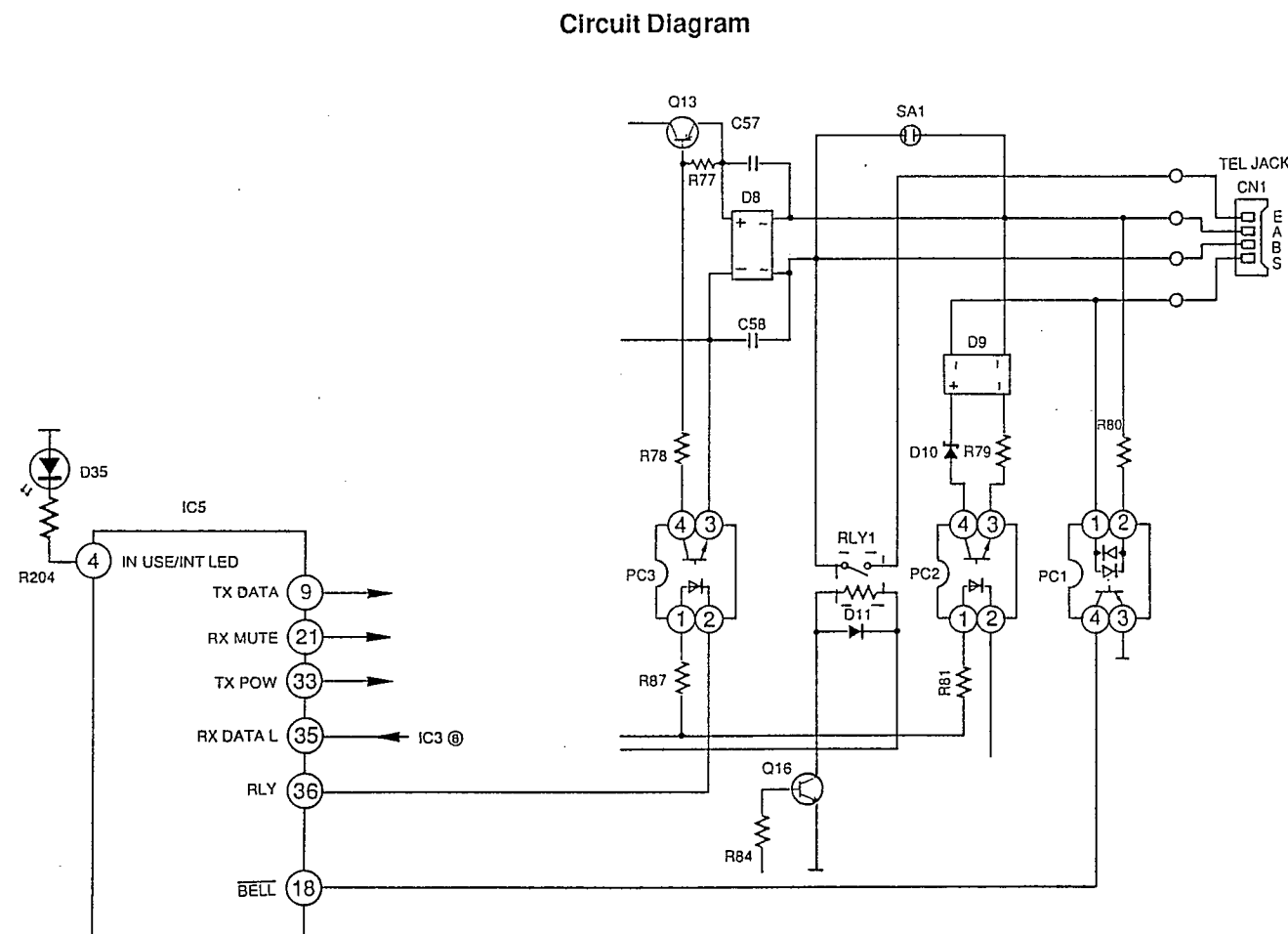


Fig. 24

### INTERCOM MODE (KX-T3856EH ONLY)

1. When the base unit Page/Intercom button is pressed, a call monitor signal of [1.95 kHz] (intercom sound) is outputted from pin 12, 13 of IC5 (CPU). If the Page/Intercom button is turned off, this condition keeps until it is pressed again.
2. At the same time, pin 33 of IC5 goes High, transmission power is supplied, the transmission mode is entered, and modulation is effected by the all data output from Pin 9 of IC5. An INTERCOM LED signal is output from Pin 4 of IC5 and the INTERCOM LED flashes.
3. When the portable handset receives this electromagnetic wave in the standby mode, the magnetic speaker sounds off to indicate that a page signal has arrived from the base unit. When the base unit is in the standby mode (the call button is released), the electromagnetic wave from the portable handset is received by the reception unit and the modulated signal is passed through the data processing IC3, to the input of Pin 35 of IC5 (CPU). If the signal is recognized by the CPU IC5, a call signal is outputted from Pins 12, 13 of IC5 becomes a "High".
4. When the operator of the portable handset switches stand-by to the talk mode, data to that effect enters the base unit and is inputted to Pin 35 of IC5 following the same route as paragraph 3 above. Pin 21 of IC5 becomes the low level to release the muting of the base unit. The output of Pin 4 of IC5 becomes the Low level to keep the INTERCOM LED lighted up. Then unit becomes the Intercom transmission mode.
5. When a ring signal arrives from the line during dialogue in the intercom mode of the above paragraph 4, a ring monitor signal is outputted from Pin 12, 13 of IC5 and a monitor signal is heard from the speaker. But the ring signal isn't sent to the portable handset.

### CHARGE MODE

1. When charging the portable handset on the base unit, current is supplied to the portable handset from the battery charge contacts via R193. During the charge mode the voltage of battery charge contacts (+) becomes approx. 5V, and Q40 turned on. Then voltage of Q40 collector becomes 9.4 V, voltage is cut by D32, and Pin 34 of IC5 will become "High", and the CHARGE LED (D36) lights up.
2. The base unit stops the transmission and does not output even a base call. However, when a ring signal arrives from the line, the ring signal enters IC5 (Pin 18), in turn a ring signal monitor is generated from Pin 12,13 of IC5 and is heard at the Speaker. But the base unit doesn't go into the transmission mode, and it doesn't output the ring data to the portable handset, and the magnetic speaker of the portable handset doesn't ring. However, the IN USE LED of the base unit lights up.

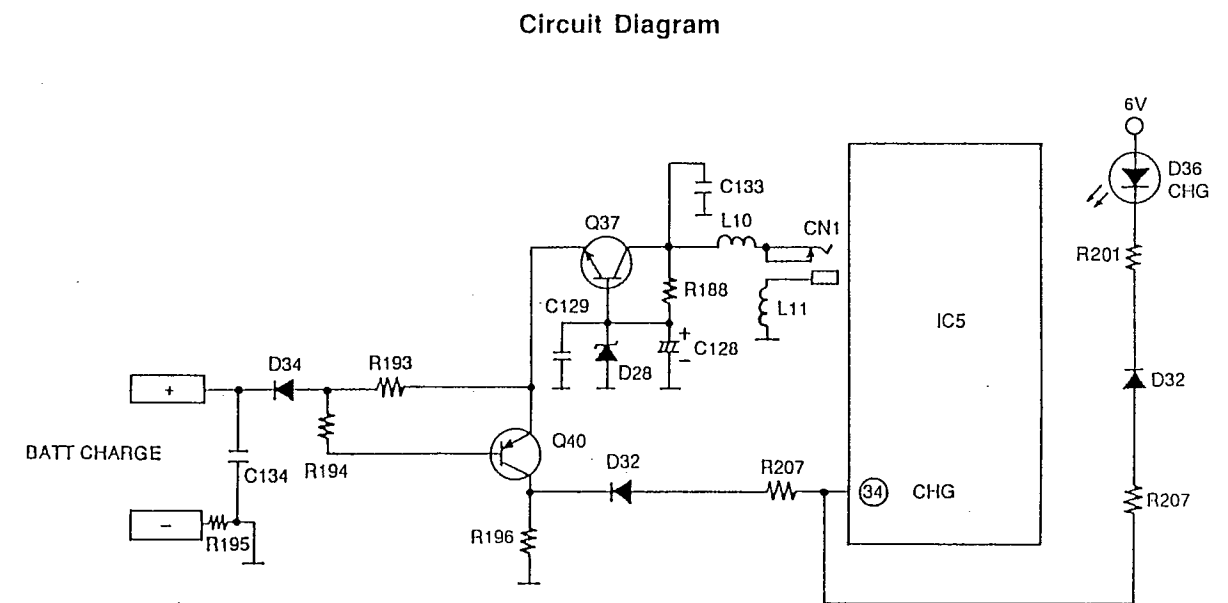


Fig. 25

■ CPU OPERATION

1. TIMING OF IC5 (CPU) OUTPUT PORT WITH THE BASE UNIT PAGE/INT' MODE.

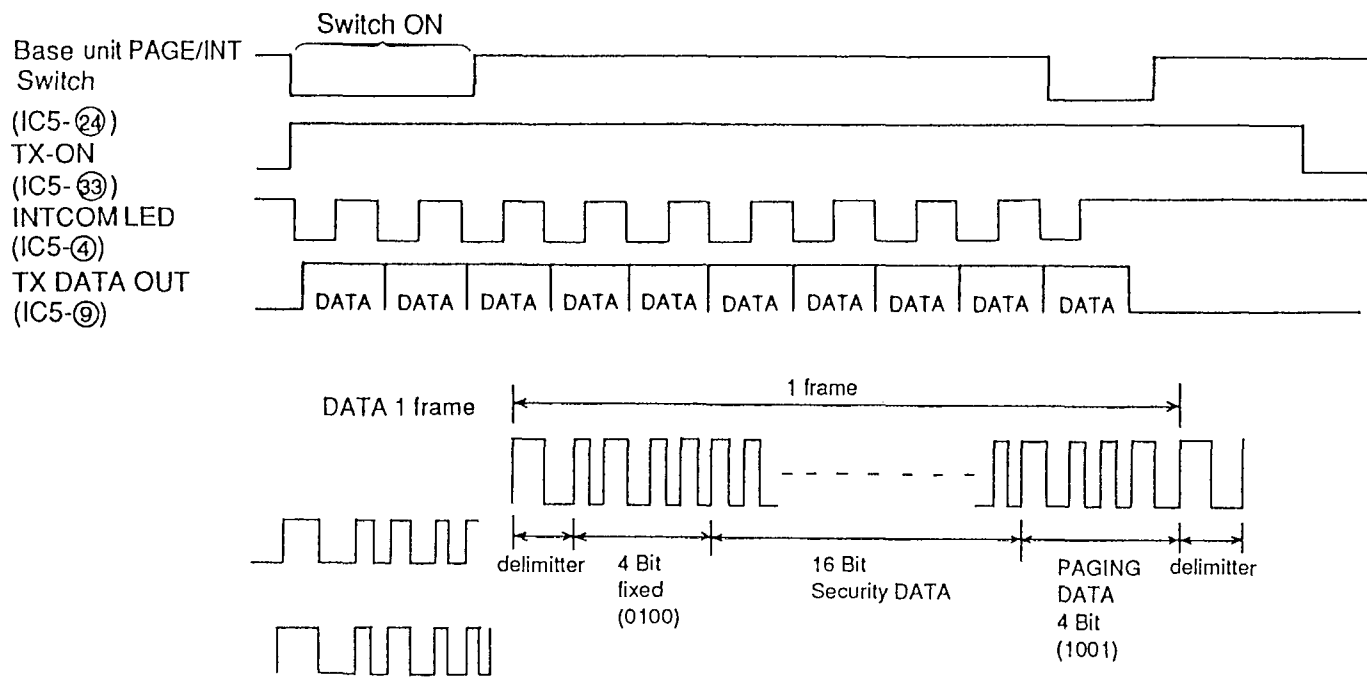


Fig. 26

2. WHEN CHANGING THE SETTING OF THE PORTABLE FROM STANDBY TO TALK. 3. WHEN CHANGING THE SETTING OF THE PORTABLE HANDSET FROM TALK TO STANDBY.

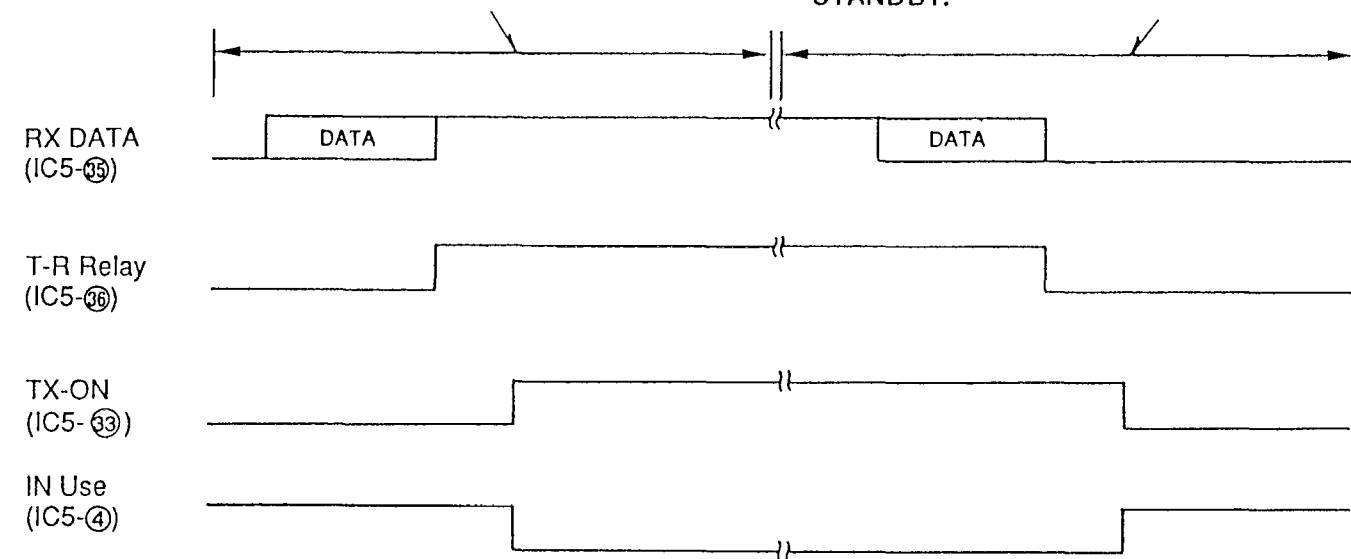


Fig. 27

4. RESONANCE PREVENTION CIRCUIT.

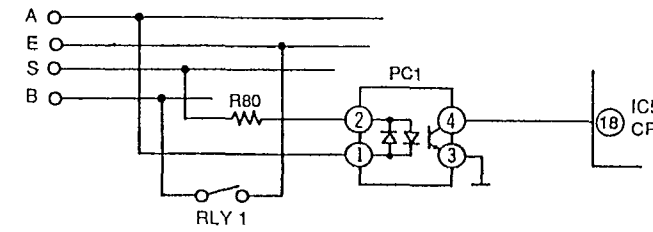


Fig. 28

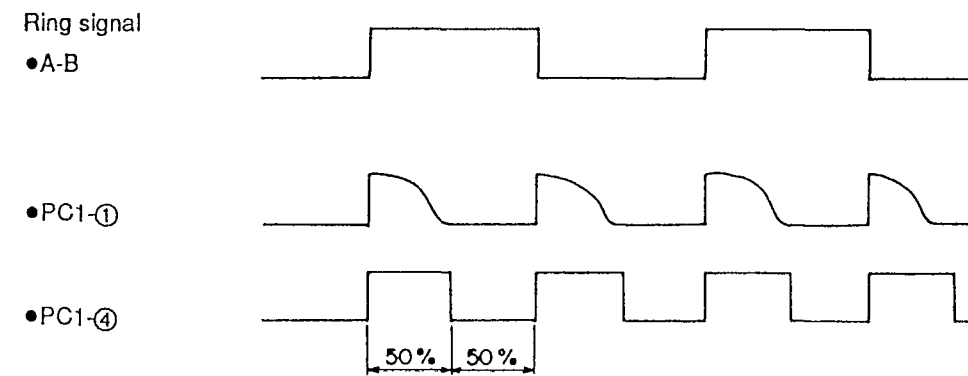
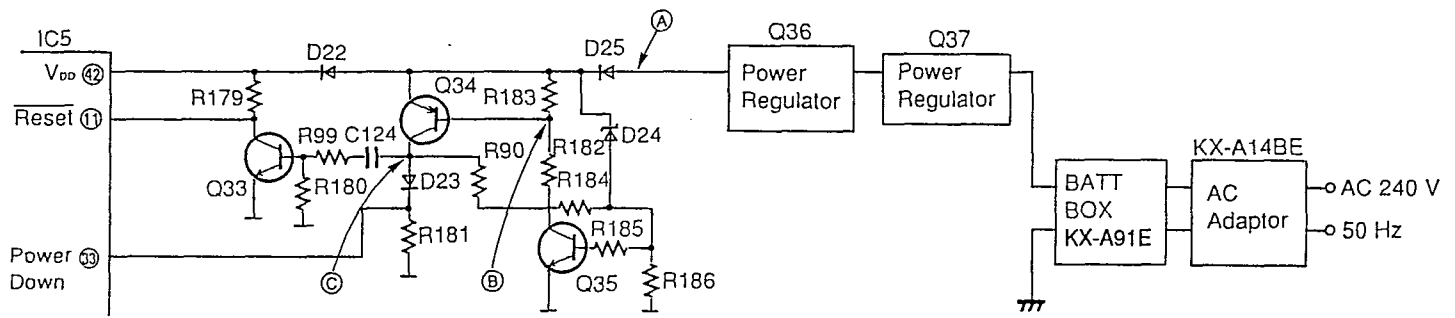


Fig. 29

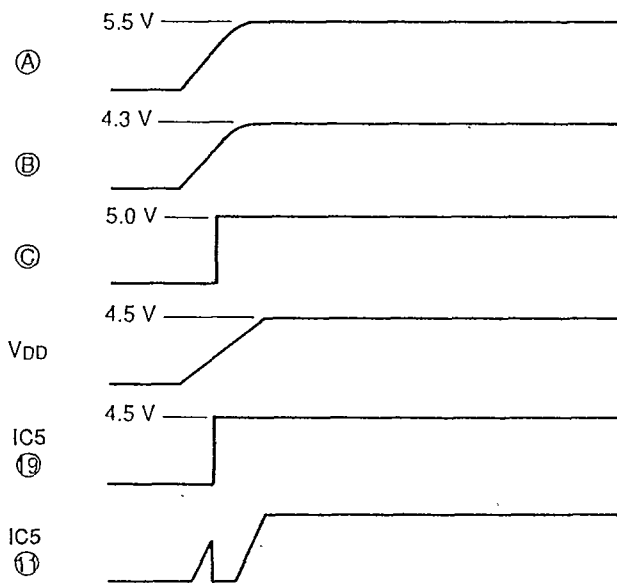
Make/break ratio when dialing with the Portable Handset: 40% : 60%  
 High/low ratio upon ring signal: 50% : 50%  
 Therefore, if the low/high ratio is greater than 45% at IC5-42 (CPU), it is judged as a ring signal. See Fig. 29.

