

Service Manual

and Technical Guide

Telephone Equipment

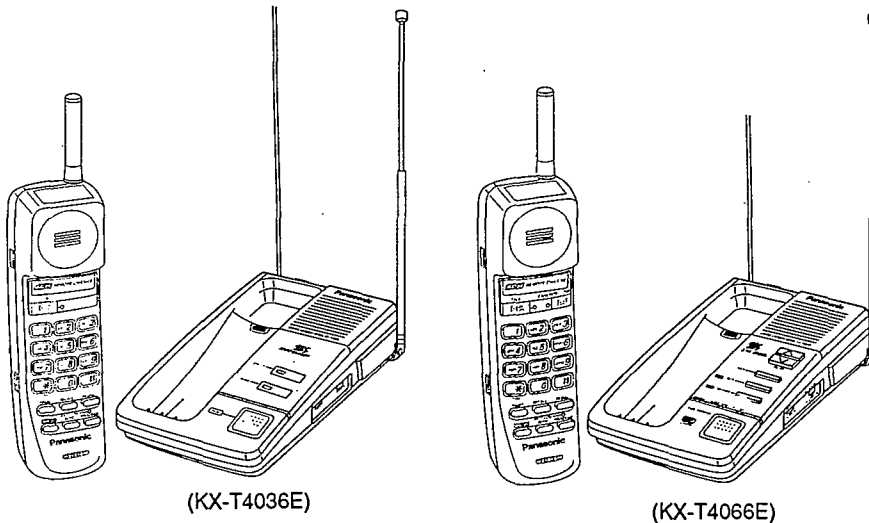
Easa-Phone
CORDLESSPHONE



KX-T4036E

KX-T4066E

(for United Kingdom)



(KX-T4036E)

(KX-T4066E)

■ SPECIFICATIONS

General

Modulation:

Base Unit: FM 2.4 kHz Deviation, Portable Handset: FM 1.5 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-A11DBEXE, Built-in	Built-in rechargeable Ni-Cd battery (PQXA36ASVC)
Receiving Frequency:	6 channel within 47.46875 to 47.53125 MHz	6 channel within 1.662 to 1.762 MHz
Adjacent Channel Rejection:	50 dB	50 dB
Sensitivity: (Transmitter Section)	1 μ V for 12 dB S/N	2 μ V for 12 dB S/N
Transmitting Frequency:	6 channel within 1.662 to 1.762 MHz	6 channel within 47.46875 to 47.53125 MHz
Jacks:	DC IN, Telephone line	
Antenna:	Telescopic, Lead Antenna	Rubber
Speaker:	5 cm (2") PM dynamic (KX-T4066E only)	3 cm (1 $\frac{3}{16}$ ") dynamic type
Microphone:	Condenser Microphone	Condenser Microphone
Dimensions (HxWxD):	60x143x230 mm (2 $\frac{1}{32}$ "x5 $\frac{5}{8}$ "x9 $\frac{1}{16}$ ")	254x56x51 mm (10"x2 $\frac{3}{16}$ "x2")
Weight:	0.88 lbs. (400 g) (KX-T4036E only) 1.1 lbs. (497 g) (KX-T4066E only)	236 g (0.52 lbs.) with battery (KX-T4036E Only) 242 g (0.53 lbs.) with battery (KX-T4066E Only)

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 all 11 digits. The serial number may be found on the label affixed to the bottom of the unit.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacture's instructions.

FOR SERVICE TECHNICIANS

ICs and LSIs are vulnerable to static electricity.

When repairing, the following precautions will help prevent recurring malfunctions.

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

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LOCATION OF CONTROLS

Base Unit

(KX-T4036EH)

(KX-T4066EH)

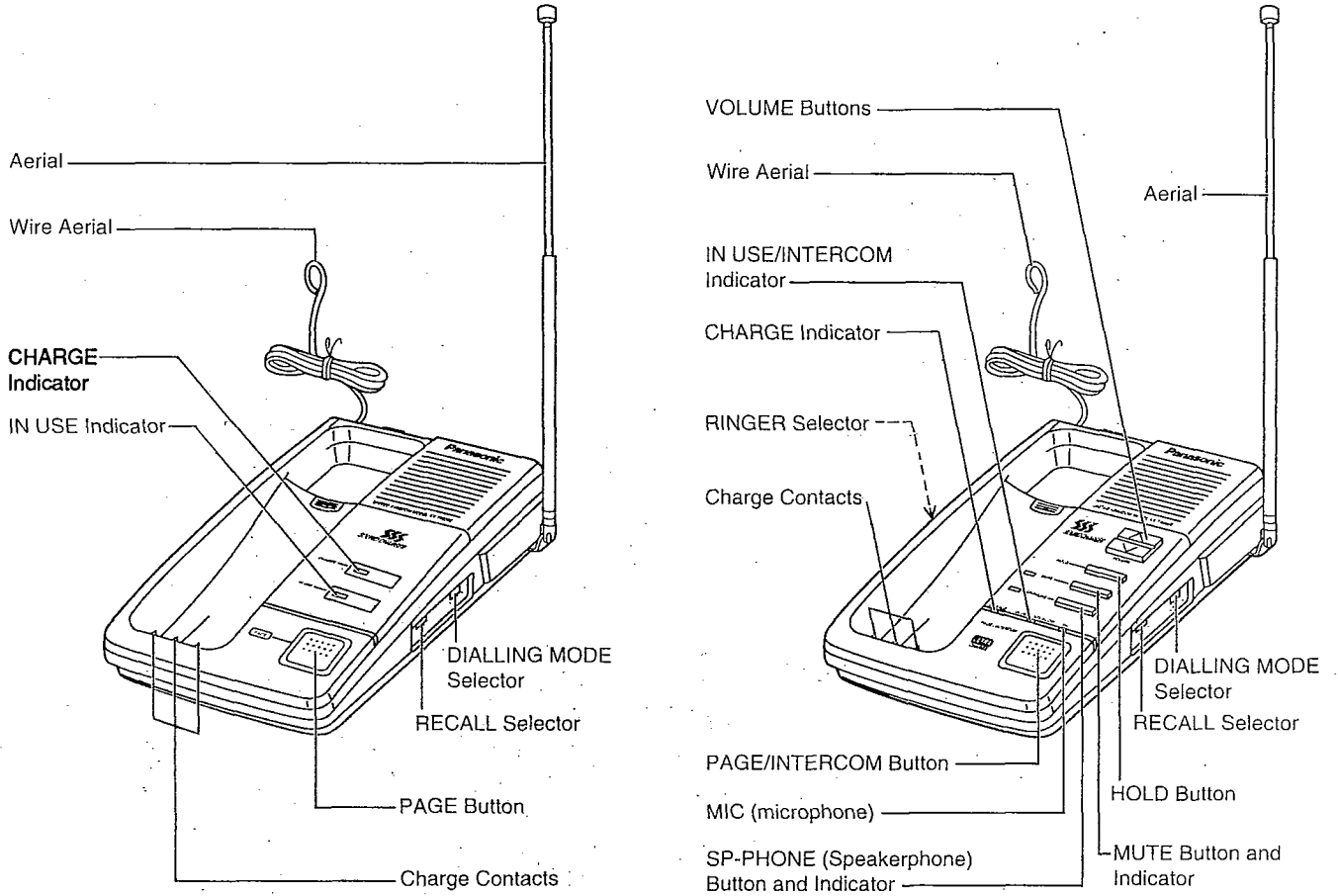


Fig. 1

Portable Handset

(KX-T4036ER)

(KX-T4066ER)

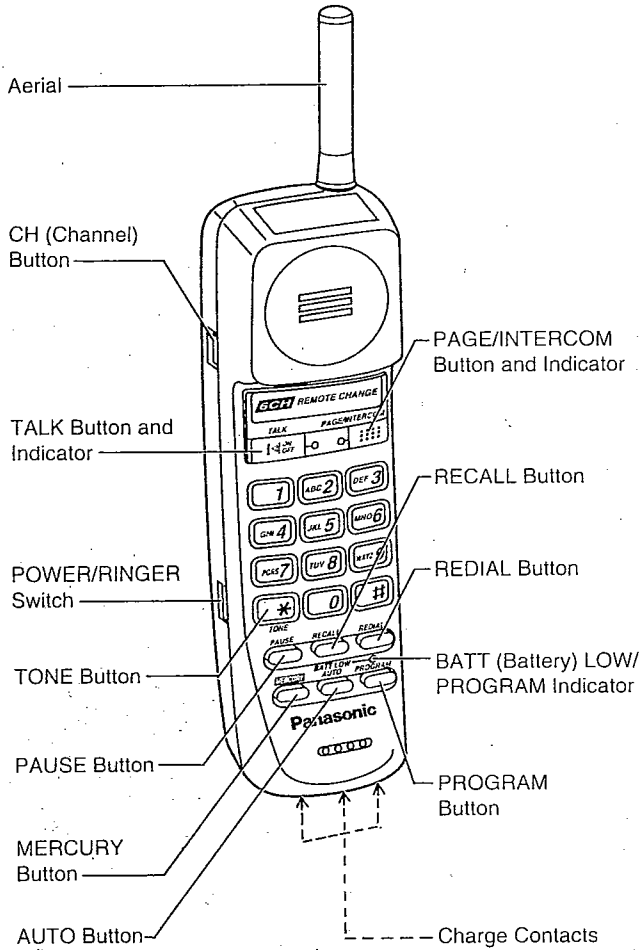
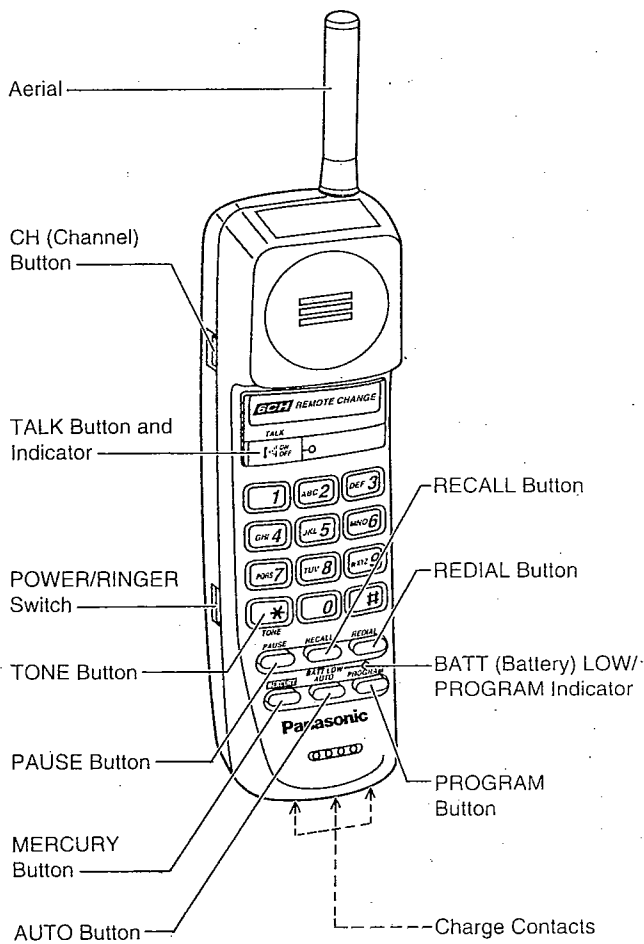
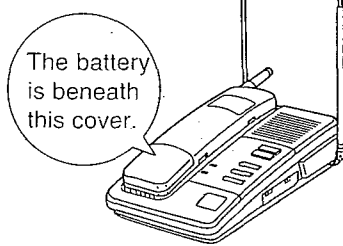


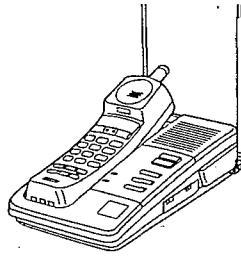
Fig. 2

BATTERY CHARGE

To power the handset, charge the battery before initial use. Place the handset on the base unit for about 3 hours. The base unit must be connected to the mains for the handset to charge.



OR

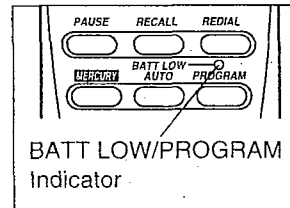


- The CHARGE indicator lights.
- The battery cannot be overcharged.
- Once the battery is fully charged, you do not have to place the handset on the base unit until the BATT LOW/PROGRAM indicator flashes.

Note:

- Clean the charge contacts with a soft cloth once a month, or the battery may not charge properly.

Recharge the battery when the BATT LOW/PROGRAM indicator flashes or beep tones sound every 15 seconds during a conversation.



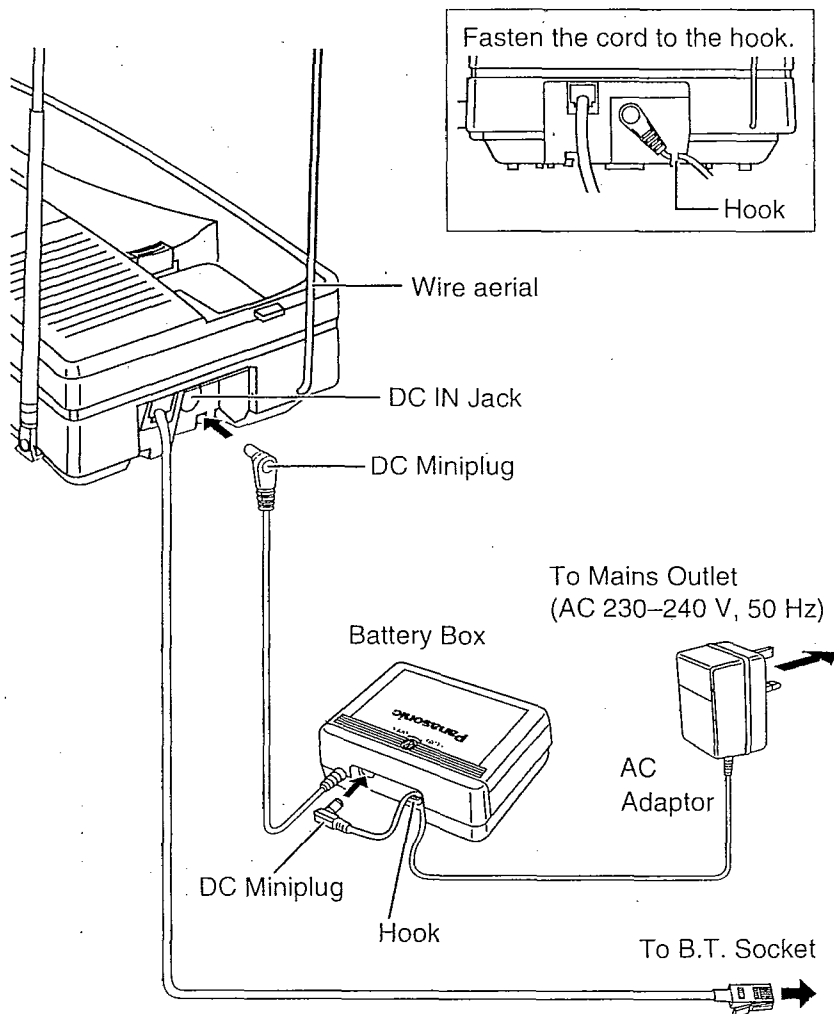
■ Standard battery life

If your Panasonic battery is fully charged, the expected usage time is:

While the phone is in use (TALK)	Up to about 7 hours
While the phone is not use (Stand-by)	Up to 14 days

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

CONNECTION



Notes:

- USE ONLY Panasonic AC ADAPTOR KX-A11DBEXE OR KX-A311E VIA BATTERY BOX KX-A91E. These must remain connected at all times.
- The AC adaptor may feel warm during use. This is normal.
- If you connect a reserve telephone on the same **line**.

CONNECTION OF POWER SUPPLY

This apparatus is intended for use when powered by the KX-A11DBE or KX-A311E via KX-A91E. Using other power supplies will invalidate any approval given to this apparatus.

Fig. 3

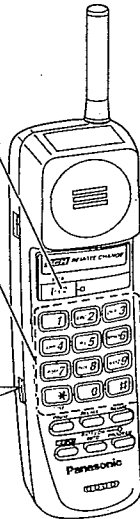
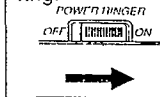
OPERATIONS

MAKING/ANSWERING CALLS

Making calls

- 1 Press **TALK** to get dial-tone. The indicator lights.
- 2 Dial a phone number.

Set to "ON", or the handset will not operate or ring.



- 3 To hang up, press **TALK** or place the handset on the base unit. The indicator light goes out.

Note:

—If alarm tone sounds when you press **TALK**, move toward the base unit or place the handset on the base unit. Then try again.

■ To redial

Press **TALK** to get dial tone, then press **REDIAL**. The last dialed number is automatically redialed.

■ If noise interferes with conversation

Press **CH** to select another of the 6 available channels.

—If the handset user is too far from the base unit, the **CH** button may not function fully. Move toward the base unit.

Answering calls

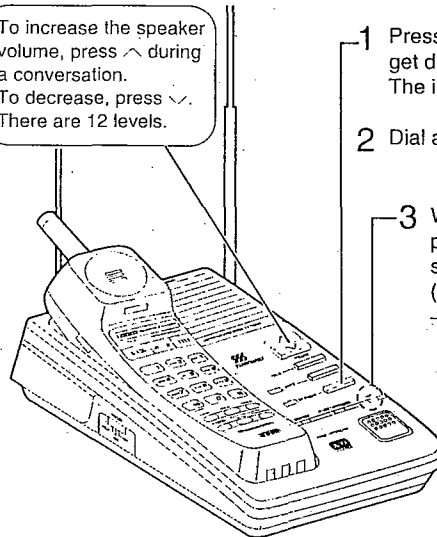
If the handset is off the base unit, press **TALK**.
If the handset is on the base unit, just lift it.

(KX-T4066E Only)

Making calls with the base unit (Speakerphone)

You can make a call while leaving the handset on the base unit with the dialing buttons facing upward. You can also use **TALK** instead of **SP-PHONE**.

To increase the speaker volume, press \wedge during a conversation. To decrease, press \vee . There are 12 levels.



- 1 Press **SP-PHONE** to get dial tone. The indicator lights.
- 2 Dial a phone number.
- 3 When the other party answers, speak into **MIC** (microphone). —You can also lift the handset and speak.

- 4 To hang up, press **SP-PHONE**. The indicator light goes out.

Answering calls with the base unit (Speakerphone)

Make sure that the **RINGER** selector is set to "HIGH" or "LOW", or the base unit will not ring.

Press **SP-PHONE**, then speak into **MIC**.

AUTOMATIC DIALING

The dialing buttons (0 through 9) function as memory locations. A 16-digit phone number can be stored in each location.

To store phone numbers in memory

Make sure that the **TALK** indicator light is off.

- 1 Press **PROGRAM**.
—The **BATT LOW/PROGRAM** indicator lights to show the unit is in the programming mode.
- 2 Enter a phone number up to 16 digits.
—If you misdial, press **PROGRAM** to end the programming, then start from step 1.
- 3 Press **AUTO**.
- 4 Press a memory location number (0 through 9).
—The phone number is stored there.
—To store other numbers, repeat steps 1 through 4.

DISASSEMBLY INSTRUCTIONS

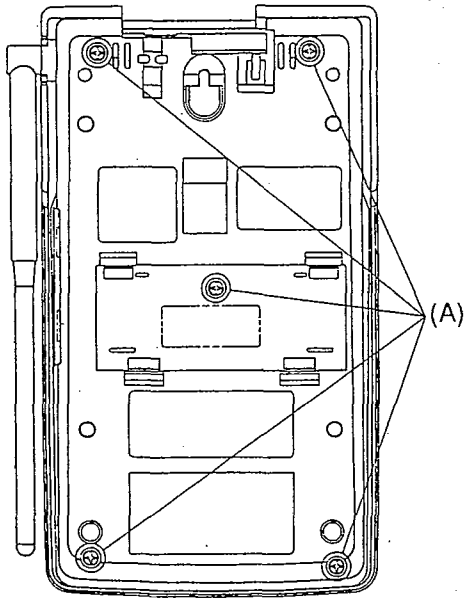


Fig. 4

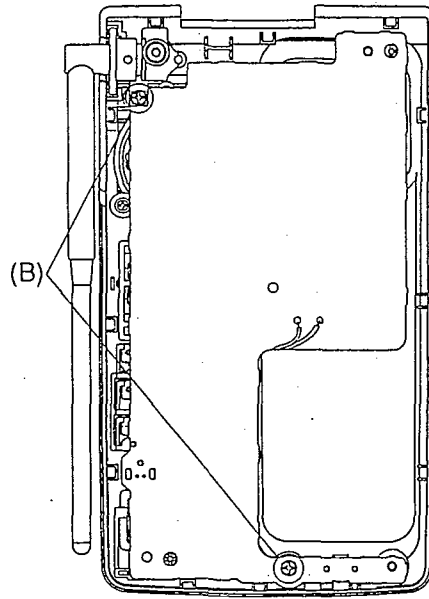


Fig. 5

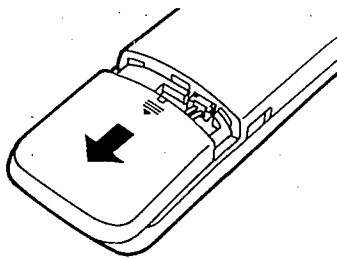


Fig. 6

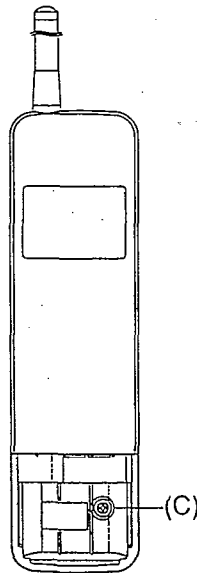


Fig. 7

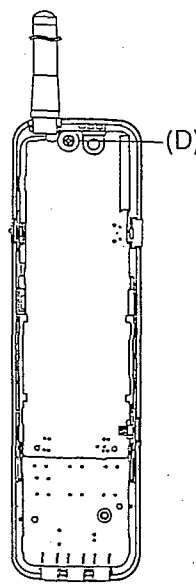


Fig. 8

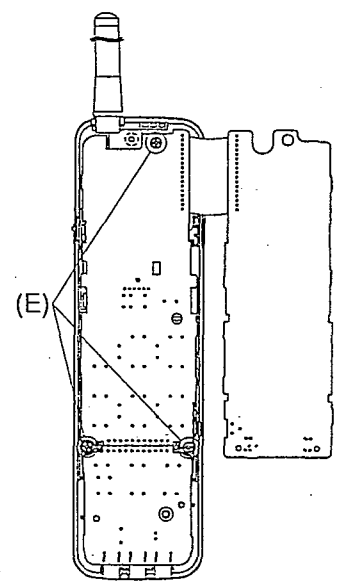


Fig. 9

Ref. No.	Procedure	Shown in Fig.—	To remove —.	Remove —.
1	1	4	Lower Cabinet	Screws (3×12) (A)×5
2	1, 2	5	Printed Circuit Board	Screws (3×10) (B)×2
3	3, 4	6	Rear Cabinet	Remove the battery compartment cover
4		7		Screw (2.6×12) (C)×1
5	3-5	8	Printed Circuit Board	Screw (2.6×10) (D)×1
6	3-6	9		Screws (2.6×10) (E)×3

CPU DATA (KX-T4036EH/KX-T4066EH)

IC6 MN150808KJAH

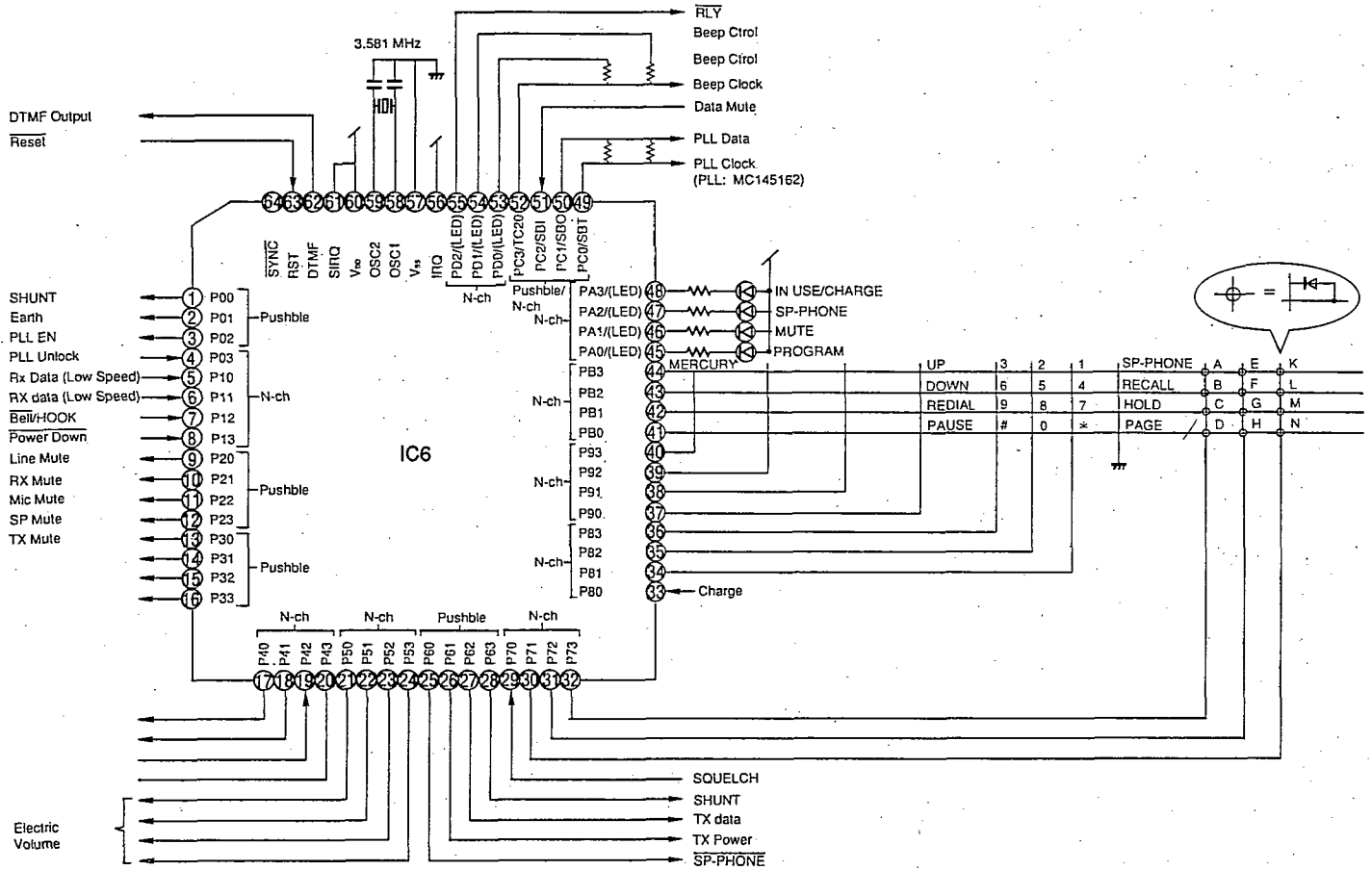


Fig. 10

Pin No.	Terminal	Signal Name	I/O	High	High-Z	Low
1	P00	(no use)	O		---	Normal
2	P01	EARTH Relay	O	ON	---	OFF
3	P02	PLL EN	O	Active	---	Normal
4	P03	PLL Unlock	I	Unlock	---	Lock
5	P10	RX DATA (Low Speed)	I	1	---	0
6	P11	RX DATA (High Speed)	I	1	---	0
7	P12	Hook/Bell	I	Off Hook	---	Bell in
8	P13	Power Down	I	Normal	---	Down
9	P20	Line MUTE	O	Mute	---	Unmute
10	P21	RX MUTE	O	Mute	---	Unmute
11	P22	MIC MUTE	O	Mute	---	Unmute
12	P23	SP MUTE	O	Mute	---	Unmute
13	P30	(TX MUTE)	O	Mute	---	Unmute
14	P31	(no use)	O		---	Normal
15	P32	(no use)	O		---	Normal
16	P33	(no use)	O		---	Normal

Pin No.	Terminal	Signal Name	I/O	High	High-Z	Low
17	P40	Clock Control	O	---	Active	Normal
18	P41	(no use)	O	/	---	Normal
19	P42	(no use)	O	/	---	Normal
20	P43	SHUNT Relay	O	---	OFF	ON
21	P50	Electronic Volume 0	O	---	/	/
22	P51	Electronic Volume 1	O	---	/	/
23	P52	Electronic Volume 2	O	---	/	/
24	P53	Electronic Volume 3	O	---	/	/
25	P60	SP-PHONE	O	OFF	---	ON
26	P61	TX POWER	O	ON	---	OFF
27	P62	TX DATA	O	1	---	0
28	P63	(no use)	O	/	---	Normal
29	P70	SQUELCH	I	Strong Electric Field	---	Weak Electric Field
30	P71	Option Strobe	O	---	Normal	Active
31	P72	Option Strobe	O	---	Normal	Active
32	P73	Option Strobe	O	---	Normal	Active
33	P80	Charge	I	Charge	---	Non
34	P81	Key Strobe	O	---	Normal	Active
35	P82	Key Strobe	O	---	Normal	Active
36	P83	Key Strobe	O	---	Normal	Active
37	P90	Key Strobe	O	---	Normal	Active
38	P91	Key Strobe	O	---	Normal	Active
39	P92	Key Strobe	O	---	Normal	Active
40	P93	Key Strobe	O	---	Normal	Active
41	PB0	Key in	I	Normal	---	Key in
42	PB1	Key in	I	Normal	---	Key in
43	PB2	Key in	I	Normal	---	Key in
44	PB3	Key in	I	Normal	---	Key in
45	PA0	PROGRAM LED	O	---	OFF	ON
46	PA1	SP-PHONE LED	O	---	OFF	ON
47	PA2	MUTE LED	O	---	OFF	ON
48	PA3	IN USE LED	O	---	OFF	ON
49	PC0/SBT	Serial Clock	O	(Active)	Normal	(Active)
50	PC1/SBO	Serial Data	O	(Active)	Normal	(Active)
51	PC2/SB1	DATA Mute	I	High Speed Data	---	Normal
52	PC3/TC20	Beep Clock	O	(Active)	Normal	(Active)
53	PD0/(LED)	Beep Control 0	O	---	Large	Small
54	PD1/(LED)	Beep Control 1	O	---	Large	Small
55	PD2/(LED)	TR-RLY	O	---	OFF	ON
56	IRQ	External Interrupt Input	I	Normal	---	---
57	VSS	GND	/	/	/	GND
58	OSC1	CPU Clock	I	/	/	/
59	OSC2	(3.581 MHz)	O	/	/	/
60	VDD	Power Source	/	/	/	/
61	SIRQ	External Interrupt Input	I	Normal	---	---
62	DTMF	DTMF	O	Normal	---	(Active)
63	RST	Reset	I	Normal	---	Reset
64	SYNC	Synchronous Signal Output	O	/	/	/

■ MN150808KJAH (IC6) TERMINALS EXPLANATION

Pin No.	Pin Name	Classification	I/O	Description
60 57	V _{DD} V _{SS}	Power supply		For connection of +2.2~5.5 V to V _{DD} and 0 V to V _{SS} .
58 59	OSC1 OSC2	Clock input Clock output	I O	Oscillation terminal for connection of an oscillator. Feedback resistance is built-in.
63	RST	Reset input	I	RESET mode is on when "L" level is input for 1 machine cycle or more. The pull-up resistance and the Schmitt input circuit are built in. After the RESET mode is off, the internal RESET is released after 2 ¹³ count of OSC input clock.
64	SYNC	Synchronous signal output	O	Internal timing signal is output at every 1 machine cycle.
56	IRQ	External interrupt input	I	For interrupt at a negative edge. The Schmitt input circuit is built in. The pull-up resistance can be designated by software option.
61	SIRQ	External Interrupt Input	I	For unconditional interrupt at a negative edge. The Schmitt input circuit is built in. The pull-up resistance can be designated by software option.
49	SBT (PC0)	Serial interface clock I/O	I/O (I)	I/O terminal for transmission and reception of serial interface clock. This can be used as the normal input port. The Schmitt input circuit is built in. The pull-up resistance can be designated by software option.
50	SBO (PC1)	Serial interface data output	O (I)	Output terminal for transmission of the serial interface data (8-bit serial data). This can also be used as the normal input port. The pull-up resistance can be designated by software option.
51	SBI (PC2)	Serial interface data input	I (I)	Input terminal for reception of the serial interface data (8-bit serial data). This can also be used as the normal input port. The Schmitt input circuit is built in. The pull-up resistance can be designated by software option.
52	TC20 (PC3)	8-bit Presettable counter data output	O (I)	Output terminal of overflow signal of the built-in 8-bit presettable counter. This can also be used as the normal input port. The pull-up resistance can be designated by software option.
62	DTMF	DTMF signal output	O	Output terminal of the staircase signal in which two types of frequency signals are mixed. ON/OFF of output can be controlled by program.
45~48, 53~55	PA0~ PA3, PD0~ PD2	Large current or direct driving of LED	I/O	I/O ports of 4-bit parallel data. The output structure (Nch open drain/pushable) and the pull-up resistance can be designated by software option. The LED can be driven directly.
1~40	P ₀₀ ~ P ₉₃	Parallel data I/O	I/O	I/O ports of 4-bit parallel data. The output structure (Nch open drain/pushable) and the pull-up resistance can be designated by software option.
41~44	PB0~ PB3	Parallel data input	I	Input port of 4-bit parallel data. The Schmitt input circuit is built in. This can also be used as the interrupt port (negative edge) by software option. The pull-up resistance can be designated by software option.

Pin No.	Terminal	Signal Name	I/O	High	High-Z	Low
17	PE3	Trickle Charge	I/O	0.03 c		Normal
18	PF0	Beep Vol 0	I			
19	PF1	Beep Vol 1	I			
20	PF2	Beep Vol 2	I			
21	COM3	LCD Common Output	I			
22	COM2	LCD Common Output	O			
23	COM1	LCD Common Output	O			
24	COM0	LCD Common Output	O			
25	SEG0	LCD Segment Output	O			
26	SEG1	LCD Segment Output	O			
27	SEG2	LCD Segment Output	O			
28	SEG3	LCD Segment Output	O			
29	SEG4	LCD Segment Output	O			
30	SEG5	LCD Segment Output	O			
31	SEG6	LCD Segment Output	O			
32	SEG7	LCD Segment Output	O			
33	PA0/SEG16	Scramble	O	ON	---	OFF
34	PA1/SEG17	TX-DATA (Low Speed)	O		---	
35	PA2/SEG18	TX-DATA (Low Speed)	O		---	
36	PA3/SEG19	TX-DATA (High Speed)	O	(H/L)	---	Normal
37	PB0/SEG20	SP-Mute	O	Unmute	---	Mute
38	PB1/SEG21	Mic-Mute	O	Mute	---	Unmute
39	PB2/SEG22	RX POWER	O	OFF	---	ON
40	PB3/SEG23	TX POWER	O	OFF	---	ON
41	P20	Batt Low	I	Low	---	High
42	P21	CHARGE (Control)	I	Charging Stand	---	Base Unit
43	P22	Squelch	I	Strong	---	Weak
44	P23	RX-DATA	I	1	---	0
45	P30	Lighted Dial	O	ON	---	OFF
46	P31	PLL-EN	O	Latch	---	Normal
47	P32/SBT	PLL-Clock	O	(H/L)	---	Normal
48	P33/SBD	PLL-DATA	O	(Active)	---	Normal
49	P50	Key IN	I	No		Yes
50	P51	Key IN	I	No		Yes
51	P52	Key IN	I	No		Yes
52	P53	Key IN	I	No		Yes
53	P00/TC00	Batt Exist	I	Yes		No
54	P01/TC01	ON/OFF	I	OFF		ON
55	P02/TC02	Beep Output	I/O	---	Normal	Active
56	P03/IRQ	Charge	I	Normal	---	Charge
57	PD0	Key Strobe	O	---	Normal	Active
58	PD1	Key Strobe	O	---	Normal	Active
59	PD2	Key Strobe	O	---	Normal	Active
60	PD3	Key Strobe	O	---	Normal	Active
61	P10	Key Strobe	O	---	Normal	Active
62	P11	LED BATT LOW/PROG	O	---	OFF	ON
63	P12	LED INTERCOM	O	---	OFF	ON
64	P13	LED TALK	O	---	OFF	ON

■ MN150810KZP1 (IC101) TERMINALS EXPLANATION

Pin Name	Function	I/O	Description
V _{DD} V _{SS}	Power supply		For connection of +2.2~5.5 V to V _{DD} and 0 V to V _{SS} .
OSC1 OSC2	Clock input Clock output	I O	Oscillation terminal for connection of an oscillator. The feedback resistance is built in.
XI XO	Clock input Clock output	I O	Oscillation terminal for connection of an oscillator. This can also be used as the system clock input by software change. The feedback resistance is built in.
RST	Reset input	I	RESET mode is on when "L" level is input for 1 machine cycle or more. The pull-up resistance and the Schmitt input circuit are built in. After the RESET mode is off, the internal RESET is released after 2 nd count of OSC input clock.
SYNC	Synchronous signal output	O	Internal timing signal is output at every 1 machine cycle.
TRQ (P03)	External interrupt input	I (I/O)	For interrupt at a negative edge. This can also be used as the normal I/O port. The Schmitt input circuit is built in. The output structure (Nch open drain/pushable) and the pull-up resistance can be designated by software option.
P40	Data input	I	The Schmitt input circuit is built in. The pull-up resistance can be designated by software option.
SBT (P32)	Serial interface clock I/O	I/O (I/O)	I/O terminal for transmission and reception of serial interface clock. This can also be used as the normal input port. The Schmitt input circuit is built in. The output structure and the pull-up resistance can be designated by software option.
SBD (P33)	Serial interface data I/O	I/O (I/O)	I/O terminal for transmission and reception of serial interface data (8-bit serial data). This can also be used as the normal I/O port. The Schmitt input circuit is built in. The pull-up resistance can be designated by software option.
TC00~TC02 (P00~P02)	8-bit presettable counter data output	O (I/O)	Output terminal of overflow signal of the built-in 8-bit presettable counter. This can also be used as the normal I/O port. The output structure (Nch open drain/pushable) and the pull-up resistance can be designated by software option.
PD0~PD3	High voltage-proof for direct driving of LED	O	Output port of 4-bit parallel data. The output structure is Nch open drain. The LED can be driven directly.
P00~P33 PE0~PE3	Parallel data I/O	I/O	I/O ports of 4-bit parallel data. The output structure (Nch open drain/pushable) and the pull-up resistance can be designated by software option. P1 can directly drive the LED of large current terminal.
PA0/ SEG16~ PB3/ SEG23 PF0~PF2	Parallel data output	O	Output port of 4-bit parallel data. The output structure is pushable. PA0/SEG16 through PB3/SEG23 also work as output terminals of LCD segment signal.