5. INSTANTANEOUS SERVICE INTERRUPTION PROTECTION CIRCUIT

Circuit Diagram



When supplying power source.



When removing power source.

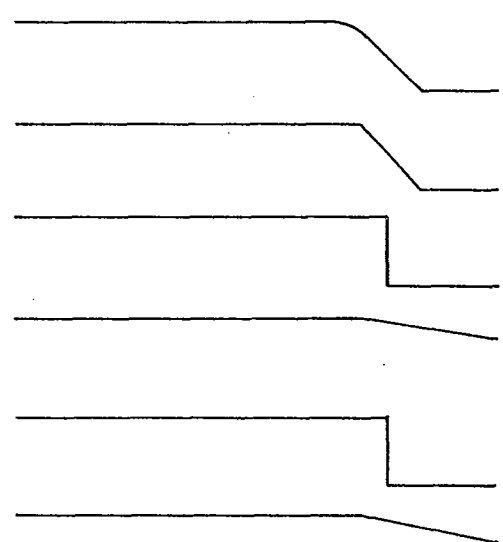
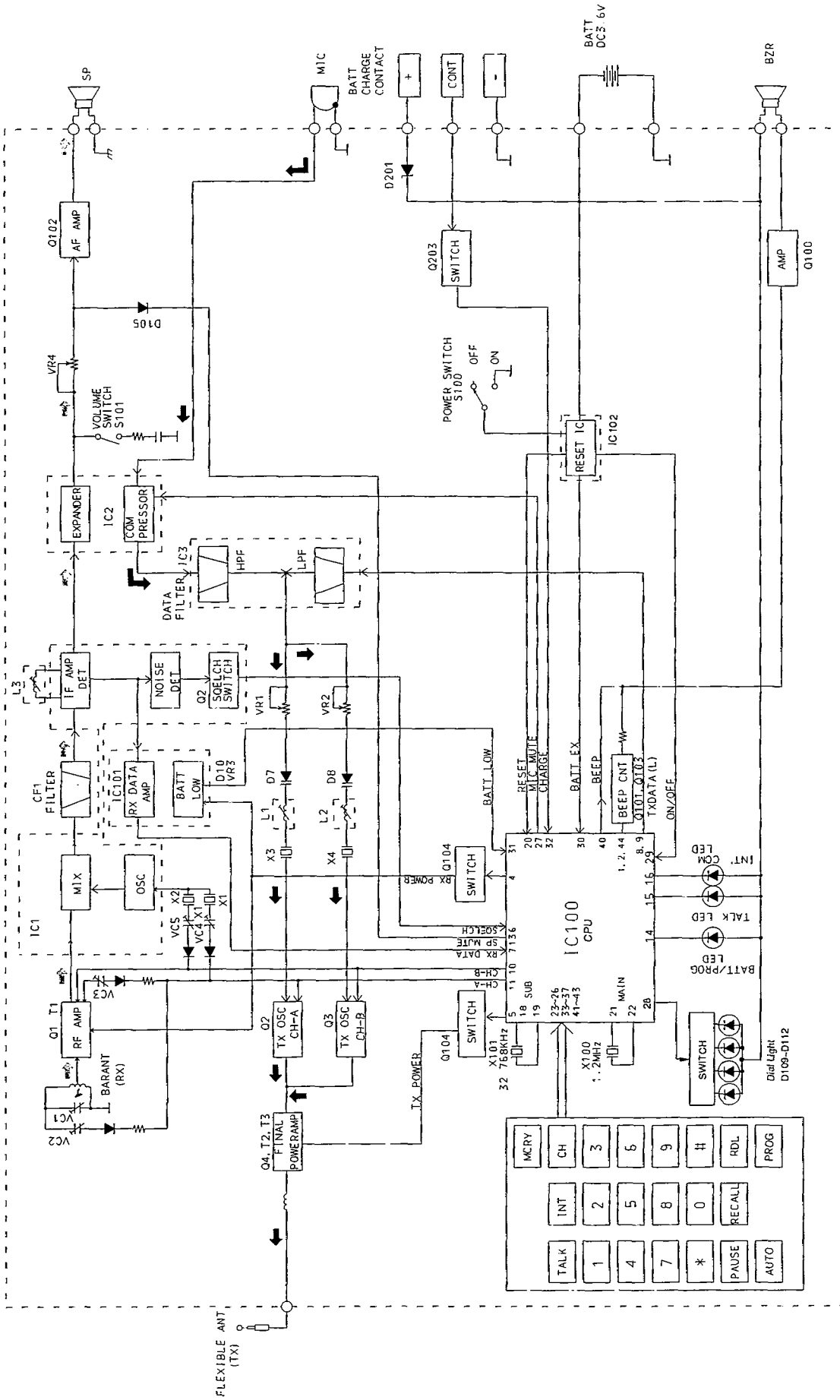


Fig. 30

# BLOCK DIAGRAM (KX-T3846ER/KX-T3856ER)



TX Signal  
 RX Signal

Only for the model KX-T3846: BATT/PROG LED → BATT LED  
 INT'COM LED → PROG LED

Fig. 31



## CIRCUIT OPERATION (KX-T3846ER/KX-T3856ER)

### ■ OPERATION IN THE STANDBY MODE

#### 1-1. Operation in the Standby position.

1. A call signal comes from the base unit.
2. A ring signal for incoming calls can be made from an outside caller.
3. A call signal can be sent to the base unit.

#### 1-2. Reception Operation

- a) A signal is received by the BAR antenna, and is amplified by the RF AMP (Q1), and mixed by IC1 to generate 455 kHz of the IF.  
This IF signal is amplified by IC1 and detected by L3 then applied to a waveform correction circuit.
- b) The data component of this signal is sent to Pin 37 of the CPU (IC100), where it is determined whether or not it matches the code.
- c) When the data matches, a signal is emitted from the magnetic speaker via Q100 and Pin 40 of IC100.  
A call signal and a ring signal will differ in tone.
- d) In this case, the AF output is muted by Pin 13 of IC100, therefore no signal will be heard from the speaker.

#### 1-3. Transmission Operation

Q104, controls the TX power supply, and is brought to the OFF condition by the CPU (IC100), in the OFF condition the TX part will not operate.

### ■ OPERATION IN THE TALK MODE

#### 2-1. Reception Operation

- a) Same as 1-2 a).
- b) The signal detected by IC1 is outputted from IC1 Pin 11.
- c) The detected signal is amplified by the power amplifiers (IC2 and Q102), and is removed a noise.
- d) During the talk mode the muting function is released, therefore a signal is outputted to the speaker.
- e) Further, during talking the input of the waveform correction circuit becomes a high from the TX power supply.

#### 2-2. Transmission Operation

- a) During the talk mode the CPU (IC100 Pin 5) becomes a low level, and Q104 turns on, thus the transmission stage enters into the operational state.
- b) The OSC circuit (Q3) oscillates at a frequency in the 39 MHz band. Power amplification is executed by the power amplifier Q4, and then transmission is made from the flexible antenna.
- c) During the talk mode, first the data code is outputted by the CPU (IC100 Pin 8, 9) and is then modulated, and is transmitted.
- d) During pulse dialing the dial pulse signal is outputted by the CPU (IC100 Pin 8, 9).  
This signal is modulated by the modulation unit and then transmitted.
- e) During pulse transmission, the talk indicator (green LED) will flash by the number dialed and outputted by the CPU (IC100 Pin 15).
- f) During tone dialing, the TONE DATA is outputted by the CPU (IC100 Pin 8, 9). This signal is modulated by the modulation unit and then transmitted.  
The base unit is received the tone data, and transmits from the tone generator of the CPU.

■ BATTERY LOW CIRCUIT

IC101 is a CMOS nand gate and has a stress volt level of approximately  $1/2 V_{DD}$ . A voltage of about 1.8 V is impressed to the gate input at Pin 1 by resistance splitting with R70 and VR3 from the Zener Diode D10 to form a constant stabilized voltage of about 2.1 V. When the power supply voltage is high (3.6 V or more), the gate input becomes  $V_{DD}/2 > 1.8 V$  and the output at Pin 2 will become "High". This is given as an input to Pin 31 of the CPU (IC100), thus Pin 2 of the CPU (IC100) will become "High", and no current will flow to the LED (D103). When the battery voltage drops to about 3.6 V or less,  $V_{DD}/2 < 1.8 V$  is obtained, the gate input at Pin 1 of IC101 will become "High", and the output at Pin 2 becomes "Low". This is given an input to Pin 31 of the CPU (IC100), and Pin 14 of the CPU (IC100) will become "Low". This causes current flow to D103 and the LED will light. The semifixed resistor VR3 is adjusted for the lighting level of the LED (D103), and the threshold voltage of IC101.

NOT USED      Circuit Diagram

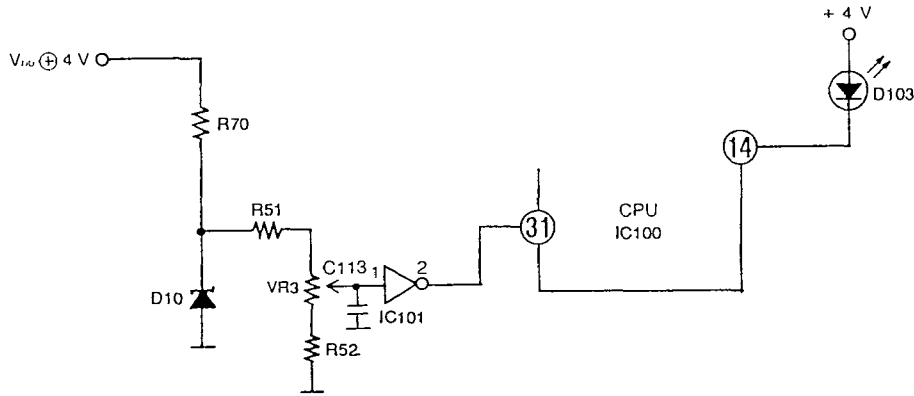


Fig. 32

■ INITIALIZING CIRCUIT

This circuit is for resetting the CPU (IC100) when the power of the unit is turned on. (Reset is necessary to prevent errors in the operation of the CPU.) When the power switch (SW100) is OFF, 8 Pin of IC102 is "High". When the power switch (SW100) is ON, 8 Pin of IC102 is "Low". Further 8 Pin of IC102 is "High", so 8 Pin of IC102 becomes the reset signal.

Circuit Diagram

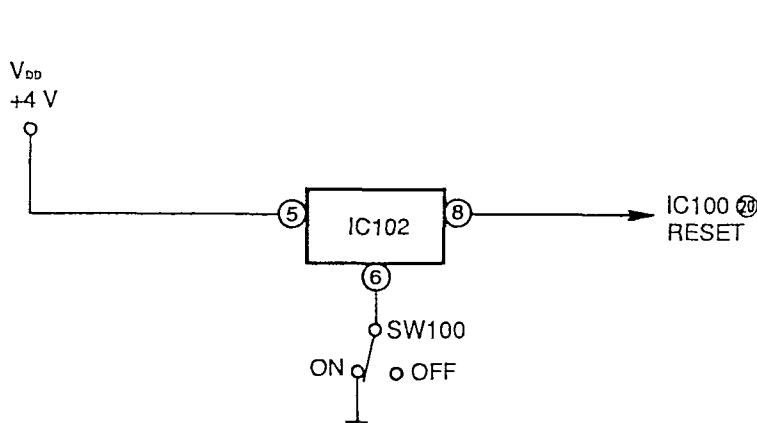


Fig. 33

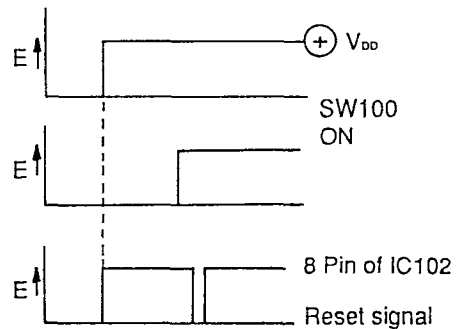
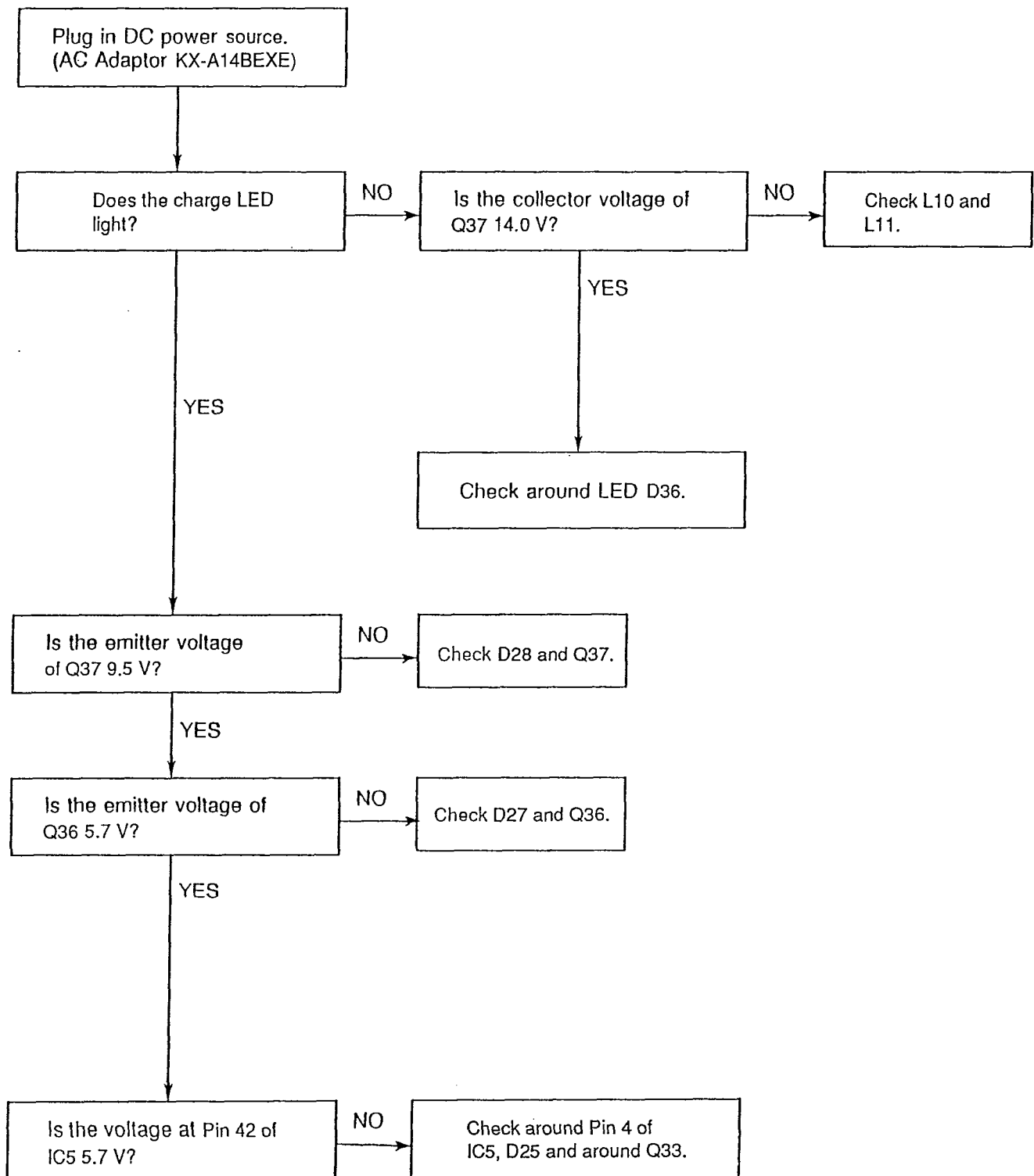


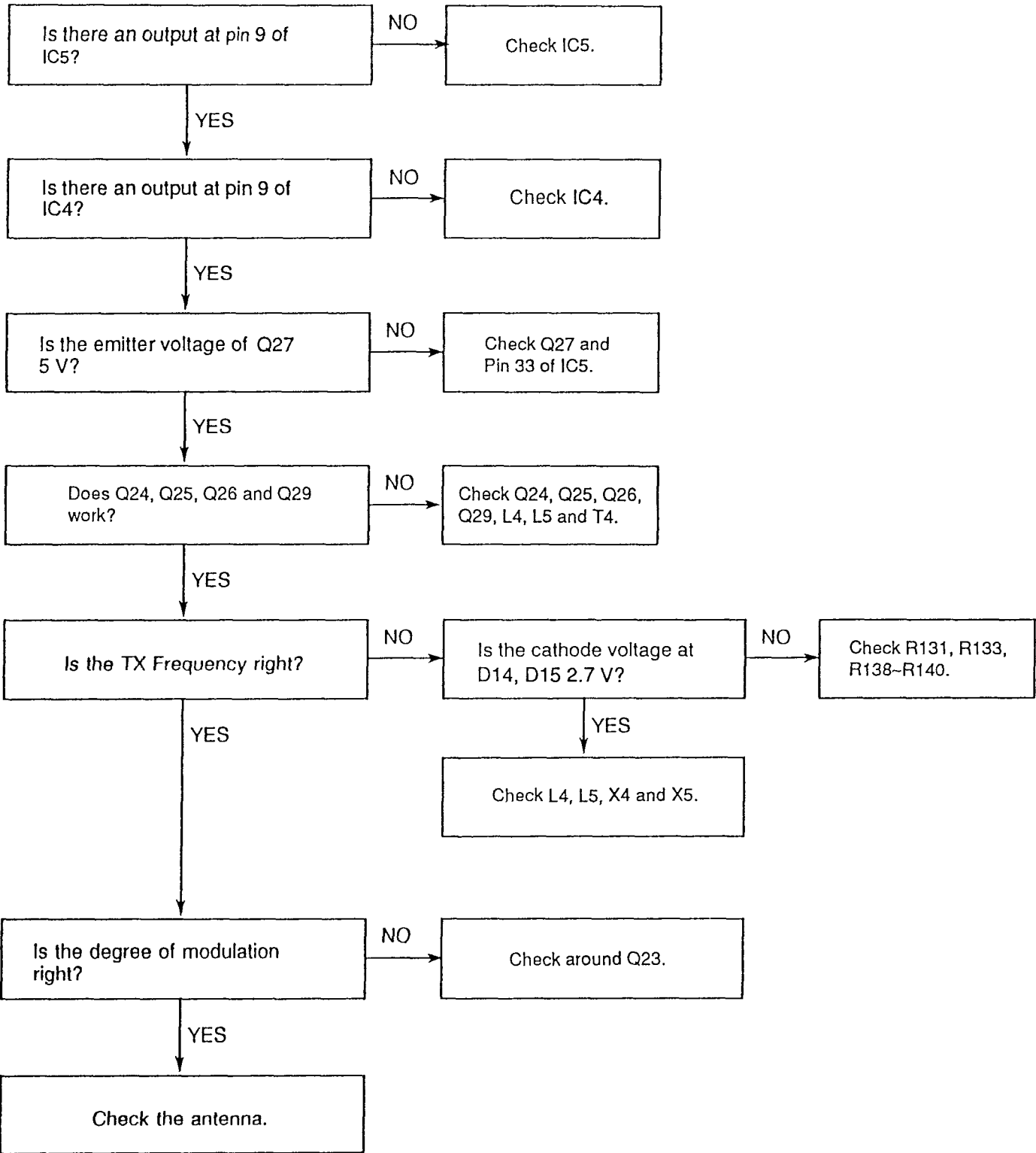
Fig. 34

## ■ TROUBLESHOOTING GUIDE (KX-T3846EH/KX-T3856EH)

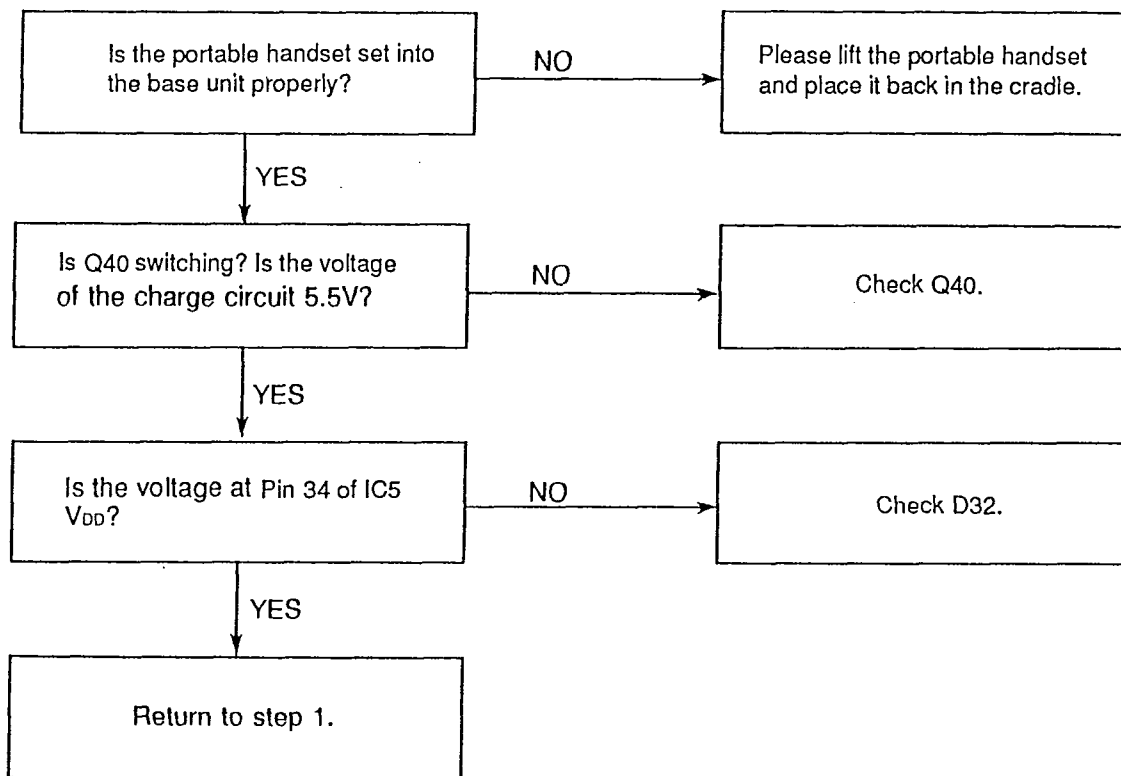
## (1) NO FUNCTION OPERATE



(2) PORTABLE HANDSET DOES NOT RECEIVE THE PAGE/INTERCOM SIGNAL



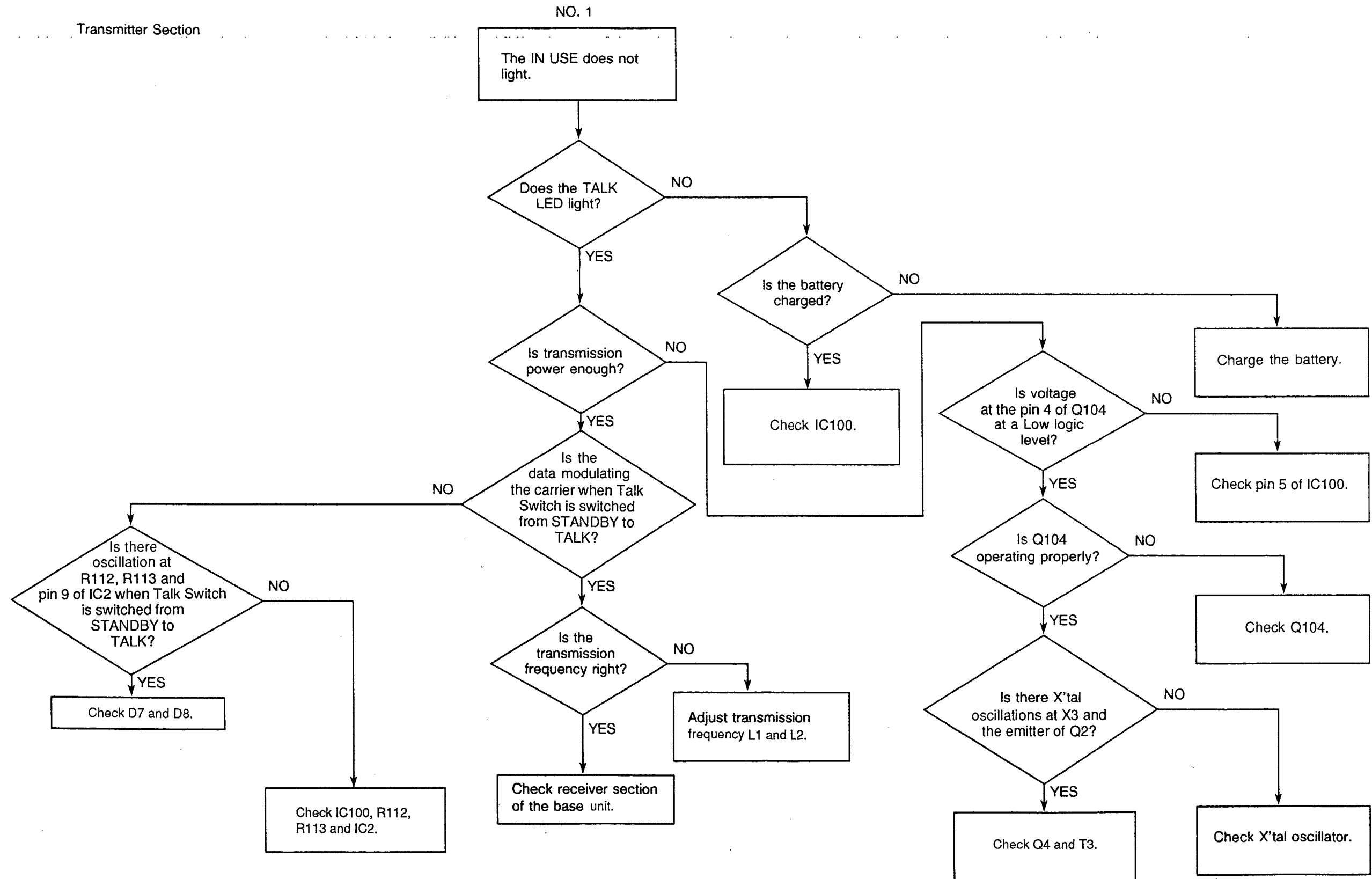
(3) WHEN THE PORTABLE HANDSET IS SET IN THE CRADLE OF THE BASE UNIT, THE PORTABLE HANDSET DOES NOT CHARGE.



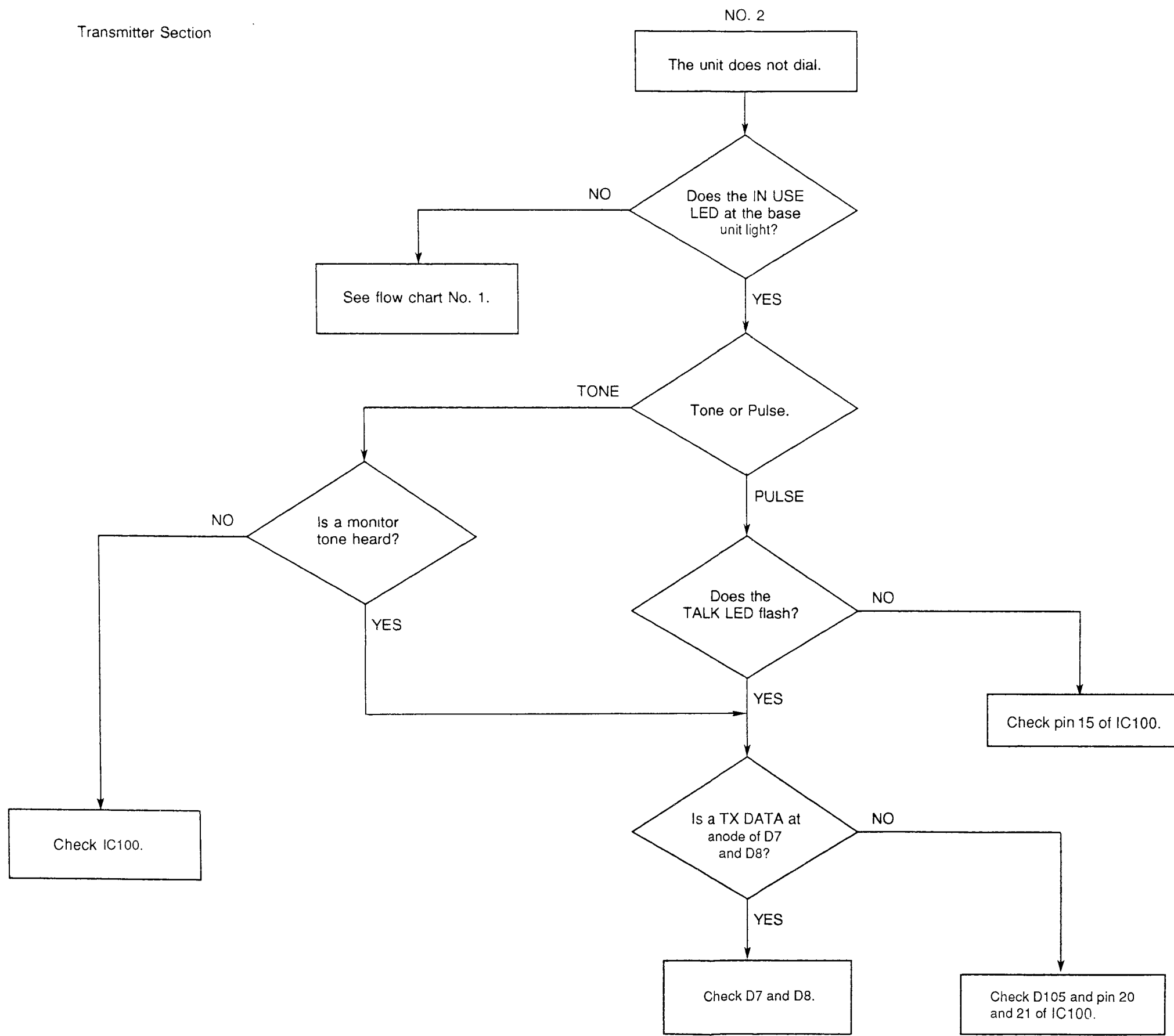
MEMO

■ TROUBLESHOOTING GUIDE (KX-T3846ER/KX-T3856ER)