EXPLANATION OF CPU DATA COMMUNICATION

Pin Name	Function	I/O	Description
P50-P53	Parallel data input	I	Input port of 4-bit parallel data. The Schmitt input circuit is built in. This can also be used as the interrupt port (negative edge) by software option. The pull-up resistance can be designated by software option.
VLCD1-VLCD3	Power source for LCD		Power source terminal driving LCD. VLCD1=V _{DD} -1/3 (VLCD) VLCD2=V _{DD} -2/3 (VLCD) VLCD3=V _{DD} -VLCD VLCD: Voltage of LCD driving
SEG0-SEG7	LCD segment output	O	Output terminal of LCD segment signal.
COM0-COM3	LCD common output	O	Output terminal of LCD common signal.

1. Calling

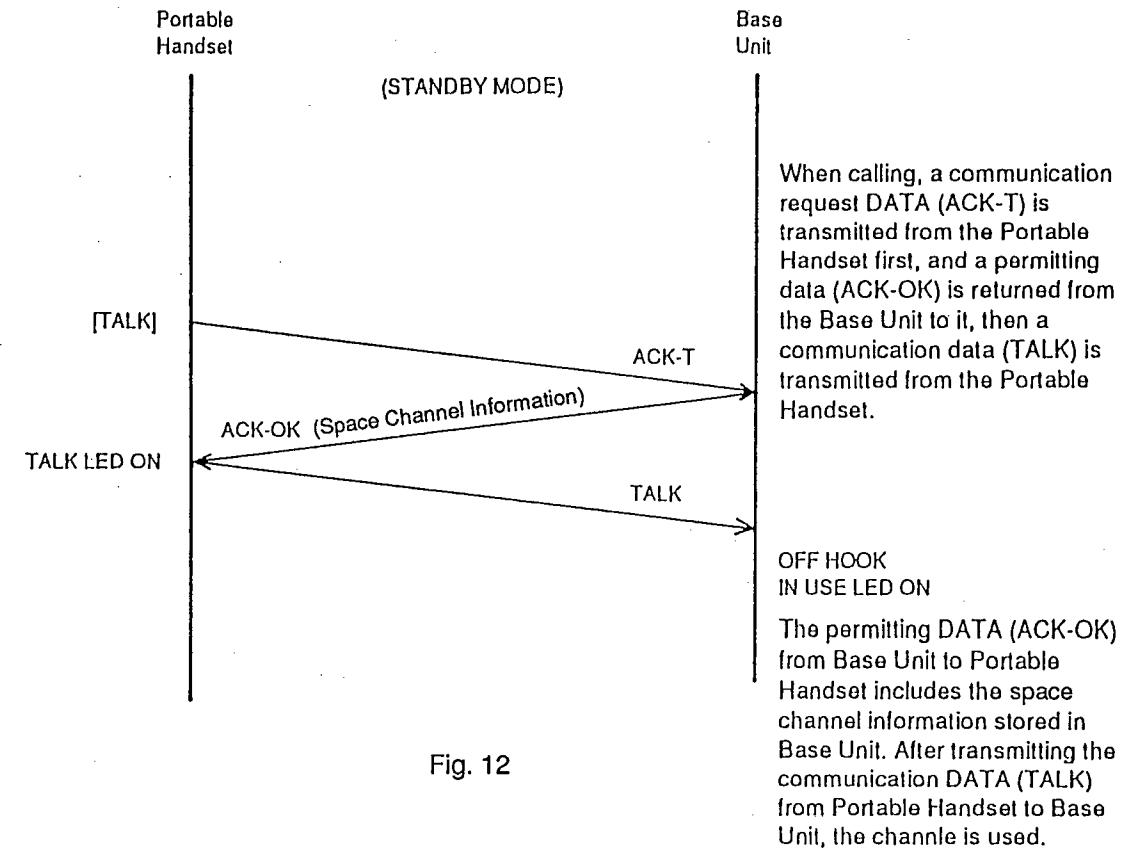


Fig. 12

2. To terminate Communication

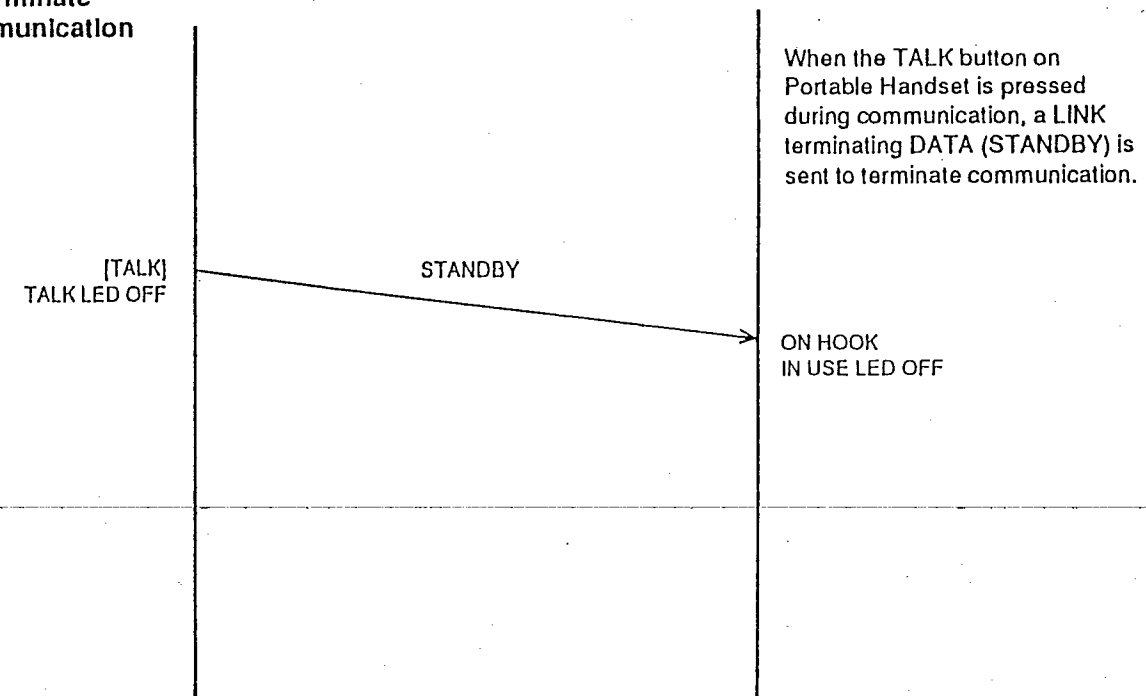


Fig. 13

3. Ringing

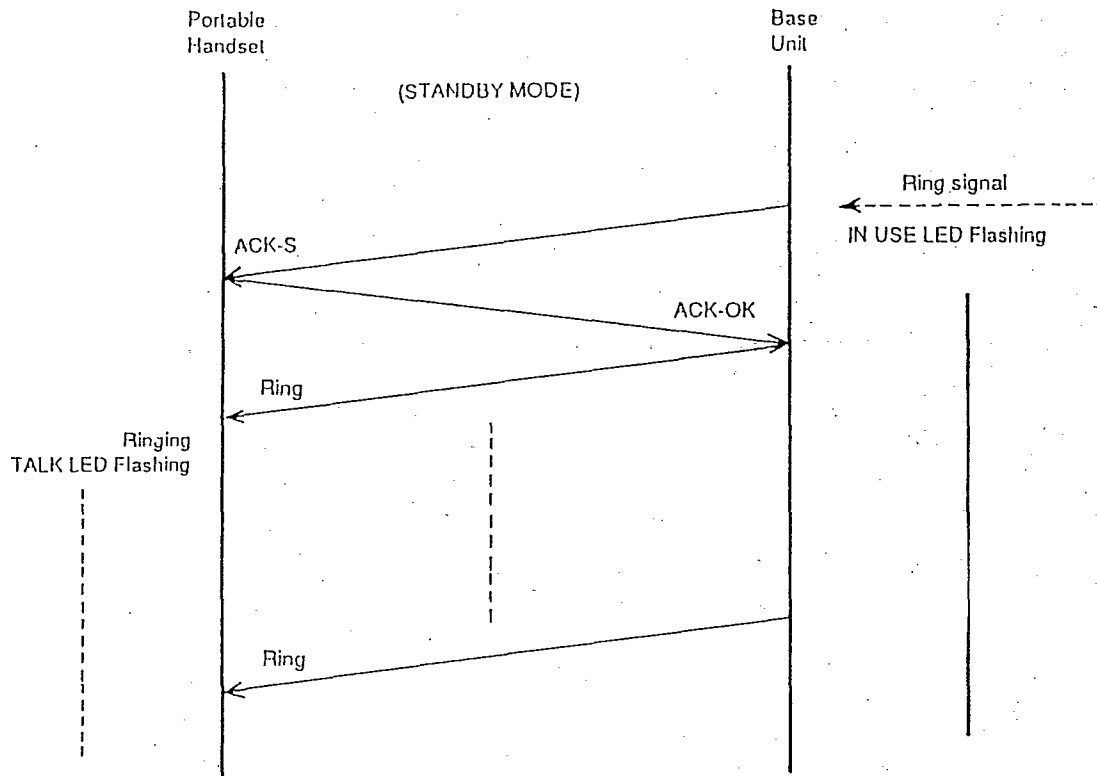


Fig. 14

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...36 Pin receiving...44 Pin

Base Unit: transmitting...27 Pin receiving...6 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 Delimit, 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 Delimit, Pre data and End data.

PORTABLE HANDSET

Transmitting DATA Format

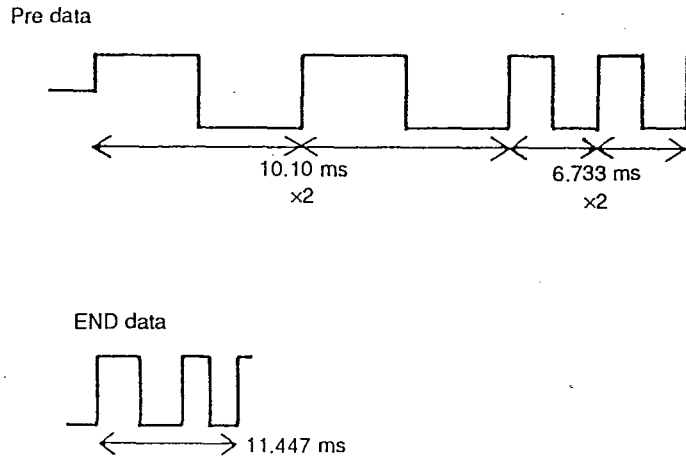
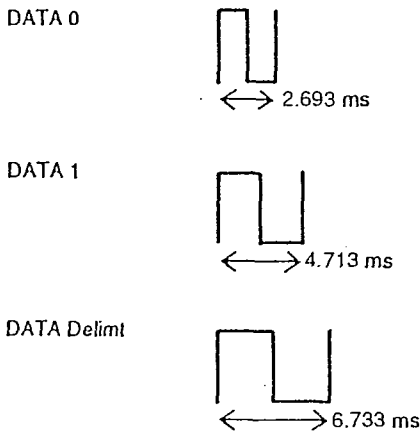


Fig. 15

BASE UNIT

Transmitting DATA Format

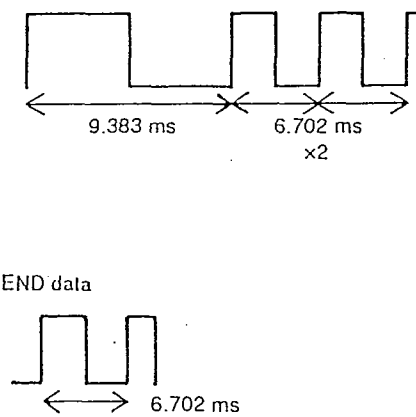
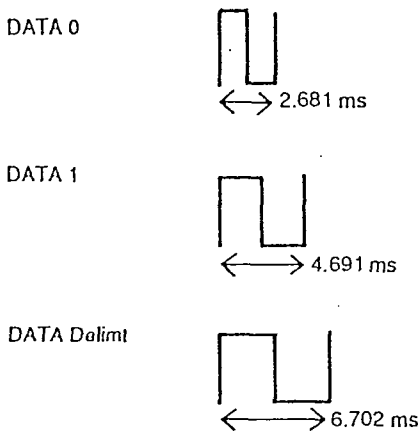


Fig. 16

6. When LINKing

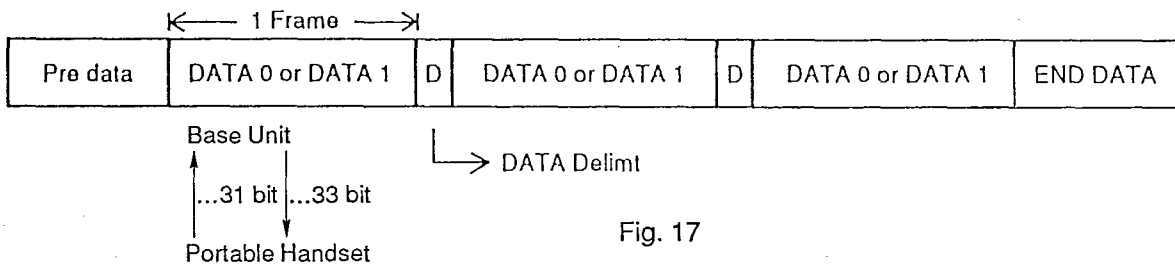


Fig. 17

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

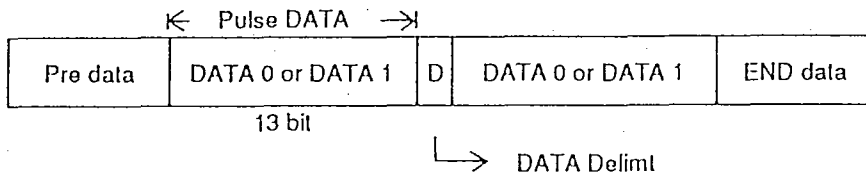


Fig. 18

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 Delimt is between each Frame as a stop. The number of Frame is 2.

8. Tone Dial

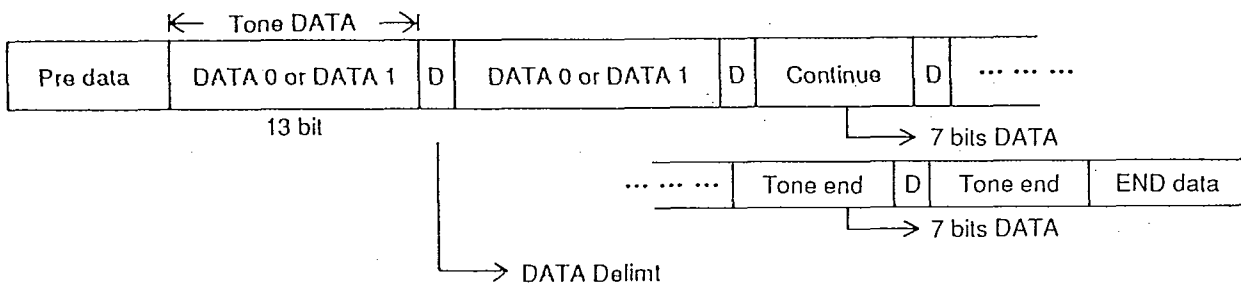


Fig. 19

9. Low Speed Data

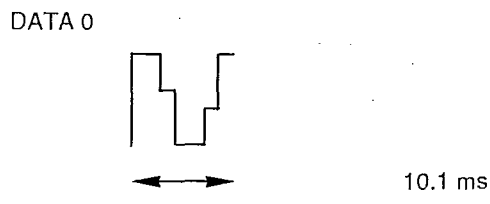


Fig. 20

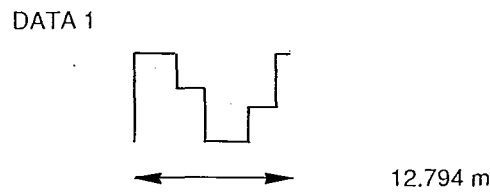


Fig. 21

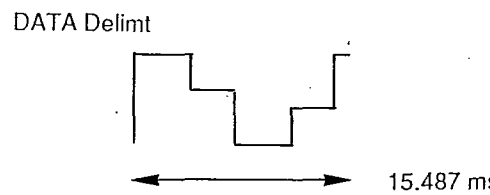


Fig. 22

Receiving judgement for base unit

$t' = 335.1 \mu s$

$27 t' \leq T_0 \leq 33 t'$
(8.713-----11.393)

$34 t' \leq T_1 \leq 41 t'$
(11.058-----14.072)

$42 t' \leq T_d \leq 49 t'$
(13.739-----16.755)

FREQUENCY TABLE (MHz)

CH	KX-T4036EH/KX-T4066EH		KX-T4036ER/KX-T4066ER	
	Transmit Frequency	Receive Frequency	Transmit Frequency	Receive Frequency
2	1.662	47.46875	47.46875	1.662
3	1.682	47.48125	47.48125	1.682
4	1.702	47.49375	47.49375	1.702
5	1.722	47.50625	47.50625	1.722
6	1.742	47.51875	47.51875	1.742
7	1.762	47.53125	47.53125	1.762

EXPLANATION OF IC TERMINALS

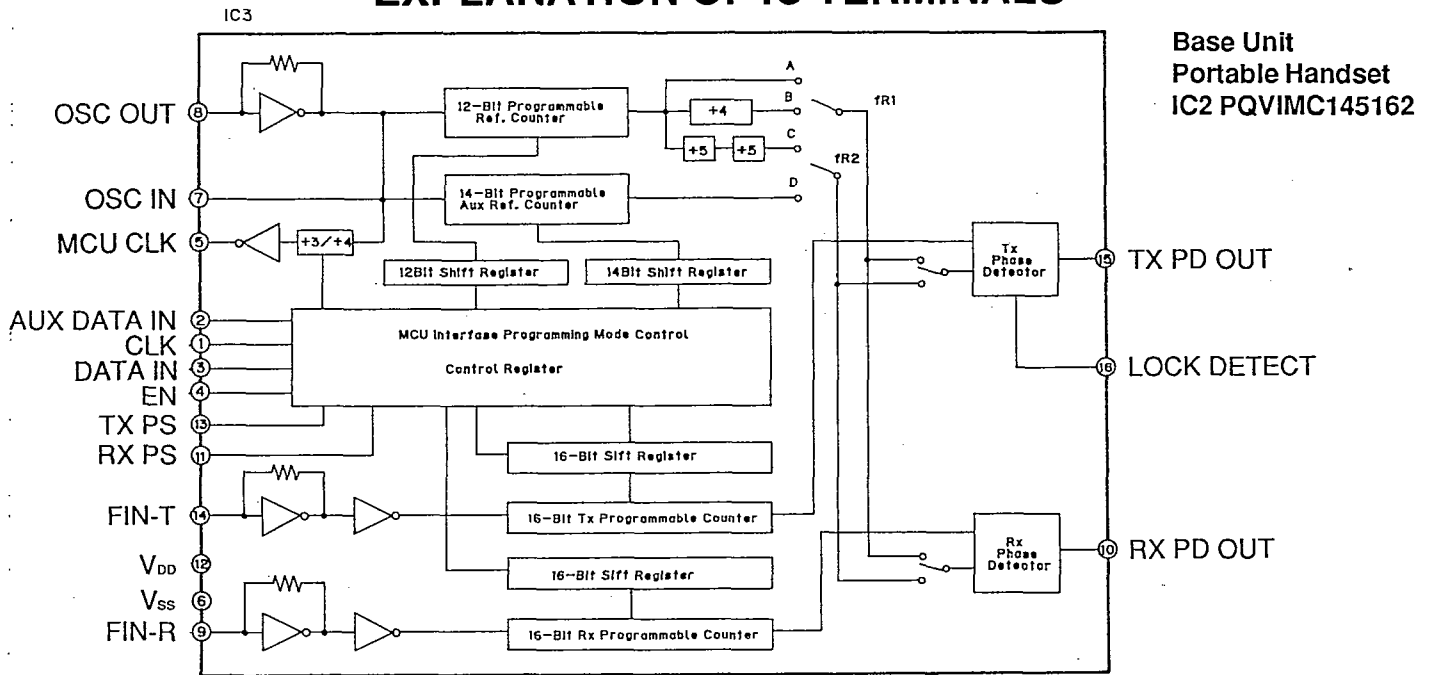


Fig. 26

Pin Description

OSC in, OSC out

These pins form a reference oscillator when connected to an external parallel-resonant crystal. OSC In may also serve as input for an externally generated reference signal which is typically ac-coupled.

MCU-CLK

These output pins provide a frequency signal of Crystal Frequency (OSC out) \div 3 or \div 4 which is controlled by the bit function of the Control Register.

This signal can be a clock source for the MCU and other system clock.

Aux. DATA IN, DATA IN, CLK, EN

These four pins provide an MCU Serial Interface for Programming the Reference Counter, the Transmit Channels Divider Counter, the Receive Channels Divider Counter and various Control of the PLL including the Power Saving Mode and the Programming Format.

TX_PS/frx, RX_PS/frx

For normal application, these Output Pins provide the status of the internal Power Saving Mode Operation. If the Tx-Channels Divider Counter circuitry is in Power Down Mode, the TX_PS will output a "HIGH" state. Else if the Rx-Channels Divider Counter Circuitry is in Power Down Mode, RX_PS will be set to "HIGH". These output can be applied for controlling the External Power Switch for the Transmitter and the Receiver to save MCU control pins.

fin-T, fin-R

fin-T, fin-R are inputs to the Transmit and Receive Divider Counter respectively.

These signals are typically driven from the Loop VCO and ac-coupled. The minimum input signal level is 200 mVp-p @ 60.0 MHz, Vdd=2.5 V.

TXPDOUT, RXPDOU

These are 3-state outputs of the transmit and receive phase detectors for use as loop error signal or Phase Detector signal.

Frequency $f_v > f_n$ or f_v leading: Output=Negative Pulse.

Frequency $f_v < f_n$ or f_v lagging: Output=Positive Pulse.

Frequency $f_v = f_n$ and Phase Coincidence: Output=High Impedance State.

LOCK DETECT

Lock Detect Signal associated with the transmit loop. The lock output is set to "1" to indicate an out-of-lock condition.

Vdd, Vss

Vdd is the most positive Power Supply potential ranging from 2.5 to 5.5 volts with respect to Vss. Vss is the most negative supply potential and is usually connected to Ground.

ADJUSTMENTS (KX-T4036EH/KX-T4066EH)

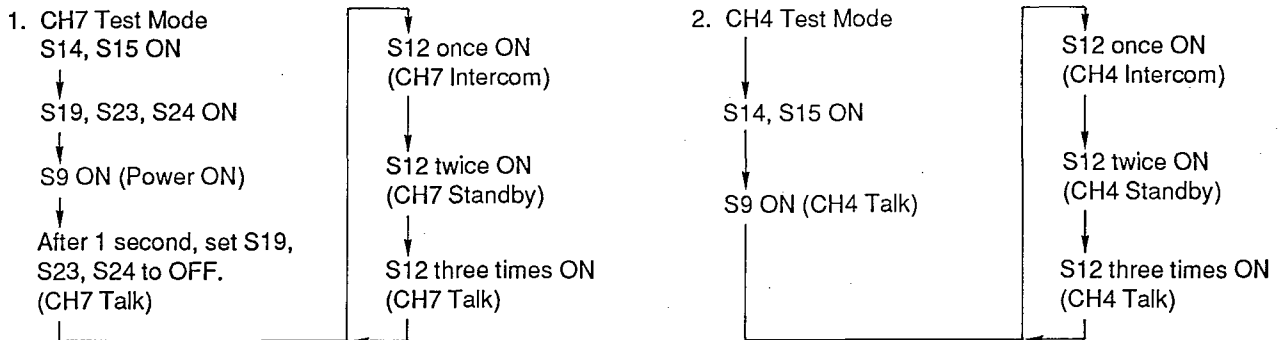
If your unit have below symptom, adjust for each item following table of adjustment.

Symptom	Remedy
The base unit does not receive a call from portable handset.	Adjust the adjustment item (A)
The base unit does not transmit, and the transmit frequency is slipped.	Adjust the adjustment item (B)
The transmit frequency is slipped.	Adjust the adjustment item (C)
The transmit output is low, and the arrival distance is shorted between base unit and portable handset.	Adjust the adjustment item (D)
The reception sensitivity of base unit is wrong, the noise is occurred.	Adjust the adjustment item (E)

Unit condition:

Remove the antenna from P.C. Board of the base unit.

How to set the test mode:



When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Points	Procedure
IC1, T4	(A) Phase Detector Voltage Adjustment (RX)	CH7 Talk	T4	1. Connect the Digital Voltmeter to $\nabla-\nabla$. 2. Adjust T4 (counterclockwise) so that the reading of the Digital Voltmeter is $3.0\text{ V}\pm 0.1\text{ V}$.
D4, D5, T8	(B) Phase Detector Voltage Adjustment (TX)	CH7 Talk	T8	1. Connect the Digital Voltmeter to $\nabla-\nabla$. 2. Adjust T8 (counterclockwise) so that the reading of the Digital Voltmeter is $3.0\text{ V}\pm 0.1\text{ V}$.
VC1, X2	(C) Frequency Adjustment (RX)	CH4 Talk	VC1	1. Connect the frequency counter to $\nabla-\nabla$. 2. Adjust VC1 so that the reading of the frequency counter is $36.79375\text{ MHz}\pm 200\text{ Hz}$.
T6, Q8, Q9	(D) Power Adjustment (TX)	CH4 Talk	T6	1. Set S4 to on. 2. Set to talk mode at the test mode of 4 ch. 3. Adjust so that the transmission power reaches its maximum with T6 using spectrum analyzer.

When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Points	Procedure
T1, T2, T3 T5	(E) RF Adjustment (RX)	CH4 Talk	T5 T1, T2, T3	<ol style="list-style-type: none"> 1. Connect S.S.G. to ∇-∇. 2. Connect the loop simulator and AF VTVM to ∇-∇. Connect the RF VTVM to ∇-∇. 3. Apply a 60 dBμV output from S.S.G. (modulation frequency 1 kHz, dev. 1.5 kHz). 4. Apply a DC 48 V from loop simulator. 5. Adjust T5 so that the reading of the AF VTVM is maximum output. 6. Apply a 40 dBμV output from S.S.G. (modulation frequency 1 kHz, dev. 1.5 kHz), and adjust T1, T2, T3 so that reading of the RF VTVM is maximum output.

Flow Solder Side View

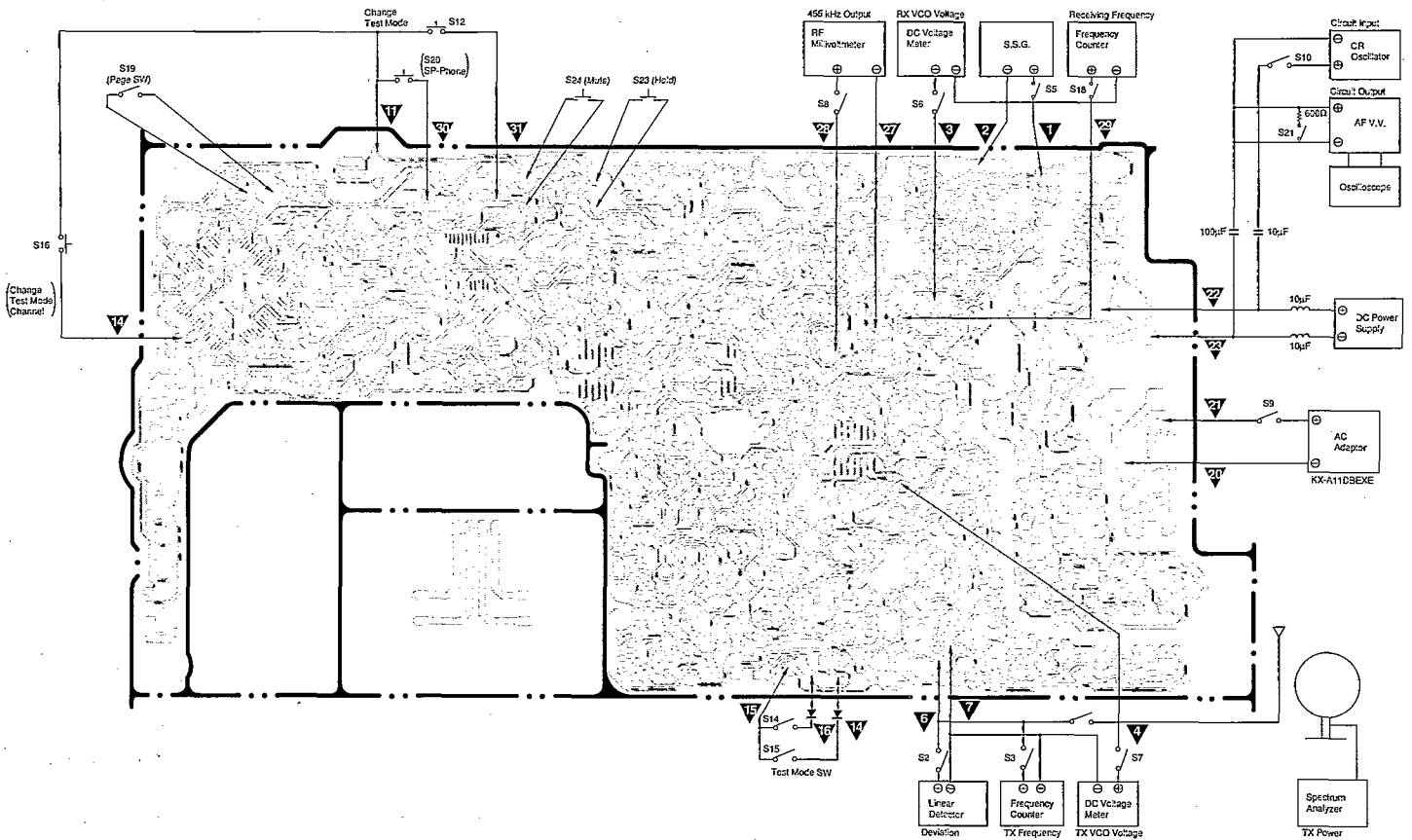
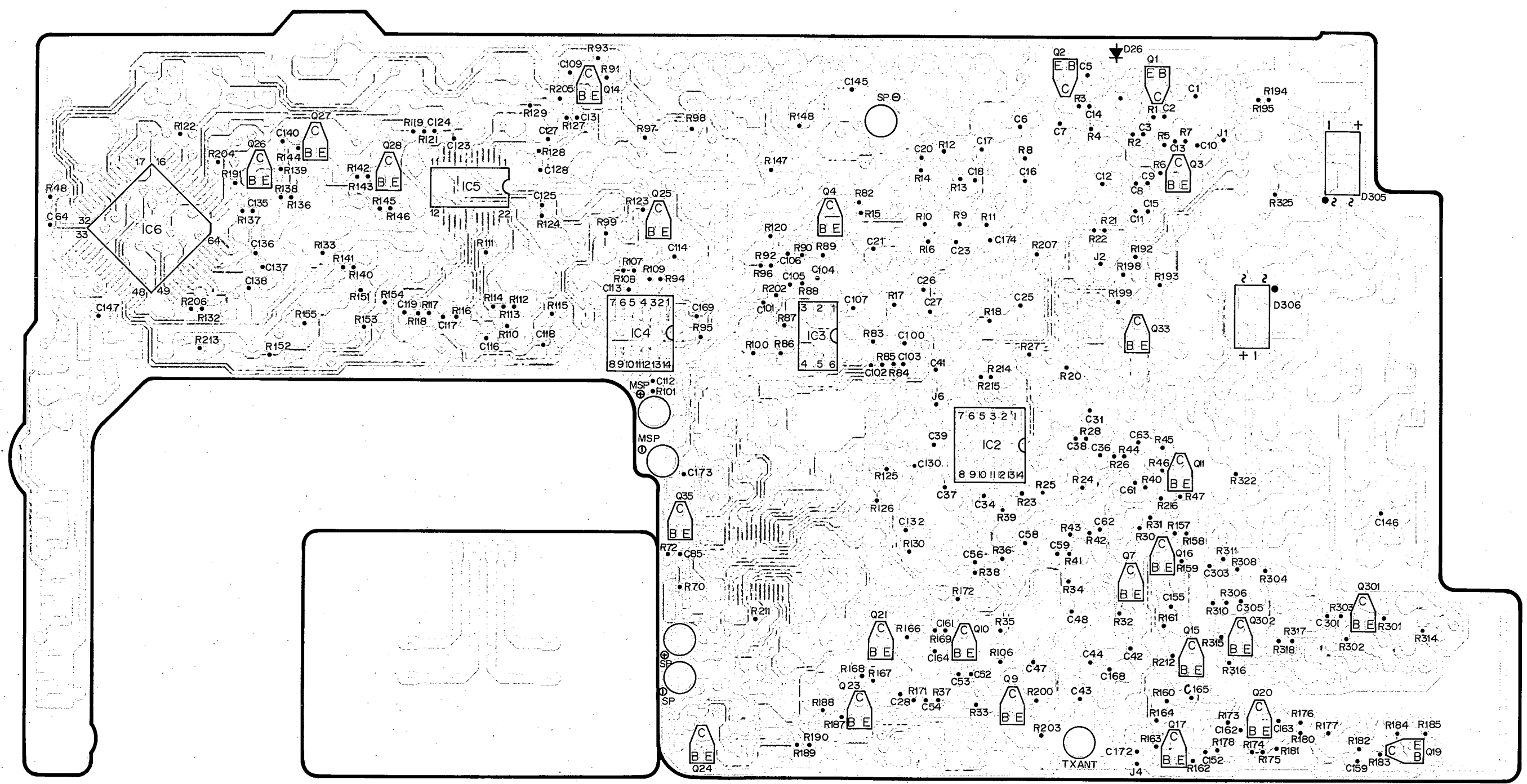


Fig. 27

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4036EH)

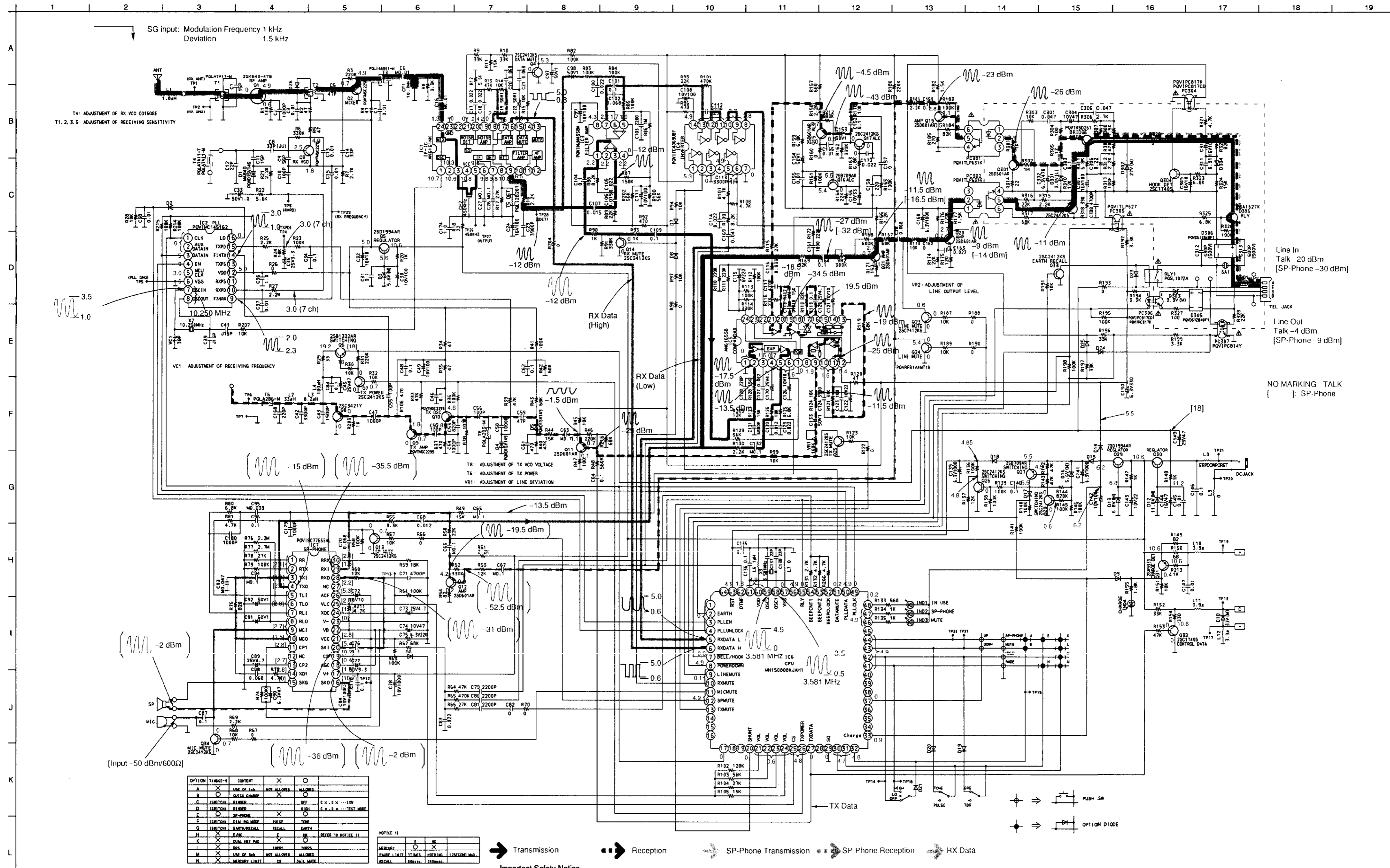
(Flow Solder Side View)



A
B
C
D
E
F
G
H

1 2 3 4 5 6 7 8 9 10 11 12 13

SCHEMATIC DIAGRAM (KX-T4066EH)



OPTION	T4066-EH	CONTENT	X	O
A	X	USE OF S1	NOT ALLOWED	ALLOWED
B	X	USE OF S2	NOT ALLOWED	ALLOWED
C	X	USE OF S3	NOT ALLOWED	ALLOWED
D	X	USE OF S4	NOT ALLOWED	ALLOWED
E	X	USE OF S5	NOT ALLOWED	ALLOWED
F	X	USE OF S6	NOT ALLOWED	ALLOWED
G	X	USE OF S7	NOT ALLOWED	ALLOWED
H	X	USE OF S8	NOT ALLOWED	ALLOWED
I	X	USE OF S9	NOT ALLOWED	ALLOWED
J	X	USE OF S10	NOT ALLOWED	ALLOWED
K	X	USE OF S11	NOT ALLOWED	ALLOWED
L	X	USE OF S12	NOT ALLOWED	ALLOWED
M	X	USE OF S13	NOT ALLOWED	ALLOWED
N	X	USE OF S14	NOT ALLOWED	ALLOWED

NOTICE 11	RECALL	RECALL	RECALL
RECALL	RECALL	RECALL	RECALL
RECALL	RECALL	RECALL	RECALL

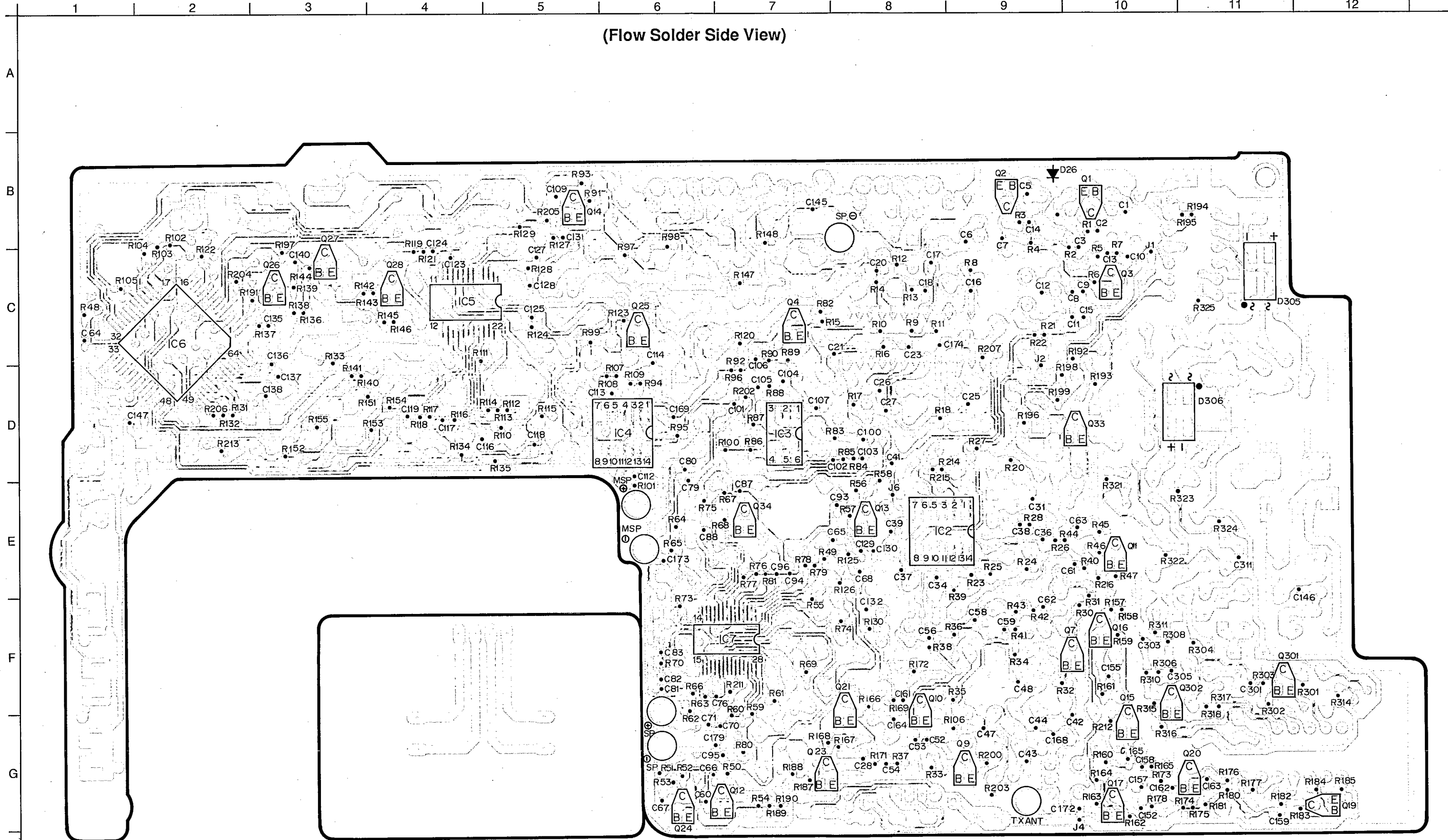
- Notes:**
- S1: RINGER Selector Switch
 - S2: DIALLING MODE Switch
 - S3: RECALL Selector Switch
 - S4, S5: VOLUME Switch
 - S6: HOLD Switch
 - S7: MUTE Switch
 - S8: SP-PHONE Switch
 - S9: PAGE/INTERCOM Switch
 - DC voltage measurements are taken with an electronic voltmeter from the negative voltage line.