Transmitter Section

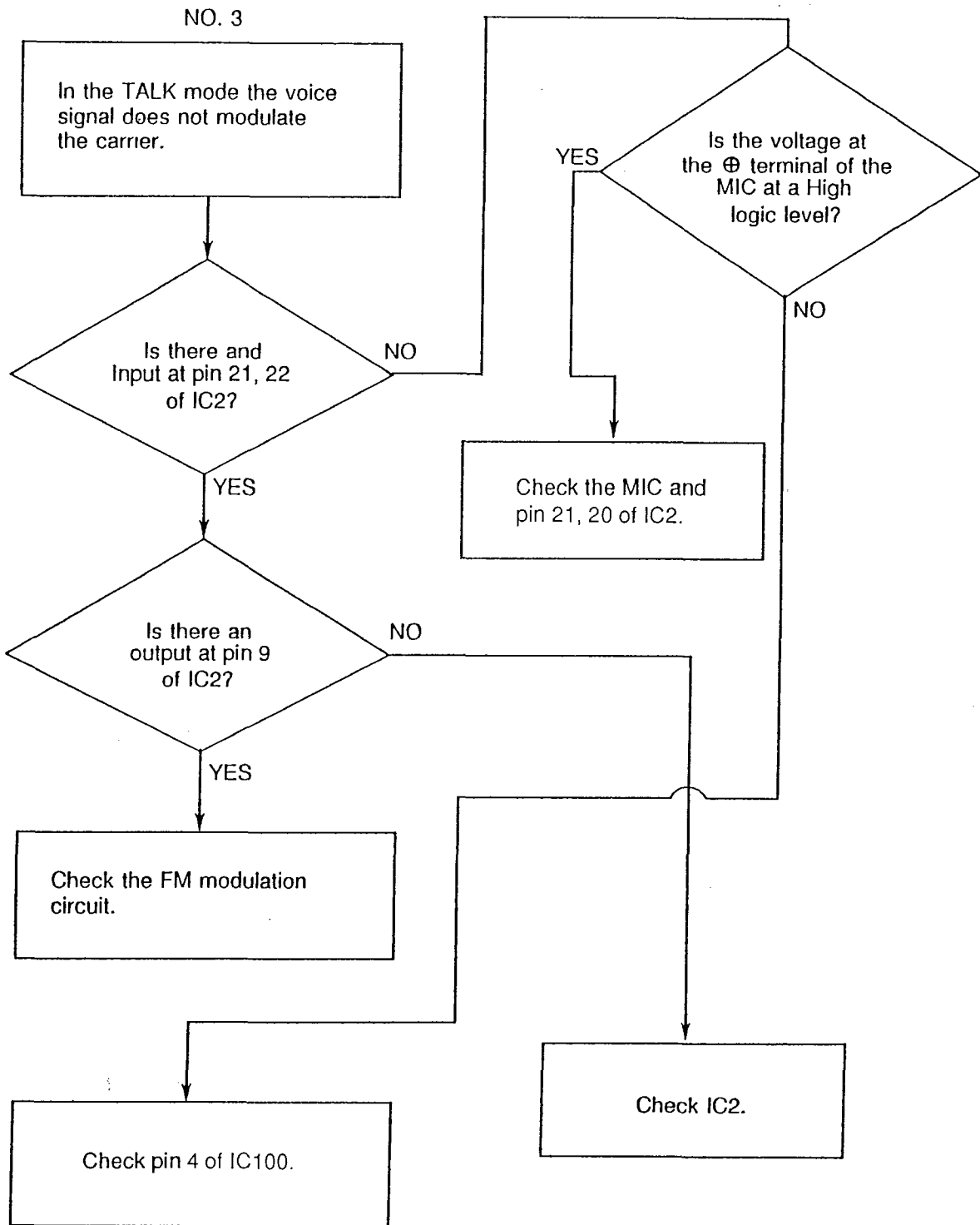


Transmitter Section

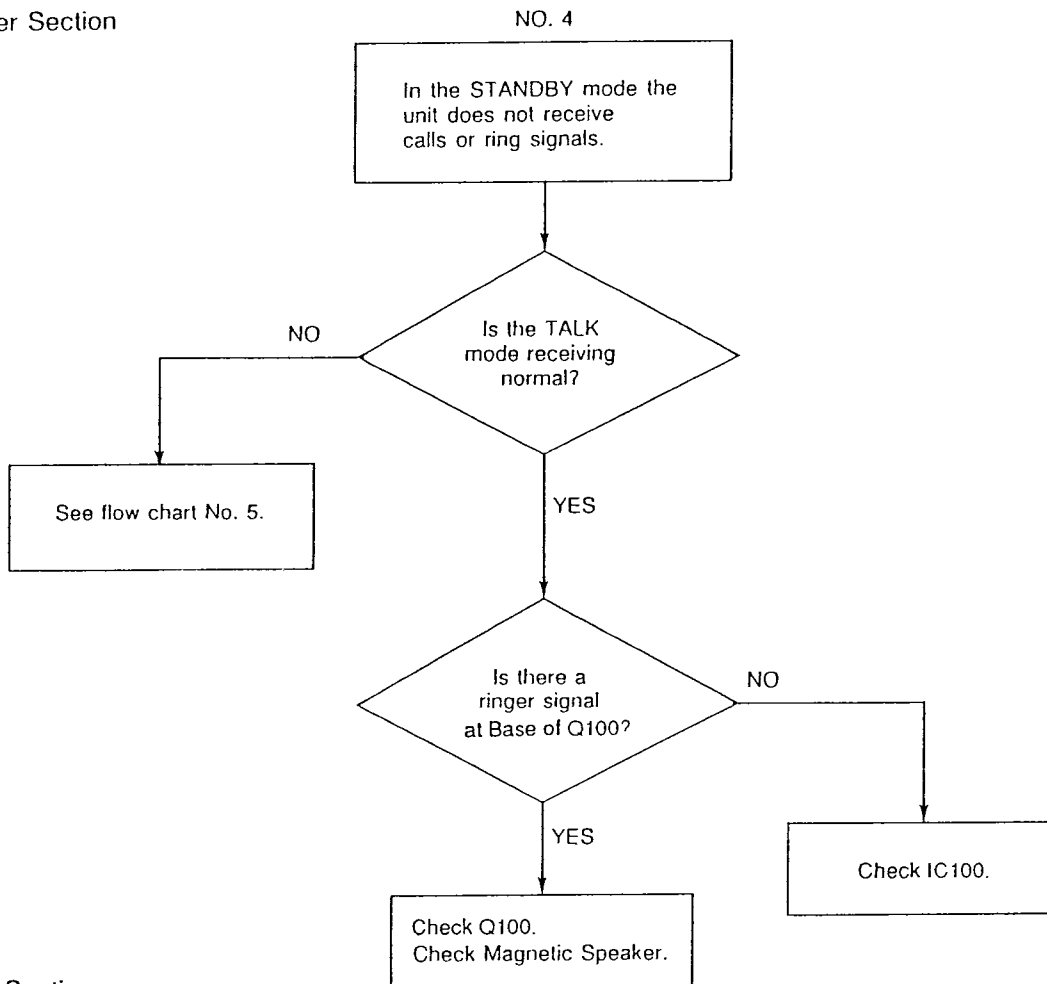




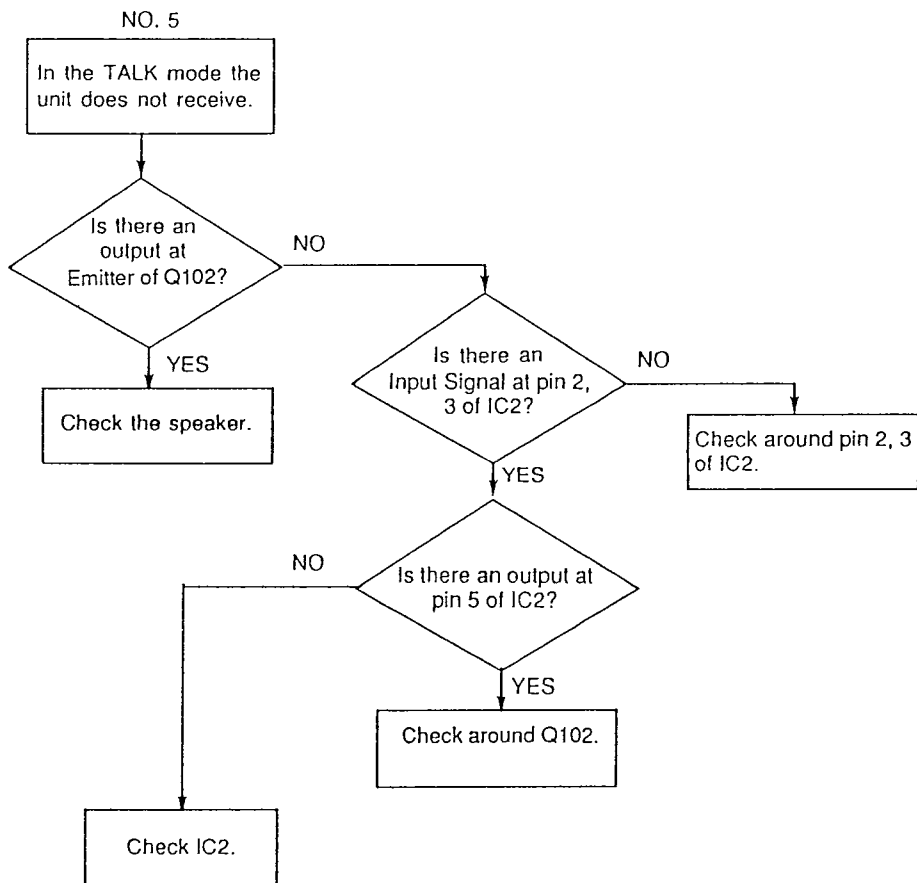
Transmitter Section



Transmitter Section



Receiver Section



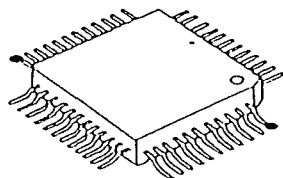
# HOW TO REPLACE FLAT PACKAGE IC

## ■ PREPARATION

- SOLDER ..... Sparkle Solder 115A-1, 115B-1  
OR  
Almit Solder KR-19, KR-19RMA
- Soldering iron ..... Recommended power consumption will be between 30 W to 40 W.  
Temperature of Copper Rod 662 ±50° F (350 ±10° C)  
  
(An expert may handle 60-80 W iron, but a beginner might damage the foil by overheating.)
- Flux ..... HI115                      Specific gravity 0.863  
  
(Original flux will be replaced daily.)

## ■ PROCEDURE

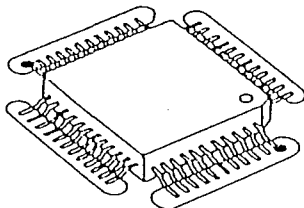
1. Temporary fix for FLAT PACKAGE IC by Soldering on the marked 2 pins.



● .....Temporary soldering point.

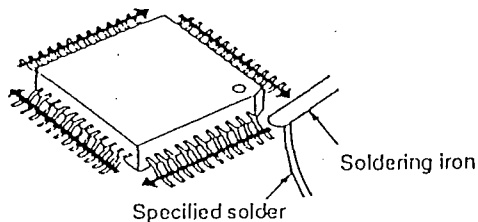
\*A most important matter is the accurate setting of IC to the corresponding soldering foil.

2. Apply flux for all pins of FLAT PACKAGE IC.



.....Flux

3. Employ the soldering iron as shown by the arrows in the figure below.

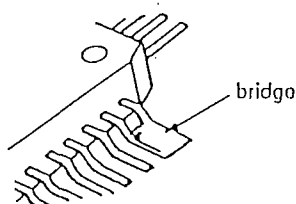


Soldering iron

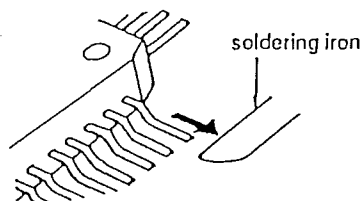
Specified solder

## ■ MODIFICATION PROCEDURE OF BRIDGE

1. Re-solder slightly on bridging portion.
2. Remove remained solder along pins employing soldering iron as shown in below Figure.

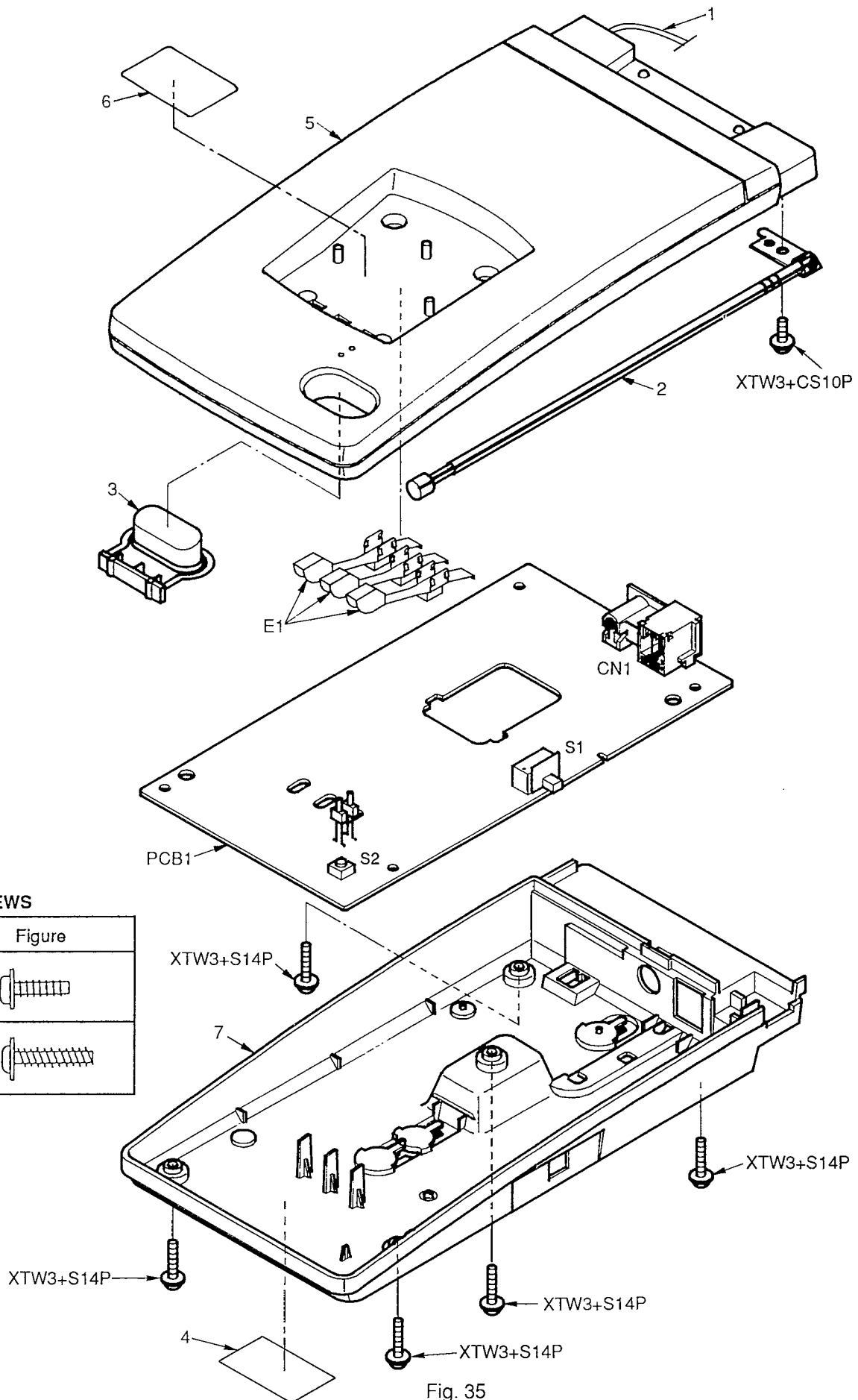


bridge



soldering iron

# CABINET AND ELECTRICAL PARTS LOCATION (KX-T3846EH)

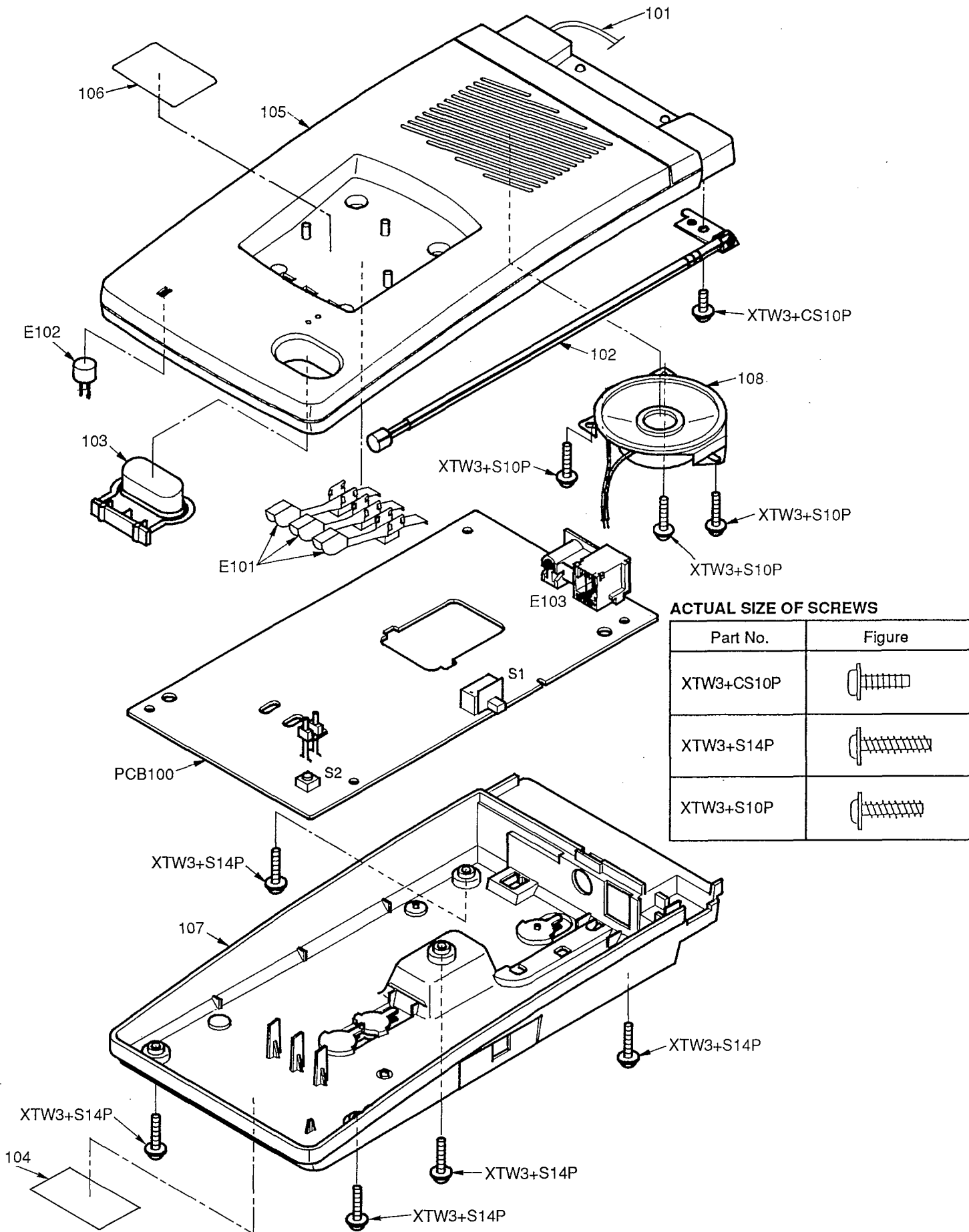


**ACTUAL SIZE OF SCREWS**

Part No.	Figure
XTW3+CS10P	
XTW3+S14P	

Fig. 35

# CABINET AND ELECTRICAL PARTS LOCATION (KX-T3856EH)

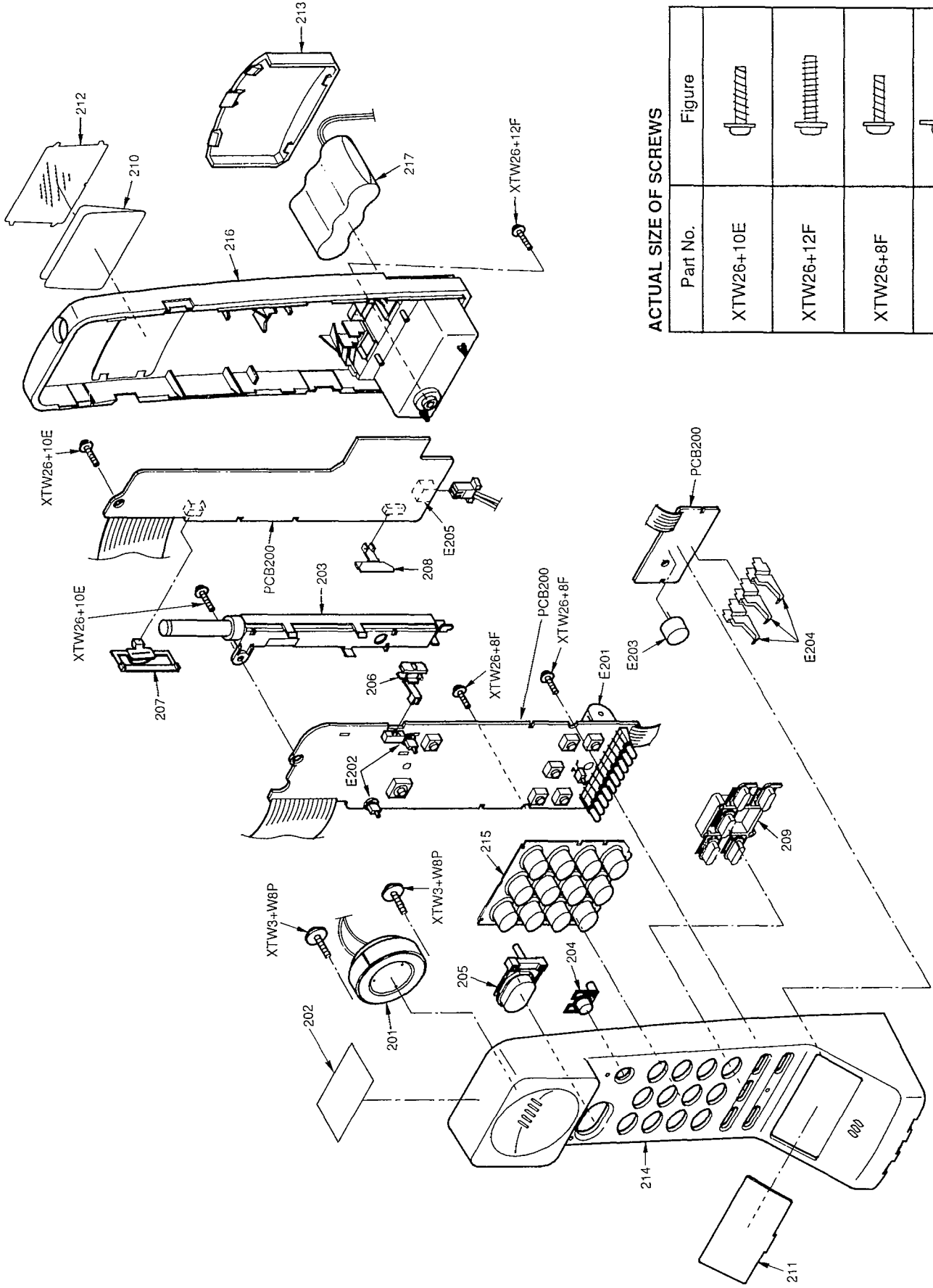


**ACTUAL SIZE OF SCREWS**

Part No.	Figure
XTW3+CS10P	
XTW3+S14P	
XTW3+S10P	

Fig. 36

# CABINET AND ELECTRICAL PARTS LOCATION (KX-T3846ER/KX-T3856ER)



**ACTUAL SIZE OF SCREWS**

Part No.	Figure
XTW26+10E	
XTW26+12F	
XTW26+8F	
XTW3+W8P	

Fig. 37

# ACCESSORIES AND PACKING MATERIALS

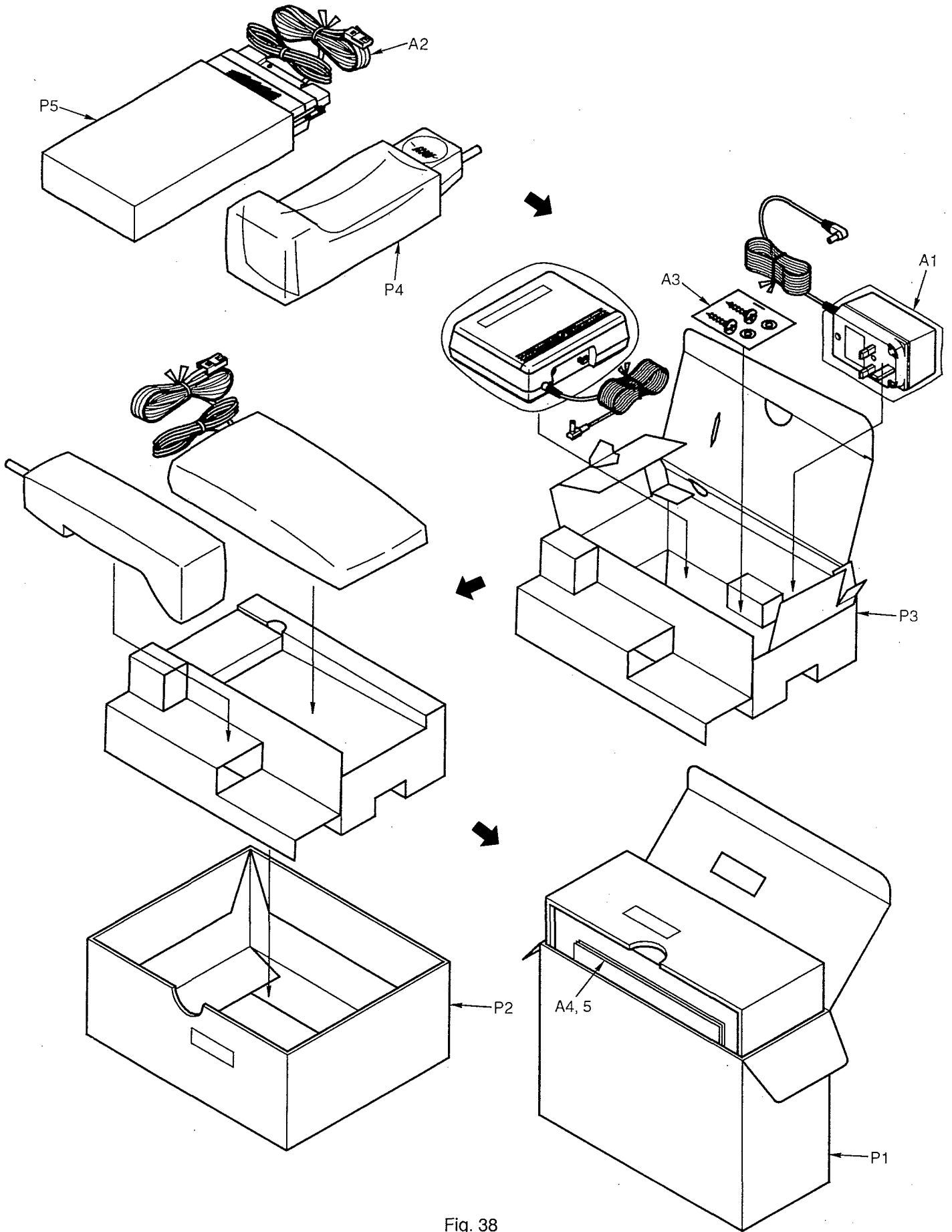


Fig. 38

This replacement parts list is for U.K. version only. Refer to the simplified manual (cover) for other areas.

### REPLACEMENT PARTS LIST

#### KX-T3846EH

**1. RTL (Retention Time Limited)**

Note: The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

**2. Important safety notice**

Components identified by the  $\Delta$  mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

**3. The S mark indicates service standard parts and may differ from production parts.**

**4. RESISTORS & CAPACITORS**

Unless otherwise specified.  
All resistors are in ohms ( $\Omega$ ) K=1000 $\Omega$ , M=1000K $\Omega$   
All capacitors are in MICRO FARADS ( $\mu$ F) P= $\mu$ F

**\*Type & Wattage of Resistor**

Type		
ERC:Solid	ERX: Metal Film	PQ4R: Carbon
ERD: Carbon	ERG: Metal Oxide	ERS: Fusible Resistor
PQRD: Carbon	ERO: Metal Film	ERF: Cement Resistor

**Wattage**

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
------------	------------	---------	------	------	------

**\*Type & Voltage of Capacitor**

Type	
ECCD: Semi-Conductor	ECCD, ECKD, ECBT, PQCBC : Ceramic
ECQS: Styrol	ECQE, ECQV, ECQG : Polyester
PQCUV: Chip	ECEA, ECSZ : Electrolytic
ECQMS: Mica	ECQP : Polypropylene

**Voltage**

ECQ Type	ECQG ECQV Type	ECSZ Type	Others		
1H: 50V	05: 50V	0F: 3.15V	0J : 6.3V	1V : 35V	
2A: 100V	1: 100V	1A: 10V	1A : 10V	50, 1H: 50V	
2E: 250V	2: 200V	1V: 35V	1C : 16V	1J : 63V	
2H: 500V		0J: 6.3V	1E, 25: 25V	2A : 100V	

Ref. No.	Part No.	Part Name & Description	Pcs/Set
<b>CABINET PARTS</b>			
1	PQJA215Z	ANTENNA CORD	1
2	XEAPQK170BA	ANTENNA	1
3	PQBC10022W1	BUTTON, PAGE	1
4	PQGT10969Z	NAME PLATE $\Delta$	1
5	PQKM10013S7	UPPER CABINET	1
6	PQQT10488Z	CAUTION LABEL	1
7	PQYF10055Y2	LOWER CABINET	1
<b>PRINTED CIRCUIT PARTS</b>			
PCB1	PQWPT3846EH	P. C. BOARD ASS'Y (RTL) $\Delta$	1
<b>(ICS)</b>			
IC1	PQVIMC3361P	IC	1
IC2	PQVINJM4558M	IC	1
IC3	PQVITC4069UBF	IC	1
IC4	AN6165SB	IC	1
IC5	MN158413AKRB	IC	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
<b>(TRANSISTORS)</b>			
Q1	2SK543	TRANSISTOR(SI)	1
Q2	2SC2295	TRANSISTOR(SI)	S 1
Q3	2SC2295	TRANSISTOR(SI)	S 1
Q5	2SB709A	TRANSISTOR(SI)	S 1
Q6	2SD601R	TRANSISTOR(SI)	S 1
Q7	2SD601R	TRANSISTOR(SI)	S 1
Q8	2SD601R	TRANSISTOR(SI)	S 1
Q9	2SD601R	TRANSISTOR(SI)	S 1
Q10	2SD601R	TRANSISTOR(SI)	S 1
Q11	PQVTKSD261CY	TRANSISTOR(SI)	S 1
Q13	2SA1627	TRANSISTOR(SI)	1
Q14	2SD601R	TRANSISTOR(SI)	S 1
Q16	2SD601R	TRANSISTOR(SI)	S 1
Q18	2SD601R	TRANSISTOR(SI)	S 1
Q19	2SD601R	TRANSISTOR(SI)	S 1
Q21	2SD601R	TRANSISTOR(SI)	S 1
Q22	2SD601R	TRANSISTOR(SI)	S 1
Q23	2SD601R	TRANSISTOR(SI)	S 1
Q24	2SC2295	TRANSISTOR(SI)	S 1
Q25	2SC2295	TRANSISTOR(SI)	S 1
Q26	2SC2295	TRANSISTOR(SI)	S 1
Q27	2SD601R	TRANSISTOR(SI)	S 1
Q28	2SB1322	TRANSISTOR(SI)	1
Q29	2SC34210	TRANSISTOR(SI) [or 2SC3421]	1
Q33	2SD601R	TRANSISTOR(SI)	S 1
Q34	2SB709A	TRANSISTOR(SI)	S 1
Q35	2SD601R	TRANSISTOR(SI)	S 1
Q36	2SD1994A	TRANSISTOR(SI)	1
Q37	2SD2136	TRANSISTOR(SI)	1
Q39	2SC1740S	TRANSISTOR(SI) [or 2SC3330 or 2SC3311]	1
Q40	2SA933	TRANSISTOR(SI) [or 2SA1317 or 2SA1309]	1
<b>(DIODES)</b>			
D1	1SS238	DIODE(SI)	1
D2	1SS238	DIODE(SI)	1
D6	MA4030	DIODE(SI)	S 1
D7	MA4270	DIODE(SI)	S 1
D8	PQVDS1ZB40F1	DIODE(SI)	1
D9	PQVDS1ZB40F1	DIODE(SI)	1
D10	MA4033	DIODE(SI)	S 1
D11	1SS131	DIODE(SI)	S 1
D14	PQVD1SV149	DIODE(SI)	1
D15	PQVD1SV149	DIODE(SI)	1
D17	1SS131	DIODE(SI)	S 1
D18	1SS131	DIODE(SI)	S 1
D20	1SS131	DIODE(SI)	S 1
D22	MA700A	DIODE(SI)	S 1
D23	1SS131	DIODE(SI)	S 1
D24	MA4056	DIODE(SI)	S 1
D25	1SS131	DIODE(SI)	S 1
D26	1SS131	DIODE(SI)	S 1
D27	MA4068	DIODE(SI)	S 1
D28	MA4110	DIODE(SI)	S 1
D30	MA4110	DIODE(SI)	S 1
D31	1SS131	DIODE(SI)	S 1
D32	1SS131	DIODE(SI)	S 1
D35	LN322GPH	LED	S 1



This replacement parts list is for U.K. version only. Refer to the simplified manual (cover) for other areas.

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
		(SWITCHES)				(OTHERS)	
S1	PQSS2A27W	SWITCH, DIALING MODE	1	RLY1	PQSL107Z	RELAY $\Delta$	1
S2	PQSS2A27W	SWITCH, RECALL	1	SA1	PQVDRA311PT2	VARISTOR	1
S3	EVQJ05Q	SWITCH, PAGE/INTERCOM	1	CF1	PQVFCFW455G1	CERAMIC FILTER	1
				E1	PQJT10007Z	CHARGE TERMINAL	3
				CN1	PQJ2HB1Z	JACK, TELEPHONE LINE, DC IN	1
		(VARIABLE RESISTORS)					
VR1	EVNDXAA03B35	VARIABLE RESISTOR, 30k $\Omega$	1				
VR2	EVNDXAA03B15	VARIABLE RESISTOR, 100k $\Omega$	1				
VR3	EVNDXAA03B15	VARIABLE RESISTOR, 100k $\Omega$	1				
		(CRYSTALS)				(RESISTORS)	
X1-3	PQVCJ3678N9	CRYSTAL OSCILLATOR	1	R1	PQ4R10XJ821	820	1
X1-4	PQVCJ3679N9	CRYSTAL OSCILLATOR	1	R2	PQ4R10XJ470	47	1
X2-5	PQVCJ3680N9	CRYSTAL OSCILLATOR	1	R3	PQ4R10XJ470	47	1
X2-6	PQVCJ3681N9	CRYSTAL OSCILLATOR	1	R4	PQ4R10XJ334	330K	1
X3	PQVCJ10245N9	CRYSTAL OSCILLATOR	1	R5	PQ4R10XJ272	2.7K	1
X4-3	PQVBA1.682K1	CRYSTAL OSCILLATOR $\Delta$	1	R6	PQ4R10XJ272	2.7K	1
X4-4	PQVBA1.702K1	CRYSTAL OSCILLATOR $\Delta$	1	R7	PQ4R10XJ102	1K	1
X5-5	PQVBA1.722K1	CRYSTAL OSCILLATOR $\Delta$	1	R8	PQ4R10XJ562	5.6K	1
X5-6	PQVBA1.742K1	CRYSTAL OSCILLATOR $\Delta$	1	R9	PQ4R10XJ224	220K	1
X6	PQVCJ3581N9Z	CRYSTAL OSCILLATOR S	1	R10	PQ4R10XJ470	47	1
MCF1	PQVCM107M7.5	CRYSTAL OSCILLATOR	1	R11	PQ4R10XJ222	2.2K	1
		(COILS AND TRANSFORMER)		R12-17	Not Used		
T1	PQLA7A17	COIL	1	R18	PQ4R10XJ103	10K	1
T2	PQLA7A7	COIL	1	R19	PQ4R10XJ123	12K	1
T3	PQLI4B901	I.F. TRANSFORMER	1	R20	PQ4R10XJ120	12	1
T4	PQLA2B7	COIL	1	R21	PQ4R10XJ470	47	1
L1	PQLQZK1R8M	COIL	1	R22	PQ4R10XJ104	100K	1
L2	PQLQZMR22K	COIL	1	R23	PQ4R10XJ104	100K	1
L3	PQLI2B201	I.F. TRANSFORMER S	1	R24	PQ4R10XJ104	100K	1
L4	PQLA2B5	COIL	1	R25	PQ4R10XJ105	1M	1
L5	PQLA2B5	COIL	1	R26	PQ4R10XJ822	8.2K	1
L6	PQLQZK101K	COIL S	1	R27	PQ4R10XJ223	22K	1
L7	PQLQZK8R2K	COIL	1	R28	PQ4R10XJ154	150K	1
L8	PQLQZK330K	COIL	1	R29	PQ4R10XJ563	56K	1
L9	PQLA2B6	COIL	1	R30	PQ4R10XJ563	56K	1
L10	ELEPK330KA	COIL	1	R31	PQ4R10XJ470	47	1
L11	ELEPK330KA	COIL S	1	R32	PQ4R10XJ470	47	1
L300	PQLQZM1R0K	COIL S	1	R33	Not Used		
L301	PQLQZM1R0K	COIL	1	R34	Not Used		
		(PHOTO COUPLERS)		R35	PQ4R10XJ472	4.7K	1
PC1	PQVIPC814Y	PHOTO ELECTRIC TRANSDUCER $\Delta$	1	R36	PQ4R10XJ562	5.6K	1
PC2	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER $\Delta$	1	R37	PQ4R10XJ223	22K	1
PC3	PQVITLP627	PHOTO ELECTRIC TRANSDUCER $\Delta$	1	R38	PQ4R10XJ474	470K	1
PC4	PQVITLP631K	PHOTO ELECTRIC TRANSDUCER $\Delta$	1	R39	PQ4R10XJ104	100K	1
PC5	PQVITLP631K	PHOTO ELECTRIC TRANSDUCER $\Delta$	1	R40	PQ4R10XJ223	22K	1
				R41	PQ4R10XJ682	6.8K	1
				R42	PQ4R10XJ682	6.8K	1
				R43	PQ4R10XJ222	2.2K	1
				R44	PQ4R10XJ681	680	1
				R45	PQ4R10XJ684	680K	1
				R46	ERDS2TJ103	10K	1
				R47	PQ4R10XJ223	22K	1
				R48	PQ4R10XJ152	1.5K	1
				R49	PQ4R10XJ271	270	1
				R50	PQ4R10XJ823	82K	1
				R51	ERDS2TJ102	1K	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
R52	Not Used			R121	PQ4R10XJ153	15K	1
R53	ERDS2TJ102	1K	1	R122	PQ4R10XJ123	12K	1
R54	ERDS2TJ220	22	1	R123	PQ4R10XJ563	56K	1
R55	PQ4R10XJ105	1M	1	R124	Not Used		
R56	PQ4R10XJ103	10K	1	R125	Not Used		
R57	ERDS2TJ101	100	1	R126	PQ4R18XJ683	68K	1
R58	ERDS2TJ120	12	1	R127	PQ4R10XJ181	180	1
				R128	PQ4R10XJ224	220K	1
R60	PQ4R10XJ223	22K	1	R129	PQ4R10XJ122	1.2K	1
R61	PQ4R10XJ222	2.2K	1				
R62	PQ4R10XJ123	12K	1	R130	PQ4R10XJ102	1K	1
R63	PQ4R10XJ683	68K	1	R131	PQ4R10XJ472	4.7K	1
R64	PQ4R10XJ391	390	1	R132	PQ4R10XJ473	47K	1
R65	ERDS2TJ682	6.8K	1	R133	PQ4R10XJ563	56K	1
R66	Not Used			R134	PQ4R10XJ153	15K	1
R67	ERDS2TJ392	3.9K	1	R135	PQ4R18XJ104	100K	1
R68	ERDS2TJ152	1.5K	1	R136	PQ4R10XJ471	470	1
R69	ERDS2TJ471	470	1	R137	PQ4R18XJ102	1K	1
				R138	PQ4R10XJ472	4.7K	1
R70	ERDS2TJ222	2.2K	1	R139	PQ4R10XJ473	47K	1
R71	ERDS2TJ150	15	1				
R72~76	Not Used			R140	PQ4R10XJ563	56K	1
R77	ERDS2TJ104	100K	1	R141	PQ4R10XJ153	15K	1
R78	ERDS2TJ472	4.7K	1	R142	PQ4R18XJ104	100K	1
R79	ERDS2TJ101	100	1	R143	PQ4R10XJ471	470	1
				R144	PQ4R18XJ102	1K	1
R80	ERDS2TJ223	22K	1	R145	PQ4R10XJ473	47K	1
R81	PQ4R10XJ332	3.3K	1	R146	PQ4R10XJ470	47	1
R82	Not Used			R147	PQ4R10XJ473	47K	1
R83	Not Used			R148	PQ4R10XJ563	56K	1
R84	PQ4R10XJ103	10K	1	R149	PQ4R10XJ103	10K	1
R85	Not Used						
R86	Not Used			R150	PQ4R10XJ224	220K	1
R87	PQ4R10XJ332	3.3K	1	R151	PQ4R10XJ103	10K	1
R88	PQ4R10XJ152	1.5K	1	R152	ERDS1TJ330	33	1
R89	ERJ3GEYJ121	120	1	R153	PQ4R10XJ102	1K	1
R90	PQ4R10XJ223	22K	1	R173	PQ4R10XJ822	8.2K	1
R91	PQ4R10XJ154	150K	1	R174	PQ4R10XJ104	100K	1
R92	PQ4R10XJ222	2.2K	1	R176	PQ4R10XJ104	100K	1
R93	PQ4R10XJ224	220K	1	R177	PQ4R10XJ104	100K	1
R94	PQ4R10XJ683	68K	1	R178	PQ4R10XJ104	100K	1
R95	ERJ3GEYJ684	680K	1	R179	PQ4R10XJ104	100K	1
R96	Not Used						
R97	PQ4R10XJ151	150	1	R180	PQ4R10XJ104	100K	1
R98	PQ4R10XJ104	100K	1	R181	PQ4R10XJ104	100K	1
R99	PQ4R10XJ104	100K	1	R182	PQ4R10XJ473	47K	1
				R183	PQ4R10XJ473	47K	1
R100	PQ4R10XJ473	47K	1	R184	PQ4R10XJ824	820K	1
R101	Not Used			R185	PQ4R10XJ104	100K	1
R102	Not Used			R186	PQ4R10XJ104	100K	1
R103	PQ4R10XJ103	10K	1	R187	PQ4R10XJ102	1K	1
R104	Not Used			R188	PQ4R10XJ102	1K	1
R105	PQ4R18XJ470	47	1				
R106	PQ4R10XJ683	68K	1	R190	PQ4R10XJ103	10K	1
R107	PQ4R10XJ823	82K	1	R191	PQ4R10XJ473	47K	1
R108	PQ4R10XJ153	15K	1	R192	PQ4R10XJ332	3.3K	1
R109	PQ4R10XJ273	27K	1	R193	ERDS2TJ101	100	1
				R194	ERDS2TJ104	100K	1
R110	PQ4R10XJ104	100K	1	R195	Not Used		
R111	PQ4R10XJ104	100K	1	R196	PQ4R10XJ332	3.3K	1
R112	PQ4R10XJ334	330K	1	R197	PQ4R10XJ473	47K	1
R113	PQ4R10XJ224	220K	1	R198	Not Used		
R114	PQ4R10XJ224	220K	1	R199	PQ4R10XJ332	3.3K	1
R115	PQ4R10XJ333	33K	1				
R116	PQ4R18XJ103	10K	1	R200	PQ4R10XJ102	1K	1
R117	PQ4R10XJ104	100K	1	R201	Not Used		
R118	PQ4R10XJ103	10K	1	R202	Not Used		
R119	PQ4R10XJ103	10K	1	R203	Not Used		
				R204	ERDS2TJ561	560	1
R120	PQ4R10XJ153	15K	1	R205	Not Used		

This replacement parts list is for U.K. version only. Refer to the simplified manual (cover) for other areas.