Important Safety Notice
 The broken line boxed area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing, it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

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

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4066EH)

(Flow Solder Side View)



ADJUSTMENTS (KX-T4036ER/KX-T4066ER)

If your unit have below symptom, adjust for each item following table of adjustment.

Symptom	Remedy
The movement of Battery Low Indicator is wrong.	Adjust the adjustment item (A)
The base unit does not receive a call from portable handset.	Adjust the adjustment item (B)
The base unit does not transmit, and the transmit frequency is slipped.	Adjust the adjustment item (C)
The transmit frequency is slipped.	Adjust the adjustment item (D)
The transmit output is low, and the arrival distance is shorted between base unit and portable handset.	Adjust the adjustment item (E)
The reception sensitivity of base unit is wrong, the noise is occurred.	Adjust the adjustment item (F)
Does not link between base unit and portable handset.	Adjust the adjustment items (G), (H)

Unit Condition:

1. Remove the antenna lead wire from P.C. Board of portable handset.
2. Power Supply: DC 3.9 V
3. Power/Ringer switch: ON
4. Speaker Load: 130Ω

How to set the test mode.

CH4 Test Mode

1. After setting S11 to ON, and apply a power supply DC 3.9 V.
(The unit becomes CH4 Talk)

2. Every pressing the CH switch changes channel.
(CH4→CH5→CH6→CH7→CH8→CH1→CH2→CH3)

When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Points	Procedure
VR2	(A) Battery Low Adjustment	CH7 Talk	VR2	<ol style="list-style-type: none"> 1. Connect the oscilloscope to ∇-Ground. 2. Set the power supply voltage to DC 3.57 V, and adjust VR2 so that the reading of oscilloscope is 1.5 V±0.3 V.
D6, VC3, X1, T6	(B) TX VCO Voltage Adjustment	CH7 Talk	T6	<ol style="list-style-type: none"> 1. Connect the digital voltmeter to ∇-Ground. 2. Adjust T6 so that the reading of digital voltmeter is 2.0 V±0.1 V.
IC1, VC3, X1, T2	(C) RX VCO Voltage Adjustment	CH7 Talk	T2	<ol style="list-style-type: none"> 1. Connect the digital voltmeter to ∇-Ground. 2. Adjust T2 so that the reading of digital voltmeter is 2.1 V±0.1 V.
VC3, X1	(D) TX Frequency Adjustment	CH4 Talk	VC3	<ol style="list-style-type: none"> 1. Connect the frequency counter to ∇ - ∇. 2. Adjust TC1 so that the reading of frequency counter is 47.49375 MHz±200 Hz.
T4	(E) TX output Adjustment	CH4 Talk	T4	<ol style="list-style-type: none"> 1. Connect the RF VTVM to ∇ - ∇. 2. Adjust T4 for 400 mV~800 mV output on RF VTVM.

When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Point	Procedure
T1, VC1, VC2	(F) RX Adjustment Receiving Sensitivity Adjustment	CH2, 4, 7 Talk		<ol style="list-style-type: none"> 1. Connect the RF VTVM to $\nabla-\nabla$. 2. Connect the AF VTVM to $\nabla-\nabla$. 3. Set to TALK mode at the test mode of 7 ch. 4. Set S5, S8, S9 to on. 5. Set SSG frequency to 1.762 MHz. 6. When SSG output level is 40 dBμ, adjust so that 455 kHz "IF" output reaches its maximum level with T1, VC1 and VC2. 7. Set to TALK mode at the test mode of 2 ch. 8. Set S5, S8, S9 to on. 9. Set SSG frequency to 1.662 MHz. 10. When SSG output level is 40 dBμ, adjust so that 455 kHz "IF" output reaches its maximum level with VC2. 11. Adjust T1 by procedure 7~10 items at 4 ch. (SSG: 1.702 MHz) 12. Adjust VC1 by procedure 7~10 at 7 ch. (SSG: 1.762 MHz) 13. Repeat 7~12 items again. <p>Note: If distance of loop antenna and bar is far, set SSG output level to higher.</p>
D6	(G) Data Modulation of Confirmation	CH4 Talk		<ol style="list-style-type: none"> 1. Connect the FM deviation meter $\nabla-\nabla$. 2. Keep pressing the recall button. 3. Confirm for a 1.5~3.0 kHz FM Diviation Meter.
VR1	(H) Mic Modulation Adjustment	CH4 Talk	VR1	Connect the FM deviation meter $\nabla-\nabla$.
VR3	Speaker Output Level Adjustment	CH4 TALK	T2 VR3	<ol style="list-style-type: none"> 1. Set to TALK mode at the test mode of 4 ch. 2. Set S5, S9, S21 to on. 3. Set SSG frequency to 1.702 MHz. 4. When SSG output level is 60 dBμ, adjust so that speaker output level to its maximum with T3. 5. Adjust the level to -19~-21 dBm with VR3. <p>Note: If distance of loop antenna and bar is far, set SSG output level to higher.</p>

Flow Solder Side View

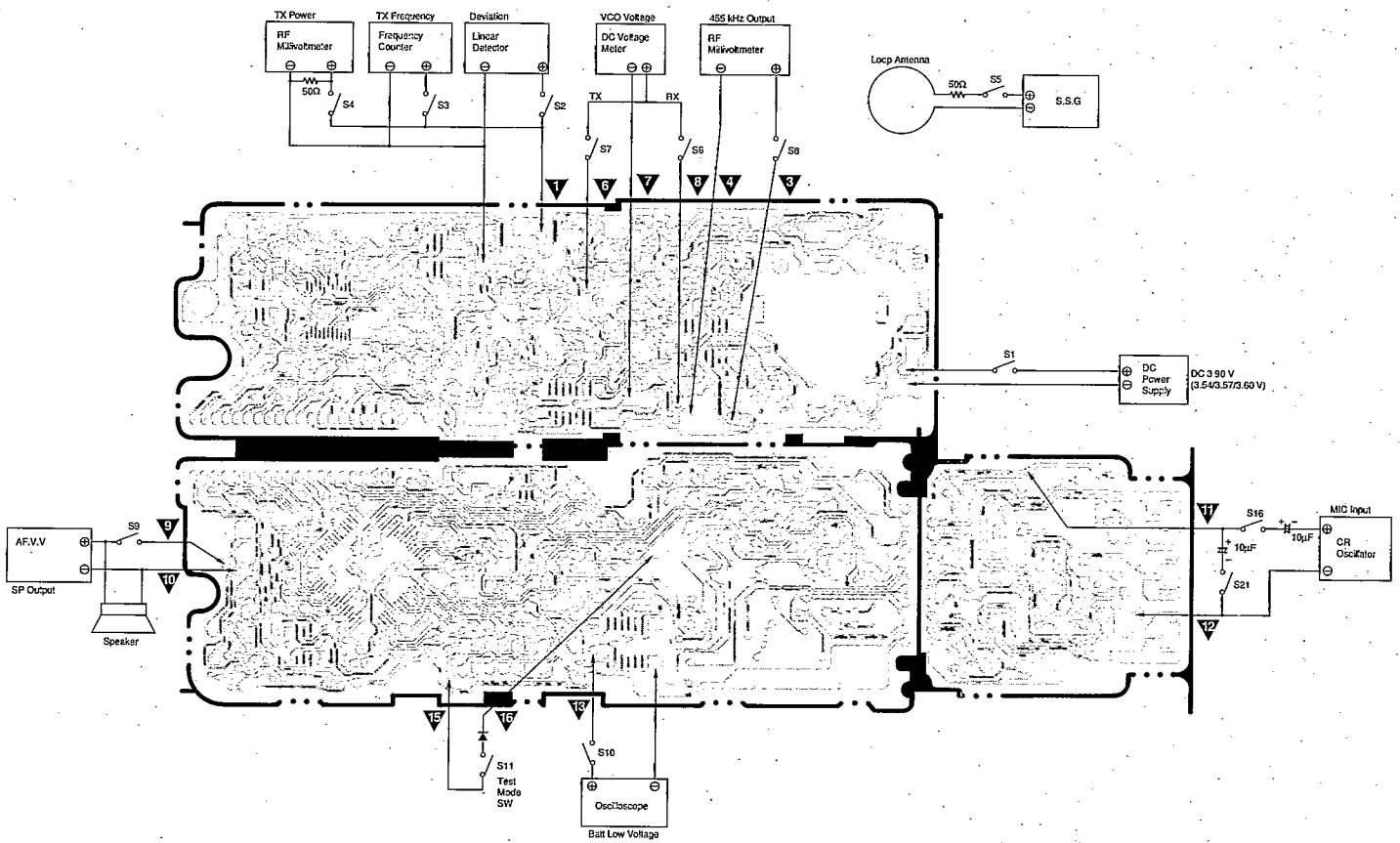


Fig. 28

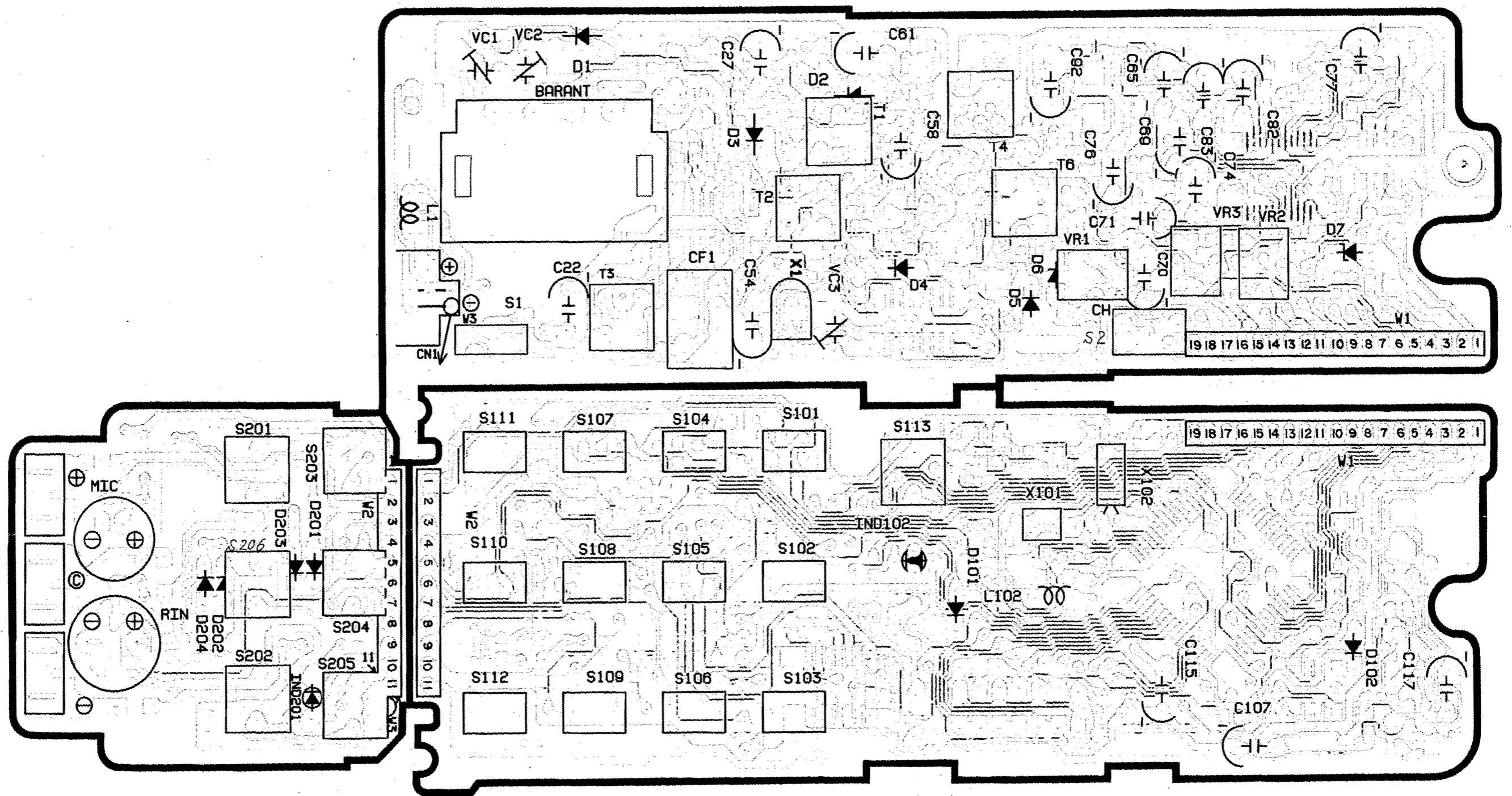
MEMO

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4036ER)

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

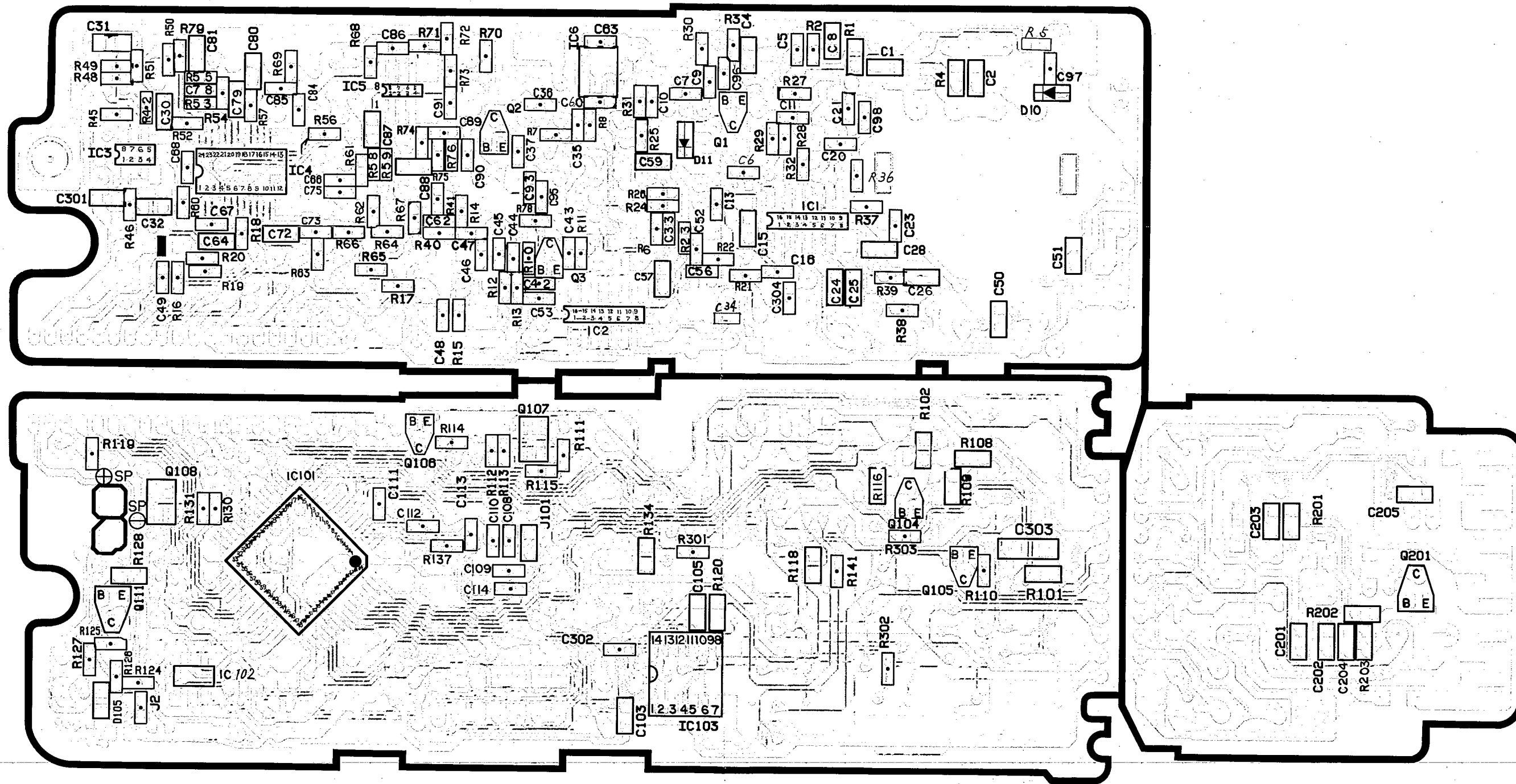
(Component View)

A
B
C
D
E
F
G
H



CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4036ER)

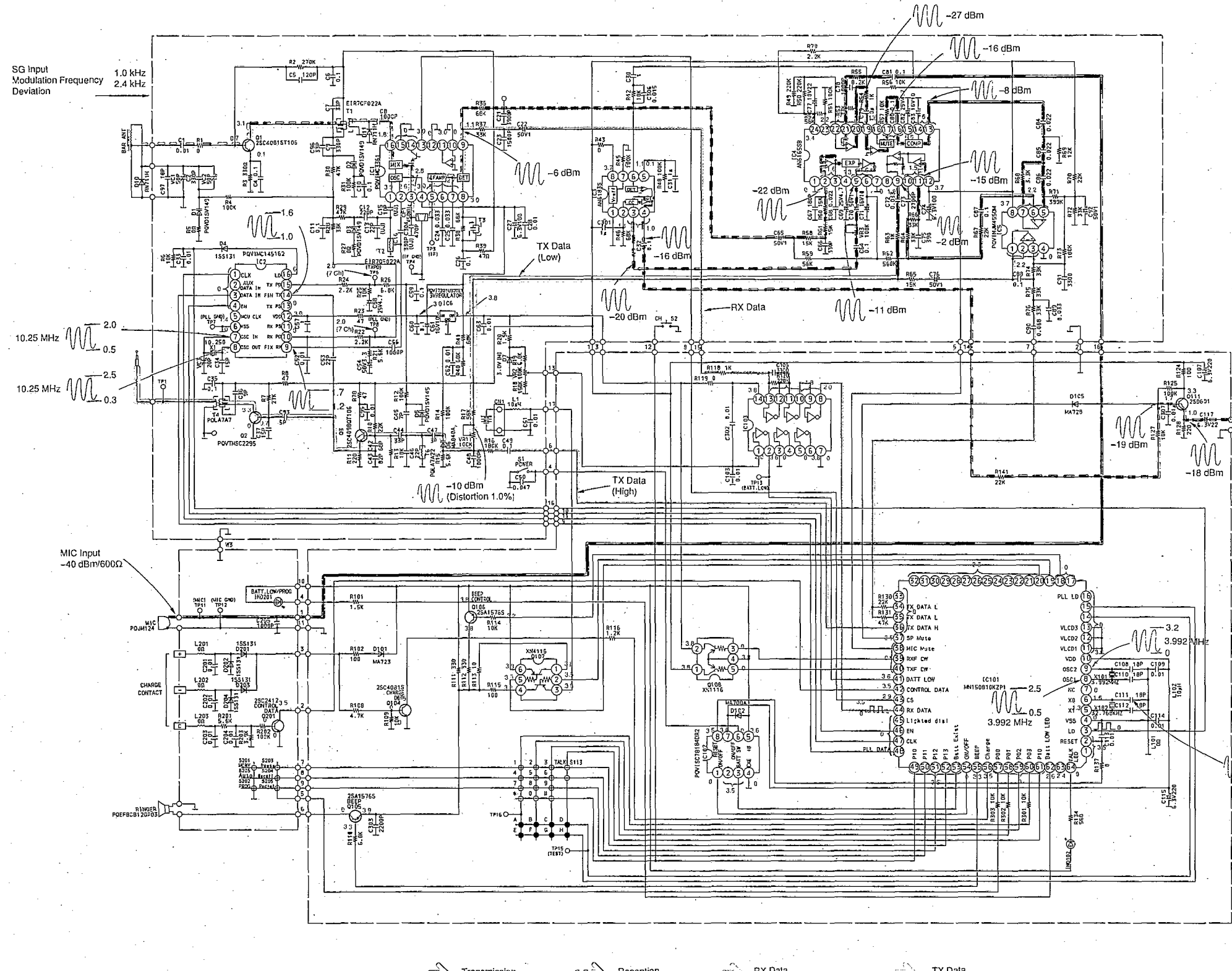
(Flow Solder Side View)



SCHEMATIC DIAGRAM (KX-T4036ER)

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

A
B
C
D
E
F
G
H

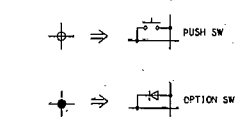


- VC1, 2 ADJUSTMENT OF RECEIVING SENSITIVITY
- T1, 3 ADJUSTMENT OF RXVCO VOLTAGE
- T2 ADJUSTMENT OF RXVCO VOLTAGE
- T6 ADJUSTMENT OF TX FREQUENCY
- VC3 ADJUSTMENT OF TX FREQUENCY
- T4 ADJUSTMENT OF TX POWER
- VR1 ADJUSTMENT OF MIC DEVIATION
- VR2 ADJUSTMENT OF BATTERY LOW VOLTAGE
- VR3 ADJUSTMENT OF SPEAKER OUTPUT LEVEL

OPTION	TABLE #	CONTENT	X	O
A	X	STILL MODE	X	
B	X	EX-SHOW		O
C	X	LOW ZAP		O
D	X	QUALITY	X	MC
E	X	INTERCOM		O
F	X	RECALL	X	O
G	X	MEMORY MODE		O
H	X	PA	X	1. SEC.

NOTICE 1)

MEMORY	E	MC	NOTES
POWER L.VOLT	X		LOWERS BATT. VOLTAGE
POWER TIME	X		3. SEC. WITH 1.5V
RECALL	X		4 STEP

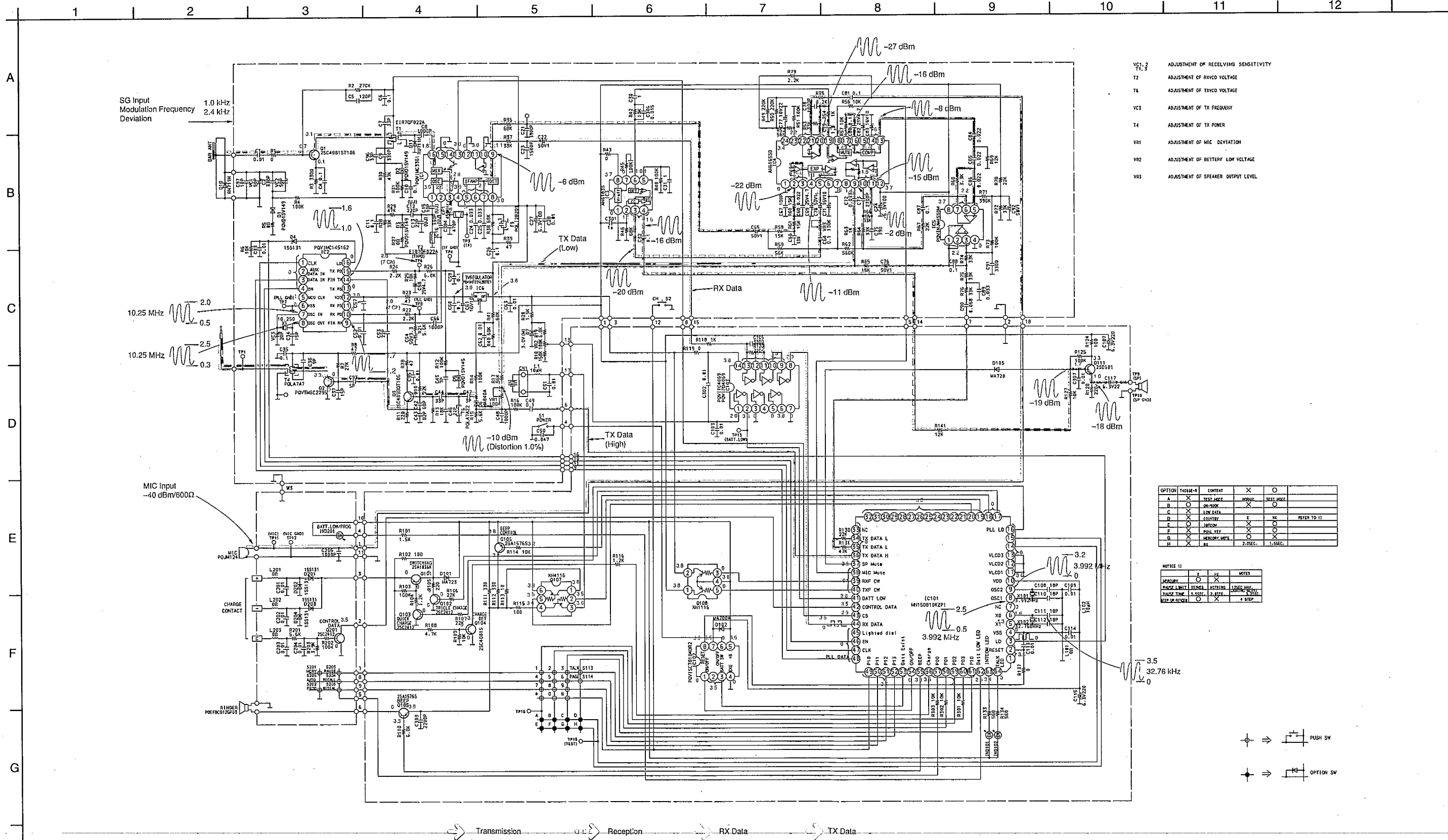


Notes:

- 1. S1: POWER/RINGER Switch
- 2. S2: CH (Channel) Switch
- 3. S101-109, 110, 112: Dialling Switch
- 4. S111: TONE Switch
- 5. S113: TALK Switch
- 6. S201: MERCURY Switch
- 7. S202: PROGRAM Switch
- 8. S203: PAUSE Switch
- 9. S204: RECALL Switch
- 10. S205: REDIAL Switch
- 11. S206: AUTO Switch
- 12. DC voltage measurements are taken with electronic voltmeter from negative voltage line

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

SCHEMATIC DIAGRAM (KX-T4066ER)

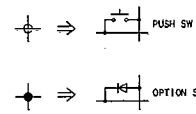


- VC1, 2 ADJUSTMENT OF RECEIVING SENSITIVITY
- T1, 3 ADJUSTMENT OF RX VCO VOLTAGE
- T6 ADJUSTMENT OF TX VCO VOLTAGE
- VC3 ADJUSTMENT OF TX FREQUENCY
- T4 ADJUSTMENT OF TX POWER
- VC1 ADJUSTMENT OF MIC DEVIATION
- VC2 ADJUSTMENT OF BATTERY LOW VOLTAGE
- VC3 ADJUSTMENT OF SPEAKER OUTPUT LEVEL

OPTION	TEST	CONTENT	X	O
A	X	TEST MODE	X	
B		ON-SLEEP	X	
C	X	LOW DATA		
D	X	CONSTV	E	NR REFER TO 11
E	X	INTON	X	
F	X	SWAL KEY	X	
G	X	MEMORY APPL	X	
H	X	RE	2.5SEC.	1.5SEC.

NOTICE 11

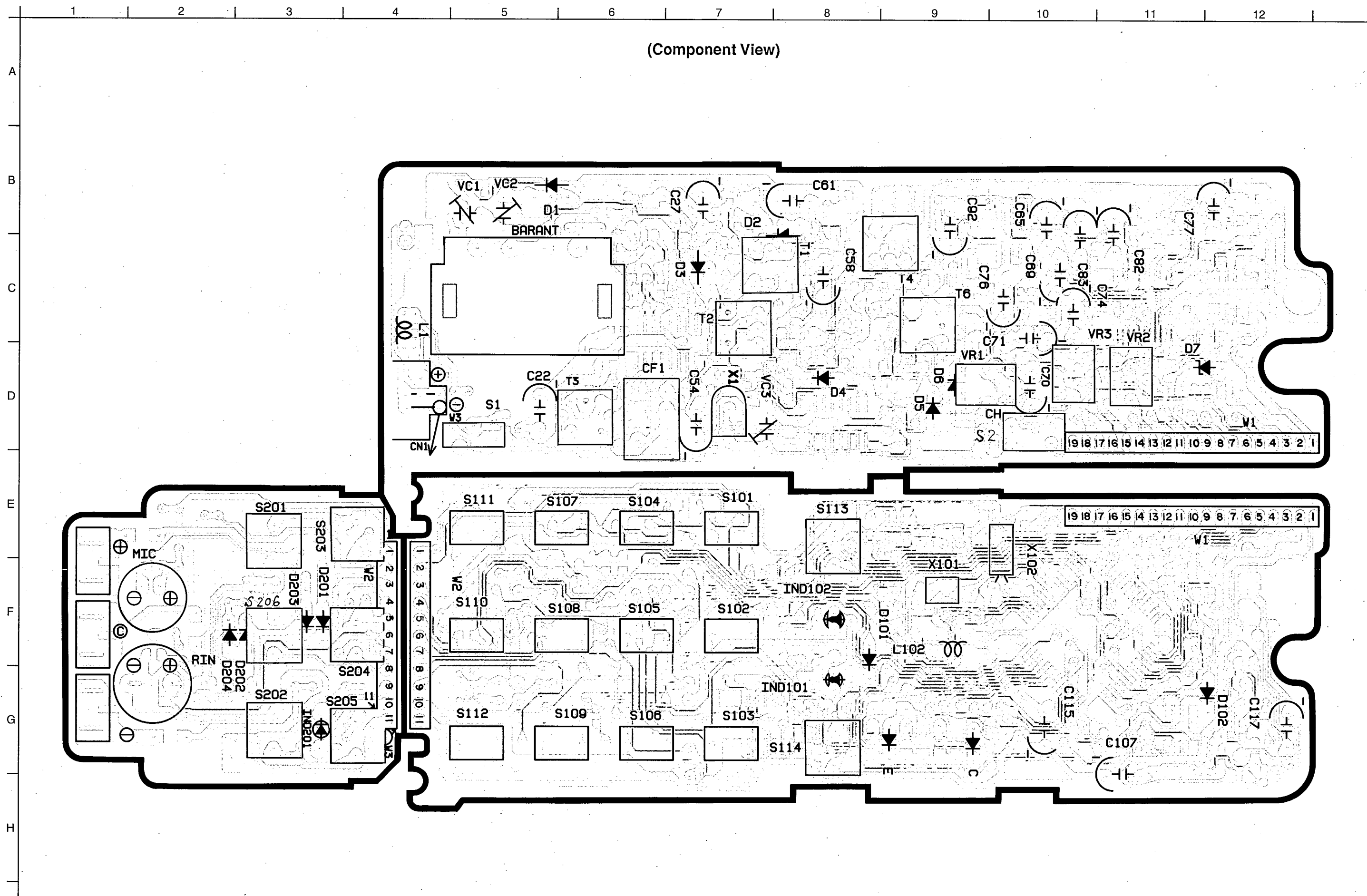
SYMBOL	TEST	CONTENT	NOTES
○	X	TEST MODE	
○	X	ON-SLEEP	
○	X	LOW DATA	
○	X	CONSTV	REFER TO 11
○	X	INTON	
○	X	SWAL KEY	
○	X	MEMORY APPL	
○	X	RE	2.5SEC. 1.5SEC.



- Notes:**
- 1. S1: POWER/RINGER Switch
 - 2. S2: CH (Channel) Switch
 - 3. S101-109, 110, 112: Dialling Switch
 - 4. S111: TONE Switch
 - 5. S113: TALK Switch
 - 6. S114: PAGE/INTERCOM Switch
 - 7. S201: MERCURY Switch
 - 8. S202: PROGRAM Switch
 - 9. S203: PAUSE Switch
 - 10. S204: RECALL Switch
 - 11. S205: REDIAL Switch
 - 12. S206: AUTO Switch
 - 13. DC voltage measurements are taken with electronic voltmeter from negative voltage line
- This schematic diagram may be modified at any time with the development of new technology.

CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4066ER)

(Component View)

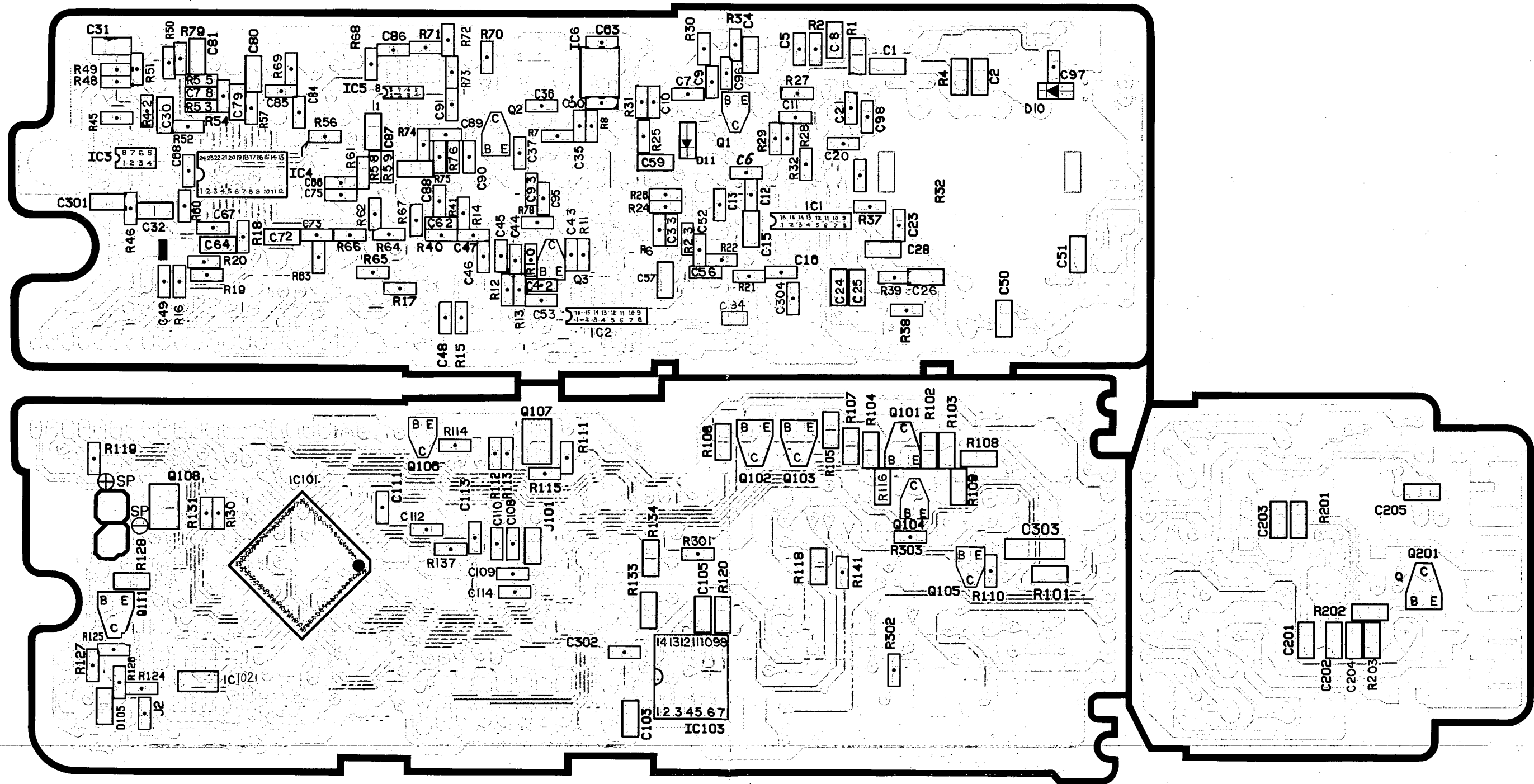


CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4066ER)

(Flow Solder Side View)

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

A
B
C
D
E
F
G
H



BLOCK DIAGRAM (KX-T4036EH)

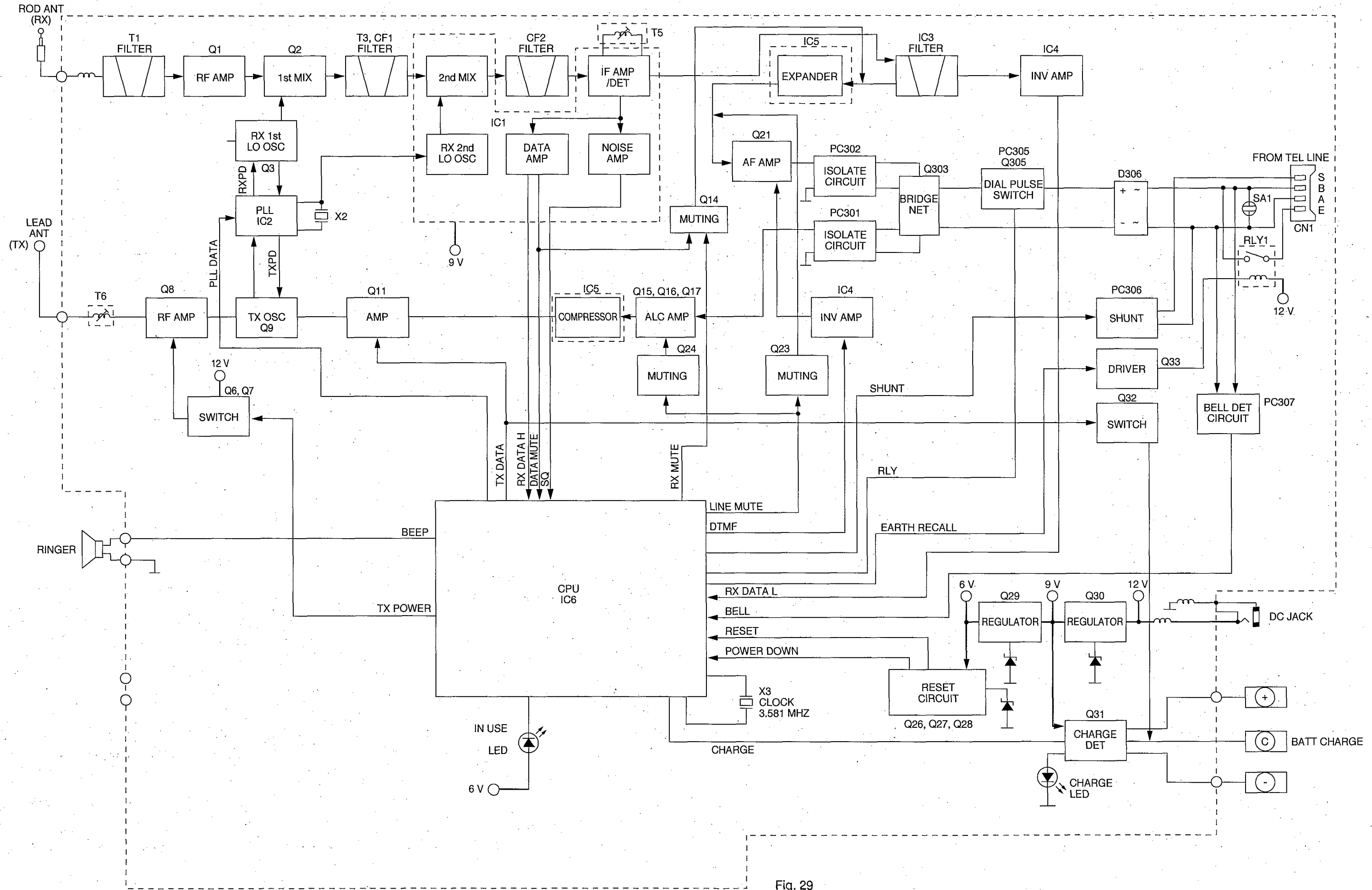


Fig. 29

BLOCK DIAGRAM (KX-T4066EH)

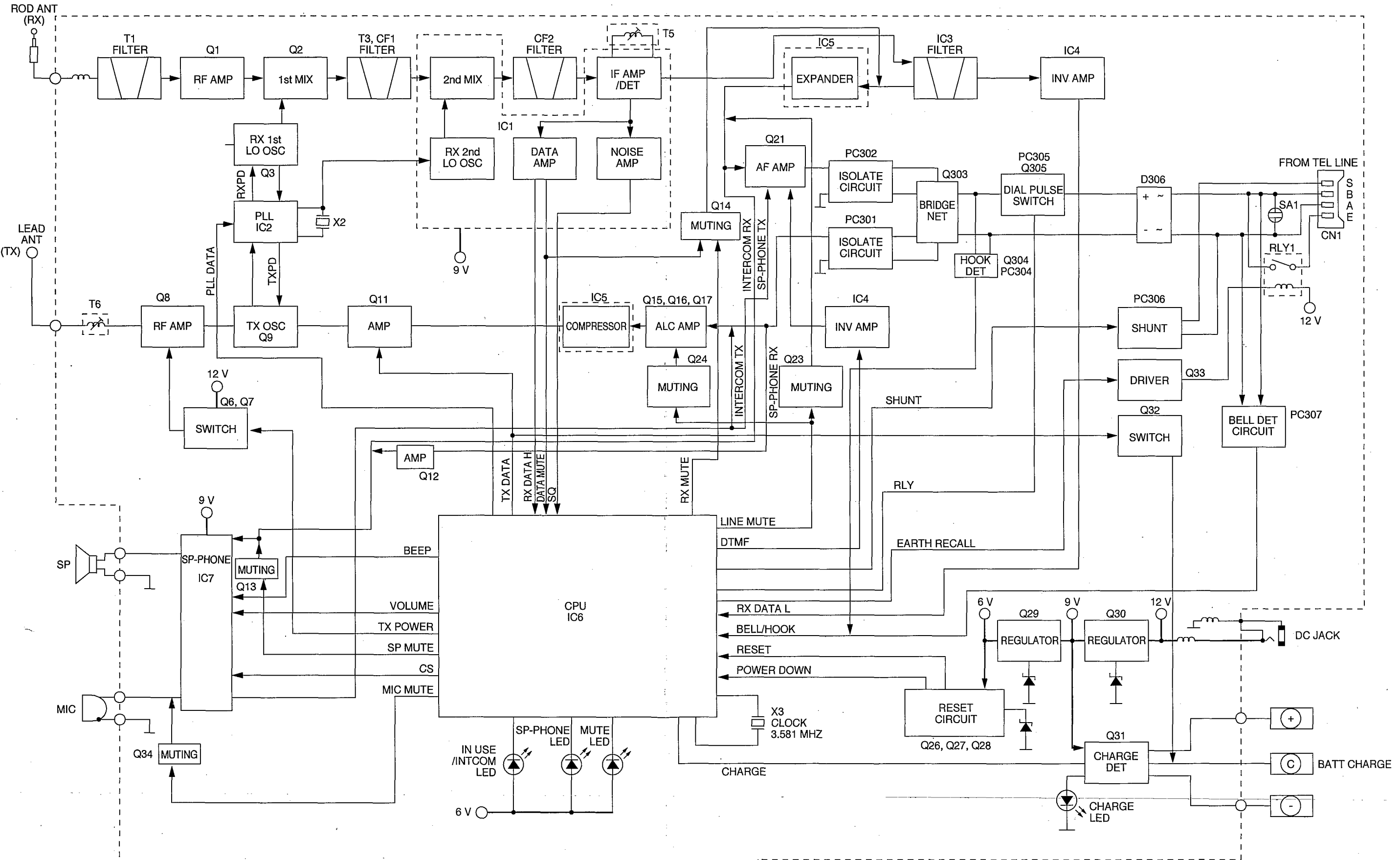


Fig. 30

NEW CIRCUIT OPERATION (KX-T4036EH/KX-T4066EH)

RECEIVER RF IF CIRCUIT

Circuit Operation:

The signal of 47 MHz band (47.46875~47.53125 MHz) which is input from ANT is filtered at T1, passes through the filter AMP of 47 MHz band at T2 and Q1, and is input to Q2.

RX VCO which oscillates at T4 and Q3 is input to Q2, 1st local frequency is controlled to assigned channel by serial data which is output from Pins 13, 49 and 50 of IC6 (CPU), makes loop with Phase Detector Out and RX VCO, and locks 1st local frequency.

The input signal of Q2 and 1st local frequency output from RX VCO are mixed, then it passes through CF1, and 1st IF frequency of 10.700 MHz is generated. Farther, the 10.250 MHz and 10.700 MHz which are oscillated at X2 and Pins 7, 8 of IC2 are mixed at inside of IC1 and filtered at CF2, and 2nd IF 450 kHz is output.

Circuit Diagram

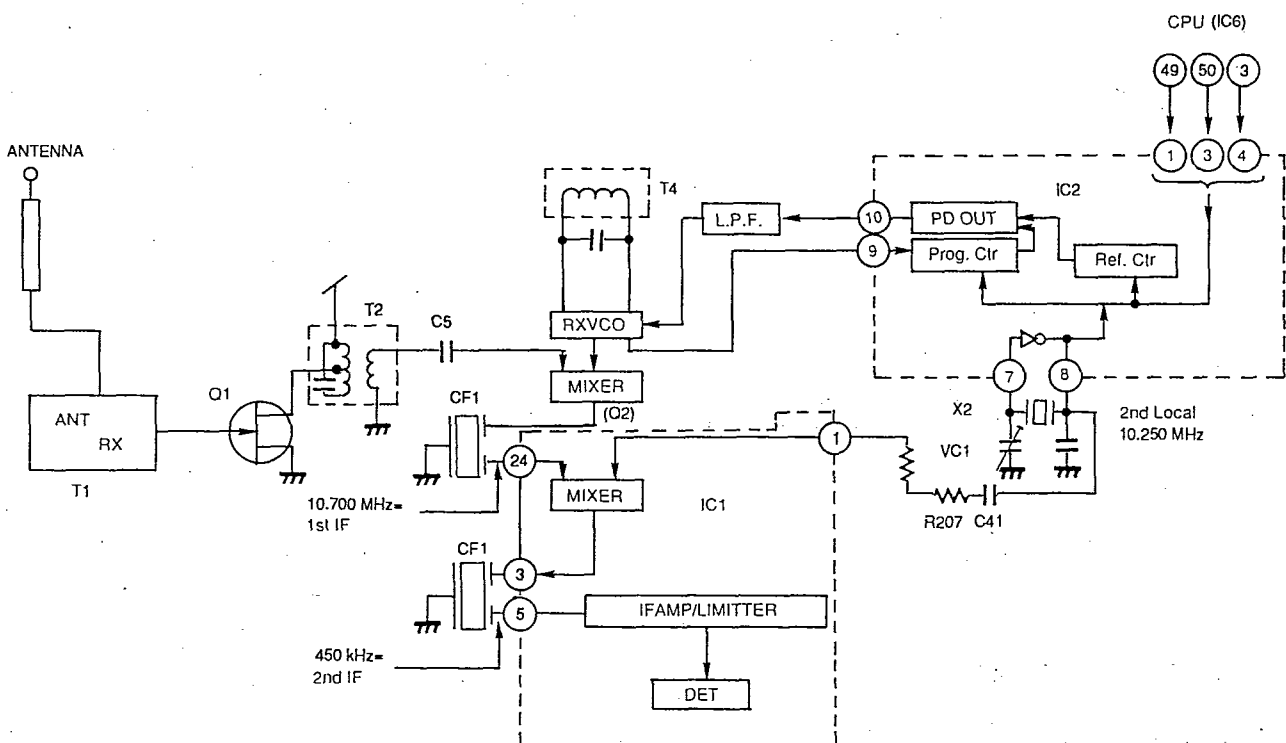


Fig. 31

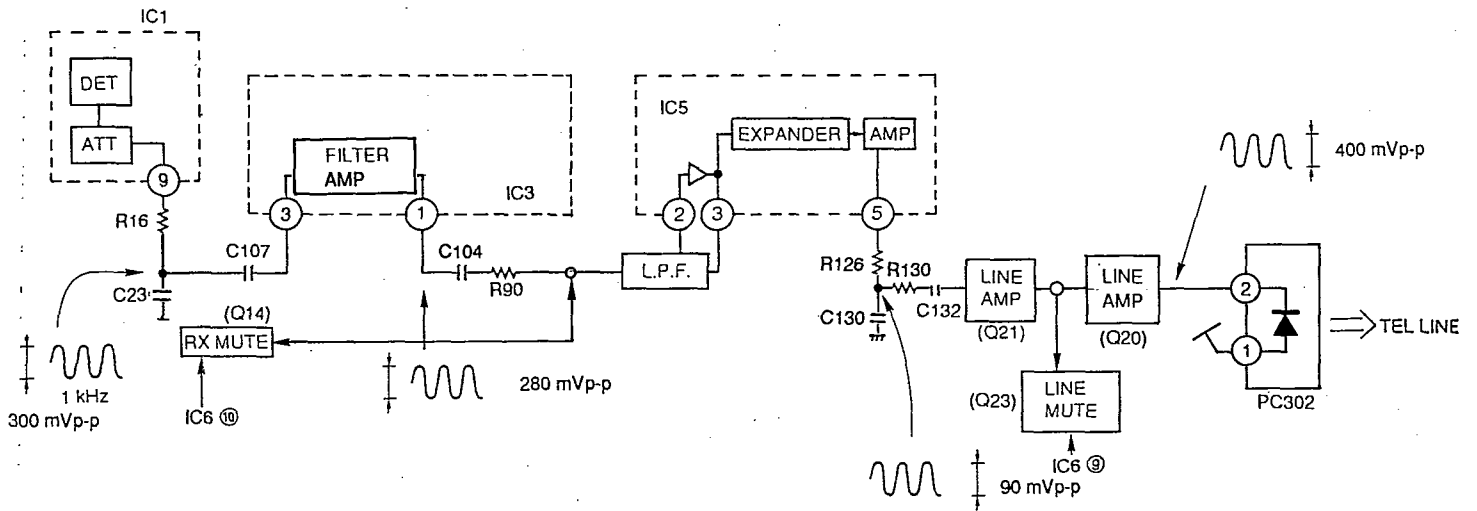
RECEIVER SIGNAL CIRCUIT

Circuit Operation:

1. The detected signal passes through R16, C107, is input to Pin 13 of IC3 (Filter Amp).
2. An input signal to Pin 3 of IC3 is output from Pin 1 as it is.

- Then, it goes through L.P.F. which consists of Pins 2, 3 of IC5 and external capacitor and resistor, and internal EXP/AMP of IC5, and is output from Pin 5 of IC5.
- Then it goes through Buffer Amp which consists of Q21, Q22 and TEL LINE INTERFACE PHOTOCOUPLER PC302, and is output to TEL LINE.

Circuit Diagram



Note: When applying the SSG input level of reception 60 dBuV (1.5 kHz Deviation, f=1 kHz) from antenna, all wave form are measured.

Fig. 32

■ TRANSMITTER SIGNAL CIRCUIT

Circuit Operation:

- The signal input from TEL LINE goes through TEL LINE INTERFACE TRANS PC301→Q19→Q15→R115, C116→Pins 21, 20 of IC5 Amp→LIMITER, COMPRESSOR, and is output from Pin 13 of IC5.
- Then, it goes through L.P.F. which consists of Pins 10, 11 of IC5 and external capacitor and resistor, and internal Amp of IC5, is output from Pin 9 of IC5, then goes through R124, C125, C133, VR1 and R99, and is input to modulator circuit.

Circuit Diagram

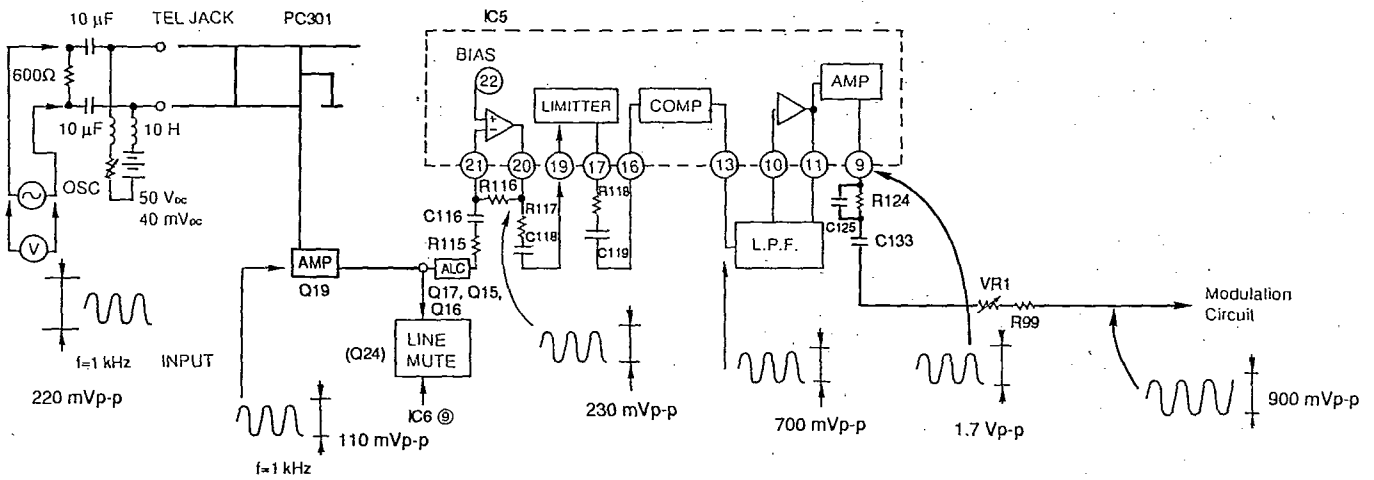


Fig. 33

■ INITIALIZATION CIRCUIT

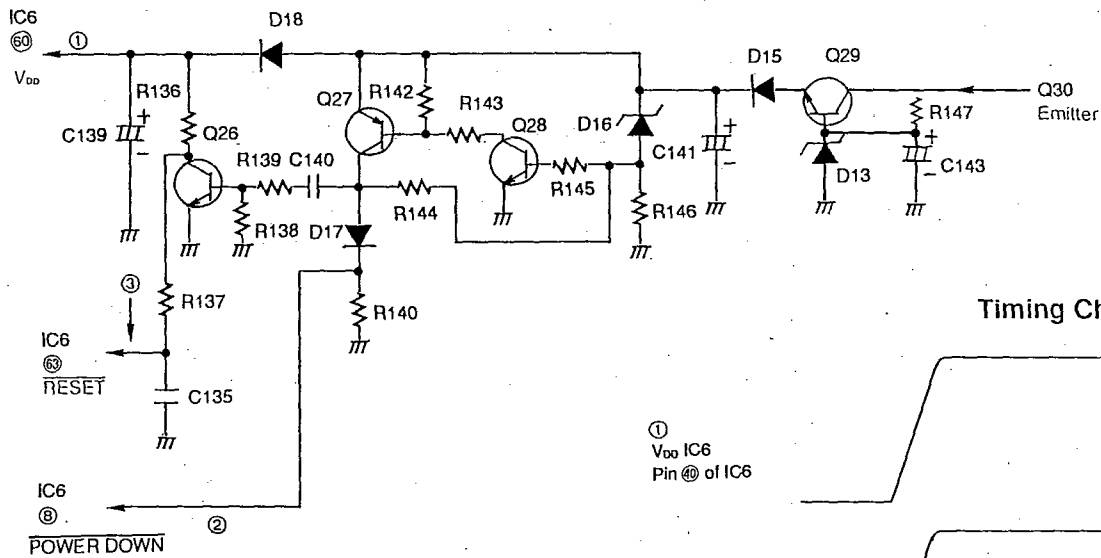
Function:

This circuit is used for initializing the microcomputer when the AC adaptor is connected.

Circuit Operation:

When the unit is switched ON, then the voltage is shifted by D15, D18 and power is supplied to the CPU.

Circuit Diagram



Timing Chart

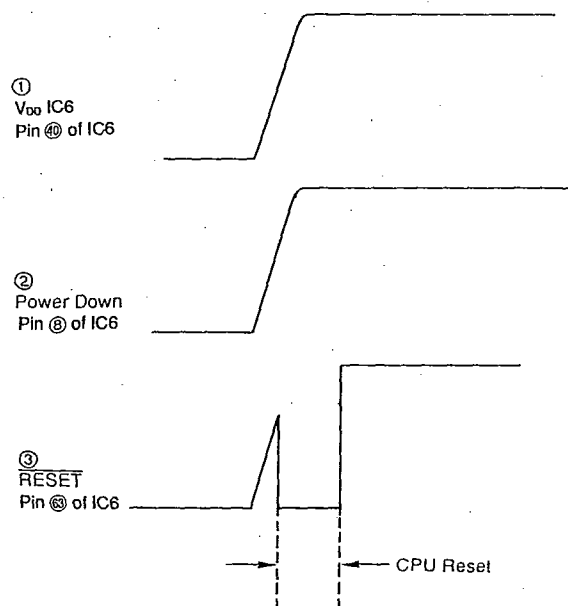


Fig. 34

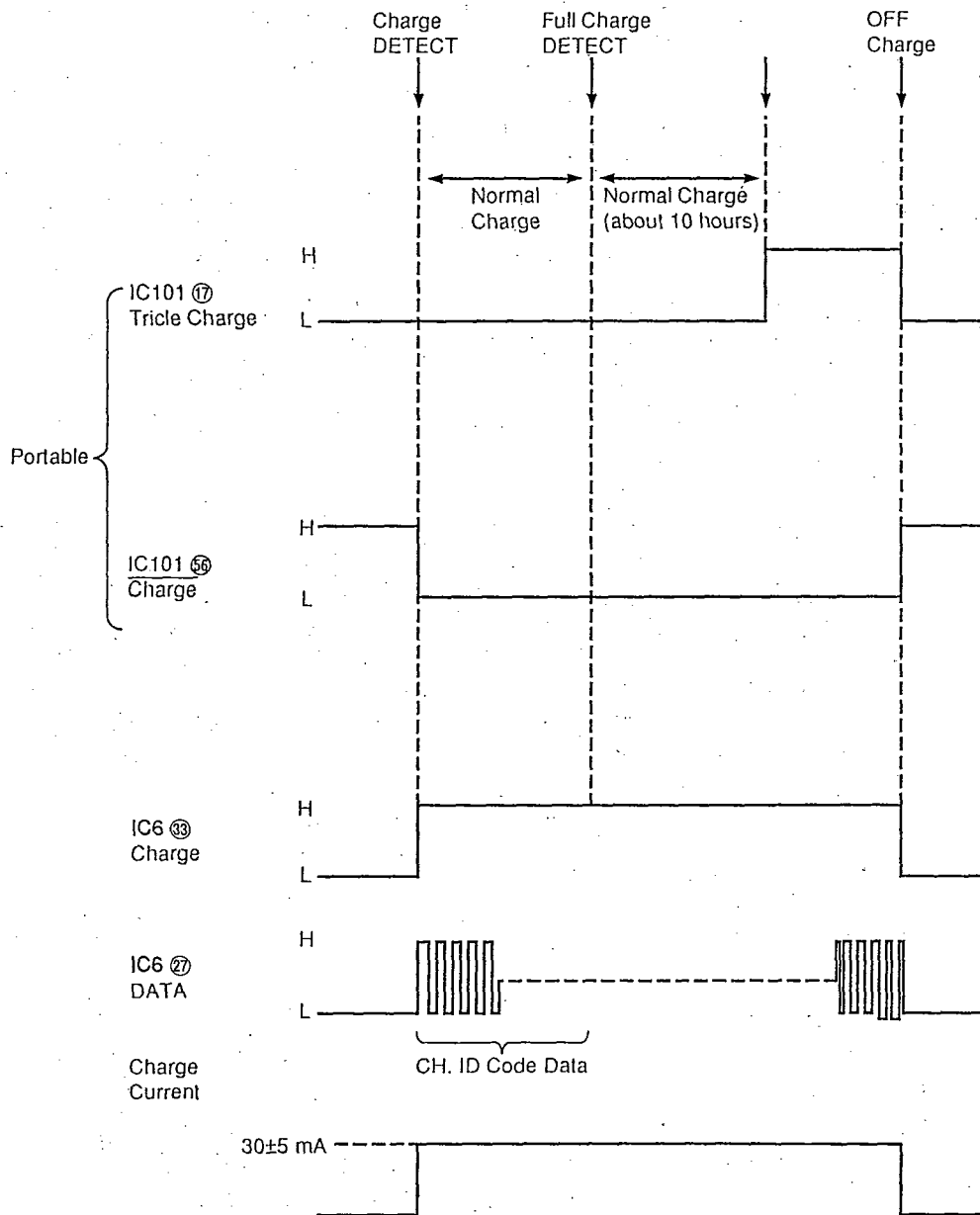


Fig. 36

■ CHARGE DETECT CIRCUIT (KX-T4066EH Only)

Circuit operation:

●CHARGE MODE

When charging the portable handset on the base unit, CH ID CODES are sent from the CONT terminal to the portable handset, and charging current is supplied to the portable handset from the battery charge contacts via R149, R150 on base unit:

When the collector output of Q31 on the portable handset is input to Pin 33 of IC6 (CPU) through D9 and IND 4 (CHARGE LED) light is on. When the Ⓐ point on the portable handset is High level, Q104 on portable handset goes on and Pin 56 of IC101 (CPU) becomes Low. In this way the CPU on portable handset detects the fact that the battery is charged.

●Set up of the portable handset

When charging the portable handset on the base unit, the data signal is sent from CONT terminal to portable handset. The Q32 switching is affected by Pin 27 of IC6, the sending data are CH data, ID code, tone or pulse mode data etc. The data signal is sent to Pin 42 of IC101 (CPU) via Q201 on portable handset.

While charging these data continue to be sent, the CPU of portable handset operates independent of whether power switch is turned ON or OFF, and these data are received by the CPU.

●Quick charge

When charging the portable handset on the base unit, DATA is sent from Pin 27, then portable handset receives the DATA at Pin 42 of IC101 (CPU). At this time, if battery of portable handset isn't full-charged situation, Pin 16 of IC101 in portable handset changes from Low to High, Q103 and Q101 switch ON to become quick charge mode. If portable handset is full-charged situation or reaches full-charged situation from quick charge situation, Pin 16 of IC101 becomes Low level, and portable handset sends DATA that tells it is full-charged situation with electric wave.

If it becomes full-charged situation, Q103 and Q102 turn OFF, it changes from quick charge mode to normal charge mode. And if it continues more than about 10 hours, Pin 17 of IC101 changes from Low to High and it changes trickle mode to protect battery from overcharge.

Circuit Diagram

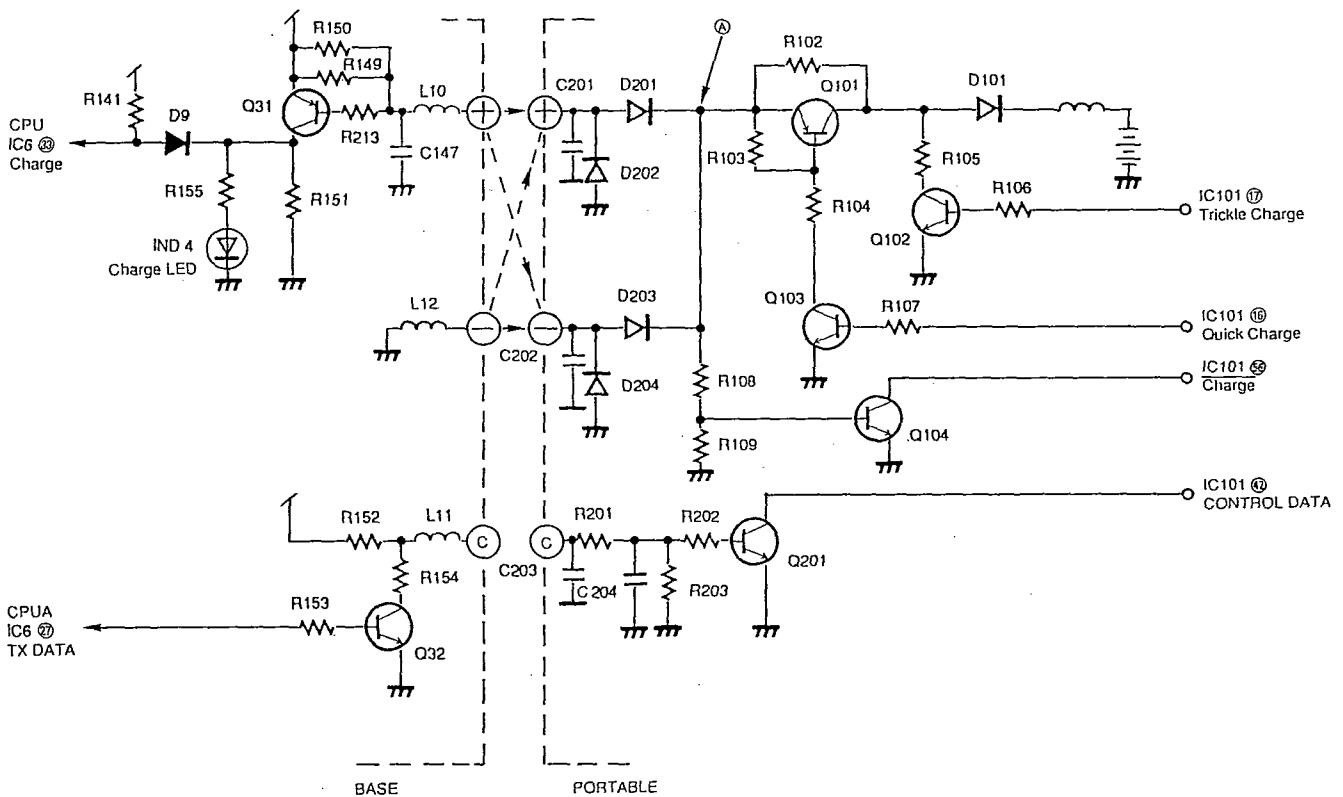


Fig. 37

Timing Chart

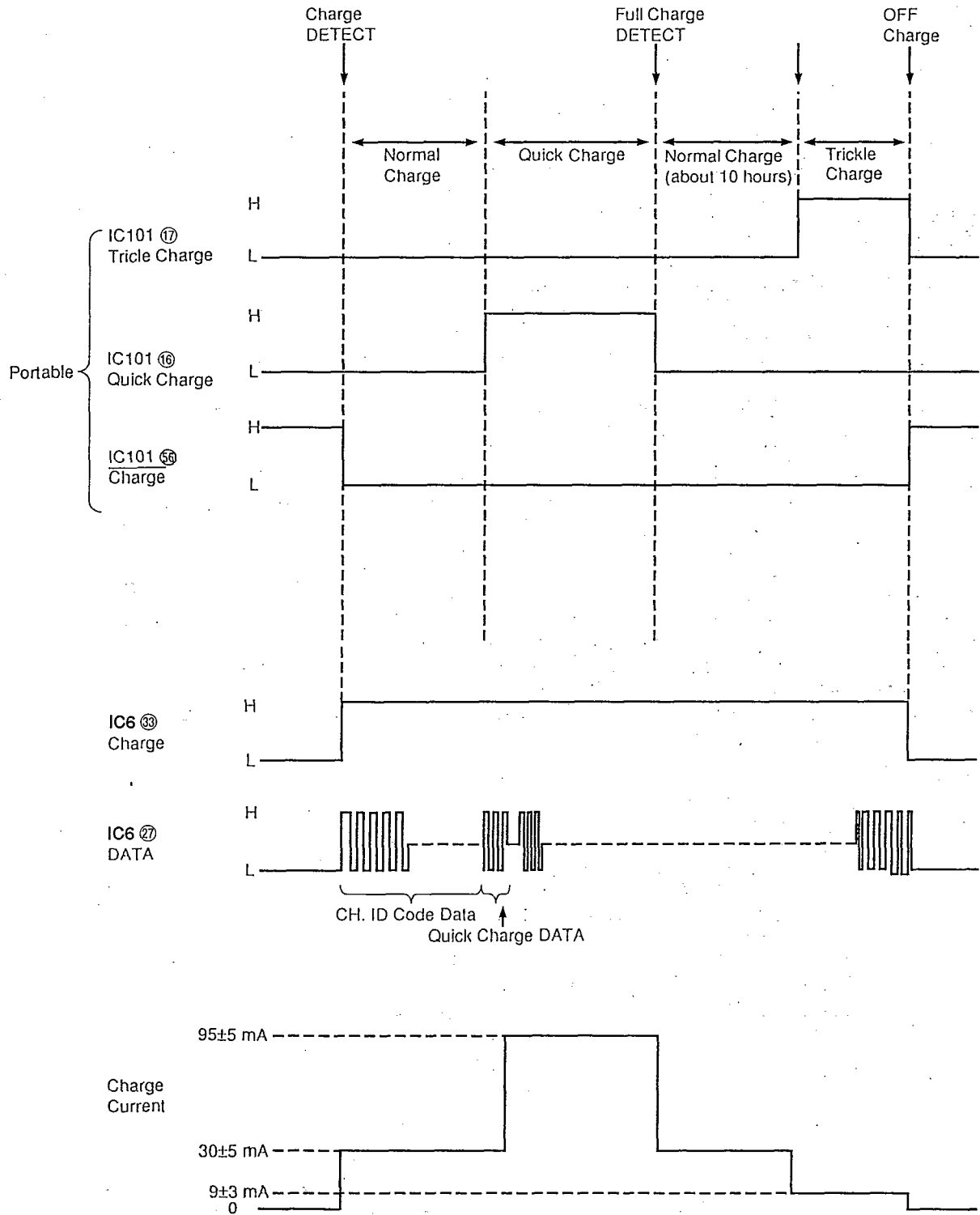


Fig. 38

NORMAL CIRCUIT OPERATION (KX-T4036EH/KX-T4066EH)

■ TELEPHONE LINE INTERFACE

Circuit Operation:

● ON HOOK

Q305 is open and connected as to cut the DC loop current and to cut the voice signal. The unit is consequently in an on-hook condition.

● SPECIFICATIONS

In the on-hook state (idle), the current flows between the telephone line and the unit is as follows:

A → PO1 → R328 → PC307 → S

The DC component is blocked by BT-socket: thereby providing an on-hook condition.

The AC interface impedance is over 47 kΩ; thus, satisfying the telephone company requirements.

■ TELEPHONE MODE OPERATION (KX-T4066EH Only)

When a ring signal enters from the Line

- 1) The ring detection circuit, i.e., the photocoupler PC307, begins to operate and its output is input to Pin 7 of IC6 (CPU).
- 2) To show the arrival of the ring signal to the portable handset, Pin 26 of IC6 enters into the transmit mode thus becoming a High and the ring data having the code set by Pin 27 of IC6 is sent to portable handset as a modulated output signal.
- 3) Upon receiving the ring data, and the portable handset is switched from standby to the talk mode, the base unit receives a carrier modulated by the data indicating a switch from standby to talk. This data is then demodulated at the base unit and passes through a data signal amplifier of IC1. This signal is then inputted to Pin 6 of IC6, activating Pin 55 of IC6 which causes Q305 and PC305 to release the muting, and enable talk.

Circuit-making from the portable handset

- 1) When the operator of the portable handset presses the talk button, data is transmitted the base unit, this data is then demodulated by the base unit and passed through data signal amplifier of IC1 and enters Pin 6 of IC6.
- 2) When the codes coincide, Pin 55 of IC6 becomes a "Low". At this time the transmit condition is enabled and the muting is cancelled via Q25, and the photocoupler PC305 is turned on.
- 3) Further, and IN USE signal is sent out from Pin 48 of IC6, thus dimly lighting the IN USE/INT'COM LED (IND1).

Circuit Diagram

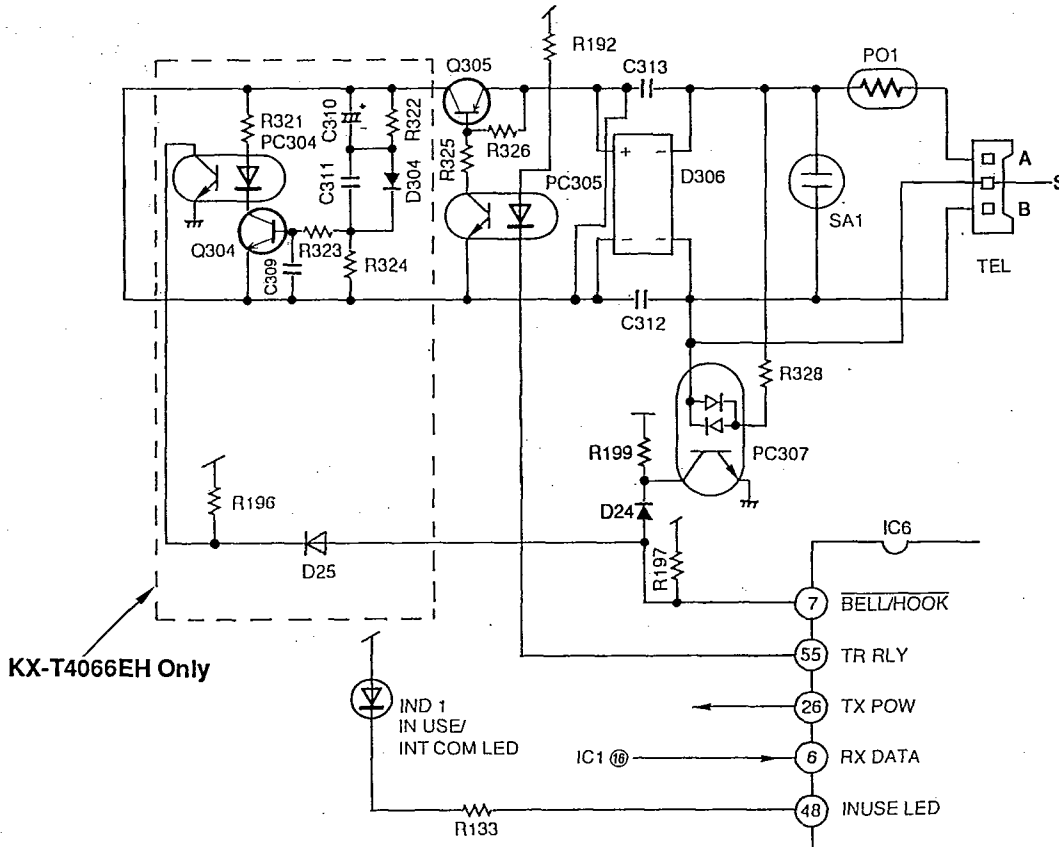


Fig. 39

■ INTERCOM MODE (KX-T4066EH Only)

- 1) When the base unit PAGE/INTERCOM button is pressed, a call monitor signal of 1.95 kHz (intercom sound) is output from Pin 54 of IC6 and Pin 52 of IC6 becomes "LOW". Thus a monitor tone is heard from the speaker.
- 2) At the same time, Pin 26 of IC6 goes "High", and the transmission state is reached. Then the modulated data signal is output from Pin 27 of IC6. Flashing of the INTERCOM LED (IND1) is obtained from Pin 48 of IC6. This status is called "Intercom stand-by".
- 3) Operating the intercom is possible from the portable handset as described below. When the PAGE/INTERCOM button of the portable handset is pressed with the portable handset in the stand-by mode, a radio wave is transmitted from the portable handset. This signal is received by the base unit, detected and sent as an output at Pin 16 of IC1. This wave shaped signal is entered at Pin 6 of IC6 as data to be analyzed by the CPU (IC6). Speaker muting is cancelled by a change of Pin 25 of IC6 from HIGH to a LOW, thus a monitor tone is output from Pin 53, 54 of IC6. This monitor tone is amplified by IC7 and can be heard from the speaker. At the same time, the INTERCOM LED (IND1) is made to flash via Pin 48 of IC6. Thus microphone and speaker muting are cancelled by Pin 25 of IC6, enabling the microphone and speaker amplifiers to operate, thus intercom calls become possible.
- 4) When a ring signal arrives from the line during an intercome call, a ring monitor signal flows from Pin 53, 54 of IC6 to the speaker. However this monitor tone is not transmitted to the portable handset.