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
R206	Not Used			C40	PQCUV1H223KB	0.022	S 1
R207	PQ4R10XJ100	10	1	C41	ECEA1CK101	100	S 1
R208	PQ4R10XJ103	10K	1	C42	ECEA1CK101	100	S 1
R209	PQ4R10XJ273	27K	1	C43	PQCUV1H821JC	820P	1
R211	ERDS2TJ123	12K	1	C45	PQCUV1H332KB	0.0033	1
R212	PQ4R10XJ104	100K	1	C46	ECEA1HKS010	1	S 1
R213	Not Used			C47	ECEA1EKS330	33	S 1
R214	PQ4R18XJ154	150K	1	C48	ECEA1HKS010	1	S 1
R300	ERDS2TJ123	12K	1	C49	PQCUV1E473MD	0.047	1
R301	ERDS2TJ182	1.8K	1	C50	ECEA1EK470	47	S 1
J2~13, J15,16, J115	PQ4R10XJ000	Chlp Jumper, 0Ω	15	C51	Not Used		
J14, J50~52, J54~57, J60	PQ4R18XJ000	Chlp Jumper, 0Ω	9	C52	ECEA1AU471	470	1
				C53	PQCUV1E104MD	0.1	1
				C54	ECUV1H473MD	0.047	S 1
				C55	ECQV1H224JZ	0.22	1
				C56	ECKDKC472KB	0.0047	1
				C57	ECKD2H681KB	680P	S 1
				C58	ECKD2H681KB	680P	S 1
				C60	PQCUV1C683MD	0.068	1
				C61	PQCUV1C683MD	0.068	1
				C62	Not Used		
				C63	PQCUV1C683MD	0.068	1
				C64	Not Used		
				C65	ECEA1CKS220	22	S 1
				C66	PQCUV1H151JC	150P	1
				C67	PQCUV1H562KB	0.0056	1
				C68	PQCUV1H103KB	0.01	1
				C69	ECEA1CKS100	10	S 1
				C70	ECUV1H683MD	0.068	S 1
				C71	Not Used		
				C72	PQCUV1H103KB	0.01	1
				C73	ECEA1HKS4R7	4.7	S 1
				C74	PQCUV1H223KB	0.022	S 1
				C75	PQCUV1H221JC	220P	1
				C76	ECEA1CKS100	10	S 1
				C77	ECEA1HKS4R7	4.7	S 1
				C78	PQCUV1E104MD	0.1	1
				C79	PQCUV1E104MD	0.1	1
				C80	PQCUV1H471JC	470P	1
				C81	PQCUV1H103KB	0.01	1
				C82	ECEA0JK221	220	1
				C83	PQCUV1H103KB	0.01	1
				C84	PQCUV1E104MD	0.1	1
				C85	ECEA1HKS010	1	S 1
				C86	PQCUV1C683MD	0.068	1
				C87	PQCUV1H102J	0.001	1
				C88	PQCUV1H390JC	39P	1
				C89	PQCUV1H821JC	820P	1
				C90	PQCUV1H102J	0.001	1
				C91	PQCUV1H471JC	470P	1
				C92	PQCUV1E104MD	0.1	1
				C93	PQCUV1C683MD	0.068	1
				C94	PQCUV1H102J	0.001	1
				C95	PQCUV1H390JC	39P	1
				C96	PQCUV1H102J	0.001	1
				C97	PQCUV1H821JC	820P	1
				C98	PQCUV1H471JC	470P	1
				C99	PQCUV1E104MD	0.1	1
C1	PQCUV1H150JC	15P	1	C100	ECEA1EK470	47	S 1
C2	PQCUV1H070DC	7P	1	C101	PQCUV1E104MD	0.1	1
C3	PQCUV1H103KB	0.01	1	C102	PQCUV1H103KB	0.01	1
C4	PQCUV1H470JC	47P	1	C103	ECEA1EK470	47	1
C5	PQCUV1H560JC	56P	1	C104	PQCUV1E104MD	0.1	1
C6	PQCUV1H101JC	100P	1	C105	Not Used		
C7	PQCUV1H103KB	0.01	1	C106	Not Used		
C8	PQCUV1H103KB	0.01	1	C107	Not Used		
C9	PQCUV1H103KB	0.01	1				
C10	PQCUV1H103KB	0.01	1				
C11	PQCUV1H103KB	0.01	1				
C12	PQCUV1H100DC	10P	1				
C13	PQCUV1H103KB	0.01	1				
C14	PQCUV1H223KB	0.022	S 1				
C15	PQCUV1H103KB	0.01	1				
C16	ECUV1H103KB	0.01	1				
C22	PQCUV1H392KB	0.0039	1				
C23	PQCUV1H470JC	47P	1				
C24	PQCUV1H151JC	150P	1				
C25	PQCUV1H103KB	0.01	1				
C26	PQCUV1H103KB	0.01	1				
C27	PQCUV1E104MD	0.1	1				
C28	PQCUV1H103KB	0.01	1				
C29	ECEA1CK101	100	S 1				
C32	ECEA1HKS010	1	S 1				
C33	ECEA1CK101	100	S 1				
C34	PQCUV1E104MD	0.1	S 1				
C35	PQCUV1C683MD	0.068	1				
C36	PQCUV1H332KB	0.0033	1				
C37	ECUV1H104MD	0.1	S 1				
C38	PQCUV1H223KB	0.022	S 1				
C39	PQCUV1H223KB	0.022	S 1				

## (CAPACITORS)

This replacement parts list is for U.K. version only. Refer to the simplified manual (cover) for other areas.

Ref. No.	Part No.	Part Name & Description	Pcs/Set
C108	Not Used		
C109	Not Used		
C119	PQCUV1H220JC	22P	1
C120	PQCUV1H220JC	22P	1
C121	PQCUV1H103KB	0.01	1
C122	ECEA0JU102	1000	1
C123	PQCUV1H223KB	0.022	S 1
C124	PQCUV1E104MD	0.1	1
C125	ECEA0JU102	1000	1
C126	ECEA0JU102	1000	1
C127	PQCUV1H103KB	0.01	1
C128	ECEA1EK470	47	S 1
C129	PQCUV1H103KB	0.01	1
C130	ECEA1EU101	100	1
C131	Not Used		
C132	Not Used		
C133	Not Used		
C134	PQCUV1H103KB	0.01	1
C135	PQCUV1E333MD	0.033	1
C136	PQCUV1H152KB	0.0015	1
C137	PQCUV1H332KB	0.0033	1
C138	PQCUV1H221JC	220P	1
C139	PQCUV1H102J	0.001	1
C140	ECEA1CK101	100	1
C141	Not Used		
C142	PQCUV1H103KB	0.01	1
C143	PQCUV1H181JC	180P	1
C144	PQCUV1H103KB	0.01	1
C145	ECEA1HKS0R1	0.1	S 1
C146	Not Used		
C147	PQCUV1E104MD	0.1	1
C300	PQCUV1H103KB	0.01	1
C301	PQCBC1C103MY	0.01	1
C302	PQCUV1H103KB	0.01	1
C303	PQCUV1H101JC	100P	1
C304	ECUV1H103KBV	0.01	1

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## REPLACEMENT PARTS LIST

### KX-T3856EH

**1. RTL (Retention Time Limited)**

Note: The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

**2. Important safety notice**

Components identified by the  $\Delta$  mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

3. The S mark indicates service standard parts and may differ from production parts.

**4. RESISTORS & CAPACITORS**

Unless otherwise specified.

All resistors are in ohms ( $\Omega$ ) K=1000 $\Omega$ , M=1000K $\Omega$

All capacitors are in MICRO FARADS ( $\mu$ F) P= $\mu$ F

\*Type & Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
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\*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCB: Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others		
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V	
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V	
2E:250V	2:200V	1V:35V	1C :16V	1J :63V	
2H:500V		0J:6.3V	1E,25:25V	2A :100V	