■ SPEAKERPHONE OPERATION (KX-T4066EH Only)

When the ring signal is received

1. When the ring signal is received from line, photocoupler PC307 operates, the output enters Pin 7 of IC6 (CPU), Pin 26 of IC6 goes High, and the system goes into the Send mode. Also, Pin 25 of IC6 goes Low, activating IC7 (speakerphone). Next, Pins 53, 54 of IC6 output the monitor tone which enters Pin 20 of IC7 and is then output from the speaker. Subsequently, the same operation as for Line takes place. Next, when the speakerphone switch is turned ON, the line in which the ring is ringing is selected, and Q305, goes ON, causing the line to be selected.

Circuit Diagram

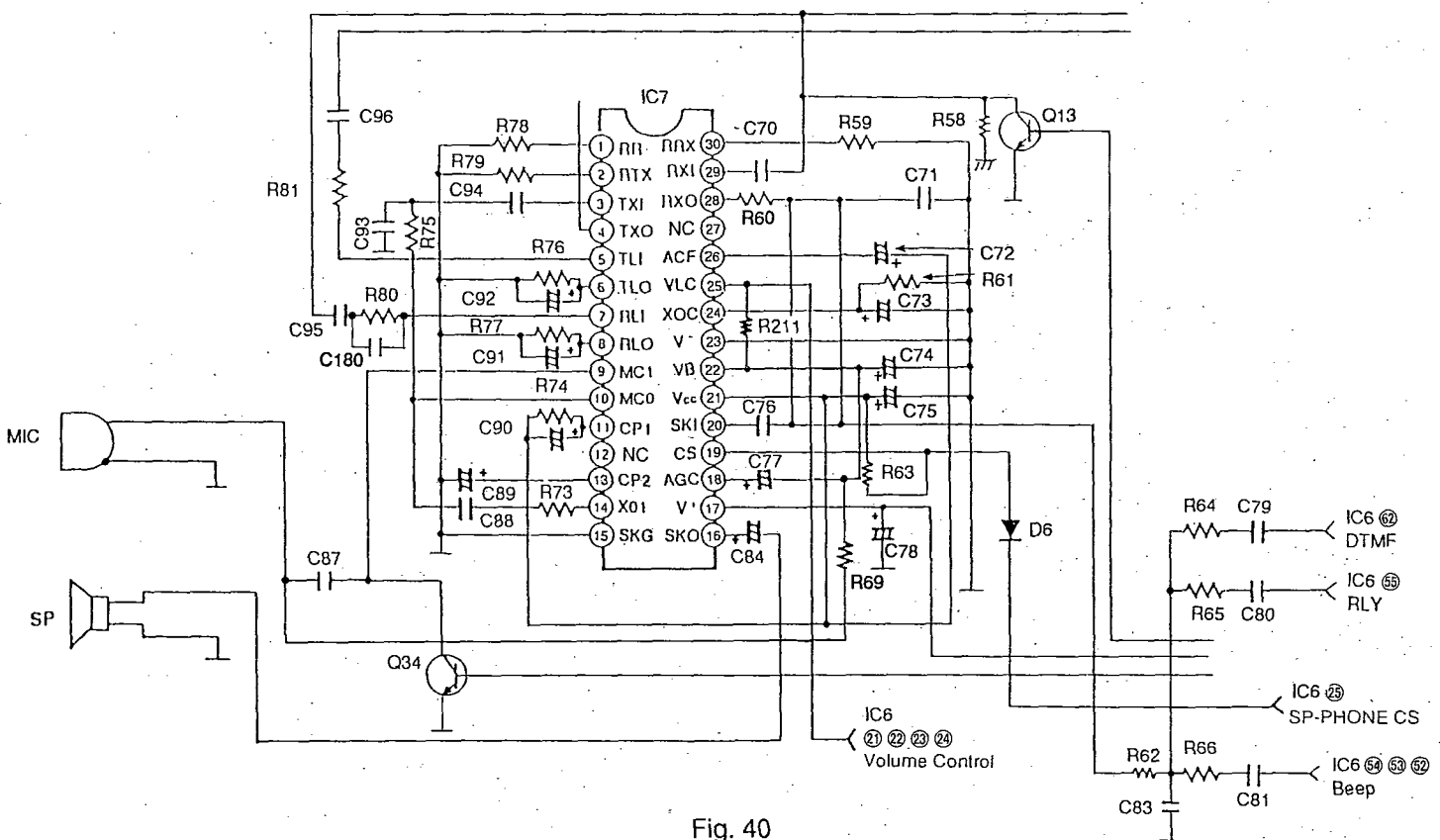


Fig. 40

■ CPU OPERATION

1. TEL MODE AND INTERCOM MODE

CPU Terminals Operation Mode	50 CH DATA	9 L MUTE	12 SP MUTE	26 TX POW	27 TX DATA	53, 54 BEEP	55 TR-RLY
KX-T4036E/KX-T4066E							
STANDBY	L or H	H	H	L	H	L	H
TALK	FIXED	L	H	H	H	L	L
4036EH→4036ER 4066EH→4066ER Ring	FIXED	H	H	H	DATA	L	H
4036EH→4036ER 4066EH→4066ER Paging	FIXED	H	L	H	DATA	⌋⌋⌋	H
CHARGE	L or H	H	H	L	H	L	H
CH Changing (TALK)	L or H	H	H	L	—	L	L
KX-T4066E Only							
INTERCOM	FIXED	H	L	H	H	L	H
4066ER→4066EH Paging	FIXED	H	L	H	DATA OUTPUT	⌋⌋⌋	H
CH Changing (INTCOM)	L or H	H	H	L	—	L	H

2. TIMING OF IC7 (CPU) OUTPUT PORT WITH THE BASE UNIT IN PAGE/INT' MODE

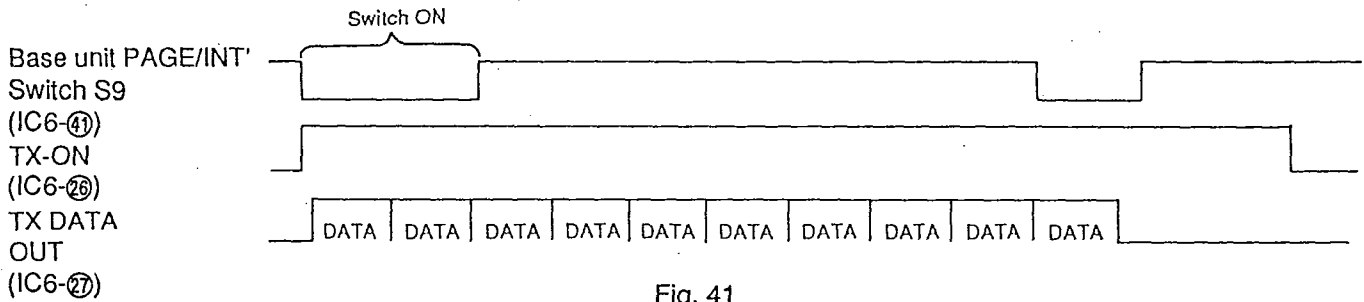


Fig. 41

3. WHEN PRESSING THE TALK SWITCH OF THE PORTABLE HANDSET

4. WHEN SETTING THE ON/OFF SWITCH OF THE PORTABLE HANDSET TO OFF

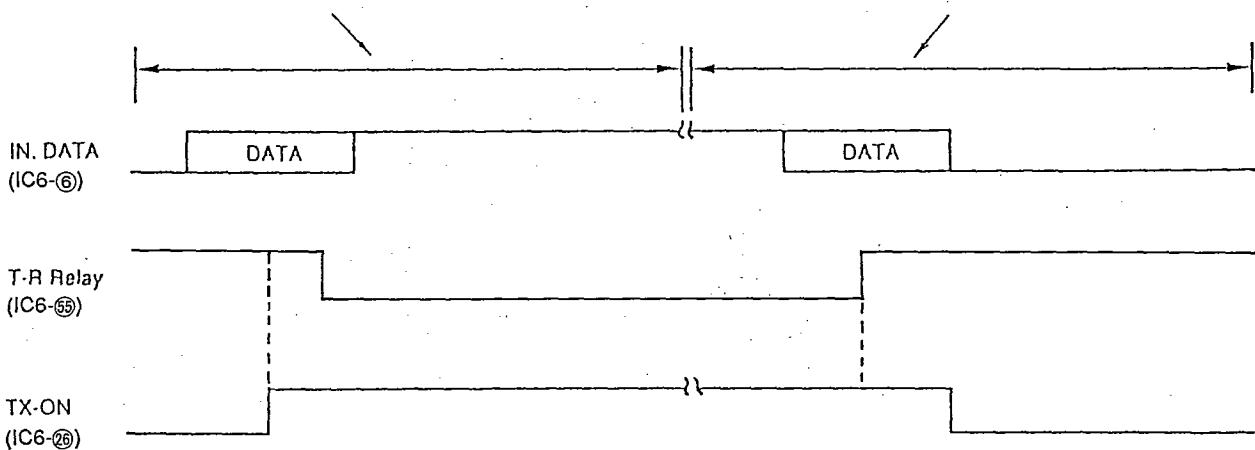


Fig. 42

5. RESONANCE PREVENTION CIRCUIT

Circuit Diagram

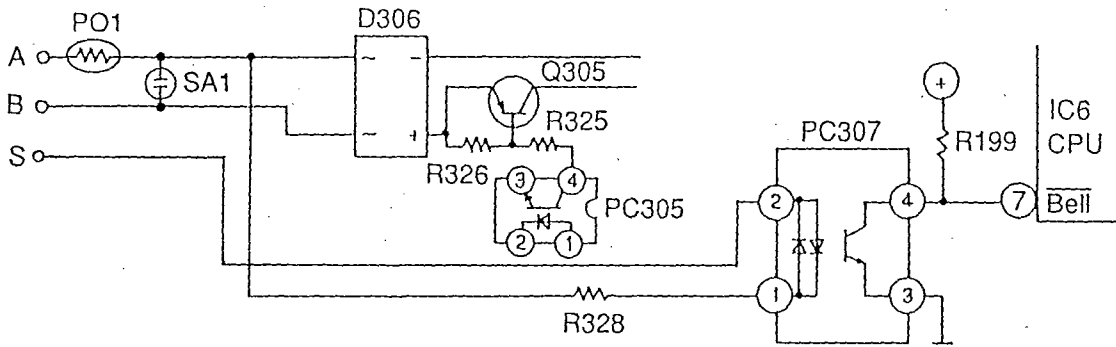
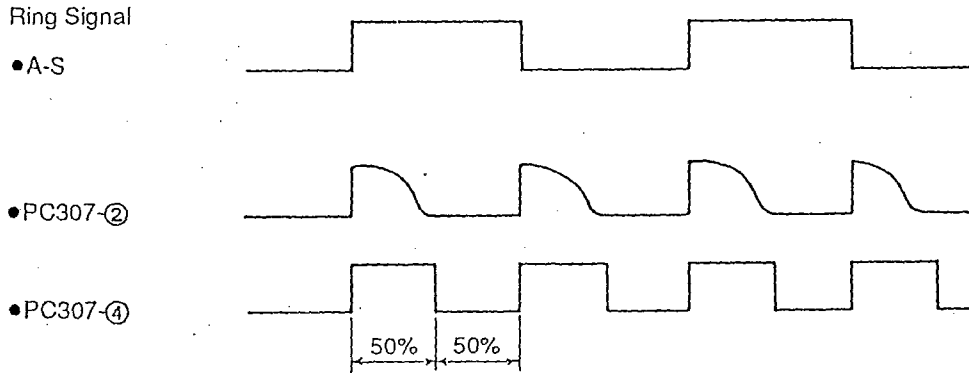


Fig. 43



Make/break ratio when dialling 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 IC6-⑦ (CPU), it is judged as a ring signal. See Fig. 43.

6. EXPLANATION OF THE RECEIVE CIRCUIT

6-1. Signal Flow

Circuit Diagram

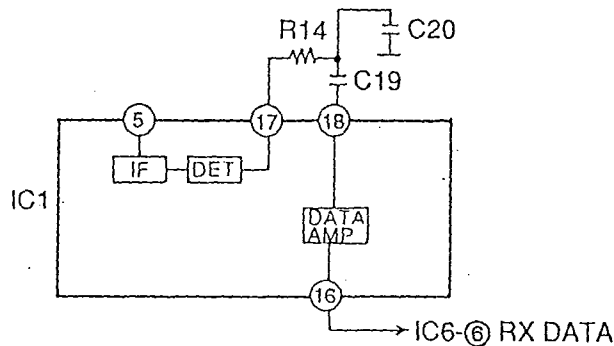


Fig. 44

In areas where the transmission power from the portable handset is extremely weak, noise is superimposed on the data and the chance of an error can become extremely great upon reception of the data. To help prevent this, the above circuit is used.

MEMO

BLOCK DIAGRAM (KX-T4036ER)

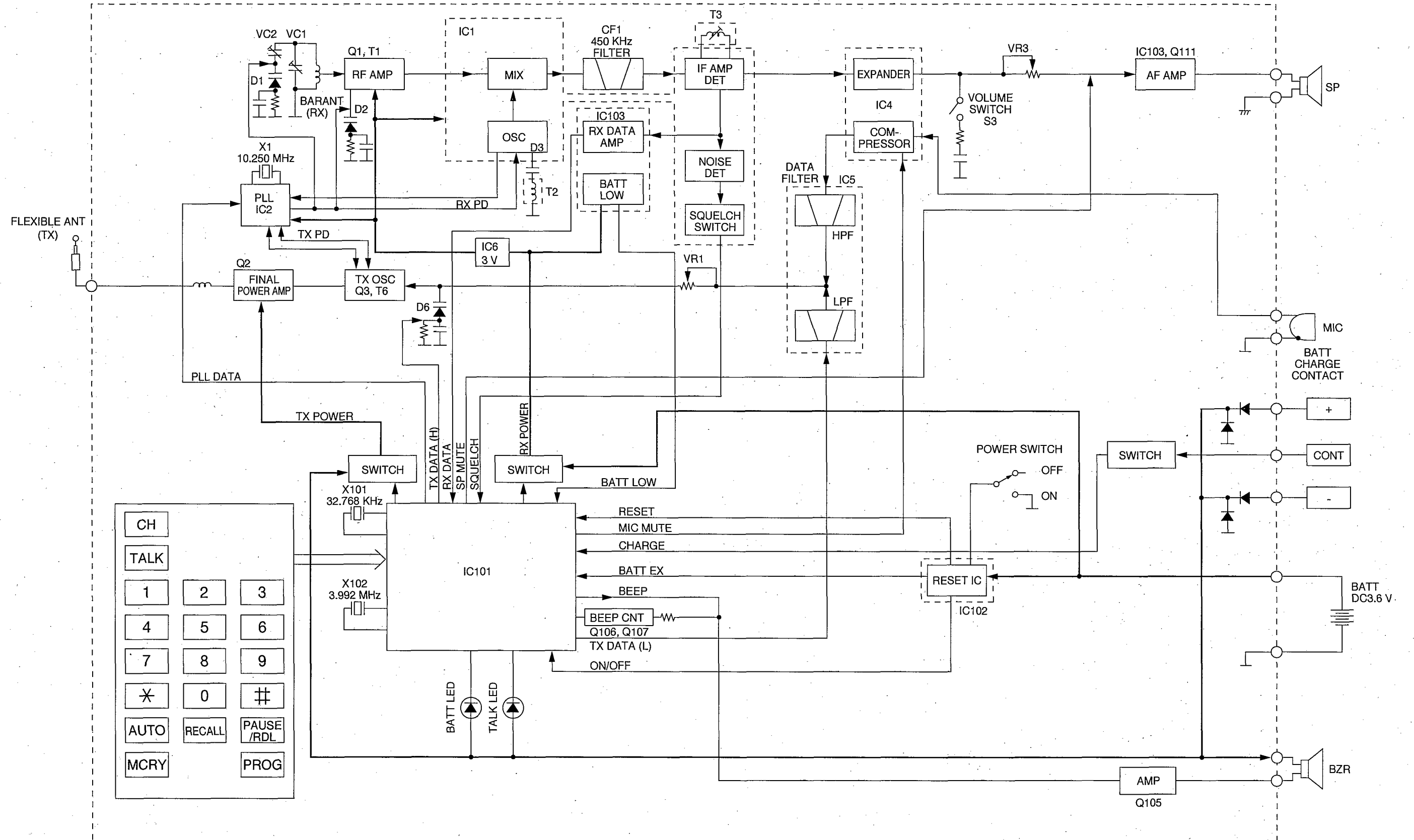


Fig. 45

BLOCK DIAGRAM (KX-T4066ER)

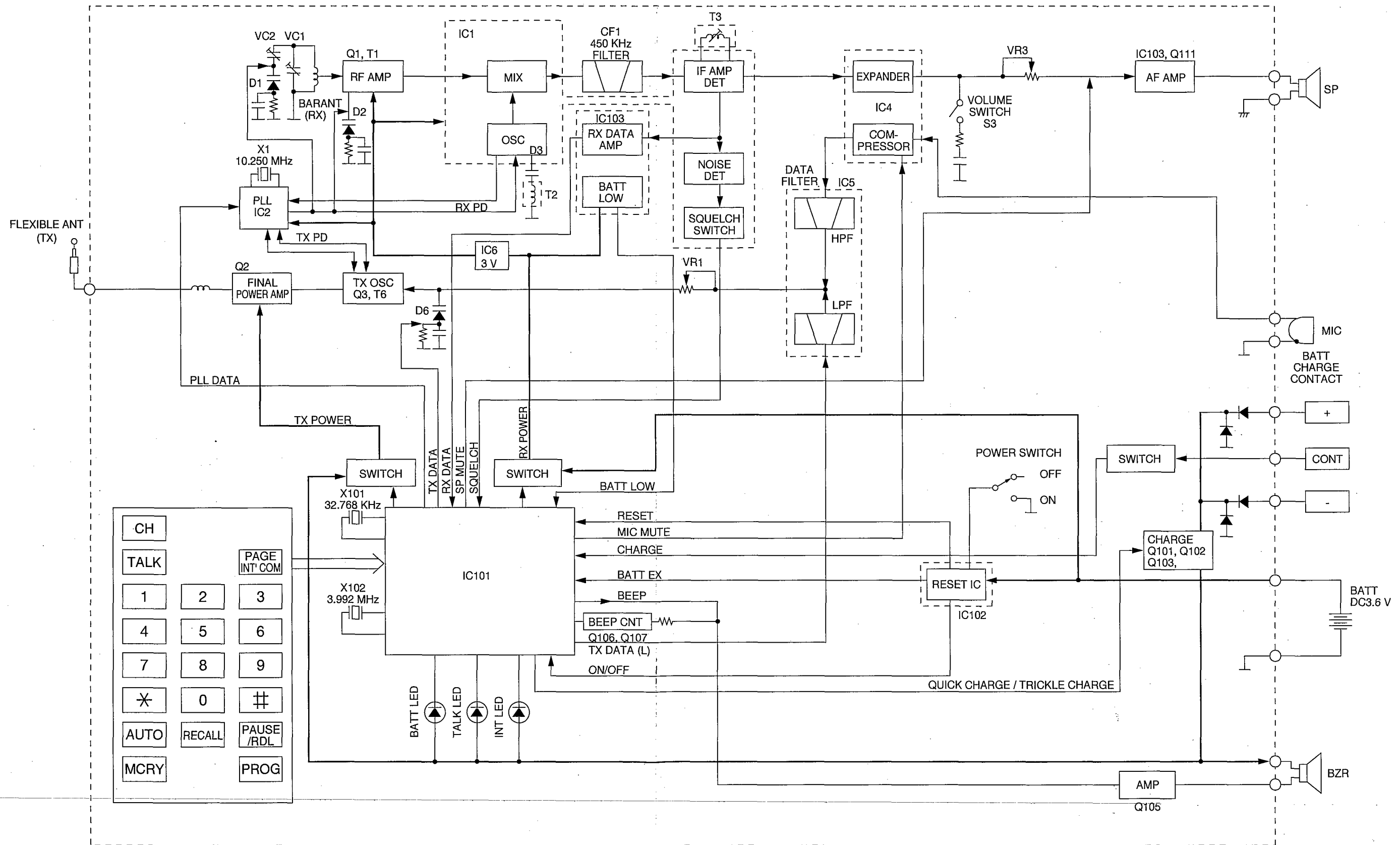


Fig. 46

NEW CIRCUIT OPERATION (KX-T4036ER/KX-T4066ER)

■ RECEIVER RF IF CIRCUIT

Circuit Operation:

The signal of 1.7 MHz band (1.662 MHz~1.762 MHz) which is input from Bar Ant, passes through filtered Amp of 1.7 MHz band at T1 and Q1, and is input to Pin 16 of IC1.

The RX VCO which oscillates at T2 and IC1 is locked to Local frequency by PLL IC2. (PLL is controlled by serial data output from Pin 46, 47 and 48 of IC101.)

An input signal from Pin 16 of IC1 and Local frequency output from RX VCO are mixed inside IC1, pass through CF1, and IF frequency of 450 MHz is generated.

Circuit Diagram

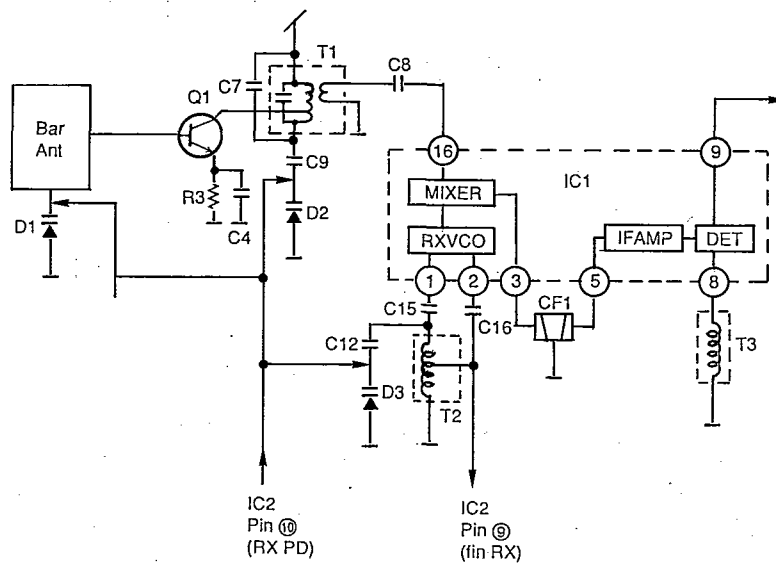


Fig. 47

■ RECEIVER SIGNAL CIRCUIT

Circuit Operation:

1. PLL CONTROL (CH, REFERENCE, COUNTER) are all controlled by serial data output from Pins 46, 47 and 48 of IC101.
2. A detected signal output from Pin 9 of IC1, passes through R36, C65 and L.P.F., then it is input to Pin 2 of IC4 (EXPANDER.)
3. An output signal of Expander (Pin 5 of IC4) is input to Pin 3 of IC3. IC3 drops a signal level 5 dB only when MIC input signal comes into Pin 6 of IC3 to improve the sidetone.
4. Next, it passes through SP Amp (between Pin 5 and Pin 6 of IC103, Q111), and is output to speaker.

Circuit Diagram

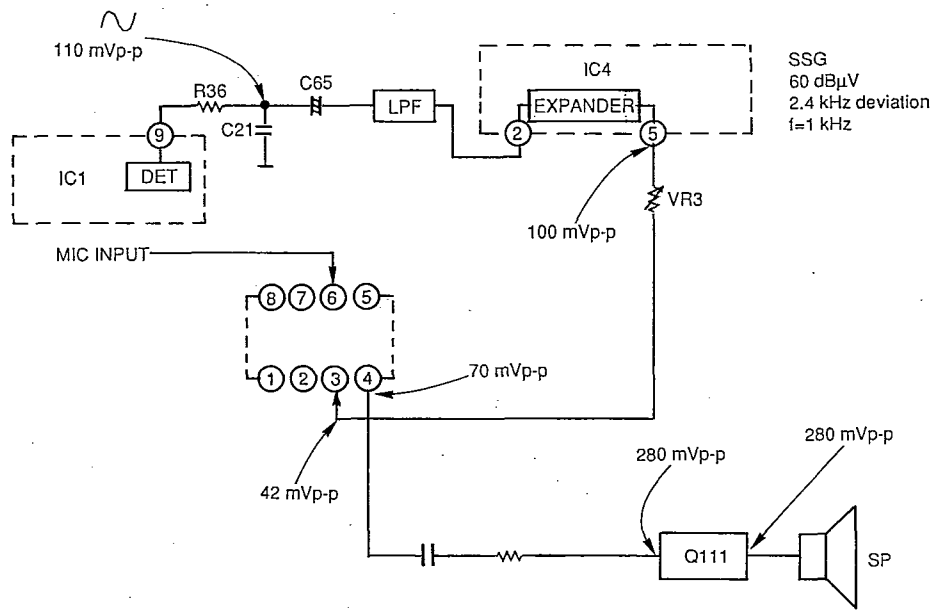


Fig. 48

Note: When applying the S.S.G. input level of reception 60 dBμV (2.4 kHz deviation, f=1 kHz) from the antenna a all waveform are measured.

■ TRANSMITTER SIGNAL CIRCUIT

Circuit Operation:

1. Input signal from MIC passes through C81, R55 and is input to Pin 21 of IC4, passes through Limiter and L.P.F., and is output to Pin 17.
2. Next, it passes through R57, C80 and is input to Pin 16 of IC4, then passes through COMPRESSOR and L.P.F., and is output to Pin 9.
3. An output signal from Pin 9 passes through C72, R17 and VR1, and is input to modulator circuit.

Circuit Diagram

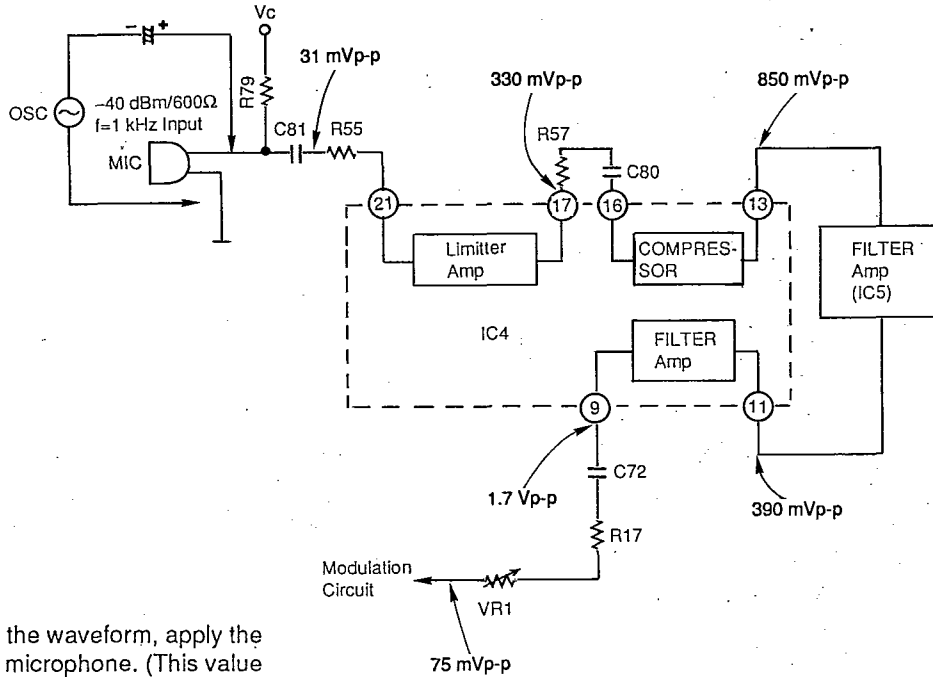


Fig. 49

Note:

When measuring the waveform, apply the OSC Signal from microphone. (This value is signal level when input electrically from MIC, and if MIC operates soundly, Bias of DC voltage from R79 will be necessary.)

RECEIVER DATA CONTROL CIRCUIT

Circuit Operation:

The received signal that is output from Pin 9 of IC1 is input to Pin 13 of IC103 where the waveform is adjusted. The resulting signal is output from Pin 8 and input to Pin 44 of CPU.

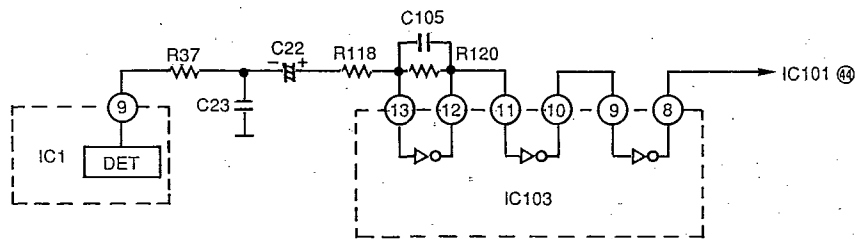


Fig. 50

BATTERY DETECTOR CIRCUIT

Circuit Operation:

When the battery voltage goes down and the rest of operating time becomes short, it is detected by D7 and Pin 41 of IC101 turns high level. Then Battery Low LED flashes and the alarm sounds every 15 seconds.

NORMAL CIRCUIT OPERATION (KX-T4036ER/KX-T4066ER)

■ CPU OPERATION

CPU Terminals	36 TX DATA	39 RX POW	40 TX POW	55 BEEP OUT	63 INT'COM LED	64 TALK LED
Operation Mode						
KX-T4036E/KX-T4066E						
STANDBY	L	L	H	H	H	H
TALK	L	L	L	H	H	L
INTERCOM	L	L	L	H	L	H
4036EH→4036ER Ring 4066EH→4066ER Ring	—	L	L	⌋⌋	H	FLASHING
4036EH→4036ER Paging 4066EH→4066ER Paging	—	L	L	⌋⌋	FLASHING	H
CHARGE	L	L	H	H	H	H
During (INTCOM)	—	L	L	H	L	H
During (TALK)	—	L	L	H	H	L
4036ER PULSE DIAL 4066ER PULSE DIAL	DATA	L	L	—	H	FLASHING
4036ER TONE DIAL 4066ER TONE DIAL	DATA	L	L	—	H	L
4036ER OFF MODE 4066ER OFF MODE	L	H	—	H	H	H
KX-T4066E Only						
4066ER→4066EH Paging	DATA	L	L	⌋⌋	FLASHING	H

■ RESET CIRCUIT POWER ON/OFF CIRCUIT

Reset circuit

The reset signal is input to Pin 2 of the CPU by the below circuit.

Once the reset signal is input, the CPU starts to operate from the memory hold mode.

(A) The reset signal will be output if S1 goes On when voltage of battery is higher than 2.8 V.

Circuit Diagram

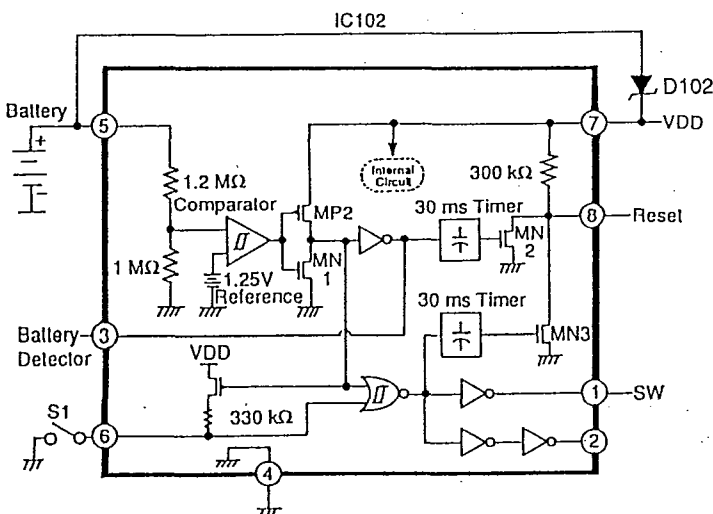


Fig. 51

Timing Chart

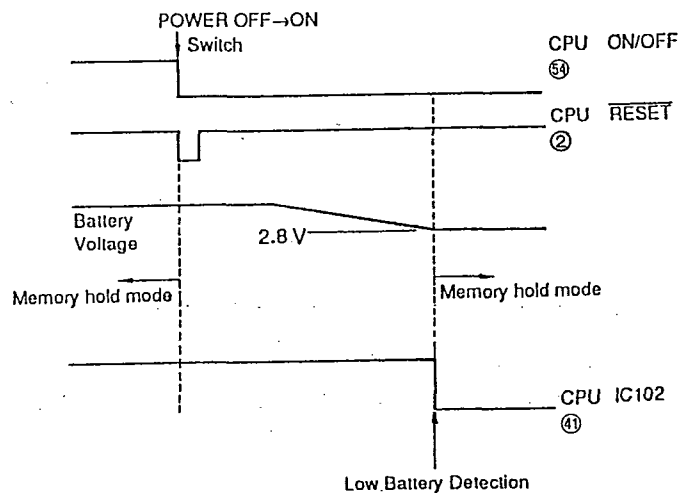


Fig. 52

RF SPECIFICATION (KX-T4066E)

BASE UNIT (KX-T4066EH)

Item	Value	Refer to —	Remarks
TX Frequency	1.702 MHz±200 Hz	Page 23 (C)	at CH4
TX Power	At a peak	Page 23 (D)	
TX Modulation factor	2.0 kHz~2.4 kHz	—	
TX Modulation Distortion	Less than 10%	—	
TX Max. Modulation factor	1.8 kHz~4.0 kHz	—	
Data Modulation factor	2.0 kHz~4.5 kHz	—	

Portable Handset (KX-T4066ER)

Item	Value	Refer to —	Remarks
Practical Sensitivity	Less than 9 dBμV	—	at CH4 (Antenna factor 20 dB)
TX Frequency	47.49375 MHz±200 Hz	Page 39 (D)	at CH4
TX Output	300 mV~700 mV	Page 39 (E)	at CH 4 (Antenna soldering point 50Ω Load)
Data Modulation factor	1.5 kHz/dev~2.5 kHz/dev	Page 40 (H)	at CH4
MIC Modulation factor	1.0 kHz/dev~2.0 kHz/dev	—	at CH4 (Set -40 dB at 600Ω termination. When it is inputted to MIC, remove the 600Ω.)

HOW TO CHECK THE PORTABLE HANDSET SPEAKER (KX-T4066E)

1. Prepare the digital voltmeter, and set the selector knob to ohm meter.
2. Put the probes at the speaker terminals as shown in Fig. 53.

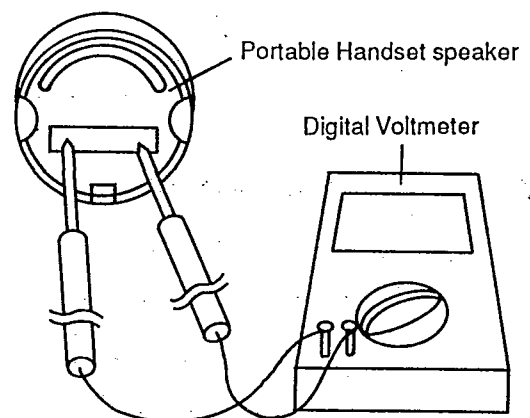
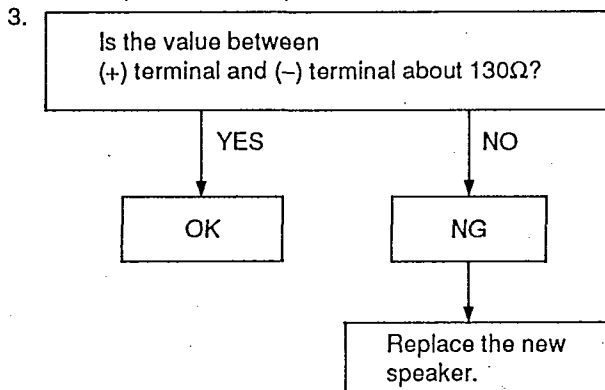


Fig. 53

HOW TO REPLACE FLAT PACKAGE IC

■ PREPARATION

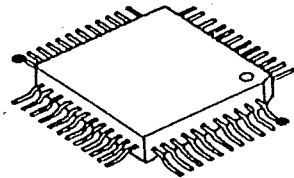
- SOLDER Sparkle Solder 115A-1, 115B-1
OR
Almit Solder KR-19, KR-19RMA
- Soldering iron Recommended power consumption will be between 30 W to 40 W.
Temperature of Copper Rod 662 ± 50 °F (350 ± 10 °C)

(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

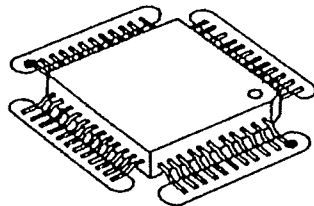
1. Temporary fix for FLAT PACKAGE IC by soldering on the marked 2 pins.



●Temporary soldering point.

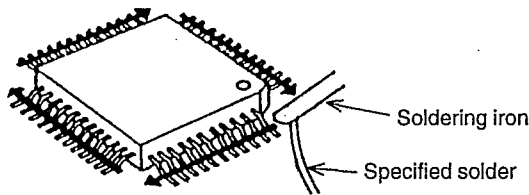
*A most important matter is the accurate setting of IC to the corresponding soldering foil.

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



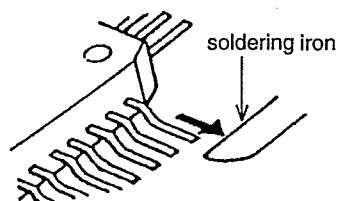
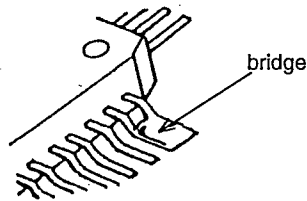
..... Flux

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



■ MODIFICATION PROCEDURE OF BRIDGE

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



TROUBLESHOOTING GUIDE (KX-T4036E/KX-T4066E)

Symptom	Refer to page —.	Unit for repair
KX-T4036E/KX-T4066E		
The base unit does not receive a call from portable handset.	23	Base Unit
The base unit does not transmit, and the transmit frequency is slipped.		
The transmit frequency is slipped.		
The transmit output is low, and the arrival distance is shorted between base unit and portable handset.		
The reception sensitivity of base unit is wrong, the noise is occurred.		
The charge indicator does not light.	87	
The movement of Battery Low indicator is wrong.	39	Portable Handset
The base unit does not receive a call from portable handset.		
The base unit does not transmit, and the transmit frequency is slipped.		
The transmit frequency is slipped.		
The transmit output is low, and the arrival distance is shorted between base unit and portable handset.		
The reception sensitivity of base unit is wrong, the noise is occurred.		
Does not link between base unit and portable handset.		
The beep is not heard from portable handset.	87	
The TALK indicator does not flash.	88	
KX-T4036E Only		
The IN USE indicator of base unit does not flash.	83	Base Unit
The IN USE indicator does not flash.	87	
KX-T4066E Only		
The base unit does not ring from the speaker.	86	Base Unit
The base unit does not seize the telephone line.	86	
The mute indicator does not light.	86	
Hold function of base unit does not work.	86	
The movement of Battery Low indicator is wrong.	39	Portable Handset
The base unit does not receive a call from portable handset.		
The base unit does not transmit, and the transmit frequency is slipped.		
The transmit frequency is slipped.		
The transmit output is low, and the arrival distance is shorted between base unit and portable handset.		
The reception sensitivity of base unit is wrong, the noise is occurred.		
Does not link between base unit and portable handset.		
The PAGE/INTERCOM indicator does not flash.	90	
The unit does not become the intercom mode.	91	

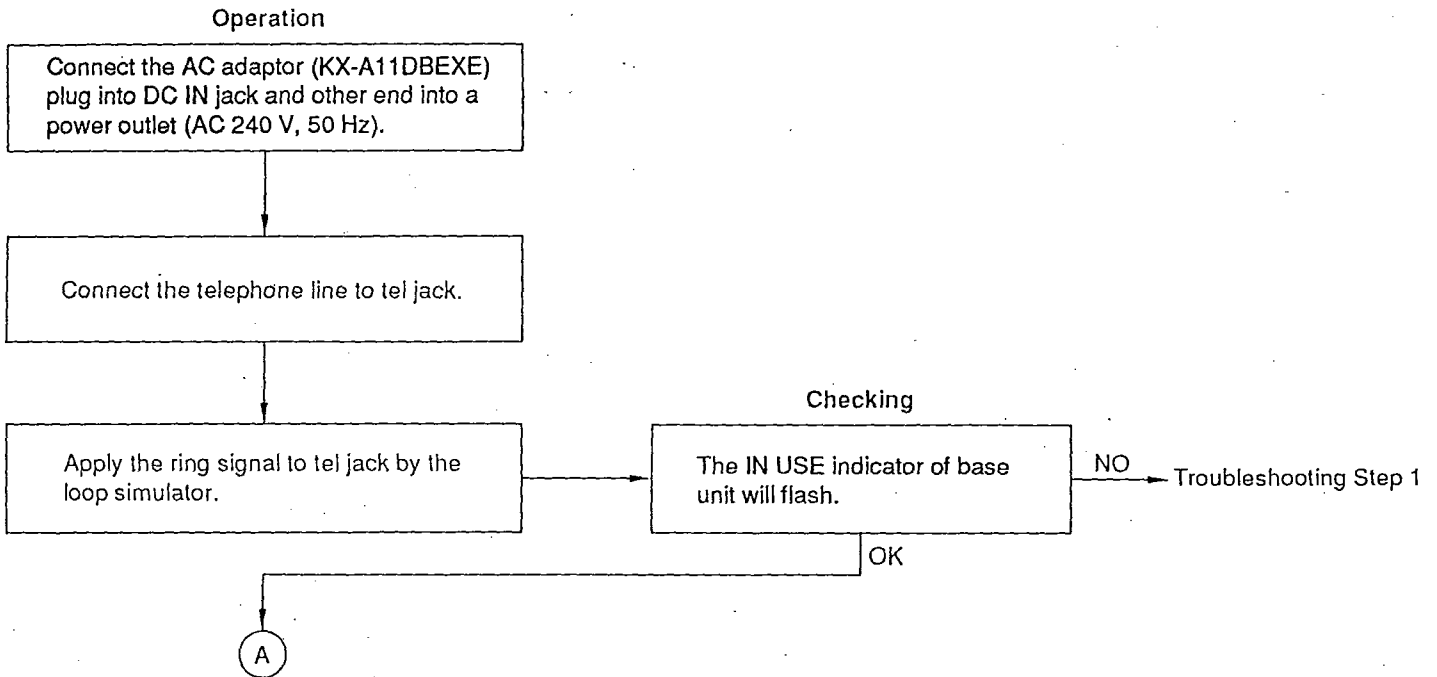
TROUBLESHOOTING GUIDE (KX-T4036EH)

Base Unit Condition:

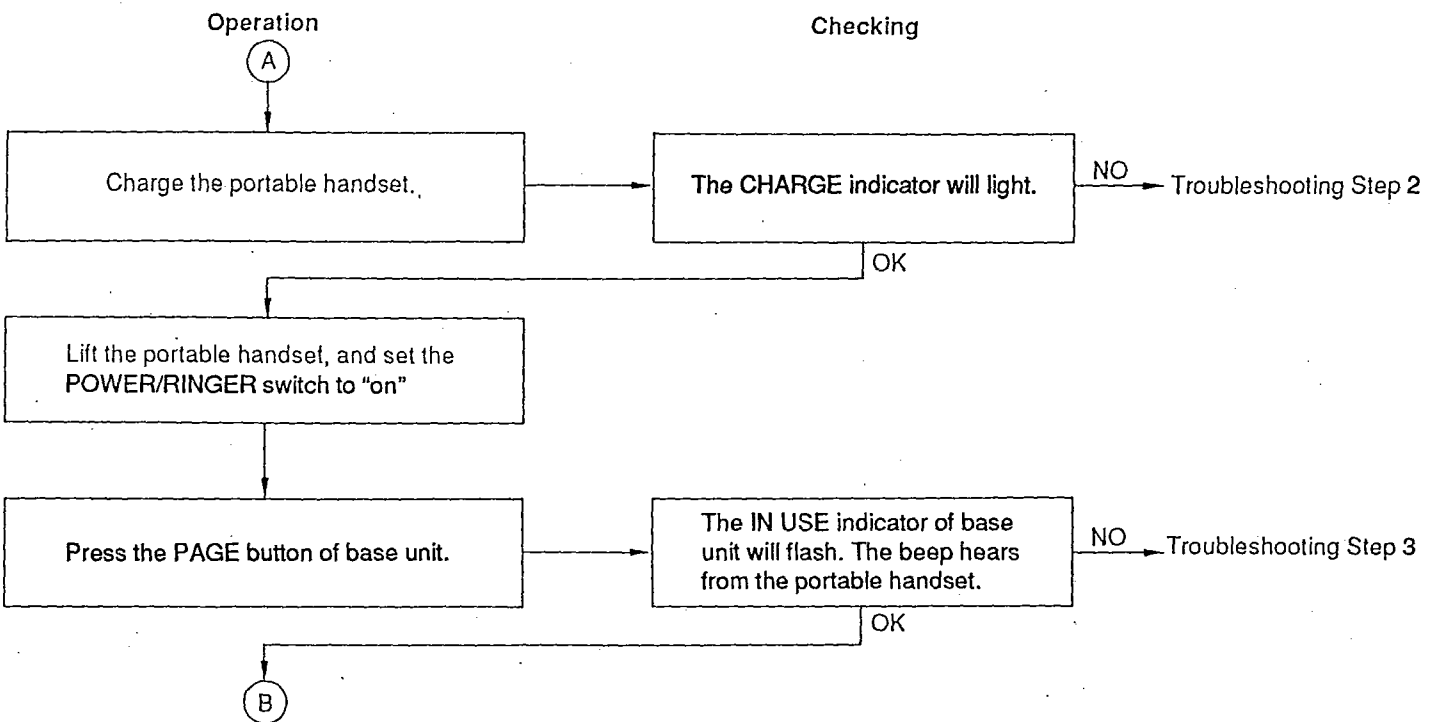
Set the dialling mode selector to "Tone".

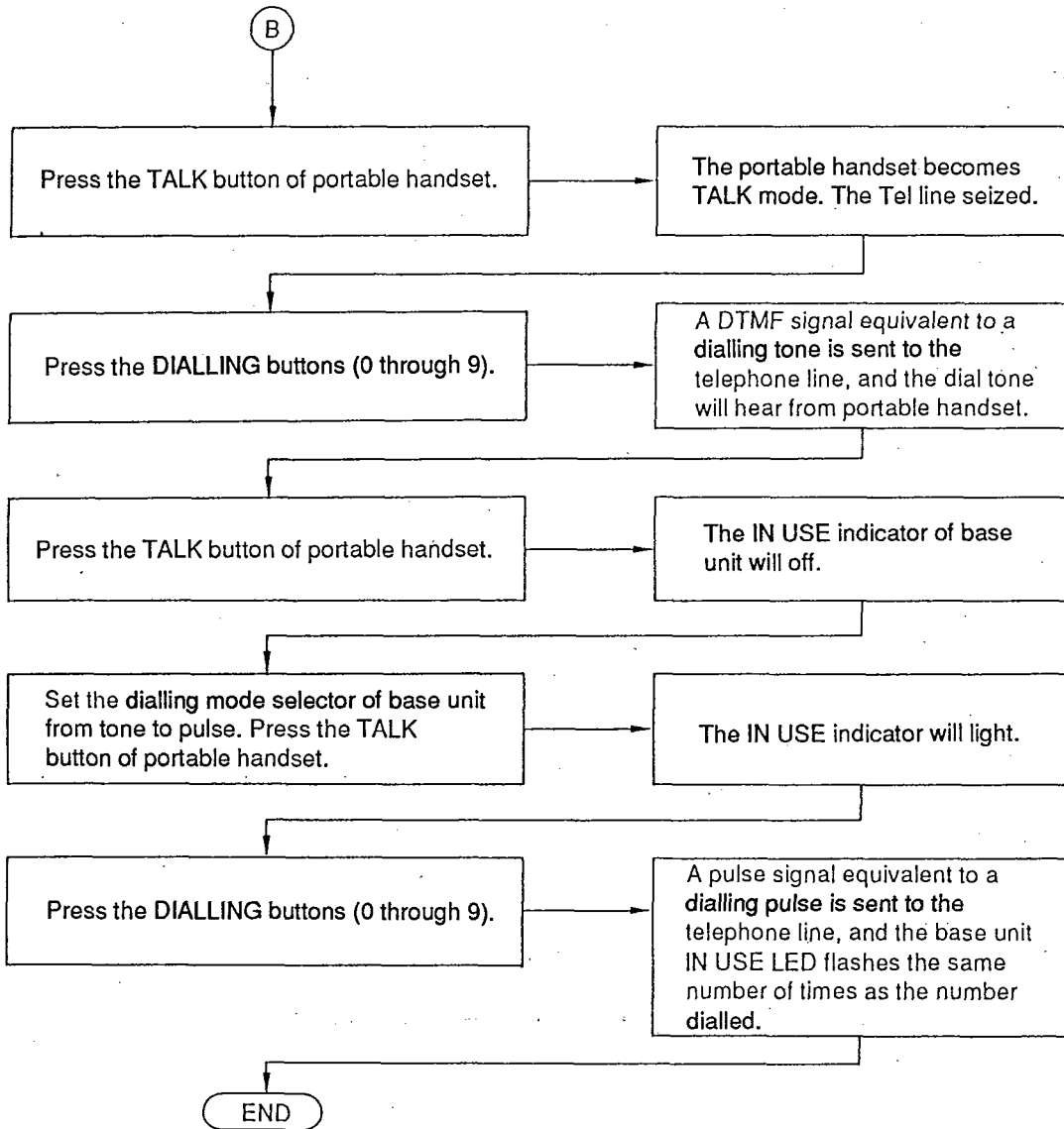
When checking the base unit only

Check the base unit as shown by following below flow chart.



When checking the base unit and portable handset

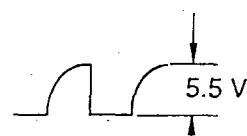




The IN USE indicator of base unit does not flash

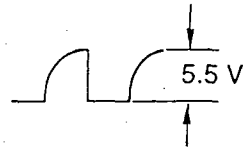
Check the ring detector circuit.

Check Point
① Pin 4 of PC302 output voltage.



Check IC4 (CPU).

Check Point
① Pin 15 of IC4 ring input voltage.



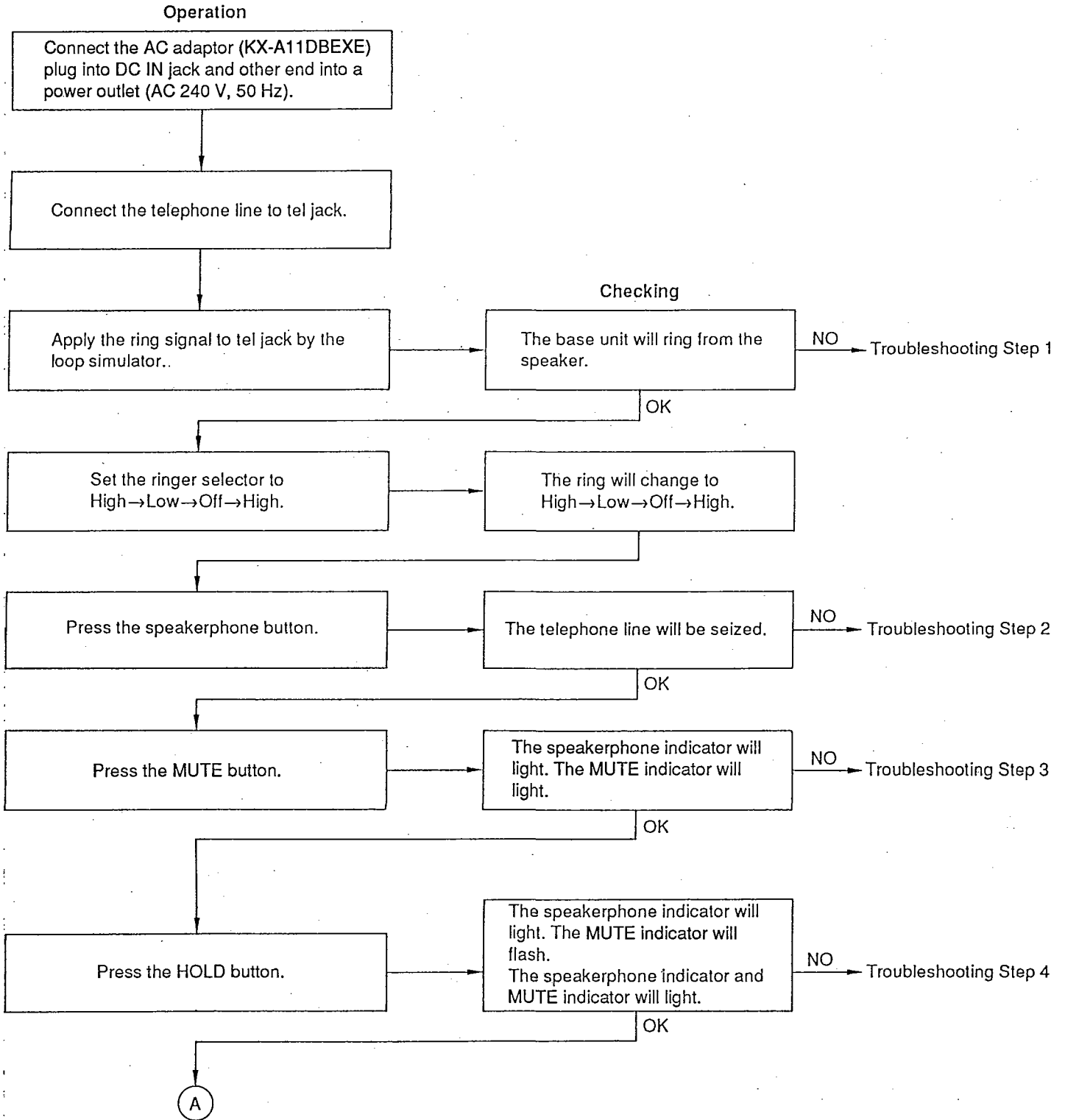
TROUBLESHOOTING GUIDE (KX-T4066EH)

Base Unit Condition:

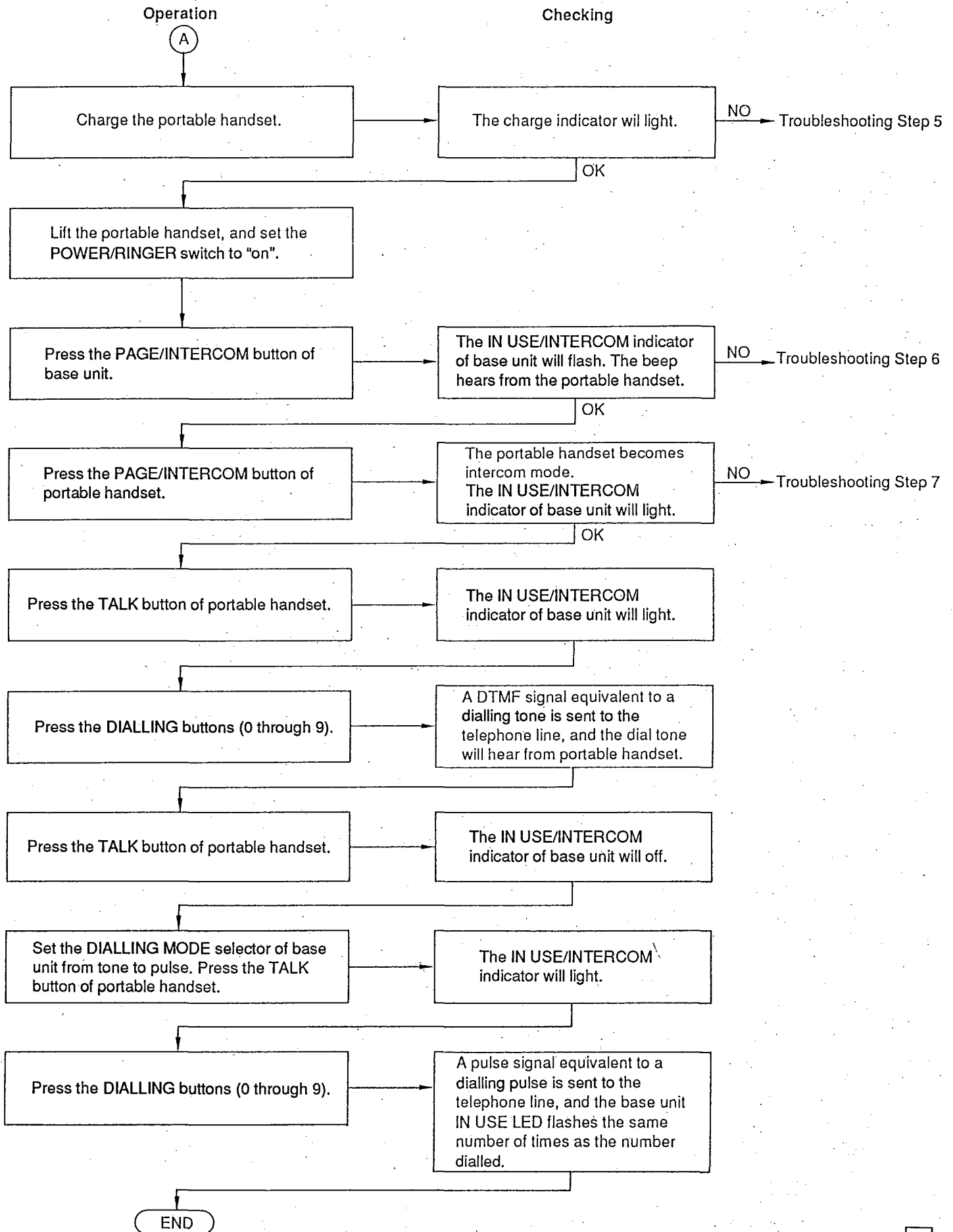
1. Set the ringer selectors to "High".
2. Set the volume button to "MAX".
3. Set the dialling mode selector to "Tone".

When checking the base unit only

Check the base unit as shown by following below flow chart.



When checking the base unit and portable handset



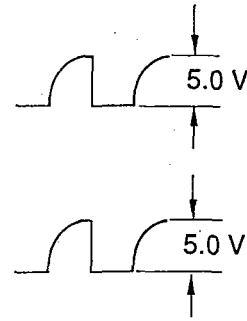
TROUBLESHOOTING GUIDE (KX-T4036EH/KX-T4066EH)

Troubleshooting Step 1:

The base unit does not ring from the speaker.

Check the ring detector circuit.

Check Point
① Pin 4 of PC307 output voltage.



Check IC6 (CPU).

Check Point
① Pin 7 of IC6 ring input voltage.

Troubleshooting Step 2:

The base unit does not seize the telephone line. (KX-T4066EH Only)

Check the relay circuit.

Check Point
① Is the Base of Q305 at a low logic level?

Check IC6 (CPU).

Check Point
① Is the pin 55 of IC6 at a high logic level?

Troubleshooting Step 3:

The mute indicator does not light. (KX-T4066EH Only)

Check IC6.

Check Point
① Is the pin 46 of IC6 (mute indicator output) at a low logic level?

NO

Check IND3.

② Check pins 46 of IC6 and R135.

Troubleshooting Step 4:

Hold function of the base unit does not work. (KX-T4066EH)

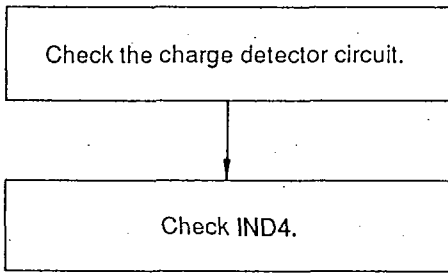
Check the hold detector circuit.

Check Point
① Is the pin 4 of PC304 at a low logic level?

Check IC6 (CPU).

Check Point
① Is the pin 17 of IC6 at a low logic level?

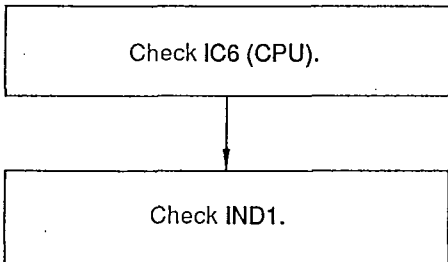
Troubleshooting Step 5: The CHARGE indicator does not light.



Check Point
 ① Is the emitter of Q31 (charge detector transistor) 6 V?

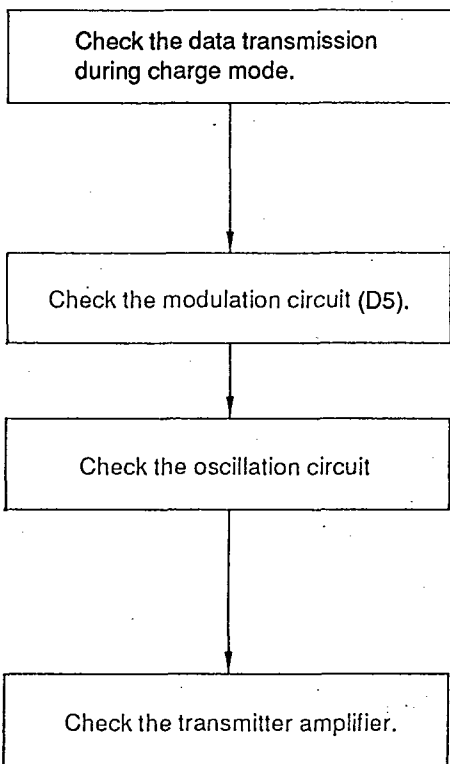
Troubleshooting Step 6:

- 1) The IN USE indicator does not flash. (KX-T4036EH Only)
- The IN USE/INTERCOM indicator does not flash. (KX-T4066EH Only)

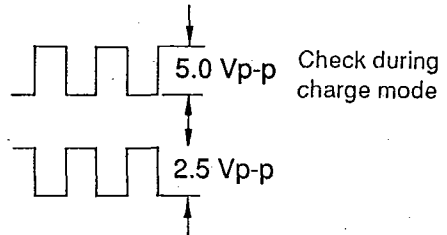


Check Point
 ① Is the pin 48 of IC6 (IN USE output) at a low logic level?
 Is the pin 48 of IC6 (IN USE/INTERCOM output) at a low logic level?

- 2) The beep is not heard from the portable handset.



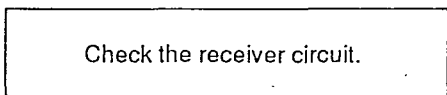
Check Points
 ① Pin 27 of IC6 data output voltage
 ② Collector of Q32 output voltage



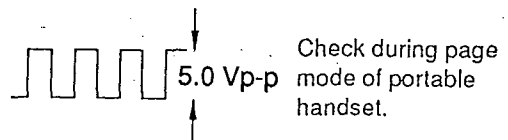
Check Points
 ① Is the base of Q10 (TX VCO) 2 V?
 ② Is the pin 15 of IC2 (PLL) 3.0 V (at 7ch)?

Check Point
 ① Is the base of Q8 (Final power amplifier) 2 V?

Troubleshooting Step 7: The portable handset does not become the intercom mode. (KX-T4066EH Only)



Check Point
 Pin 16 of IC1
 RX data output voltage



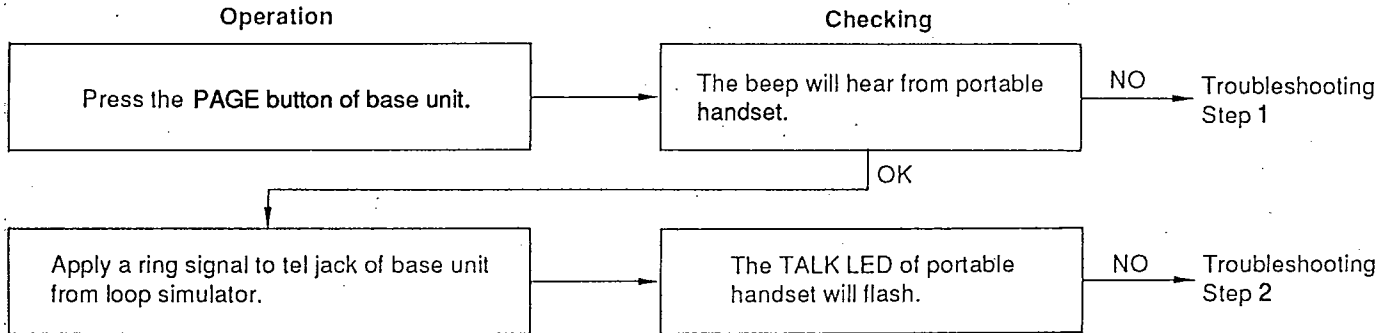
TROUBLESHOOTING GUIDE (KX-T4036ER)

Use the right base unit for this troubleshooting.
 Charge the battery of the portable handset by the base unit.

Base Unit Condition:

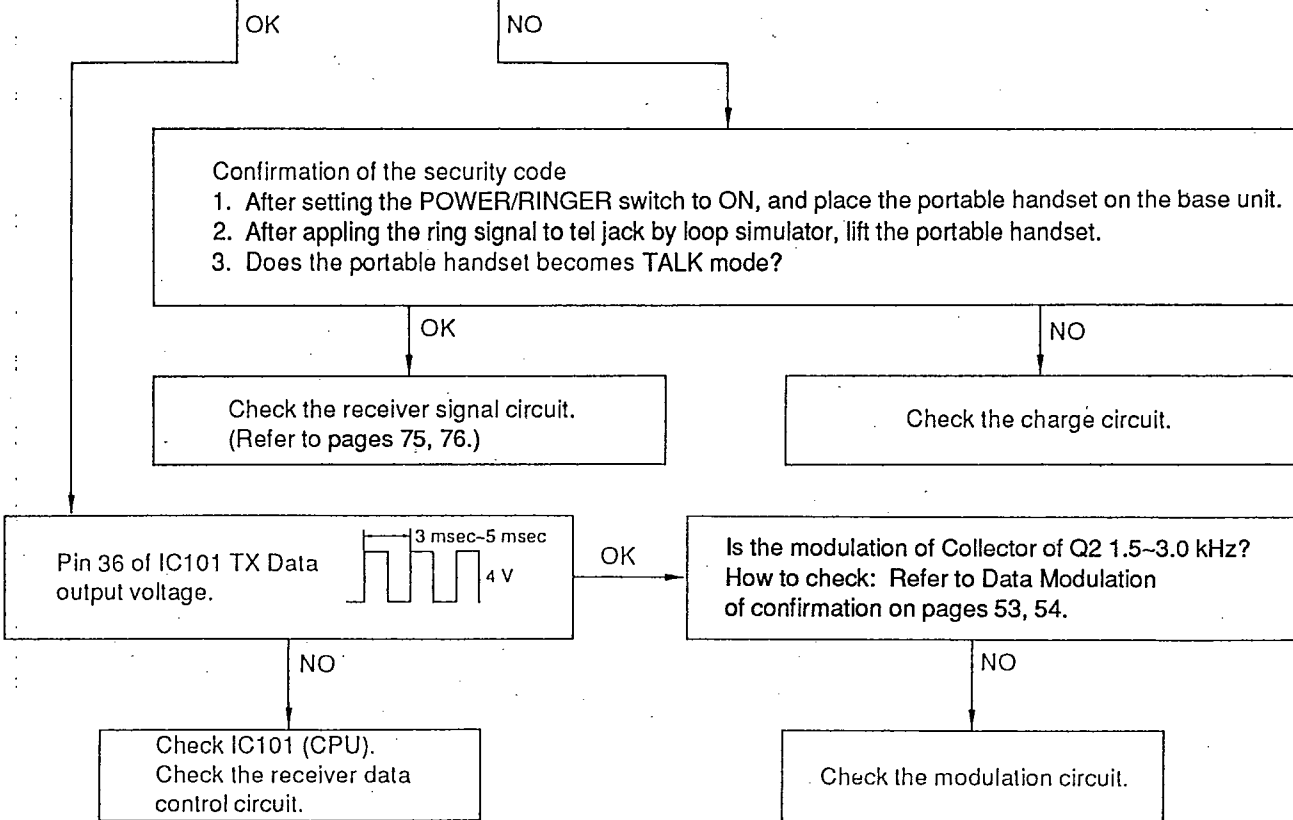
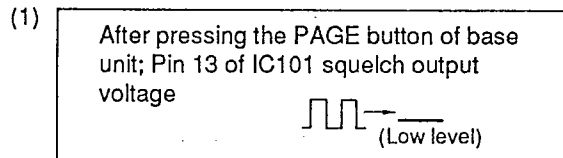
1. Connect the AC Adaptor (KX-A11DBEXE) plug into DC IN jack and the other end into a power outlet (AC 240 V, 50 Hz).
2. Connect the loop simulator (DC 48 V) to tel jack.

Check the portable handset as shown by following below flow chart.



Troubleshooting Step 1: The beep is not heard from portable handset.

Check Points



Troubleshooting Step 2: The TALK indicator does not flash (Check the data reception).

- Check Point**
- (1) Check the signal level of receiver data control circuit on page 77.

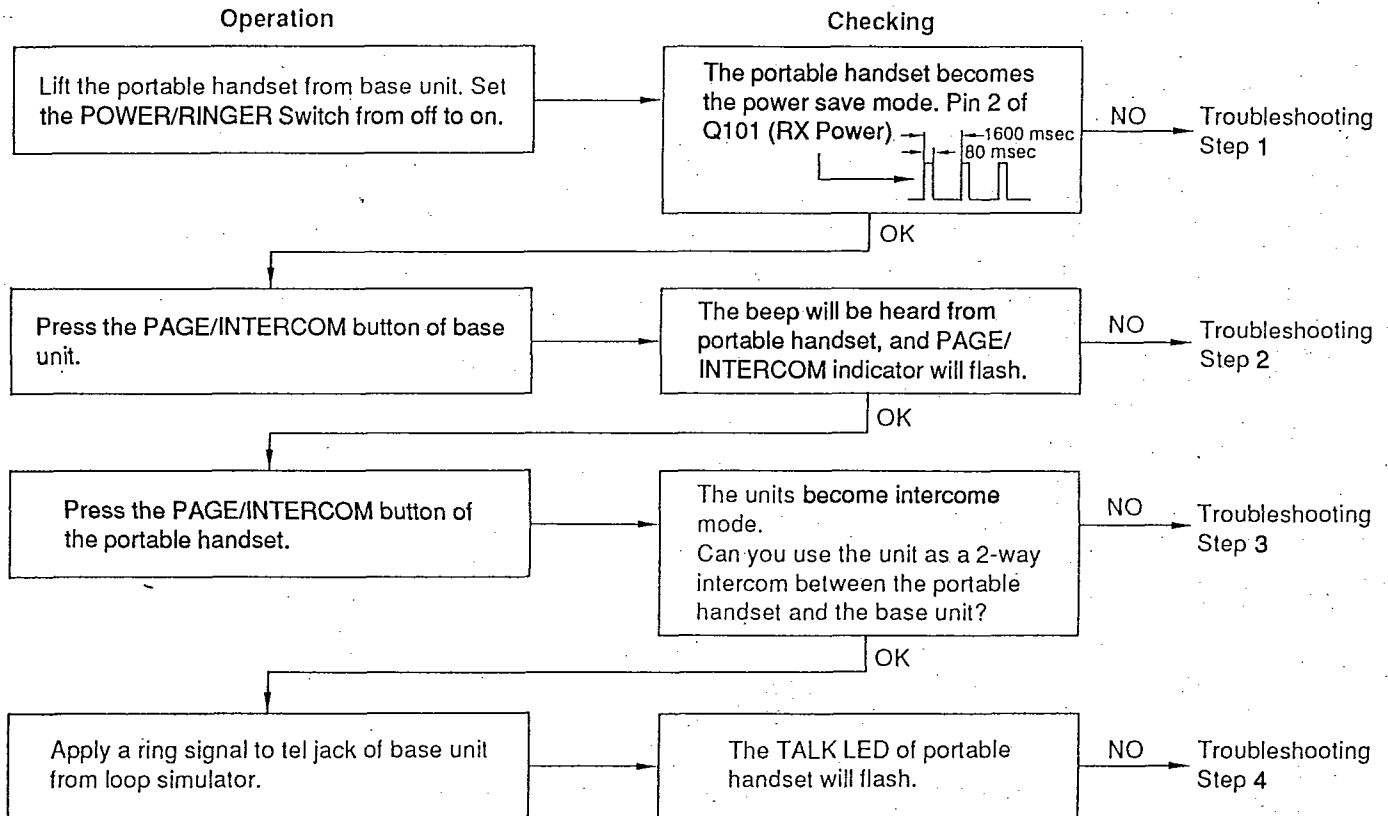
TROUBLESHOOTING GUIDE (KX-T4066ER)

Use the right base unit for this troubleshooting.
Charge the battery of the portable handset by the base unit.

Base Unit Condition:

1. Connect the AC Adaptor (KX-A11DBEXE) plug into DC IN jack and the other end into a power outlet (AC 240 V, 50 Hz).
2. Connect the loop simulator (DC 48 V) to tel jack.

Check the portable handset as shown by following below flow chart.



Troubleshooting Step 1: When pressing TALK key, no beep.

Check the reset circuit. (Refer to page 78.)

Check Points:

- (1) Check the rechargeable battery (KX-A36A), L1 and lead wire (W1).
- (2) Check the IC101 (CPU) level when setting the POWER/RINGER switch from off to on.

IC101 Pin No.	POWER/RINGER switch	
	off	on
Pin 56	H	H
Pin 53	H	H
Pin 10	H	H
Pin 54	H	L
Pin 2	H	Reset Pulse 30 ms
Pins 8, 9 (X101)	—	Oscillation Start (3.992 MHz)
Pins 5, 6 (X102)	—	Oscillation Start (32.76 MHz)

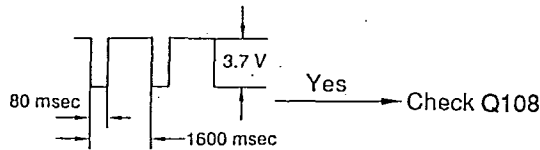
- (3) After setting the POWER/RINGER switch from off to on, the LED indicator does not off.

Check the any buttons whether it keep pressing.

Troubleshooting Step 2: The portable handset does not become battery save mode.

Check point

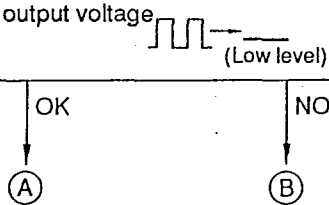
- (1) Pin 39 of IC101
RX power output voltage

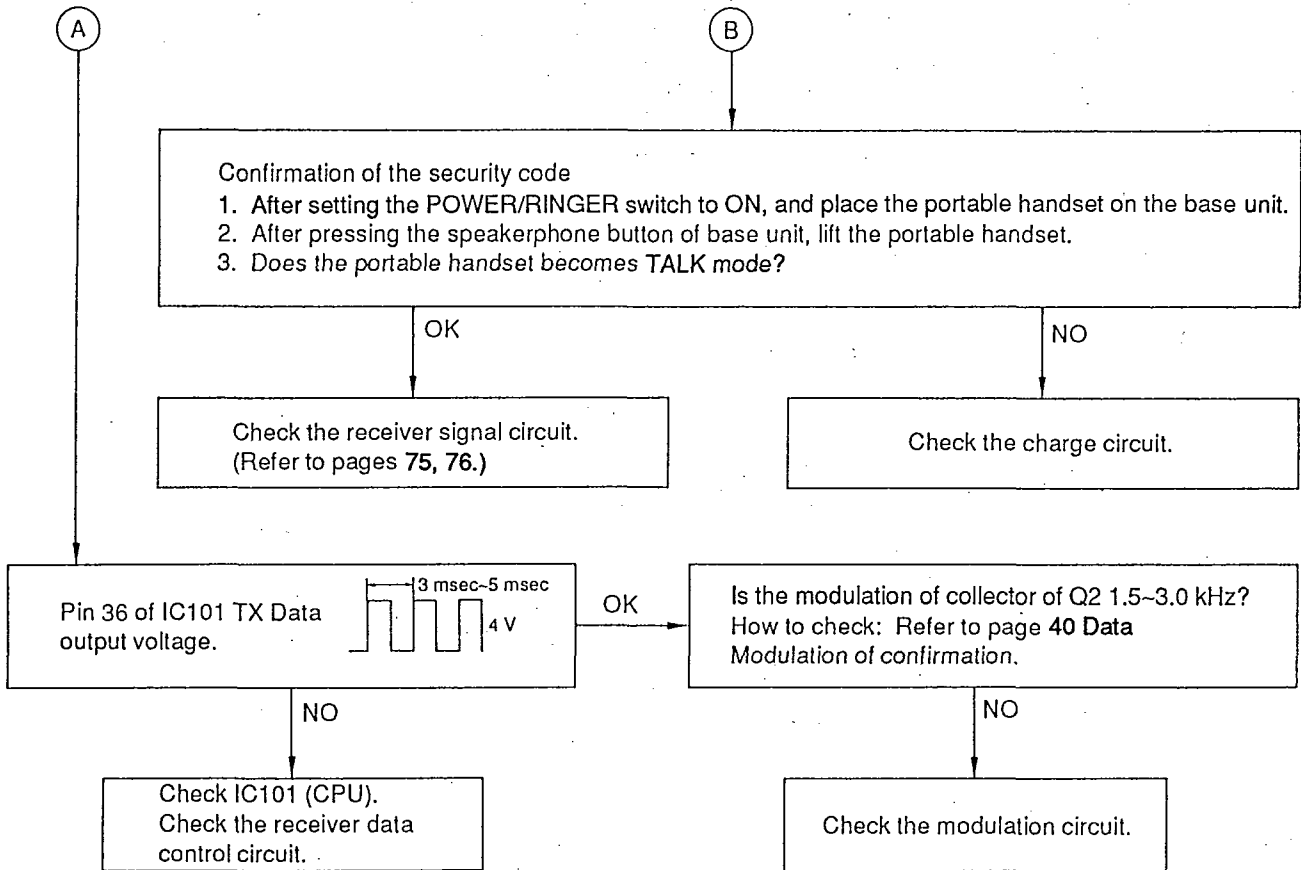


Troubleshooting Step 3: The PAGE/INTERCOM indicator does not flash.