Ref. No.	Part No.	Part Name & Description	Pcs/Set
CABINET PARTS			
101	PQJA215Z	ANTENNA CORD	1
102	XEAPQK170BA	ANTENNA	1
103	PQBC10022V2	BUTTON, PAGE	1
104	PQGT10844Z	NAME PLATE	1
105	PQKM10037T3	UPPER CABINET	1
106	PQQT10488Y	CAUTION LABEL	1
107	PQYF10055Y1	LOWER CABINET	1
108	PQAS5P12Z	SPEAKER	1
PRINTED CIRCUIT PARTS			
PCB101	PQWPT3856EH	P. C. BOARD ASS'Y (RTL) $\Delta$	1
(ICS)			
IC1	PQVIMC3361P	IC	1
IC2	PQVINJM4558M	IC	1
IC3	PQVITC4069UBF	IC	1
IC4	AN6165SB	IC	1
IC5	MN158413AKRB	IC	1
IC6	PQVIMC34119M	IC	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
(TRANSISTORS)			
Q1	2SK543	TRANSISTOR(SI)	1
Q2	2SC2295	TRANSISTOR(SI)	S 1
Q3	2SC2295	TRANSISTOR(SI)	S 1
Q5	2SB709A	TRANSISTOR(SI)	S 1
Q6	2SD601R	TRANSISTOR(SI)	S 1
Q7	2SD601R	TRANSISTOR(SI)	S 1
Q8	2SD601R	TRANSISTOR(SI)	S 1
Q9	2SD601R	TRANSISTOR(SI)	S 1
Q10	2SD601R	TRANSISTOR(SI)	S 1
Q11	PQVTKSD261CY	TRANSISTOR(SI)	S 1
Q13	2SA1627	TRANSISTOR(SI)	1
Q14	2SD601R	TRANSISTOR(SI)	S 1
Q16	2SD601R	TRANSISTOR(SI)	S 1
Q18	2SD601R	TRANSISTOR(SI)	S 1
Q19	2SD601R	TRANSISTOR(SI)	S 1
Q21	2SD601R	TRANSISTOR(SI)	S 1
Q22	2SD601R	TRANSISTOR(SI)	S 1
Q23	2SD601R	TRANSISTOR(SI)	S 1
Q24	2SC2295	TRANSISTOR(SI)	S 1
Q25	2SC2295	TRANSISTOR(SI)	S 1
Q26	2SC2295	TRANSISTOR(SI)	S 1
Q27	2SD601R	TRANSISTOR(SI)	S 1
Q28	2SB1322	TRANSISTOR(SI)	1
Q29	2SC34210	TRANSISTOR(SI) [or 2SC3421]	1
Q30	2SB709A	TRANSISTOR(SI)	S 1
Q32	2SD601R	TRANSISTOR(SI)	S 1
Q33	2SD601R	TRANSISTOR(SI)	S 1
Q34	2SB709A	TRANSISTOR(SI)	S 1
Q35	2SD601R	TRANSISTOR(SI)	S 1
Q36	2SD1994A	TRANSISTOR(SI)	1
Q37	2SD2136	TRANSISTOR(SI)	1
Q39	2SC1740S	TRANSISTOR(SI) [or 2SC3330 or 2SC3311]	1
Q40	2SA933	TRANSISTOR(SI) [or 2SA1317 or 2SA1309]	1
(DIODES)			
D1	1SS238	DIODE(SI)	1
D2	1SS238	DIODE(SI)	1
D6	MA4030	DIODE(SI)	S 1
D7	MA4270	DIODE(SI)	S 1
D8	PQVDS1ZB40F1	DIODE(SI)	1
D9	PQVDS1ZB40F1	DIODE(SI)	1
D10	MA4033	DIODE(SI)	S 1
D11	1SS131	DIODE(SI) [or 1SS119] [or 1SS133 or 1SS120 or MA165]	S 1
D14	PQVD1SV149	DIODE(SI)	1
D15	PQVD1SV149	DIODE(SI)	1
D16	1SS131	DIODE(SI) [or 1SS119] [or 1SS133 or 1SS120 or MA165]	S 1
D17	1SS131	DIODE(SI) [or 1SS119] [or 1SS133 or 1SS120 or MA165]	S 1
D18	1SS131	DIODE(SI) [or 1SS119] [or 1SS133 or 1SS120 or MA165]	S 1
D20	1SS131	DIODE(SI) [or 1SS119] [or 1SS133 or 1SS120 or MA165]	S 1
D22	MA700A	DIODE(SI)	S 1
D23	1SS131	DIODE(SI) [or 1SS119] [or 1SS133 or 1SS120 or MA165]	S 1
D24	MA4056	DIODE(SI)	S 1
D25	1SS131	DIODE(SI) [or 1SS119] [or 1SS133 or 1SS120 or MA165]	S 1
D26	1SS131	DIODE(SI) [or 1SS119] [or 1SS133 or 1SS120 or MA165]	S 1
D27	MA4068	DIODE(SI)	S 1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
D28	MA4110	DIODE(SI)	S 1			(OTHERS)	
D30	MA4110	DIODE(SI)	S 1	RLY1	PQSL107Z	RELAY	△ 1
D31	1SS131	DIODE(SI) [or 1SS119]	S 1	SA1	PQVDRA311PT2	VARISTOR	1
		[or 1SS133 or 1SS120 or MA165]		CF1	PQVFCFW455G1	CERAMIC FILTER	1
D32	1SS131	DIODE(SI) [or 1SS119]	S 1	E101	PQJT10007Z	CHARGE TERMINAL	3
		[or 1SS133 or 1SS120 or MA165]		E102	PQJM124Z	MICROPHONE	1
D35	LN322GPH	LED	S 1	E103	PQJ2HB1Z	JACK, TELEPHONE LINE, DC IN	1
D36	LN222RPH	LED	1			(CN1)	
		(SWITCHES)				(RESISTORS)	
S1	PQSS2A27W	SWITCH, DIALING MODE	1	R1	PQ4R10XJ821	820	1
S2	PQSS2A27W	SWITCH, RECALL	1	R2	PQ4R10XJ470	47	1
S3	EVQQJJ05Q	SWITCH, PAGE/INTERCOM	1	R3	PQ4R10XJ470	47	1
		(VARIABLE RESISTORS)		R4	PQ4R10XJ334	330K	1
VR1	EVNDXAA03B35	VARIABLE RESISTOR, 300kΩ	1	R5	PQ4R10XJ272	2.7K	1
VR2	EVNDXAA03B15	VARIABLE RESISTOR, 100kΩ	1	R6	PQ4R10XJ272	2.7K	1
VR3	EVNDXAA03B15	VARIABLE RESISTOR, 100kΩ	1	R7	PQ4R10XJ102	1K	1
		(CRYSTALS)		R8	PQ4R10XJ562	5.6K	1
X1-3	PQVCJ3678N9	CRYSTAL OSCILLATOR	1	R9	PQ4R10XJ224	220K	1
X1-4	PQVCJ3679N9	CRYSTAL OSCILLATOR	1				
X2-5	PQVCJ3680N9	CRYSTAL OSCILLATOR	1	R10	PQ4R10XJ470	47	1
X2-6	PQVCJ3681N9	CRYSTAL OSCILLATOR	1	R11	PQ4R10XJ222	2.2K	1
X3	PQVCJ10245N9	CRYSTAL OSCILLATOR	1	R12-17	Not Used		
X4-3	PQVBA1.682K1	CRYSTAL OSCILLATOR	1	R18	PQ4R10XJ103	10K	1
X4-4	PQVBA1.702K1	CRYSTAL OSCILLATOR	1	R19	PQ4R10XJ123	12K	1
X5-5	PQVBA1.722K1	CRYSTAL OSCILLATOR	1				
X5-6	PQVBA1.742K1	CRYSTAL OSCILLATOR	1	R20	PQ4R10XJ120	12	1
X6	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	S 1	R21	PQ4R10XJ470	47	1
MCF1	PQVCM107M7.5	CRYSTAL OSCILLATOR	1	R22	PQ4R10XJ104	100K	1
		(COILS AND TRANSFERMER)		R23	PQ4R10XJ104	100K	1
T1	PQLA7A17	COIL	1	R24	PQ4R10XJ104	100K	1
T2	PQLA7A7	COIL	1	R25	PQ4R10XJ105	1M	1
T3	PQLI4B901	I.F. TRANSFERMER	1	R26	PQ4R10XJ822	8.2K	1
T4	PQLA2B7	COIL	1	R27	PQ4R10XJ223	22K	1
L1	PQLQZK1R8M	COIL	1	R28	PQ4R10XJ154	150K	1
L2	PQLQZMR22K	COIL	1	R29	PQ4R10XJ563	56K	1
L3	PQLI2B201	I.F. TRANSFORMER	S 1				
L4	PQLA2B5	COIL	1	R30	PQ4R10XJ563	56K	1
L5	PQLA2B5	COIL	1	R31	PQ4R10XJ470	47	1
L6	PQLQZK101K	COIL	S 1	R32	PQ4R10XJ470	47	1
L7	PQLQZK8R2K	COIL	1	R33	Not Used		
L8	PQLQZK330K	COIL	1	R34	Not Used		
L9	PQLA2B6	COIL	1	R35	PQ4R10XJ472	4.7K	1
L10	ELEPK330KA	COIL	1	R36	PQ4R10XJ562	5.6K	1
L11	ELEPK330KA	COIL	S 1	R37	PQ4R10XJ223	22K	1
L300	PQLQZM1R0K	COIL	S 1	R38	PQ4R10XJ474	470K	1
L301	PQLQZM1R0K	COIL	1	R39	PQ4R10XJ104	100K	1
		(PHOTO COUPLERS)		R40	PQ4R10XJ223	22K	1
PC1	PQVIPC814Y	PHOTO ELECTRIC TRANSDUCERS	△ 1	R41	PQ4R10XJ682	6.8K	1
PC2	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCERS	△ 1	R42	PQ4R10XJ682	6.8K	1
PC3	PQVITLP627	PHOTO ELECTRIC TRANSDUCERS	△ 1	R43	PQ4R10XJ222	2.2K	1
PC4	PQVITLP631K	PHOTO ELECTRIC TRANSDUCERS	△ 1	R44	PQ4R10XJ681	680	1
PC5	PQVITLP631K	PHOTO ELECTRIC TRANSDUCERS	△ 1	R45	PQ4R10XJ684	680K	1
				R46	ERDS2TJ103	10K	1
				R47	PQ4R10XJ103	10K	1
				R48	PQ4R10XJ152	1.5K	1
				R49	PQ4R10XJ271	270	1
				R50	PQ4R10XJ823	82K	1
				R51	ERDS2TJ102	1K	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
R52	Not Used			R121	PQ4R10XJ153	15K	1
R53	ERDS2TJ102	1K	1	R122	PQ4R10XJ123	12K	1
R54	ERDS2TJ220	22	1	R123	PQ4R10XJ563	56K	1
R55	PQ4R10XJ105	1M	1	R124	Not Used		
R56	PQ4R10XJ103	10K	1	R125	Not Used		
R57	ERDS2TJ101	100	1	R126	PQ4R18XJ683	68K	1
R58	ERDS2TJ120	12	1	R127	PQ4R10XJ181	180	1
				R128	PQ4R10XJ224	220K	1
R60	PQ4R10XJ223	22K	1	R129	PQ4R10XJ122	1.2K	1
R61	PQ4R10XJ222	2.2K	1				
R62	PQ4R10XJ123	12K	1	R130	PQ4R10XJ102	1K	1
R63	PQ4R10XJ683	68K	1	R131	PQ4R10XJ472	4.7K	1
R64	PQ4R10XJ391	390	1	R132	PQ4R10XJ473	47K	1
R65	ERDS2TJ682	6.8K	1	R133	PQ4R10XJ563	56K	1
R66	Not Used			R134	PQ4R10XJ153	15K	1
R67	ERDS2TJ392	3.9K	1	R135	PQ4R18XJ104	100K	1
R68	ERDS2TJ152	1.5K	1	R136	PQ4R10XJ471	470	1
R69	ERDS2TJ471	470	1	R137	PQ4R18XJ102	1K	1
				R138	PQ4R10XJ472	4.7K	1
R70	ERDS2TJ222	2.2K	1	R139	PQ4R10XJ473	47K	1
R71	ERDS2TJ150	15	1				
R72-76	Not Used			R140	PQ4R10XJ563	56K	1
R77	ERDS2TJ104	100K	1	R141	PQ4R10XJ153	15K	1
R78	ERDS2TJ472	4.7K	1	R142	PQ4R18XJ104	100K	1
R79	ERDS2TJ101	100	1	R143	PQ4R10XJ471	470	1
				R144	PQ4R18XJ102	1K	1
R80	ERDS2TJ223	22K	1	R145	PQ4R10XJ473	47K	1
R81	PQ4R10XJ332	3.3K	1	R146	PQ4R10XJ470	47	1
R82	Not Used			R147	PQ4R10XJ473	47K	1
R83	Not Used			R148	PQ4R10XJ563	56K	1
R84	PQ4R10XJ103	10K	1	R149	PQ4R10XJ103	10K	1
R85	Not Used						
R86	Not Used			R150	PQ4R10XJ224	220K	1
R87	PQ4R10XJ332	3.3K	1	R151	PQ4R10XJ103	10K	1
R88	PQ4R10XJ152	1.5K	1	R152	ERDS1TJ330	33	1
R89	ERJ3GEYJ121	120	1	R153	PQ4R10XJ102	1K	1
				R154	PQ4R10XJ473	47K	1
R90	PQ4R10XJ223	22K	1	R155	PQ4R10XJ473	47K	1
R91	PQ4R10XJ154	150K	1	R156	PQ4R10XJ682	6.8K	1
R92	PQ4R10XJ222	2.2K	1	R157	Not Used		
R93	PQ4R10XJ224	220K	1	R158	PQ4R10XJ822	8.2K	1
R94	PQ4R10XJ683	68K	1				
R95	ERJ3GEYJ684	680K	1	R160	PQ4R10XJ000	0	1
R96	Not Used			R161	Not Used		
R97	PQ4R10XJ151	150	1	R162	ERDS2TJ680	68	1
R98	PQ4R10XJ104	100K	1	R163	PQ4R10XJ104	100K	1
R99	PQ4R10XJ104	100K	1	R164	PQ4R10XJ473	47K	1
				R165	PQ4R10XJ104	100K	1
R100	PQ4R10XJ473	47K	1	R166	PQ4R10XJ104	100K	1
R101	Not Used			R167	PQ4R10XJ822	8.2K	1
R102	Not Used			R168	PQ4R10XJ102	1K	1
R103	PQ4R10XJ103	10K	1	R169	PQ4R10XJ683	68K	1
R104	Not Used						
R105	PQ4R18XJ470	47	1	R170	PQ4R10XJ274	270K	1
R106	PQ4R10XJ683	68K	1	R171	PQ4R10XJ333	33K	1
R107	PQ4R10XJ823	82K	1	R172	PQ4R10XJ392	3.9K	1
R108	PQ4R10XJ153	15K	1	R173	PQ4R10XJ822	8.2K	1
R109	PQ4R10XJ273	27K	1	R174	PQ4R10XJ104	100K	1
				R176	PQ4R10XJ104	100K	1
R110	PQ4R10XJ104	100K	1	R177	PQ4R10XJ104	100K	1
R111	PQ4R10XJ104	100K	1	R178	PQ4R10XJ104	100K	1
R112	PQ4R10XJ334	330K	1	R179	PQ4R10XJ104	100K	1
R113	PQ4R10XJ224	220K	1				
R114	PQ4R10XJ224	220K	1	R180	PQ4R10XJ104	100K	1
R115	PQ4R10XJ333	33K	1	R181	PQ4R10XJ104	100K	1
R116	PQ4R18XJ103	10K	1	R182	PQ4R10XJ473	47K	1
R117	PQ4R10XJ104	100K	1	R183	PQ4R10XJ473	47K	1
R118	PQ4R10XJ103	10K	1	R184	PQ4R10XJ824	820K	1
R119	PQ4R10XJ103	10K	1	R185	PQ4R10XJ104	100K	1
				R186	PQ4R10XJ104	100K	1
R120	PQ4R10XJ153	15K	1	R187	PQ4R10XJ102	1K	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
R188	PQ4R10XJ102	1K	1			(CAPACITORS)	
R190	PQ4R10XJ103	10K	1	C1	PQCUV1H150JC	15P	1
R191	PQ4R10XJ473	47K	1	C2	PQCUV1H070DC	7P	1
R192	PQ4R10XJ332	3.3K	1	C3	PQCUV1H103KB	0.01	1
R193	ERDS2TJ101	100	1	C4	PQCUV1H470JC	47P	1
R194	ERDS2TJ104	100K	1	C5	PQCUV1H560JC	56P	1
R195	Not Used			C6	PQCUV1H101JC	100P	1
R196	PQ4R10XJ332	3.3K	1	C7	PQCUV1H103KB	0.01	1
R197	PQ4R10XJ473	47K	1	C8	PQCUV1H103KB	0.01	1
R198	Not Used			C9	PQCUV1H103KB	0.01	1
R199	PQ4R10XJ332	3.3K	1	C10	PQCUV1H103KB	0.01	1
R200	PQ4R10XJ102	1K	1	C11	PQCUV1H103KB	0.01	1
R201	PQ4R10XJ821	820	1	C12	PQCUV1H100DC	10P	1
R202	Not Used			C13	PQCUV1H103KB	0.01	1
R203	Not Used			C14	PQCUV1H223KB	0.022	S 1
R204	ERDS2TJ821	820	1	C15	PQCUV1H103KB	0.01	1
R205	Not Used			C16	ECUV1H103KB	0.01	1
R206	PQ4R18XJ100	10	1	C22	PQCUV1H392KB	3900P	1
R207	PQ4R10XJ100	10	1	C23	PQCUV1H470JC	47P	1
R208	PQ4R10XJ103	10K	1	C24	PQCUV1H151JC	150P	1
R209	PQ4R10XJ273	27K	1	C25	PQCUV1H103KB	0.01	1
R211	ERDS2TJ123	12K	1	C26	PQCUV1H103KB	0.01	1
R212	PQ4R10XJ104	100K	1	C27	PQCUV1E104MD	0.1	1
R213	Not Used			C28	PQCUV1H103KB	0.01	1
R214	PQ4R18XJ154	150K	1	C29	ECEA1CK101	100	S 1
R300	ERDS2TJ123	12K	1	C32	ECEA1HKS010	1	S 1
J2-13, J15,16, J115	PQ4R10XJ000	Chip Jumper, 0Ω	15	C33	ECEA1CK101	100	S 1
J14, J50-52, J54-57, J60	PQ4R18XJ000	Chip Jumper, 0Ω	9	C34	PQCUV1E104MD	0.1	S 1
				C35	PQCUV1C683MD	0.068	S 1
				C36	PQCUV1H332KB	3300P	1
				C37	ECUV1H104MD	0.1	S 1
				C38	PQCUV1H223KB	0.022	S 1
				C39	PQCUV1H223KB	0.022	S 1
				C40	PQCUV1H223KB	0.022	S 1
				C41	ECEA1CK101	100	S 1
				C42	ECEA1CK101	100	S 1
				C43	PQCUV1H821JC	820P	1
				C45	PQCUV1H332KB	3300P	1
				C46	ECEA1HKS010	1	S 1
				C47	ECEA1EKS330	33	S 1
				C48	ECEA1HKS010	1	S 1
				C49	PQCUV1E473MD	0.047	1
				C50	ECEA1EK470	47	S 1
				C51	Not Used		
				C52	ECEA1AU471	470	1
				C53	PQCUV1E104MD	0.1	1
				C54	ECUV1H473MD	0.047	S 1
				C55	ECQV1H224JZ	0.22	1
				C56	ECKDKC472KB	4700P	1
				C57	ECKD2H681KB	680P	S 1
				C58	ECKD2H681KB	680P	S 1
				C60	PQCUV1C683MD	0.068	1
				C61	PQCUV1C683MD	0.068	1
				C62	Not Used		
				C63	PQCUV1C683MD	0.068	1
				C64	Not Used		
				C65	ECEA1CKS220	22	S 1
				C66	PQCUV1H151JC	150P	1
				C67	PQCUV1H562KB	5600P	1
				C68	PQCUV1H103KB	0.01	1
				C69	ECEA1CKS100	10	S 1
				C70	ECUV1H683MD	0.068	S 1
				C71	Not Used		
				C72	PQCUV1H103KB	0.01	1



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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
C73	ECEA1HKS4R7	4.7	S 1	C138	PQCUV1H221JC	220P	1
C74	PQCUV1H223KB	0.022	S 1	C139	PQCUV1H102J	1000P	1
C75	PQCUV1H221JC	220P	1				
C76	ECEA1CKS100	10	S 1	C140	ECEA1CK101	100	1
C77	ECEA1HKS4R7	4.7	S 1	C141	Not Used		
C78	PQCUV1E104MD	0.1	1	C142	PQCUV1H103KB	0.01	1
C79	PQCUV1E104MD	0.1	1	C143	PQCUV1H181JC	180P	1
				C144	PQCUV1H103KB	0.01	1
C80	PQCUV1H471JC	470P	1	C145	ECEA1HKS0R1	0.1	S 1
C81	PQCUV1H103KB	0.01	1	C146	Not Used		
C82	ECEA0JK221	220	1	C147	PQCUV1E104MD	0.1	1
C83	PQCUV1H103KB	0.01	1				
C84	PQCUV1E104MD	0.1	1	C300	PQCUV1H103KB	0.01	1
C85	ECEA1HKS010	1	S 1	C301	PQCBC1C103MY	0.01	1
C86	PQCUV1C683MD	0.068	1	C302	PQCUV1H103KB	0.01	1
C87	PQCUV1H102J	1000P	1	C303	PQCUV1H101JC	100P	1
C88	PQCUV1H390JC	39P	1	C304	ECUV1H103KBV	0.01	1
C89	PQCUV1H821JC	820P	1				
C90	PQCUV1H102J	1000P	1				
C91	PQCUV1H471JC	470P	1				
C92	PQCUV1E104MD	0.1	1				
C93	PQCUV1C683MD	0.068	1				
C94	PQCUV1H102J	1000P	1				
C95	PQCUV1H390JC	39P	1				
C96	PQCUV1H102J	1000P	1				
C97	PQCUV1H821JC	820P	1				
C98	PQCUV1H471JC	470P	1				
C99	PQCUV1E104MD	0.1	1				
C100	ECEA1EK470	47	S 1				
C101	PQCUV1E104MD	0.1	1				
C102	PQCUV1H103KB	0.01	1				
C103	ECEA1EK470	47	1				
C104	PQCUV1E104MD	0.1	1				
C105	Not Used						
C106	Not Used						
C107	ECEA1HKS010	1	S 1				
C108	ECEA1HKS010	1	S 1				
C109	PQCUV1H103KB	0.01	1				
C110	ECEA1AU221	220	1				
C111	PQCUV1H103KB	0.01	1				
C112	PQCUV1H471JC	470P	1				
C113	ECEA1EU4R7	4.7	1				
C114	ECEA1HKS010	1	S 1				
C115	PQCUV1C224ZF	0.22	1				
C116	PQCUV1H223KB	0.022	S 1				
C117	PQCUV1E473MD	0.047	S 1				
C118	PQCUV1E104MD	0.1	S 1				
C119	PQCUV1H220JC	22P	1				
C120	PQCUV1H220JC	22P	1				
C121	PQCUV1H103KB	0.01	1				
C122	ECEA0JU102	1000	1				
C123	PQCUV1H223KB	0.022	S 1				
C124	PQCUV1E104MD	0.1	1				
C125	ECEA0JU102	1000	1				
C126	ECEA0JU102	1000	1				
C127	PQCUV1H103KB	0.01	1				
C128	ECEA1EK470	47	S 1				
C129	PQCUV1H103KB	0.01	1				
C130	ECEA1EU101	100	1				
C131	Not Used						
C132	Not Used						
C133	Not Used						
C134	PQCUV1H103KB	0.01	1				
C135	PQCUV1E333MD	0.033	1				
C136	PQCUV1H152KB	1500P	1				
C137	PQCUV1H332KB	3300P	1				

This replacement parts list is for U.K. version only. Refer to the simplified manual (cover) for other areas.

## REPLACEMENT PARTS LIST

### KX-T3846ER/KX-T3856ER

**1. RTL (Retention Time Limited)**

Note: The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

**2. Important safety notice**

Components identified by the  $\Delta$  mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

3. The S mark indicates service standard parts and may differ from production parts.

**4. RESISTORS & CAPACITORS**

Unless otherwise specified. All resistors are in ohms ( $\Omega$ ) K=1000 $\Omega$ , M=1000K $\Omega$ . All capacitors are in MICRO FARADS ( $\mu$ F) P= $\mu$  $\mu$ F

\*Type & Wattage of Resistor

Type

ERC:Solid	ERX: Metal Film	PQ4R: Carbon
ERD: Carbon	ERG: Metal Oxide	ERS: Fusible Resistor
PQRD: Carbon	ER0: Metal Film	ERF: Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W
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\*Type & Voltage of Capacitor

Type

ECFD: Semi-Conductor	ECED, ECKD, ECBT, PQCBC : Ceramic
ECQS: Styrol	ECQE, ECQV, ECQG : Polyester
PQCUV: Chip	ECEA, ECSZ : Electrolytic
ECQMS: Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG Type	ECV Type	Others		
1H: 50V	05: 50V	0F: 3.15V	0J :.63V	1V- :35V	
2A: 100V	1: 100V	1A: 10V	1A :10V	50, 1H: 50V	
2E: 250V	2: 200V	1V: 35V	1C :16V	1J :.63V	
2H: 500V		0J: 6.3V	1E, 25: 25V	2A :100V	

Ref. No.	Part No.	Part Name & Description	Pcs/Set
<b>CABINET &amp; ELECTRICAL PARTS</b>			
201	PQAX3P12Z	SPEAKER	1
202	PQGT10968Z	NAME PLATE [KX-T3846E Only]	1
202	PQGT10843Z	NAME PLATE [KX-T3856E Only]	1
203	PQSA10017Z	ANTENNA	S 1
204	PQBC10021Z1	BUTTON, PROGRAM [KX-T3846E Only]	1
204	PQBC10021Z3	BUTTON, PAGE [KX-T3856E Only]	1
205	PQBC10020Z7	BUTTON, TALK [KX-T3846E Only]	1
205	PQBC10043Y3	BUTTON, TALK [KX-T3856E Only]	1
206	PQBD10006Z1	KNOB, VOLUME [KX-T3846E Only]	1
206	PQBD10006Z2	KNOB, VOLUME [KX-T3856E Only]	1
207	PQBD10007Z1	KNOB, CHANNEL	1
208	PQBD10008Z1	KNOB, POWER	1
209	PQBX10026Z1	BUTTON, AUTO, RECALL etc. [KX-T3846E Only]	1
209	PQBX10026Z2	BUTTON, AUTO, RECALL etc. [KX-T3856E Only]	1
210	PQGD10030S	MEMORY CARD [KX-T3846E Only]	1
210	PQGD10030T	MEMORY CARD [KX-T3856E Only]	1
211	PQGP10007R	PANEL [KX-T3846E Only]	1
211	PQGP10007Q	PANEL [KX-T3856E Only]	1
212	PQHR9736Z	TRANSPARENT PLATE	1
213	PQKK10005Z1	BATTERY COVER [KX-T3846E Only]	1
213	PQKK10005Z2	BATTERY COVER [KX-T3856E Only]	1
214	PQKM10036V7	UPPER CABINET [KX-T3846E Only]	1
214	PQKM10036W3	UPPER CABINET [KX-T3856E Only]	1
215	PQSX10002X	BUTTON, DIALING 12KEY	1
216	PQYF10015U1	LOWER CABINET [KX-T3846E Only]	1
216	PQYF10015U2	LOWER CABINET [KX-T3856E Only]	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
217	KX-A36A	(SECONDARY) BATTERY	1
218	PQLF217	FERRITE ANTENNA COIL	1
<b>PRINTED CIRCUIT PARTS</b>			
PCB200	PQWPT3846ER	P. C. BOARD ASS'Y (RTL) [KX-T3846E Only]	1
PCB200	PQWPT3856ER	P. C. BOARD ASS'Y (RTL) [KX-T3856E Only]	1
<b>(ICS)</b>			
IC1	PQVIMC3361D	IC	1
IC2	AN6165K	IC	1
IC3	PQVINJM4558M	IC	1
IC100	PQVI006G675	IC	1
IC101	PQVIPD4069G	IC	S 1
IC102	PQVISC78184D	IC	1
<b>(TRANSISTORS)</b>			
Q1	2SD601R	TRANSISTOR(SI) [or 2SC2412]	S 1
Q2	2SC2295	TRANSISTOR(SI) [or 2SC2413]	S 1
Q3	2SC2295	TRANSISTOR(SI) [or 2SC2413]	S 1
Q4	2SC2295	TRANSISTOR(SI) [or 2SC2413]	S 1
Q100	2SB709A	TRANSISTOR(SI) [or 2SA1162 or 2SA1037]	S 1
Q101	2SB709A	TRANSISTOR(SI) [or 2SA1162 or 2SA1037]	S 1
Q102	2SD601A	TRANSISTOR(SI) [or 2SC2412 or 2SC2712]	S 1
Q103	XN4116	TRANSISTOR(SI)	1
Q104	XN4116	TRANSISTOR(SI)	1
Q105	2SD601A	TRANSISTOR(SI) [or 2SC2412 or 2SC2712]	S 1
Q203	2SD601R	TRANSISTOR(SI) [or 2SC2412 or 2SC2712]	S 1
<b>(DIODES)</b>			
D1	1SS238	DIODE(SI)	1
D2	1SS238	DIODE(SI)	1
D3	1SS238	DIODE(SI)	1
D4	1SS131	DIODE(SI)	S 1
D5	1SS238	DIODE(SI)	1
D6	1SS238	DIODE(SI)	1
D7	PQVD1SV145	DIODE(SI)	1
D8	PQVD1SV145	DIODE(SI)	1
D9	MA4030	DIODE(SI)	S 1
D10	MA4030	DIODE(SI)	S 1
D11	1SS131	DIODE(SI)	S 1
D100	MA700A	DIODE(SI)	S 1
D101	LN322GPH	LED	1
D102	LN322GPH	LED	1
D103	LN230RPX	LED	1
D104	1SS131	DIODE(SI) [KX-T3846E only]	S 1
D106	1SS131	DIODE(SI)	S 1
D107	1SS131	DIODE(SI) [KX-T3856E only]	S 1
D109	LN363GPPKU	LED	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
D110	LN363GPPKU	LED	1			(COILS AND TRANSFORMER)	
D111	LN363GPPKU	LED	1	L1	PQL07A3	COIL	1
D112	LN363GPPKU	LED	1	L2	PQL07A3	COIL	1
D200	MA4068	DIODE(SI)	S 1	L3	PQLI2B201	I.F. TRANSFORMER	1
D201	1SS131	DIODE(SI)	S 1	L100	PQLQZM100K	COIL	1
D202	1SS131	DIODE(SI)	S 1	L101	PQLQZM220K	COIL	1
D203	1SS131	DIODE(SI)	S 1	T1	EIR7QF022A	TRANSFORMER	1
D300	1SS131	DIODE(SI)	S 1	T2	PQLA7A7	COIL	1
D301	PQVDHZ3BLL	DIODE(SI)	1	T3	PQLA7A7	COIL	1
		(SWITCHES)				(OTHERS)	
S100	ESD11H120	SWITCH, VOLUME	S 1	W1	WBX15SH-4SS	LEAD WIRE	1
S101	ESD11H120	SWITCH, POWER/RINGER	S 1	W2	WBJ4SH-5SS	LEAD WIRE	1
S102	EVQJ05Q	SWITCH, TALK	S 1	E201	PQEFBQM111G1	BUZZER	S 1
S103	PQSH1A44Z	SWITCH, CHANNEL	1	E202	PQHR10121Z	LED SPACER	1
S104	EVQ21005G	SWITCH, PROGRAM	S 1	E203	PQJM124Z	MICROPHONE	1
S105	EVQ21005G	SWITCH, INTERCOM	S 1	E204	PQJT10008Z	CHARGE TERMINAL	3
S106	EVQ21005G	SWITCH, REDIAL	S 1	E205	PQPJ2D59Z	CONNECTOR (CN101)	1
S108	EVQ21005G	SWITCH, RECALL	S 1			(RESISTORS)	
S109	EVQ21005G	SWITCH, AUTO	S 1	R1	PQ4R10XJ000	0	1
S110	EVQ21005G	SWITCH, MERCURY	S 1	R2	PQ4R10XJ184	180K	1
		(VARIABLE RESISTORS)		R3	PQ4R10XJ104	100K	1
VR1	EVNDXAA03B15	VARIABLE RESISTOR, 100kΩ	1	R4	ERJ3GEYJ563	56K	1
VR2	EVNDXAA03B15	VARIABLE RESISTOR, 100kΩ	1	R5	Not Used		
VR3	EVNDXAA03B15	VARIABLE RESISTOR, 100kΩ	1	R6	ERJ3GEYJ390	39	1
VR4	EVNDXAA03B54	VARIABLE RESISTOR, 150kΩ	1	R7	ERJ3GEYJ473	47K	1
		(CRYSTALS AND CERAMIC FILTERS)		R8	ERJ3GEYJ331	330	1
X1-3	PQVBA2.137G1	CRYSTAL OSCILLATOR	1	R9	ERJ3GEYJ182	1.8K	1
X1-4	PQVBA2.157G1	CRYSTAL OSCILLATOR	1	R10	ERJ3GEYJ102	1K	1
X2-5	PQVBA2.177G1	CRYSTAL OSCILLATOR	1	R11	ERJ3GEYJ182	1.8K	1
X2-6	PQVBA2.197G1	CRYSTAL OSCILLATOR	1	R12	ERJ3GEYJ102	1K	1
X3-3	PQVCJ15.827N	CRYSTAL OSCILLATOR	1	R13	ERJ3GEYJ103	10K	1
X3-4	PQVCJ15.831N	CRYSTAL OSCILLATOR	1	R14	ERJ3GEYJ000	0'	1
X4-5	PQVCJ15.835N	CRYSTAL OSCILLATOR	1	R15	Not Used		
X4-6	PQVCJ15.839N	CRYSTAL OSCILLATOR	1	R16	PQ4R10XJ564	560K	1
X100	PQVBB1216J	CERAMIC FILTER	1	R17	PQ4R10XJ223	22K	1
X101	PQVCL3276N9Z	CRYSTAL OSCILLATOR	1	R18	PQ4R10XJ474	470K	1
CF1	PQVFCF7455F1	CERAMIC FILTER	1	R19	PQ4R10XJ183	18K	1
		(TRIMMER CAPACITORS)		R20	PQ4R10XJ683	68K	1
VC1	ECRLA030E53	TRIMMER CAPACITOR	S 1	R21	PQ4R10XJ333	33K	1
VC2	PQCVTZ10R	TRIMMER CAPACITOR	S 1	R22	ERJ3GEYJ224	220K	1
VC3	ECRLA020E53	TRIMMER CAPACITOR	S 1	R23	ERJ3GEYJ224	220K	1
VC4	ECRLA030E53	TRIMMER CAPACITOR	S 1	R24	ERJ3GEYJ563	56K	1
VC5	ECRLA030E53	TRIMMER CAPACITOR	S 1	R25	ERJ3GEYJ104	100K	1
				R26	ERJ3GEYJ153	15K	1
				R27	PQ4R10XJ333	33K	1
				R28	PQ4R10XJ102	1K	1
				R29	PQ4R10XJ103	10K	1
				R30	ERJ3GEYJ103	10K	1
				R31	ERJ3GEYJ123	12K	1
				R32	ERJ3GEYJ223	22K	1
				R33	ERJ3GEYJ333	33K	1
				R34	ERJ3GEYJ394	390K	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
R35	PQ4R10XJ104	100K	1	R128	ERJ3GEYJ150	15	1
R36	ERJ3GEYJ332	3.3K	1	R129	ERJ3GEYJ681	680	1
R37	ERJ3GEYJ333	33K	1	R130	ERJ3GEYJ102	1K	1
R38	ERJ3GEYJ333	33K	1	R131	ERJ3GEYJ102	1K	1
R39	ERJ3GEYJ333	33K	1	R132	PQ4R10XJ104	100K	1
R40	ERJ3GEYJ223	22K	1	R133	Not Used		
R41	Not Used			R134	PQ4R10XJ472	4.7K	1
R42	ERJ3GEYJ333	33K	1	R135	PQ4R10XJ221	220	1
R43	ERJ3GEYJ333	33K	1	R136	PQ4R10XJ221	220	1
R44	PQ4R10XJ564	560K	1	R200	ERDS2TJ392	3.9K	1
R45	ERJ3GEYJ103	10K	1	R211	PQ4R10XJ332	3.3K	1
R46	ERJ3GEYJ102	1K	1	R213	PQ4R10XJ103	10K	1
R47	ERJ3GEYJ153	15K	1				
R48	ERJ3GEYJ153	15K	1	J2	PQ4R10XJ000	Chip Jumper, 0Ω	1
R49	ERJ3GEYJ153	15K	1	J4	PQ4R10XJ000	Chip Jumper, 0Ω	1
R50	ERJ3GEYJ563	56K	1	J5	PQ4R10XJ000	Chip Jumper, 0Ω	1
R51	ERJ3GEYJ682	6.8K	1	J6	PQ4R10XJ000	Chip Jumper, 0Ω	1
R52	ERJ3GEYJ154	150K	1	J102	ERJ3GEY0R00	Chip Jumper, 0Ω	1
R53	PQ4R10XJ152	1.5K	1				
R54	PQ4R10XJ224	220K	1				
R55	ERJ3GEYJ273	27K	1				
R56	PQ4R10XJ104	100K	1				
R57	PQ4R10XJ224	220K	1				
R58	ERJ3GEYJ273	27K	1				
R59	PQ4R10XJ104	100K	1				
R60	PQ4R10XJ153	15K	1				
R61	PQ4R10XJ153	15K	1				
R62	PQ4R10XJ333	33K	1				
R63	PQ4R10XJ333	33K	1				
R64	PQ4R10XJ222	2.2K	1				
R65	PQ4R10XJ222	2.2K	1				
R66	PQ4R10XJ470	47	1				
R67	PQ4R10XJ273	27K	1			(CAPACITORS)	
R68	PQ4R10XJ470	47	1	C1	PQCUV1H680JC	68P	1
R69	ERJ3GEYJ683	68K	1	C2	PQCUV1E104MD	0.1	1
R70	ERJ3GEYJ152	1.5K	1	C3	PQCUV1H103KB	0.01	1
R71	ERJ3GEYJ100	10	1	C4	Not Used		
R72	PQ4R10XJ000	0	1	C5	PQCUV1E104MD	0.1	1
R100	ERJ3GEYJ104	100K	1	C6	ECUV1H020CCV	2P	1
R101	Not Used			C7	ECUV1H221JCV	220P	1
R102	Not Used			C8	ECUV1H103KBV	0.01	1
R103	Not Used			C9	ECUV1H102KBV	0.001	1
R104	ERJ3GEYJ224	220K	1	C10	PQCUV1H101JC	100P	1
R106	ERJ3GEYJ220	22	1	C11	PQCUV1H102J	0.001	1
R107	ERJ3GEYJ681	680	1	C12	PQCUV1H101JC	100P	1
R108	PQ4R10XJ681	680	1	C13	PQCUV1H392KB	0.0039	1
R109	PQ4R10XJ152	1.5K	1	C14	ECEA1HKS010	1	1
R110	ERJ3GEYJ223	22K	1	C15	PQCUV1H152KB	0.0015	1
R111	ERJ3GEYJ223	22K	1	C16	PQCUV1H270JC	27P	1
R112	ERJ3GEYJ473	47K	1	C17	PQCUV1E104MD	0.1	1
R113	ERJ3GEYJ223	22K	1	C18	PQCUV1H330JC	33P	1
R114	ERJ3GEYJ104	100K	1	C19	PQCUV1E104MD	0.1	1
R115	PQ4R10XJ104	100K	1	C20	PQCUV1H471JC	470P	1
R116	ERJ3GEYJ822	8.2K	1	C21	PQCUV1H681JC	680P	1
R117	ERJ3GEYJ102	1K	1	C22	PQCUV1H103KB	0.01	1
R118	ERJ3GEYJ102	1K	1	C23	PQCUV1H103KB	0.01	1
R120	ERJ3GEY0R00	0	1	C24	PQCUV1E104MD	0.1	1
R121	ERJ3GEYJ104	100K	1	C25	Not Used		
R122	ERJ3GEYJ101	100	1	C26	Not Used		
R123	ERJ3GEYJ221	220	1	C27	PQCUV1E104MD	0.1	1
R124	ERJ3GEYJ102	1K	1	C28	ECEA1CKS220	22	S 1
R125	ERDS2TJ331	330	1	C29	PQCUV1H102J	0.001	S 1
R126	ERJ3GEYJ331	330	1	C30	PQCUV1E104MD	0.1	1
R127	ERJ3GEYJ101	100	1	C31	PQCUV1C683MD	0.068	S 1
				C32	PQCUV1E104MD	0.1	S 1
				C33	ECEA1HKS4R7	4.7	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set
C34	ECEA1CKS100	10	1
C35	PQCUV1H223KB	0.022	S 1
C36	PQCUV1H223KB	0.022	S 1
C37	PQCUV1H223KB	0.022	S 1
C38	ECEA1HKS010	1	1
C39	ECUV1H472KBV	0.0047	1
C40	PQCUV1E333MD	0.033	1
C41	PQCUV1C683MD	0.068	S 1
C42	PQCUV1E104MD	0.1	S 1
C43	Not Used		
C44	PQCUV1E104MD	0.1	1
C45	ECEA0JKA331	330	1
C46	ECUV1H561JCV	560P	1
C47	ECUV1H272KBV	0.0027	1
C48	PQCUV1E104MD	0.1	S 1
C49	PQCUV1E104MD	0.1	S 1
C50	ECEA1HKS010	1	1
C51	ECEA1CKS100	10	1
C52	ECEA1HKS4R7	4.7	S 1
C53	PQCUV1H223KB	0.022	1
C54	ECUV1H101JCV	100P	1
C55	ECUV1H122KBV	0.0012	1
C56	ECEA1HKS010	1	1
C57	ECEA1HKS010	1	1
C58	PQCUV1E104MD	0.1	1
C59	PQCUV1H471JC	470P	1
C60	PQCUV1H471JC	470P	1
C61	PQCUV1H101JC	100P	1
C62	PQCUV1H101JC	100P	1
C63	PQCUV1H101JC	100P	1
C64	PQCUV1H101JC	100P	1
C65	PQCUV1H103KB	0.01	1
C66	PQCUV1H050DC	5P	1
C67	ECUV1H103KBV	0.01	1
C68	PQCUV1H330JC	33P	1
C69	ECUV1H090DCV	9P	1
C70	ECUV1H121JCV	120P	1
C100	ECEA0GKS221	220	1
C101	Not Used		
C102	ECEA1CKS100	10	S 1
C103	ECUV1H332KBV	0.0033	1
C104	ECUV1H101JCV	100P	1
C105	ECUV1H101JCV	100P	1
C106	ECUV1H103KBV	0.01	1
C107	PQCUV1H180JC	18P	1
C108	PQCUV1H180JC	18P	1
C109	PQCUV1E104MD	0.1	1
C110	ECEA1HKS010	1	1
C111	ECEA0JKA331	330	1
C112	ECEA0JKS220	22	1
C113	PQCUV1H103KB	0.01	1
C114	Not Used		
C115	PQCUV1H101JC	100P	1
C150	PQCUV1E473MD	0.047	1
C204	ECUV1H103KBV	0.01	1
C205	PQCUV1H102J	0.001	1

KX-T3846E/KX-T3856E			
Ref. No.	Part No.	Part Name & Description	Pcs/Set
ACCESSORIES			
A1	KX-A14BEXE	AC ADAPTOR	1
A2	PQJA87T	TELEPHONE CORD	1
A3	PQZXT2330M	WALL MOUNT KITS	1
A4	PQQW10897Z	QUICK REFERENCE GUIDE [KX-T3846E Only]	1
A4	PQQW10696Z	QUICK REFERENCE GUIDE [KX-T3856E Only]	1
A5	PQQX10887Z	INSTRUCTION BOOK [KX-T3846E Only]	1
A5	PQQX10751Z	INSTRUCTION BOOK [KX-T3856E Only]	1
PACKING MATERIALS			
P1	PQPK10782Z	GIFT BOX [KX-T3846E Only]	1
P1	PQPK10736Z	GIFT BOX [KX-T3856E Only]	1
P2	PQPN10284Z	INNER BOX	1
P3	PQPN10285Z	ACCESSORY BOX	1
P4	PQPP10001X	PROTECTION COVER, (for Handset)	1
P5	XZB20X35A01	PROTECTION COVER (for Base Unit)	1

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