Check Points

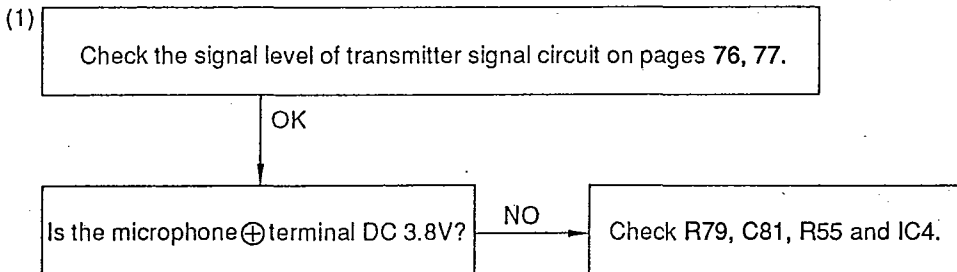
- (1) After pressing the PAGE/INTERCOM button of base unit; Pin 13 of IC101 squelch output voltage





Troubleshooting Step 4: The unit does not intercom mode.

Check Points



(2) Check the signal level of receiver signal circuit on pages 75, 76.

Troubleshooting Step 5: The TALK Indicator does not flash (Check the data reception).

Check Point

(1) Check the signal level of receiver data control circuit on page 77.

CABINET AND ELECTRICAL PARTS LOCATION (KX-T4036EH)

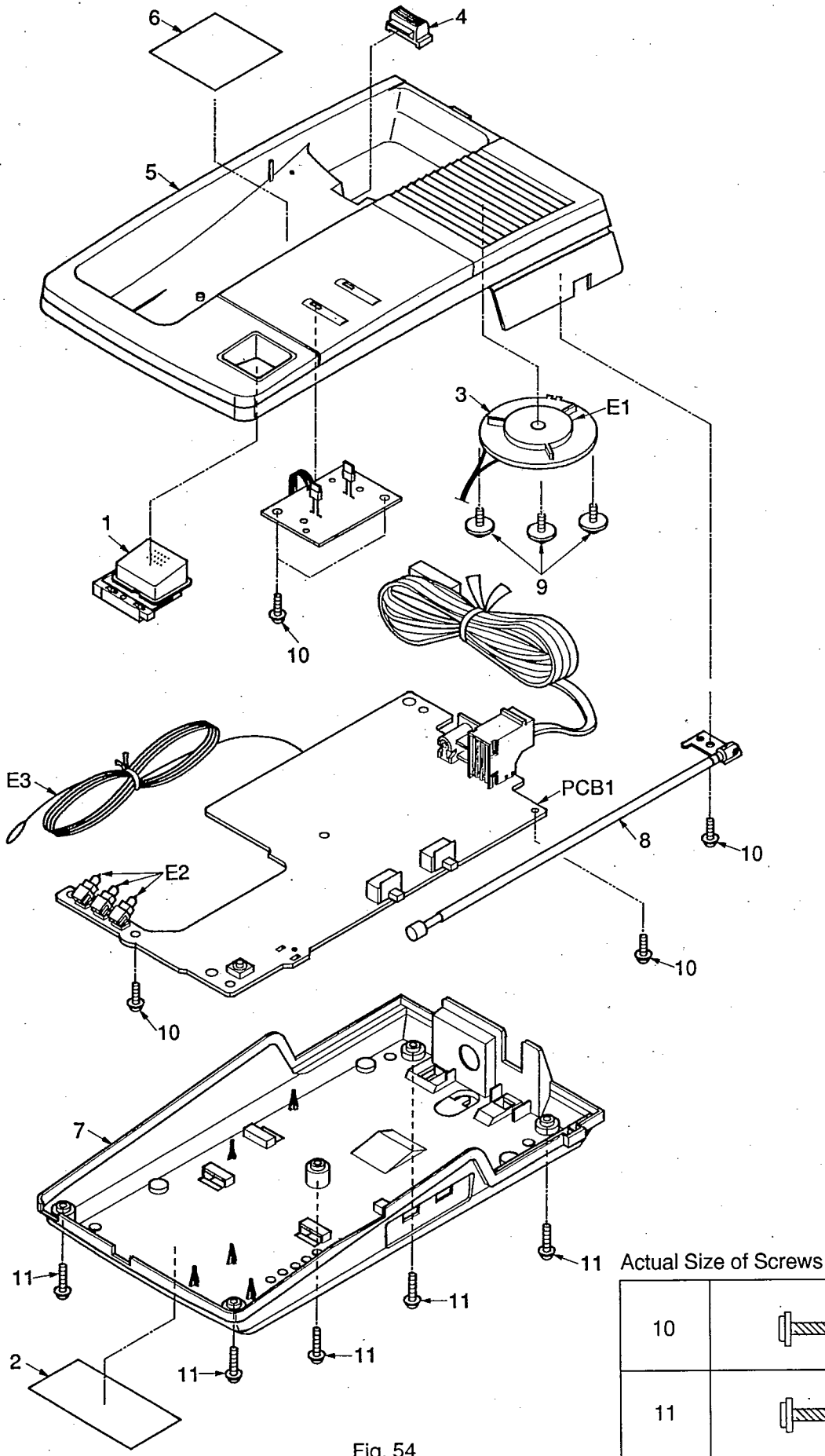


Fig. 54

CABINET AND ELECTRICAL PARTS LOCATION (KX-T4066EH)

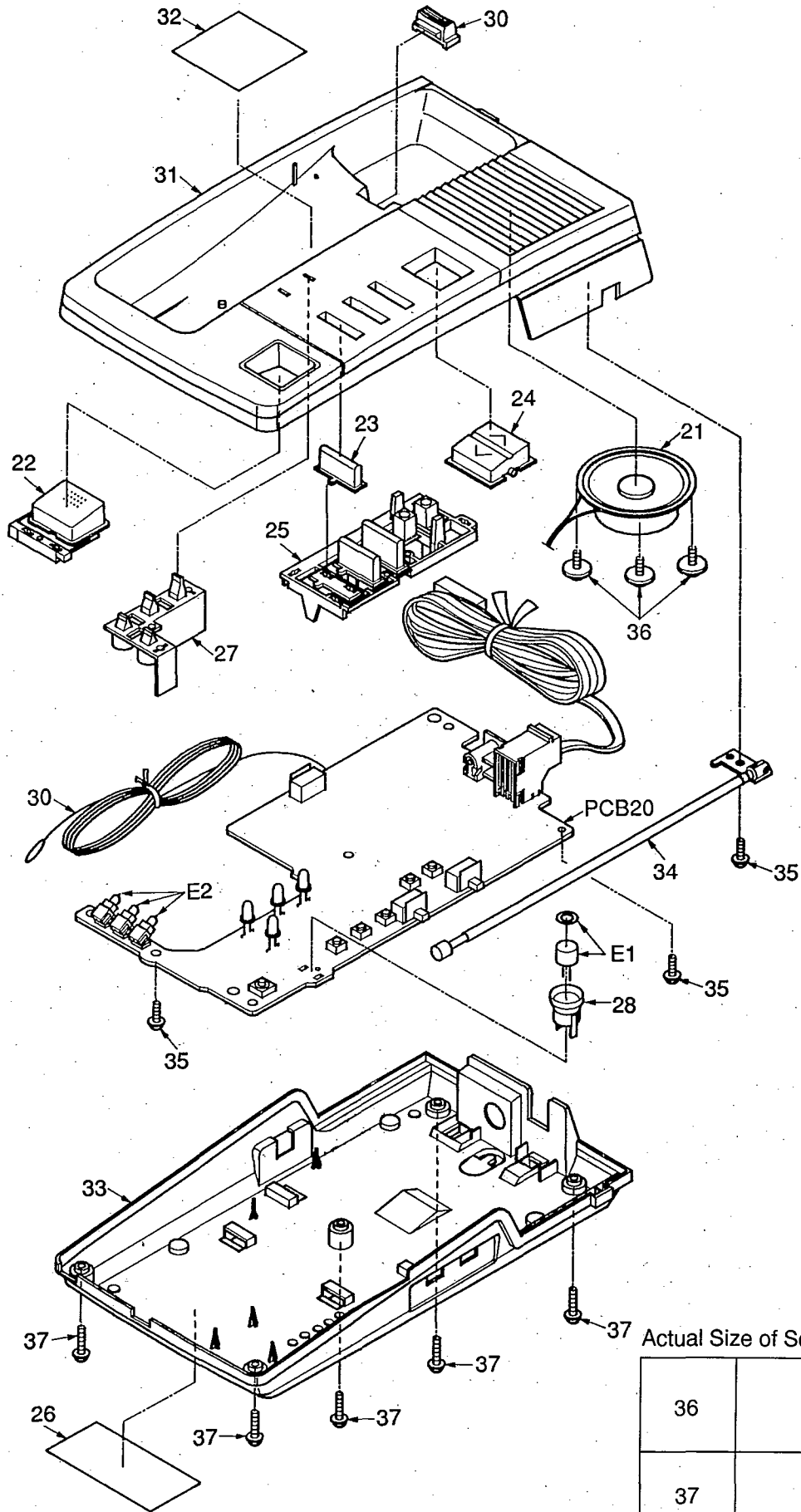
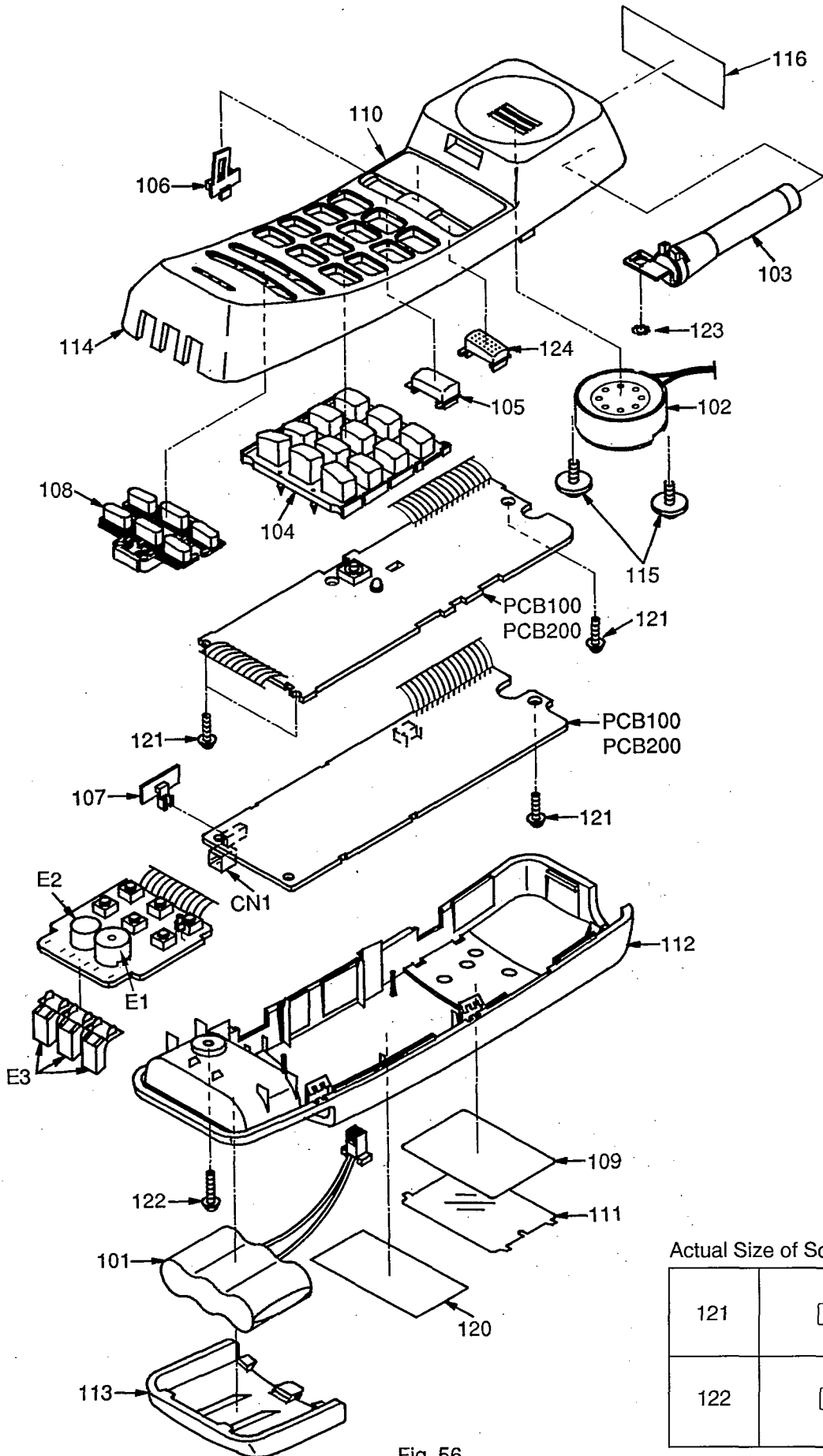


Fig. 55

CABINET AND ELECTRICAL PARTS LOCATION (KX-T4036ER/KX-T4066ER)



Actual Size of Screws



121	
122	

Fig. 56

ACCESSORIES AND PACKING MATERIALS

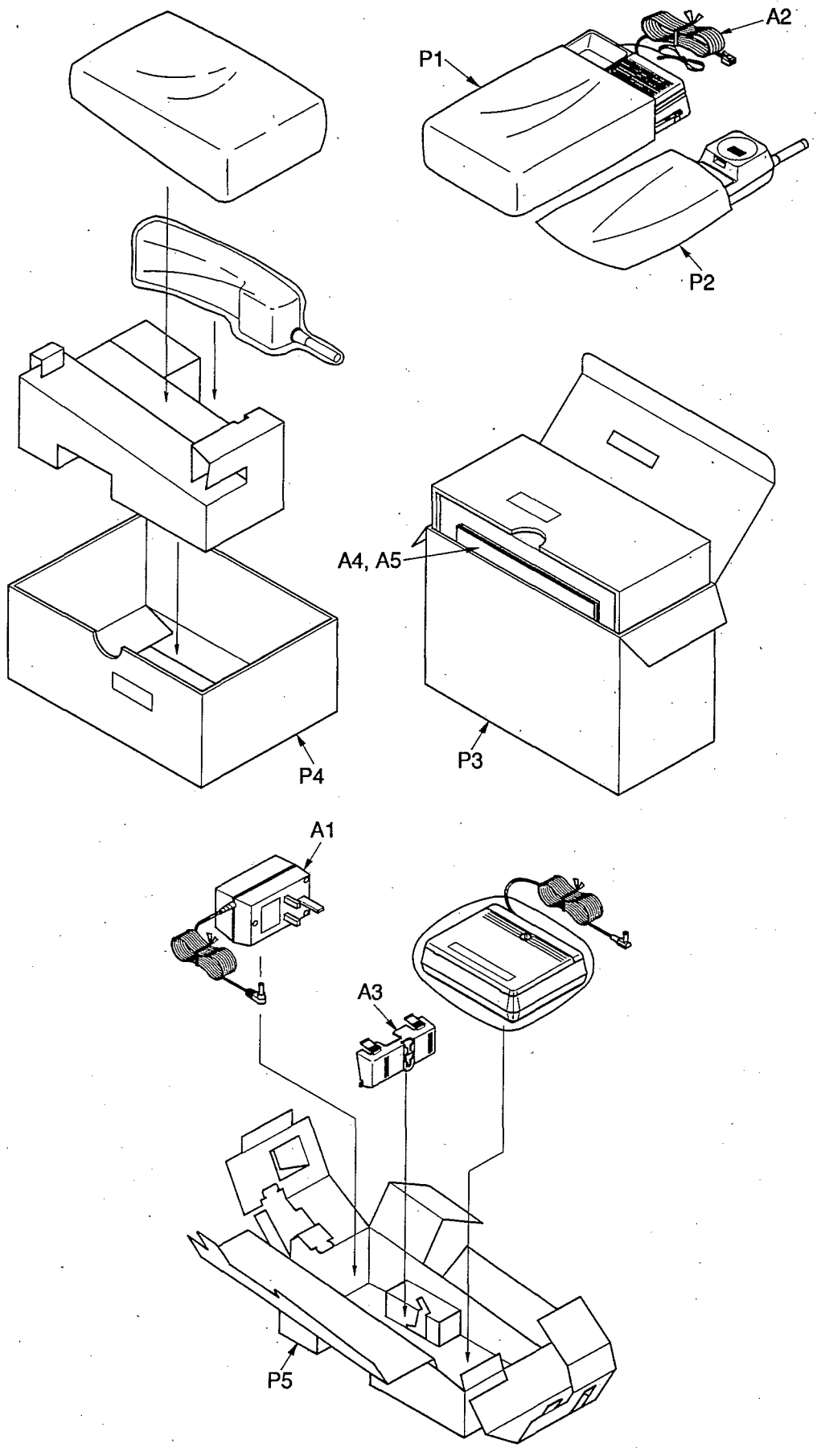


Fig. 57

This replacement parts list is for U.K. version only.

REPLACEMENT PARTS LIST

Model KX-T4036EH

Note: .

1. RTL (Retention Time Limited)
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 a Δ 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 (Ω) k=1000 Ω , M=1000K Ω

All capacitors are in MICRO FARADS (μ F) p= μ μ 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

ECFD:Semi-Conductor	ECDD,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
CABINET & ELECTRICAL PARTS			
1	PQBC10085Z3	BUTTON, PAGE	S 1
2	PQGT12175Z	NAME PLATE	Δ 1
3	PQHR10406Z	HOLDER	1
4	PQKE10018Y3	DOOR-LID	1
5	PQKM10182X3	UPPER CABINET	1
6	PQQT10608Y	NOTE LABEL	1
7	PQYF10074Y3	LOWER CABINET	1
8	XEAPQK170BA	ANTENNA	1
9	PJHE5065Z	SCREW	3
10	XTW3+S10P	TAPPING SCREW (3X10)	5
11	XTW3+S14P	TAPPING SCREW (3X14)	5

Ref. No.	Part No.	Part Name & Description	Pcs/Set
MAIN P.C.BOARD PARTS			
PCB1	PQWPT4036EH	P.C.BOARD ASS'Y (RTL)	Δ 1
		(ICS)	
IC1	AN6161NK	IC	1
IC2	PQVIMC145162	IC	1
IC3	PQVINJM4558M	IC	1
IC4	PQVITC4069UBF	IC	1
IC5	AN6165SB	IC	1
IC6	MN150808KAH1	IC	1
		(TRANSISTORS)	
Q 1	2SK543	TRANSISTOR(SI)	1
Q 2	PQVTMSC2295C	TRANSISTOR(SI)	1
Q 3	PQVTMSC2295C	TRANSISTOR(SI)	1
Q 4	2SD601A	TRANSISTOR(SI)	1
Q 5	2SD1994A	TRANSISTOR(SI)	1
Q 6	2SB1322	TRANSISTOR(SI)	1
Q 7	2SD601A	TRANSISTOR(SI)	1
Q 8	2SC3421	TRANSISTOR(SI)	1
Q 9	PQVTMSC2295C	TRANSISTOR(SI)	1
Q10	PQVTMSC2295C	TRANSISTOR(SI)	1
Q11	2SD601A	TRANSISTOR(SI)	1
Q14	2SD601A	TRANSISTOR(SI)	1
Q15	2SD601A	TRANSISTOR(SI)	1
Q16	2SB709A	TRANSISTOR(SI)	1
Q17	2SD601A	TRANSISTOR(SI)	1
Q19	2SD601A	TRANSISTOR(SI)	1
Q20	2SD601A	TRANSISTOR(SI)	1
Q21	2SD601A	TRANSISTOR(SI)	1
Q23	2SD601A	TRANSISTOR(SI)	1
Q24	2SD601A	TRANSISTOR(SI)	1
Q25	2SD601A	TRANSISTOR(SI)	1
Q26	2SD601A	TRANSISTOR(SI)	1
Q27	2SB709A	TRANSISTOR(SI)	1
Q28	2SD601A	TRANSISTOR(SI)	1
Q29	2SD1994A	TRANSISTOR(SI)	1
Q30	2SD2136	TRANSISTOR(SI)	1
Q31	2SA933	TRANSISTOR(SI)	1
Q32	2SC1740S	TRANSISTOR(SI)	1
Q33	2SD601A	TRANSISTOR(SI)	1
Q35	2SD601A	TRANSISTOR(SI)	1
Q301	2SD601A	TRANSISTOR(SI)	1
Q302	2SD601A	TRANSISTOR(SI)	1
Q303	PQVTKSD261CY	TRANSISTOR(SI)	1
Q305	2SA1627	TRANSISTOR(SI)	1
		(DIODES)	
D 1	MA840ATAKU	DIODE(SI)	1
D 2	1SS131	DIODE(SI)	1
D 3	MA4056	DIODE(SI)	1
D 4	PQVD1SV149	DIODE(SI)	1
D 5	PQVD1SV149	DIODE(SI)	1
D 7	1SS131	DIODE(SI)	1
D 8	1SS131	DIODE(SI)	1
D 9	1SS131	DIODE(SI)	1
D10	MA4330M	DIODE(SI)	1
D12	MA4110	DIODE(SI)	1
D13	MA4068	DIODE(SI)	1
D14	1SS131	DIODE(SI)	1
D15	1SS131	DIODE(SI)	1
D16	MA4056	DIODE(SI)	1
D17	1SS131	DIODE(SI)	1
D18	1SS131	DIODE(SI)	1
D19	1SS131	DIODE(SI)	1
D20	1SS131	DIODE(SI)	1
D23	1SS131	DIODE(SI)	1

This replacement parts list is for U.K. version only.

Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
D26	1SS314	DIODE(SI)	1			(RESISTORS)	
D301	MA4030	DIODE(SI)	1	R 1	ERJ3GEYJ181	180	1
D302	MA4270	DIODE(SI)	1	R 2	ERJ3GEYJ470	47	1
D303	MA4033	DIODE(SI)	1	R 3	ERJ3GEYJ224	220K	1
D305	PQVDS1ZB40F1	DIODE(SI)	1	R 4	ERJ3GEYJ470	47	1
D306	PQVDS1ZB40F1	DIODE(SI)	1	R 5	ERJ3GEYJ470	47	1
IND5	LN224RP	LED	1	R 6	ERJ3GEYJ334	330K	1
IND6	LN368GPXTAB	LED	1	R 7	ERJ3GEYJ272	2.7K	1
				R 8	ERJ3GEYJ332	3.3K	1
				R 9	ERJ3GEYJ333	33K	1
		(COILS)		R10	ERJ3GEYJ333	33K	1
L 2	PQLQZK2R2K	COIL (for ANTENNA)	1	R11	ERJ3GEYJ153	15K	1
L 3	PQLQZK330K	COIL	1	R12	ERJ3GEYJ562	5.6K	1
L 3	PQLQZK8R2K	COIL	1	R13	ERJ3GEYJ473	47K	1
L 4	PQLQZK101K	COIL	1	R14	ERJ3GEYJ103	10K	1
L 5	PQLQZ1154J	COIL	1	R15	ERJ3GEYJ103	10K	1
L 6	PQLQZM1R0K	COIL	1	R16	ERJ3GEYJ682	6.8K	1
L10	PQLQZM3R9K	COIL	1	R17	ERJ3GEYJ273	27K	1
L11	PQLQZM3R9K	COIL	1	R18	ERJ3GEYJ220	22	1
L12	PQLQZM3R9K	COIL	1	R19	Not Used		
T1	PQLA7A17	COIL	1	R20	ERJ3GEYJ102	1K	1
T2	PQLA7A33	COIL	1	R21	ERJ3GEYJ222	2.2K	1
T4	PQLA7A11	COIL	1	R22	ERJ3GEYJ562	5.6K	1
T6	PQLA2B6	COIL	1	R23	ERJ3GEYJ104	100K	1
T8	PQLA2B5	COIL	1	R24	ERJ3GEYJ103	10K	1
		(I.F. TRANSFORMERS)		R25	ERJ3GEYJ222	2.2K	1
T3	PQLI4B901	I.F. TRANSFORMER	1	R26	ERJ3GEYJ000	0	1
T5	PQLI2B201	I.F. TRANSFORMER	1	R27	ERJ3GEYJ222	2.2K	1
		(VARIABLE RESISTORS)		R28	ERJ3GEYJ103	10K	1
VR1	EVNDXAA03B15	VARIABLE RESISTOR	1	R29	ERDS1TJ330	33	1
VR2	EVNDXAA03B35	VARIABLE RESISTOR	1	R30	ERJ3GEYJ103	10K	1
		(SWITCHES)		R31	ERJ3GEYJ224	220K	1
S2	PQSS2A27W	SWITCH, DIALLING MODE	1	R32	ERJ3GEYJ103	10K	1
S3	PQSS2A27W	SWITCH, RECALL	1	R33	ERJ3GEYJ473	47K	1
S9	PQSH1A57Z	SWITCH, PAGE	1	R34	ERJ3GEYJ470	47	1
		(PHOTO COUPLERS)		R35	ERJ3GEYJ470	47	1
PC301	PQVITLP631K	PHOTO ELECTRIC TRANSDUCER	△ 1	R36	ERJ3GEYJ104	100K	1
PC302	PQVITLP631K	PHOTO ELECTRIC TRANSDUCER	△ 1	R37	ERJ3GEYJ471	470	1
PC305	PQVITLP627	PHOTO ELECTRIC TRANSDUCER	△ 1	R38	ERJ3GEYJ104	100K	1
PC306	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER	△ 1	R39	ERJ3GEYJ473	47K	1
PC307	PQVIPC814Y	PHOTO ELECTRIC TRANSDUCER	△ 1	R40	ERJ3GEYJ473	47K	1
		(OTHERS)		R41	ERJ3GEYJ104	100K	1
CF1	PQVCM107M7.5	CERAMIC FILTER	1	R42	ERJ3GEYJ683	68K	1
CF2	PQVFCFW450G	CERAMIC FILTER	1	R43	ERJ3GEYJ683	68K	1
E1	EFBS19C01	BUZZER	S 1	R44	ERJ3GEYJ153	15K	1
E2	PQJT10050Z	TERMINAL-TERMINAL PLATE	3	R45	ERJ3GEYJ103	10K	1
E3	PQJA215Z	WIRE ANTENNA	1	R46	ERJ3GEYJ224	220K	1
L 8	ERPD0WR0R5	POLYSWITCH	1	R47	ERJ3GEYJ181	180	1
P01	PQRPAR390N	THERMISTOR	1	R48	ERJ3GEYJ564	560K	1
QJ1	PQJ2HB2Z	JACK/SOCKET	1	R49~69	Not Used		
RLY1	PQSL107Z	RELAY	△ 1	R70	Not Used		
SA1	PQVDRA311PT3	VARIATOR	S 1	R71	ERDS2TJ103	10K	1
VC1	ECRLA030E53	TRIMMER CAPACITOR	1	R72	ERJ3GEYJ681	680	1
W1	WBH2AW-10AAX	LEAD WIRE	1	R73~79	Not Used		
W2	WBH2AW-10AAX	LEAD WIRE	1	R80	Not Used		
X2	PQVCJ1025N5	CRYSTAL OSCILLATOR	1	R81	Not Used		
X3	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	1	R82	ERJ3GEYJ104	100K	1
				R83	ERJ3GEYJ104	100K	1
				R84	ERJ3GEYJ104	100K	1
				R85	ERJ3GEYJ104	100K	1
				R86	ERJ3GEYJ105	1M	1
				R87	ERJ3GEYJ154	150K	1
				R88	ERJ3GEYJ822	8.2K	1
				R89	ERJ3GEYJ223	22K	1

This replacement parts list is for U.K. version only.

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
R90	ERJ3GEYJ102	1K	1	R158	ERJ3GEYJ222	2.2K	1
R91	ERJ3GEYJ334	330K	1	R159	ERJ3GEYJ682	6.8K	1
R92	ERJ3GEYJ471	470	1				
R93	ERJ3GEYJ102	1K	1	R160	ERJ3GEYJ000	0	1
R94	ERJ3GEYJ103	10K	1	R161	ERJ3GEYJ104	100K	1
R95	ERJ3GEYJ223	22K	1	R162	ERJ3GEYJ334	330K	1
R96	ERJ3GEYJ471	470	1	R163	ERJ3GEYJ682	6.8K	1
R97	ERJ3GEYJ103	10K	1	R164	ERJ3GEYJ223	22K	1
R98	ERJ3GEYJ000	0	1	R166	ERJ3GEYJ222	2.2K	1
R99	ERJ3GEYJ103	10K	1	R167	ERJ3GEYJ683	68K	1
				R168	ERJ3GEYJ684	680K	1
R100	ERJ3GEYJ563	56K	1	R169	ERJ3GEYJ823	82K	1
R101	ERJ3GEYJ474	470K	1				
R102~105	Not Used			R170	Not Used		
R106	ERJ3GEYJ471	470	1	R171	ERJ3GEYJ151	150	1
R107	ERJ3GEYJ472	4.7K	1	R172	ERJ3GEYJ224	220K	1
R108	ERJ3GEYJ472	4.7K	1	R173	ERJ3GEYJ103	10K	1
R109	ERJ3GEYJ822	8.2K	1	R174	ERJ3GEYJ223	22K	1
				R175	ERJ3GEYJ121	120	1
R110	ERJ3GEYJ224	220K	1	R176	ERJ3GEYJ124	120K	1
R111	ERJ3GEYJ224	220K	1	R177	ERJ3GEYJ152	1.5K	1
R112	ERJ3GEYJ104	100K	1	R178	ERJ3GEYJ103	10K	1
R113	ERJ3GEYJ104	100K	1	R179	Not Used		
R114	ERJ3GEYJ334	330K	1				
R115	ERJ3GEYJ273	27K	1	R180	ERJ3GEYJ224	220K	1
R116	ERJ3GEYJ273	27K	1	R181	ERJ3GEYJ103	10K	1
R117	ERJ3GEYJ153	15K	1	R182	ERJ3GEYJ152	1.5K	1
R118	ERJ3GEYJ823	82K	1	R183	ERJ3GEYJ104	100K	1
R119	ERJ3GEYJ683	68K	1	R184	ERJ3GEYJ823	82K	1
				R185	ERJ3GEYJ271	270	1
R120	ERJ3GEYJ470	47	1	R186	Not Used		
R121	ERJ3GEYJ333	33K	1	R187	ERJ3GEYJ103	10K	1
R122	ERJ3GEYJ000	0	1	R188	ERJ3GEYJ000	0	1
R123	ERJ3GEYJ103	10K	1	R189	ERJ3GEYJ473	47K	1
R124	ERJ3GEYJ103	10K	1				
R125	Not Used			R190	ERJ3GEYJ000	0	1
R126	ERJ3GEYJ103	10K	1	R191	ERJ3GEYJ103	10K	1
R127	ERJ3GEYJ153	15K	1	R192	ERJ3GEYJ332	3.3K	1
R128	ERJ3GEYJ153	15K	1	R193	ERJ3GEYJ000	0	1
R129	ERJ3GEYJ563	56K	1	R194	ERJ3GEYJ332	3.3K	1
				R195	ERJ3GEYJ104	100K	1
R130	ERJ3GEYJ393	39K	1	R196	Not Used		
R131	Not Used			R197	Not Used		
R132	ERJ3GEYJ123	12K	1	R198	ERJ3GEYJ104	100K	1
R133	ERJ3GEYJ561	560	1	R199	ERJ3GEYJ332	3.3K	1
R134	Not Used						
R135	Not Used			R200	ERJ3GEYJ000	0	1
R136	ERJ3GEYJ104	100K	1	R201	Not Used		
R137	ERJ3GEYJ123	12K	1	R202	ERJ3GEYJ563	56K	1
R138	ERJ3GEYJ104	100K	1	R203	ERJ3GEYJ102	1K	1
R139	ERJ3GEYJ104	100K	1	R204	ERJ3GEYJ000	0	1
				R205	ERJ3GEYJ123	12K	1
R140	ERJ3GEYJ104	100K	1	R206	ERJ3GEYJ683	68K	1
R141	ERJ3GEYJ104	100K	1	R207	ERJ3GEYJ103	10K	1
R142	ERJ3GEYJ473	47K	1	R208	Not Used		
R143	ERJ3GEYJ473	47K	1	R209	Not Used		
R144	ERJ3GEYJ824	820K	1				
R145	ERJ3GEYJ104	100K	1	R210	Not Used		
R146	ERJ3GEYJ104	100K	1	R211	Not Used		
R147	ERJ3GEYJ102	1K	1	R212	ERJ3GEYJ684	680K	1
R148	ERJ3GEYJ102	1K	1	R213	ERJ3GEYJ102	1K	1
R149	ERDS2TJ820	82	1	R214	ERJ3GEYJ104	100K	1
				R215	ERJ3GEYJ104	100K	1
R150	ERDS2TJ680	68	1	R216	ERJ3GEYJ683	68K	1
R151	ERJ3GEYJ103	10K	1	R217~299	Not Used		
R152	ERJ3GEYJ333	33K	1				
R153	ERJ3GEYJ473	47K	1	R300	Not Used		
R154	ERJ3GEYJ331	330	1	R301	PQ4R10XJ102	1K	1
R155	ERJ3GEYJ182	1.8K	1	R302	PQ4R10XJ105	1M	1
R156	Not Used			R303	PQ4R10XJ103	10K	1
R157	ERJ3GEYJ681	680	1	R304	PQ4R10XJ101	100	1

This replacement parts list is for U.K. version only.

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
R305	ERDS2TJ120	12	1			(CAPACITORS)	
R306	PQ4R10XJ392	3.9K	1	C1	ECUV1H150JCV	15P	1
R307	Not Used			C2	ECUV1H102KBV	1000p	1
R308	PQ4R10XJ152	1.5K	1	C3	ECUV1H103KBV	0.01	S 1
R309	ERDS2TJ471	470	1	C4	Not Used		
R310	PQ4R10XJ123	12K	1	C5	PQCUV1H470JC	47P	1
R311	PQ4R10XJ682	6.8K	1	C6	ECUV1H103KBV	0.01	S 1
R312	ERDS2TJ222	2.2K	1	C7	ECUV1H103KBV	0.01	S 1
R313	ERDS2TJ563	56K	1	C8	ECUV1H330JCV	33P	S 1
R314	PQ4R10XJ220	22	1	C9	ECUV1H560JCV	56P	
R315	PQ4R10XJ222	2.2K	1	C10	PQCUV1H101JC	100P	1
R316	PQ4R10XJ223	22K	1	C11	ECUV1H150JCV	15P	1
R317	PQ4R10XJ683	68K	1	C12	ECUV1H220JCV	22P	1
R318	PQ4R10XJ391	390	1	C13	ECUV1H103KBV	0.01	S 1
R319	Not Used			C14	ECUV1H330JCV	33P	1
R320-324	Not Used			C15	ECUV1H103KBV	0.01	S 1
R325	PQ4R10XJ472	4.7K	1	C16	ECUV1H103KBV	0.01	S 1
R326	ERDS2TJ104	100K	1	C17	PQCUV1H223MD	0.022	1
R327	ERDS2TJ101	100	1	C18	PQCUV1H223MD	0.022	1
R328	ERDS2TJ223	22K	1	C19	ECEA1HKS010	1	1
J1	PQ4R10XJ000	0	1	C20	PQCUV1C683MD	0.068	1
J2	PQ4R10XJ000	0	1	C21	PQCUV1C683MD	0.068	1
J4	PQ4R10XJ000	0	1	C22	ECEA1HKS010	1	1
J6	PQ4R10XJ000	0	1	C23	ECUV1H392KBV	3900p	1
				C24	ECEA1EU101	100	S 1
				C25	Not Used		
				C26	PQCUV1E104MD	0.1	S 1
				C27	PQCUV1E104MD	0.1	S 1
				C28	PQCUV1C683MD	0.068	1
				C29	Not Used		
				C30	ECEA1CK101	100	S 1
				C31	ECUV1E104ZFV	0.1	S 1
				C32	ECEA1CKS100	10	1
				C33	ECEA1HKS010	1	1
				C34	ECUV1E104ZFV	0.1	S 1
				C35	ECEA1HKS3R3	3.3	1
				C36	PQCUV1C105ZF	1	S 1
				C37	ECUV1H103KBV	0.01	S 1
				C38	ECUV1H103KBV	0.01	S 1
				C39	ECUV1H150JCV	15P	1
				C40	Not Used		
				C41	ECUV1H150JCV	15P	1
				C42	ECUV1H332KBV	3300p	1
				C43	ECUV1H152KBV	1500p	1
				C44	ECUV1E104ZFV	0.1	S 1
				C45	ECEA1EU470	47	S 1
				C46	ECFD1C104KD	0.1	1
				C47	ECUV1H102KBV	1000p	1
				C48	ECUV1E104ZFV	0.1	S 1
				C49	ECEA1AU101	100	1
				C50	Not Used		
				C51	Not Used		
				C52	ECUV1H101JCV	100P	
				C53	ECUV1H821KBV	820P	S 1
				C54	ECUV1H102KBV	1000p	1
				C55	PQCBC1H101KB	100P	S 1
				C56	ECUV1H101JCV	100P	1
				C57	Not Used		
				C58	ECUV1H102KBV	1000p	1
				C59	ECUV1H470JCV	47P	1
				C60	Not Used		
				C61	ECUV1H471JCV	470P	1
				C62	ECUV1E104ZFV	0.1	S 1
				C63	PQCUV1E104MD	0.1	S 1
				C64	ECUV1E104ZFV	0.1	S 1

This replacement parts list is for U.K. version only.

Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
C65-69	Not Used			C151	Not Used		
C70-77	Not Used			C152	PQCUV1E104MD	0.1	S 1
C78	ECEA1AU102	1000	1	C153	ECEA1HKS010	1	1
C79	Not Used			C154	ECEA1HKS010	1	1
C80-84	Not Used			C155	ECUV1H103KBV	0.01	S 1
C85	ERJ3GEYJ000	0	1	C156	ECEA1AKS330	33	S 1
C86-89	Not Used			C157	Not Used		
C90-96	Not Used			C158	Not Used		
C97	ECEA1HKS010	1	1	C159	PQCUV1E104MD	0.1	S 1
C98	ECEA1HKS010	1	1	C160	ECEA0JU102	1000	1
C99	ECEA1CK101	100	S 1	C161	ECUV1H152KBV	1500	1
C100	ECUV1H223KBV	0.022	S 1	C162	PQ4R10XJ000	0	1
C101	PQCUV1E104MD	0.1	S 1	C163	ECUV1H223KBV	0.022	S 1
C102	ECUV1H683ZJV	0.068	S 1	C164	PQCUV1E104MD	0.1	S 1
C103	ECUV1H222KBV	2200	1	C165	ECUV1H103KBV	0.01	S 1
C104	PQCUV1E104MD	0.1	S 1	C166	Not Used		
C105	PQCUV1H223MD	0.022	1	C167	Not Used		
C106	PQCUV1H223MD	0.022	1	C168	PQCUV1H221JC	220P	1
C107	PQCUV1H153KB	0.015	S 1	C169	ECUV1H473MDV	0.047	S 1
C108	ECEA1CK101	100	S 1	C170	ECEA1HKS4R7	4.7	S 1
C109	PQCUV1E104MD	0.1	S 1	C171	Not Used		
C110	Not Used			C172	ECUV1H223KBV	0.022	S 1
C111	ECEA1CK101	100	S 1	C173	ECUV1E104ZJV	0.1	S 1
C112	ECUV1H821KBV	820P	S 1	C174	PQCUV1C105ZF	1	1
C113	ECUV1H332KBV	3300p	1	C175-299	Not Used		
C114	ECUV1H223KBV	0.022	S 1	C301	PQCUV1E473MD	0.047	1
C115	ECEA0JK221	220	1	C302	ECEA0JU471	470	1
C116	PQCUV1E333MD	0.033	S 1	C303	PQCUV1E104MD	0.1	S 1
C117	ECUV1H471JCV	470P	1	C304	ECEA1EK470	47	S 1
C118	PQCUV1H183KB	0.018	S 1	C305	PQCUV1E473MD	0.047	1
C119	PQCUV1E104MD	0.1	S 1	C306	ECUV1H224JZ	0.22	1
C120	ECEA1HKS4R7	4.7	S 1	C307	ECEA1CK101	100	S 1
C121	ECEA1CKS100	10	1	C308	ECKWKC472MF	4700p	△ S 1
C122	ECEA1CKS220	22	S 1	C309	Not Used		
C123	ECUV1H181JCV	180P	1	C310	Not Used		
C124	ECUV1H392KBV	3900p	1	C311	Not Used		
C125	Not Used			C312	ECKD2H681KB	680P	S 1
C126	ECEA1CKS100	10	1	C313	ECKD2H681KB	680P	S 1
C127	PQCUV1H223MD	0.022	1	C314-329	Not Used		
C128	ECUV1H221JCV	220P	1	C301	PQCUV1H103KB	0.01	1
C129	Not Used						
C130	ECUV1H562KBV	5600p	1				
C131	ECUV1H682KBV	6800p	1				
C132	PQCUV1E104MD	0.1	S 1				
C133	ECEA1HKS010	1	1				
C134	Not Used						
C135	ECUV1E104ZJV	0.1	S 1				
C136	ECUV1E104ZJV	0.1	S 1				
C137	ECUV1H220JCV	22P	1				
C138	ECUV1H220JCV	22P	1				
C139	ECEA0JU102	1000	1				
C140	ECUV1E104ZJV	0.1	S 1				
C141	ECEA0JU102	1000	1				
C142	ECEA1CK101	100	S 1				
C143	ECEA1CKS220	22	S 1				
C144	ECEA1CK470	47	1				
C145	ECUV1H103KBV	0.01	S 1				
C146	ECUV1E104ZJV	0.1	S 1				
C147	ECUV1H103KBV	0.01	S 1				
C148	Not Used						
C149	ECEA1EK470	47	1				
C150	ECEA0JU331	330	1				

This replacement parts list is for U.K. version only.

REPLACEMENT PARTS LIST

Model KX-T4066EH

Note:

1. RTL (Retention Time Limited)
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 a Δ 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 (Ω) k=1000 Ω , M=1000K Ω
All capacitors are in MICRO FARADS (μ F) p= μ 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
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*Type & Voltage of Capacitor
Type

ECFD: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
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CABINET & ELECTRICAL PARTS

21	PQAS5P27Z	SPEAKER	1
22	PQBC10085Z1	BUTTON, PAGE/INTERCOM	S 1
23	PQBC10092Z1	BUTTON, SPEAKER	S 1
24	PQBC10093Z1	BUTTON, VOLUME	S 1
25	PQBX10142Z1	BUTTON, HOLD, MUTE	S 1
26	PQGT12174Z	NAME PLATE	Δ 1
27	PQHR10170Z	LED PANEL	1
28	PQHR10171Z	MIC HOLDER	1
29	PQJA215Z	WIRE ANTENNA	1
30	PQKE10018Y1	DOOR-LID	1
31	PQKM10182Y1	UPPER CABINET	1
32	PQQT10816Y	NOTE LABEL	1
33	PQYF10074Z1	LOWER CABINET	1
34	XEAPQK170BC	ANTENNA	1
35	PJHE5065Z	SCREW (SPEAKER)	3
36	XTW3+S10P	TAPPING SCREW (3X10)	3
37	XTW3+S14P	TAPPING SCREW (3X14)	5

Ref. No.	Part No.	Part Name & Description	Pcs/Set
MAIN P.C.BOARD PARTS			
PCB20	PQWPT4066EH	P.C.BOARD ASS'Y (RTL)	Δ 1
		(ICS)	
IC1	AN6161NK	IC	1
IC2	PQVIMC145162	IC	1
IC3	PQVINJM4558M	IC	1
IC4	PQVITC4069UBF	IC	1
IC5	AN6165SB	IC	1
IC6	MN150808KAH1	IC	1
IC7	PQVISC77655V	IC	1
		(TRANSISTORS)	
Q 1	2SK543	TRANSISTOR(SI)	1
Q 2	PQVTMSC2295C	TRANSISTOR(SI)	1
Q 3	PQVTMSC2295C	TRANSISTOR(SI)	1
Q 4	2SC2412K	TRANSISTOR(SI)	1
Q 5	2SD1994A	TRANSISTOR(SI)	1
Q 6	2SB1322	TRANSISTOR(SI)	1
Q 7	2SC2412K	TRANSISTOR(SI)	1
Q 8	2SC3421	TRANSISTOR(SI)	1
Q 9	PQVTMSC2295C	TRANSISTOR(SI)	1
Q10	PQVTMSC2295C	TRANSISTOR(SI)	1
Q11	2SD601A	TRANSISTOR(SI)	1
Q12	2SD601A	TRANSISTOR(SI)	1
Q13	2SC2412K	TRANSISTOR(SI)	1
Q14	2SC2412K	TRANSISTOR(SI)	1
Q15	2SD601A	TRANSISTOR(SI)	1
Q16	2SB709A	TRANSISTOR(SI)	1
Q17	2SC2412K	TRANSISTOR(SI)	1
Q19	2SD601A	TRANSISTOR(SI)	1
Q20	2SD601A	TRANSISTOR(SI)	1
Q21	2SD601A	TRANSISTOR(SI)	1
Q23	2SC2412K	TRANSISTOR(SI)	1
Q24	PQVTFB1A4M	TRANSISTOR(SI)	1
Q25	2SC2412K	TRANSISTOR(SI)	1
Q26	2SC2412K	TRANSISTOR(SI)	1
Q27	2SB709A	TRANSISTOR(SI)	1
Q28	2SC2412K	TRANSISTOR(SI)	1
Q29	2SD1994A	TRANSISTOR(SI)	1
Q30	2SD2136	TRANSISTOR(SI)	1
Q31	2SA933	TRANSISTOR(SI)	1
Q32	2SC1740S	TRANSISTOR(SI)	1
Q33	2SC2412K	TRANSISTOR(SI)	1
Q34	2SC2412K	TRANSISTOR(SI)	1
Q301	2SD601A	TRANSISTOR(SI)	1
Q302	2SC2412K	TRANSISTOR(SI)	1
Q303	PQVTKSD261CY	TRANSISTOR(SI)	1
Q304	2SC1740S	TRANSISTOR(SI)	1
Q305	2SA1627	TRANSISTOR(SI)	1
		(DIODES)	
D 1	MA840ATAKU	DIODE(SI)	1
D 2	1SS131	DIODE(SI)	1
D 3	MA4056	DIODE(SI)	1
D 4	PQVD1SV149	DIODE(SI)	1
D 5	PQVD1SV149	DIODE(SI)	1
D 6	1SS131	DIODE(SI)	1
D 7	1SS131	DIODE(SI)	1
D 8	1SS131	DIODE(SI)	1
D 9	1SS131	DIODE(SI)	1
D10	MA4330M	DIODE(SI)	1
D12	MA4110	DIODE(SI)	1
D13	MA4068	DIODE(SI)	1
D14	1SS131	DIODE(SI)	1
D15	1SS131	DIODE(SI)	1
D16	MA4056	DIODE(SI)	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
D17	1SS131	DIODE(SI)	1			(OTHERS)	
D18	1SS131	DIODE(SI)	1	CF1	PQVCM107M7.5	CERAMIC FILTER	1
D19	1SS131	DIODE(SI)	1	CF2	PQVFCFW450G	CERAMIC FILTER	1
D20	RLS71	DIODE(SI)	1	E1	PQJM120Z	MICROPHONE	1
D21	1SS131	DIODE(SI)	1	E2	PQJT10050Z	BATTERY TERMINAL	3
D23	1SS131	DIODE(SI)	1	L 8	ERPD0WR0R5	POLYSWITCH	1
D24	1SS131	DIODE(SI)	1	P01	PQRPAR390N	THERMISTOR	1
D25	1SS131	DIODE(SI)	1	QJ1	PQJJ2H002Z	JACK	1
D26	1SS314	DIODE(SI)	1	RLY1	PQSL107Z	RELAY	1
D301	MA4030	DIODE(SI)	1	SA1	PQVDRA311PT3	VARIATOR	1
D302	MA4270	DIODE(SI)	1	VC1	ECRLA030E53	TRIMMER CAPACITOR	1
D303	MA4033	DIODE(SI)	1	X2	PQVCJ10250N5	CRYSTAL OSCILLATOR	1
D304	1SS131	DIODE(SI)	1	X3	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	1
D305	PQVDS1ZB40F1	DIODE(SI)	1				
D306	PQVDS1ZB40F1	DIODE(SI)	1				
B	1SS131	DIODE(SI)	1				
E	1SS131	DIODE(SI)	1				
IND1	LN31GCPHV	LED	S 1				
IND2	LN21RCPHV	LED	S 1				
IND3	LN21RCPHV	LED	S 1				
IND4	LN21RCPHV	LED	S 1				
		(COILS)					
	PQLQZK2R2K	COIL (for ANTENNA)	1				
L 2	PQLQZK330K	COIL	1				
L 3	PQLQZK8R2K	COIL	1				
L 4	PQLQZK101K	COIL	1				
L 6	PQLQZM1R0K	COIL	1				
L10	PQLQZM3R9K	COIL	1				
L11	PQLQZM3R9K	COIL	1				
L12	PQLQZM3R9K	COIL	1				
T 1	PQLA7A17	COIL	1				
T 2	PQLA7A33	COIL	1				
T 4	PQLA7A11	COIL	1				
T 6	PQLA2B6	COIL	1				
T 8	PQLA2B5	COIL	1				
		(I.F. TRANSFORMERS)				(RESISTORS)	
T 3	PQLI4B901	I.F. TRANSFORMER	1	R1	ERJ3GEYJ181	180	1
T 5	PQLI2B201	I.F. TRANSFORMER	1	R 2	ERJ3GEYJ470	47	1
		(VARIABLE RESISTORS)		R 3	ERJ3GEYJ224	220k	1
VR1	EVNDXAA03B15	VARIABLE RESISTOR	1	R 4	ERJ3GEYJ470	47	1
VR2	EVNDXAA03B35	VARIABLE RESISTOR	1	R 5	ERJ3GEYJ470	47	1
		(SWITCHES)		R 6	ERJ3GEYJ334	330k	1
S1	PQSS3A17W	SWITCH, RINGER	1	R 7	ERJ3GEYJ272	2.7k	1
S2	PQSS2A27W	SWITCH, DIALLING MODE	1	R 8	ERJ3GEYJ332	3.3k	1
S3	PQSS2A27W	SWITCH, RECALL	1	R 9	ERJ3GEYJ333	33k	1
S4	EVQ21405R	SWITCH, VOLUME	1	R10	ERJ3GEYJ333	33k	1
S5	EVQ21405R	SWITCH, VOLUME	1	R11	ERJ3GEYJ153	15k	1
S6	EVQ21405R	SWITCH, HOLD	1	R12	ERJ3GEYJ562	5.6k	1
S7	EVQ21405R	SWITCH, MUTE	1	R13	ERJ3GEYJ473	47k	1
S8	EVQ21405R	SWITCH, SPEAKERPHONE.	1	R14	ERJ3GEYJ103	10k	1
S9	PQSH1A57Z	SWITCH, PAGE/INTERCOM	1	R15	ERJ3GEYJ103	10k	1
		(PHOTO COUPLERS)		R16	ERJ3GEYJ222	2.2k	1
PC301	PQVITLP631K	PHOTO ELECTRIC TRANSDUCER	1	R17	ERJ3GEYJ273	27k	1
PC302	PQVITLP631K	PHOTO ELECTRIC TRANSDUCER	1	R18	ERJ3GEYJ220	22	1
PC304	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER	1	R19	Not Used		
PC305	PQVITLP627	PHOTO ELECTRIC TRANSDUCER	1	R20	ERJ3GEYJ102	1k	1
PC306	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER	1	R21	ERJ3GEYJ222	2.2k	1
PC307	PQVIPC814Y	PHOTO ELECTRIC TRANSDUCER	1	R22	ERJ3GEYJ562	5.6k	1
				R23	ERJ3GEYJ104	100k	1
				R24	ERJ3GEYJ103	10k	1
				R25	ERJ3GEYJ222	2.2k	1
				R26	ERJ3GEYJ000	0	1
				R27	ERJ3GEYJ222	2.2k	1
				R28	ERJ3GEYJ103	10k	1
				R29	ERDS1TJ330	33	1

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Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
R30	ERJ3GEYJ103	10k	1	R95	ERJ3GEYJ223	22k	1
R31	ERJ3GEYJ224	220k	1	R96	ERJ3GEYJ471	470	1
R32	ERJ3GEYJ103	10k	1	R97	ERJ3GEYJ103	10k	1
R33	ERJ3GEYJ473	47k	1	R98	ERJ3GEYJ000	0	1
R34	ERJ3GEYJ470	47	1	R99	ERJ3GEYJ103	10k	1
R35	ERJ3GEYJ470	47	1				
R36	ERJ3GEYJ104	100k	1	R100	ERJ3GEYJ563	56k	1
R37	ERJ3GEYJ471	470	1	R101	ERJ3GEYJ474	470k	1
R38	ERJ3GEYJ104	100k	1	R102	ERJ3GEYJ124	120k	1
R39	ERJ3GEYJ473	47k	1	R103	ERJ3GEYJ563	56k	1
				R104	ERJ3GEYJ273	27k	1
R40	ERJ3GEYJ473	47k	1	R105	ERJ3GEYJ153	15k	1
R41	ERJ3GEYJ104	100k	1	R106	ERJ3GEYJ471	470	1
R42	ERJ3GEYJ683	68k	1	R107	ERJ3GEYJ472	4.7k	1
R43	ERJ3GEYJ683	68k	1	R108	ERJ3GEYJ472	4.7k	1
R44	ERJ3GEYJ153	15k	1	R109	ERJ3GEYJ822	8.2k	1
R45	ERJ3GEYJ103	10k	1				
R46	ERJ3GEYJ224	220k	1	R110	ERJ3GEYJ224	220k	1
R47	ERJ3GEYJ181	180	1	R111	ERJ3GEYJ224	220k	1
R48	ERJ3GEYJ564	560k	1	R112	ERJ3GEYJ104	100k	1
R49	ERJ3GEYJ153	15k	1	R113	ERJ3GEYJ104	100k	1
				R114	ERJ3GEYJ334	330k	1
R50	ERJ3GEYJ223	22k	1	R115	ERJ3GEYJ273	27k	1
R51	ERJ3GEYJ222	2.2k	1	R116	ERJ3GEYJ273	27k	1
R52	ERJ3GEYJ334	330k	1	R117	ERJ3GEYJ153	15k	1
R53	ERJ3GEYJ123	12k	1	R118	ERJ3GEYJ823	82k	1
R54	ERJ3GEYJ820	82	1	R119	ERJ3GEYJ683	68k	1
R55	ERJ3GEYJ332	3.3k	1				
R56	ERJ3GEYJ000	0	1	R120	ERJ3GEYJ470	47	1
R57	ERJ3GEYJ103	10k	1	R121	ERJ3GEYJ333	33k	1
R58	ERJ3GEYJ104	100k	1	R122	ERJ3GEYJ000	0	1
R59	ERJ3GEYJ183	18k	1	R123	ERJ3GEYJ103	10k	1
				R124	ERJ3GEYJ103	10k	1
R60	ERJ3GEYJ123	12k	1	R125	ERJ3GEYJ682	6.8k	1
R61	ERJ3GEYJ104	100k	1	R126	ERJ3GEYJ103	10k	1
R62	ERJ3GEYJ683	68k	1	R127	ERJ3GEYJ153	15k	1
R63	ERJ3GEYJ104	100k	1	R128	ERJ3GEYJ153	15k	1
R64	ERJ3GEYJ473	47k	1	R129	ERJ3GEYJ563	56k	1
R65	ERJ3GEYJ474	470k	1				
R66	ERJ3GEYJ273	27k	1	R130	ERJ3GEYJ222	2.2k	1
R67	ERJ3GEYJ000	0	1	R131	ERJ3GEYJ272	2.7k	1
R68	ERJ3GEYJ103	10k	1	R132	ERJ3GEYJ472	4.7k	1
R69	ERJ3GEYJ222	2.2k	1	R133	ERJ3GEYJ561	56k	1
				R134	ERJ3GEYJ102	1k	1
R70	ERJ3GEYJ000	0	1	R135	ERJ3GEYJ102	1k	1
R71	Not Used			R136	ERJ3GEYJ104	100k	1
R72	Not Used			R137	ERJ3GEYJ123	12k	1
R73	ERJ3GEYJ472	4.7k	1	R138	ERJ3GEYJ104	100k	1
R74	ERJ3GEYJ104	100k	1	R139	ERJ3GEYJ104	100k	1
R75	ERJ3GEYJ821	820	1				
R76	ERJ3GEYJ225	2.2M	1	R140	ERJ3GEYJ104	100k	1
R77	ERJ3GEYJ275	2.7M	1	R141	ERJ3GEYJ104	100k	1
R78	ERJ3GEYJ273	27k	1	R142	ERJ3GEYJ473	47k	1
R79	ERJ3GEYJ104	100k	1	R143	ERJ3GEYJ473	47k	1
				R144	ERJ3GEYJ824	820k	1
R80	ERJ3GEYJ682	6.8k	1	R145	ERJ3GEYJ104	100k	1
R81	ERJ3GEYJ472	4.7k	1	R146	ERJ3GEYJ104	100k	1
R82	ERJ3GEYJ104	100k	1	R147	ERJ3GEYJ102	1k	1
R83	ERJ3GEYJ104	100k	1	R148	ERJ3GEYJ102	1k	1
R84	ERJ3GEYJ104	100k	1	R149	ERDS2TJ820	82	1
R85	ERJ3GEYJ104	100k	1				
R86	ERJ3GEYJ105	1M	1	R150	ERDS2TJ680	68	1
R87	ERJ3GEYJ154	150k	1	R151	ERJ3GEYJ103	10k	1
R88	ERJ3GEYJ822	8.2k	1	R152	ERJ3GEYJ333	33k	1
R89	ERJ3GEYJ223	22k	1	R153	ERJ3GEYJ473	47k	1
				R154	ERJ3GEYJ331	330	1
R90	ERJ3GEYJ102	1k	1	R155	ERJ3GEYJ182	1.8k	1
R91	ERJ3GEYJ334	330k	1	R156	Not Used		
R92	ERJ3GEYJ471	470	1	R157	ERJ3GEYJ681	680	1
R93	ERJ3GEYJ102	1k	1	R158	ERJ3GEYJ222	2.2k	1
R94	ERJ3GEYJ103	10k	1	R159	ERJ3GEYJ682	6.8k	1

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Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Part Name & Description	Pcs/Set
R160	ERJ3GEYJ000	0	1	R307	Not Used		
R161	ERJ3GEYJ104	100k	1	R308	PQ4R10XJ152	1.5k	1
R162	ERJ3GEYJ334	330k	1	R309	ERDS2TJ471	470	1
R163	ERJ3GEYJ682	6.8k	1				
R164	ERJ3GEYJ223	22k	1	R310	PQ4R10XJ123	12k	1
R165	ERJ3GEYJ104	100k	1	R311	PQ4R10XJ682	6.8k	1
R166	ERJ3GEYJ222	2.2k	1	R312	ERDS2TJ222	2.2k	1
R167	ERJ3GEYJ683	68k	1	R313	ERDS2TJ104	100k	1
R168	ERJ3GEYJ684	680k	1	R314	PQ4R10XJ220	22	1
R169	ERJ3GEYJ823	82k	1	R315	PQ4R10XJ222	2.2k	1
				R316	PQ4R10XJ223	22k	1
R170	Not Used			R317	PQ4R10XJ683	68k	1
R171	ERJ3GEYJ151	150	1	R318	PQ4R10XJ391	390	1
R172	ERJ3GEYJ224	220k	1	R319	Not Used		
R173	ERJ3GEYJ103	10k	1				
R174	ERJ3GEYJ223	22k	1	R320	Not Used		
R175	ERJ3GEYJ121	120	1	R321	PQ4R10XJ472	4.7k	1
R176	ERJ3GEYJ124	120k	1	R322	PQ4R10XJ823	82k	1
R177	ERJ3GEYJ152	1.5k	1	R323	PQ4R10XJ682	6.8k	1
R178	ERJ3GEYJ103	10k	1	R324	PQ4R10XJ153	15k	1
R179	Not Used			R325	PQ4R10XJ682	6.8k	1
				R326	ERDS2TJ104	100k	1
R180	ERJ3GEYJ224	220k	1	R327	ERDS2TJ101	100	1
R181	ERJ3GEYJ472	4.7k	1	R328	ERDS2TJ223	22k	1
R182	ERJ3GEYJ152	1.5k	1				
R183	ERJ3GEYJ104	100k	1	J1	PQ4R10XJ000	0	1
R184	ERJ3GEYJ823	82k	1	J2	PQ4R10XJ000	0	1
R185	ERJ3GEYJ271	270	1	J4	PQ4R10XJ000	0	1
R186	Not Used			J6	PQ4R10XJ000	0	1
R187	ERJ3GEYJ103	10k	1				
R188	ERJ3GEYJ000	0	1				
R189	ERJ3GEYJ103	10k	1				
R190	ERJ3GEYJ000	0	1				
R191	ERJ3GEYJ103	10k	1				
R192	ERJ3GEYJ332	3.3k	1				
R193	ERJ3GEYJ000	0	1				
R194	ERJ3GEYJ332	3.3k	1				
R195	ERJ3GEYJ104	100k	1				
R196	ERJ3GEYJ333	33k	1				
R197	ERJ3GEYJ333	33k	1				
R198	ERJ3GEYJ104	100k	1				
R199	ERJ3GEYJ332	3.3k	1				
R200	ERJ3GEYJ000	0	1				
R201	Not Used						
R202	ERJ3GEYJ563	56k	1				
R203	ERJ3GEYJ102	1k	1				
R204	ERJ3GEYJ000	0	1				
R205	ERJ3GEYJ123	12k	1				
R206	ERJ3GEYJ472	4.7k	1				
R207	ERJ3GEYJ103	10k	1				
R208	Not Used						
R209	Not Used						
R210	Not Used						
R211	ERJ3GEYJ472	4.7k	1				
R212	ERJ3GEYJ684	680k	1				
R213	ERJ3GEYJ102	1k	1				
R214	ERJ3GEYJ104	100k	1				
R215	ERJ3GEYJ104	100k	1				
R216	ERJ3GEYJ683	68k	1				
R217-299	Not Used						
R300	Not Used						
R301	PQ4R10XJ102	1k	1				
R302	PQ4R10XJ105	1M	1				
R303	PQ4R10XJ103	10k	1				
R304	PQ4R10XJ101	100	1				
R305	ERDS2TJ120	12	1				
R306	PQ4R10XJ272	2.7k	1				

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Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
		(CAPACITORS)					
C 1	ECUV1H150JCV	15p	1	C65	PQCUV1E104MD	0.1	S 1
C 2	ECUV1H102KBV	1000p	1	C66	ECUV1E104ZFV	0.1	S 1
C 3	ECUV1H103KBV	0.01	S 1	C67	PQCUV1E104MD	0.1	S 1
C 4	Not Used			C68	PQCUV1H123MD	0.012	1
C 5	PQCUV1H470JC	47p	1	C69	Not Used		
C 6	ECUV1H103KBV	0.01	S 1	C70	PQCUV1C683MD	0.068	1
C 7	ECUV1H103KBV	0.01	S 1	C71	PQCUV1H472KB	4700p	1
C 8	ECUV1H330JCV	33p	S 1	C72	ECEA1CKS100	10	1
C 9	ECUV1H560JCV	56p	1	C73	ECEA1HKS4R7	4.7	S 1
C10	PQCUV1H101JC	100p	1	C74	ECEA1CKS470	47	S 1
C11	ECUV1H150JCV	15p	1	C75	ECEA0JK221	220	1
C12	ECUV1H220JCV	22p	1	C76	PQCUV1E104MD	0.1	S 1
C13	ECUV1H103KBV	0.01	S 1	C77	ECEA1HKS3R3	3.3	1
C14	ECUV1H330JCV	33p	1	C78	ECEA1AU102	1000	1
C15	ECUV1H103KBV	0.01	S 1	C79	ECUV1H222KBV	2200p	1
C16	ECUV1H103KBV	0.01	S 1	C80	ECUV1H222KBV	2200p	1
C17	PQCUV1H223MD	0.022	1	C81	ECUV1H222KBV	2200p	1
C18	PQCUV1H223MD	0.022	1	C82	ERJ3GEYJ000	0	1
C19	ECEA1HKS010	1	1	C83	ECUV1H223KBV	0.022	S 1
C20	PQCUV1C683MD	0.068	1	C84	ECEA1CK101	100	S 1
C21	PQCUV1C683MD	0.068	1	C85	Not Used		
C22	ECEA1HKS010	1	1	C86	Not Used		
C23	ECUV1H392KBV	3900p	1	C87	PQCUV1E104MD	0.1	S 1
C24	ECEA1EU101	100	S 1	C88	PQCUV1C683MD	0.068	1
C25	Not Used			C89	ECEA1HKS4R7	4.7	S 1
C26	PQCUV1E104MD	0.1	S 1	C90	ECEA1CKS470	47	S 1
C27	PQCUV1E104MD	0.1	S 1	C91	ECEA1HKS010	1	1
C28	PQCUV1C683MD	0.068	1	C92	ECEA1HKS010	1	1
C29	Not Used			C93	PQCUV1E473MD	0.047	1
C30	ECEA1CK101	100	S 1	C94	PQCUV1E104MD	0.1	S 1
C31	ECUV1E104ZFV	0.1	S 1	C95	PQCUV1E333MD	0.033	S 1
C32	ECEA1CKS100	10	1	C96	PQCUV1E104MD	0.1	S 1
C33	ECEA1HKS010	1	1	C97	ECEA1HKS010	1	1
C34	ECUV1E104ZFV	0.1	S 1	C98	ECEA1HKS010	1	1
C35	ECEA1HKS3R3	3.3	1	C99	ECEA1CK101	100	S 1
C36	PQCUV1C105ZF	1	S 1	C100	ECUV1H223KBV	0.022	S 1
C37	ECUV1H103KBV	0.01	S 1	C101	PQCUV1E104MD	0.1	S 1
C38	ECUV1H103KBV	0.01	S 1	C102	ECUV1H683ZFV	0.068	S 1
C39	ECUV1H150JCV	15p	1	C103	ECUV1H222KBV	2200	1
C40	Not Used			C104	PQCUV1E104MD	0.1	S 1
C41	ECUV1H150JCV	15p	1	C105	PQCUV1H223MD	0.022	1
C42	ECUV1H332KBV	3300p	1	C106	PQCUV1H223MD	0.022	1
C43	ECUV1H152KBV	1500p	1	C107	PQCUV1H153KB	0.015	S 1
C44	ECUV1E104ZFV	0.1	S 1	C108	ECEA1CK101	100	S 1
C45	ECEA1EU470	47	S 1	C109	PQCUV1E104MD	0.1	S 1
C46	ECFD1C104KD	0.1	1	C110	Not Used		
C47	ECUV1H102KBV	1000p	1	C111	ECEA1CK101	100	S 1
C48	ECUV1E104ZFV	0.1	S 1	C112	ECUV1H821KBV	820p	S 1
C49	ECEA1AU101	100	1	C113	ECUV1H332KBV	3300p	1
C50	Not Used			C114	ECUV1H223KBV	0.022	S 1
C51	Not Used			C115	ECEA0JK221	220	1
C52	ECUV1H101JCV	100p	1	C116	PQCUV1E333MD	0.033	S 1
C53	ECUV1H821KBV	820p	S 1	C117	ECUV1H471JCV	470p	1
C54	ECUV1H102KBV	1000p	1	C118	PQCUV1H183KB	0.018	S 1
C55	PQCBC1H101KB	100p	S 1	C119	PQCUV1E104MD	0.1	S 1
C56	ECUV1H101JCV	100p	1	C120	ECEA1HKS4R7	4.7	S 1
C57	Not Used			C121	ECEA1CKS100	10	1
C58	ECUV1H102KBV	1000p	1	C122	ECEA1CKS220	22	S 1
C59	ECUV1H470JCV	47p	1	C123	ECUV1H181JCV	180p	1
C60	Not Used			C124	ECUV1H392KBV	3900	1
C61	ECUV1H471JCV	470p	1	C125	Not Used		
C62	ECUV1E104ZFV	0.1	S 1	C126	ECEA1CKS100	10	1
C63	PQCUV1E104MD	0.1	S 1	C127	PQCUV1H223MD	0.022	1
C64	ECUV1E104ZFV	0.1	S 1	C128	ECUV1H221JCV	220p	1
				C129	ECUV1H223KBV	0.022	S 1

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Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
C130	ECUV1H123KBV	0.012	1	C314-329	Not Used		
C131	ECUV1H682KBV	6800p	1	C330	PQCUV1H103KB	0.01	1
C132	PQCUV1E104MD	0.1	S 1				
C133	ECEA1HKS010	1	1				
C134	Not Used						
C135	ECUV1E104ZFV	0.1	S 1				
C136	ECUV1E104ZFV	0.1	S 1				
C137	ECUV1H220JCV	22p	1				
C138	ECUV1H220JCV	22p	1				
C139	ECEA0JU102	1000	1				
C140	ECUV1E104ZFV	0.1	S 1				
C141	ECEA0JU102	1000	1				
C142	ECEA1CK101	100	S 1				
C143	ECEA1CKS220	22	S 1				
C144	ECEA1CK470	47	1				
C145	ECUV1H103KBV	0.01	S 1				
C146	ECUV1E104ZFV	0.1	S 1				
C147	ECUV1H103KBV	0.01	S 1				
C148	Not Used						
C149	ECEA1EK470	47	1				
C150	ECEA0JU331	330	1				
C151	Not Used						
C152	PQCUV1E104MD	0.1	S 1				
C153	ECEA1HKS010	1	1				
C154	ECEA1HKS010	1	1				
C155	ECUV1H103KBV	0.01	S 1				
C156	ECEA1AKS330	33	S 1				
C157	PQ4R10XJ000	0	1				
C158	ECUV1H221JCV	220p	1				
C159	PQCUV1E104MD	0.1	S 1				
C160	ECEA0JU102	1000	1				
C161	ECUV1H182KBV	1800	1				
C162	PQ4R10XJ000	0	1				
C163	ECUV1H223KBV	0.022	S 1				
C164	PQCUV1E104MD	0.1	S 1				
C165	ECUV1H103KBV	0.01	S 1				
C166	Not Used						
C167	Not Used						
C168	PQCUV1H221JC	220P	1				
C169	ECUV1H473MDV	0.047	S 1				
C170	ECEA1HKS4R7	4.7	S 1				
C171	Not Used						
C172	ECUV1H223KBV	0.022	S 1				
C173	ERJ3GEYJ000	0	1				
C174	PQCUV1C105ZF	1	1				
C175-177	Not Used						
C178	ECUV1H104MD	0.1	S 1				
C179	ECUV1H102KBV	1000p	1				
C180	ECUV1H102KBV	1000p	1				
C181-299	Not Used						
C300	Not Used						
C301	PQCUV1E473MD	0.047	1				
C302	ECEA0JU471	470	1				
C303	PQCUV1E104MD	0.1	S 1				
C304	ECEA1EK470	47	S 1				
C305	PQCUV1E473MD	0.047	1				
C306	ECQV1H224JZ	0.22	1				
C307	ECEA1CK101	100	S 1				
C308	ECKWKC472MF	4700p	S 1				
C309	ECEA1CKS100	10	1				
C310	ECEA1CK101	100	S 1				
C311	PQCUV1H103KB	0.01	S 1				
C312	ECKD2H681KB	680P	S 1				
C313	ECKD2H681KB	680P	S 1				

This replacement parts list is for U.K. version only.

REPLACEMENT PARTS LIST

Model KX-T4036E/KX-T4066E

Note:

1. RTL (Retention Time Limited)

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 a 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 (Ω) k=1000 Ω , M=1000K Ω

All capacitors are in MICRO FARADS (μ F) p= μ 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	ECQD,ECQK,ECBT,PQBCB : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG	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
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CABINET & ELECTRICAL PARTS

101	PQXA36ASVC	RECHARGEABLE BATTERY	S 1
102	PQAX3P16Z	SPEAKER	1
103	PQSA10013Y	ANTENNA 4036E Only	1
103	PQSA10013Z	ANTENNA 4066E Only	1
104	PQSX10013X	BUTTON, 12KEY 4036E Only	1
104	PQSX10013Y	BUTTON, 12KEY 4066E Only	1
105	PQBC10082Z3	BUTTON, TALK 4036E Only	S 1
105	PQBC10082Z1	BUTTON, TALK 4066E Only	S 1
106	PQBC10084Z1	BUTTON, CH 4036E Only	S 1
107	PQBD10022Z3	KNOB, POWER 4036E Only	S 1
108	PQBX10131X2	BUTTON, PAUSE etc 4066E Only	1
108	PQBX10131X1	BUTTON, PAUSE etc 4066E Only	1
109	PQGD10139Y	TEL CARD 4036E Only	1
109	PQGD10139Z	TEL CARD 4066E Only	1
110	PQGP10056P1	PANEL 4036E Only	1
110	PQGP10049Q1	PANEL 4066E Only	1
111	PQGV10021Z	TEL CARD COVER 4036E Only	1
112	PQKF10096S3	CABINET COVER 4066E Only	1
112	PQKF10096S1	CABINET COVER 4066E Only	1
113	PQKK10021Z3	BATTERY CASE 4036E Only	S 1
113	PQKK10021Z1	BATTERY CASE 4066E Only	S 1
114	PQKM10114T3	LOWER CABINET 4036E Only	1
114	PQKM10114U1	LOWER CABINET 4066E Only	1
115	PJHE5065Z	SCREW (SPEAKER)	2
116	PQGT12073Z	NAME PLATE 4036E Only	1
116	PQGT12071Z	NAME PLATE 4066E Only	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
117	PQHG10351Z	RUBBER PARTS	1
118	PQHX10309Y	INSULATOR	1
119	PQHX10584Z	INSULATOR	1
120	PQQT10935Z	RECYCLE LABEL	1
121	XTW26+10E	TAPPING SCREW (26X10) S	4
122	XTW26+12F	TAPPING SCREW (26X12)	1
123	XWC4B	WASHER	1
124	PQBC10091Z1	BUTTON, PAGE/INT'COM 4066E Only	S 1

MAIN P.C. BOARD PARTS

Ref. No.	Part No.	Part Name & Description	Pcs/Set
PCB100	PQWPT4036ER	P.C. BOARD ASS'Y (RTL) 4036E Only	1
PCB200	PQWPT4066ER	P.C. BOARD ASS'Y (RTL) 4066E Only	1
(ICs)			
IC1	PQVIMC3361D	IC	1
IC2	PQVIMC145162	IC	1
IC3	AN6183SAE1	IC	1
IC4	AN6165SB	IC	1
IC5	PQVINJM4558M	IC	1
IC6	PQVIN7201U30	IC	1
IC101	MN150810KZP1	IC	1
IC102	PQVISC78184D	IC	1
IC103	PQVIPD4069G	IC	1
(TRANSISTORS)			
Q 1	2SD1819A	TRANSISTOR(SI)	S 1
Q 2	PQVTMSC2295C	TRANSISTOR(SI)	1
Q 3	2SC4098QT106	TRANSISTOR(SI)	1
Q101	2SA1036KQ146	TRANSISTOR(SI)	S 1
Q102	2SD601A	TRANSISTOR(SI)	1
Q103	2SD601A	TRANSISTOR(SI)	1
Q104	2SD1819A	TRANSISTOR(SI)	S 1
Q105	2SB1218A	TRANSISTOR(SI)	1
Q106	2SB1218A	TRANSISTOR(SI)	1
Q107	XN4116	TRANSISTOR(SI)	1
Q108	XN1116	TRANSISTOR(SI)	1
Q111	2SD601A	TRANSISTOR(SI)	1
Q201	2SD601A	TRANSISTOR(SI)	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
(DIODE(SI))			
D 1	PQVD1SV149	DIODE(SI)	1
D 2	PQVD1SV149	DIODE(SI)	1
D 3	PQVD1SV149	DIODE(SI)	1
D 4	1SS131	DIODE(SI)	1
D 5	MA840ATAKU	DIODE(SI)	1
D 6	MA840ATAKU	DIODE(SI)	1
D 7	MA4030	DIODE(SI)	1
D10	1SS314	DIODE(SI)	1
D11	1SS314	DIODE(SI)	1
D101	MA723	DIODE(SI)	1
D102	PQVDRB721	DIODE(SI)	1
D105	MA728	DIODE(SI)	1
D201	1SS131	DIODE(SI)	1
D202	1SS131	DIODE(SI)	1
D203	1SS131	DIODE(SI)	1
D204	1SS131	DIODE(SI)	1
C	1SS131	DIODE(SI)	1
E	1SS131	DIODE(SI)	1
IND101	PQVDSL33MC3	DIODE(SI) 4066E Only	1
IND102	PQVDSL33MC3	DIODE(SI)	1
IND201	PQVDSL22VR1	DIODE(SI)	1

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Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
(COILS)				R10	ERJ3GEYJ223	22k	1
L 1	PQLQZM100K	COIL	1	R11	ERJ3GEYJ221	220	1
L102	PQLQZM100K	COIL	1	R12	ERJ3GEYJ104	100k	1
T4	PQLA7A7	COIL	1	R13	ERJ3GEYJ183	18k	1
T6	PQLA7A22	COIL	1	R14	ERJ3GEYJ104	100k	1
				R15	ERJ3GEYJ562	5.6k	1
				R16	ERJ3GEYJ184	180k	1
(TRANSFORMERS)				R17	ERJ3GEYJ563	56k	1
T1	EIR7QF022A	TRANSFORMER	1	R18	ERJ3GEYJ154	150k	1
T2	EIR7QF022A	TRANSFORMER	1	R19	ERJ3GEYJ682	6.8k	1
T3	PQLI2B201	I.F. TRANSFORMER	1				
(VARIABLE RESISTORS)				R20	ERJ3GEYJ152	1.5k	1
VR1	EVNDXAA03B15	VARIABLE RESISTOR	1	R21	ERJ3GEYJ562	5.6k	1
VR2	EVNDXAA03B15	VARIABLE RESISTOR	1	R22	ERJ3GEYJ222	2.2k	1
VR3	EVNDXAA03B15	VARIABLE RESISTOR	1	R23	ERJ3GEYJ470	47	1
				R24	ERJ3GEYJ222	2.2k	1
				R25	ERJ3GEYJ103	10k	1
				R26	ERJ3GEYJ682	6.8k	1
				R27	ERJ3GEYJ000	0	1
(SWITCHES)				R28	ERJ3GEYJ333	33k	1
S1	ESD11H120	SWITCH, POWER/RINGER	1	R29	ERJ3GEYJ473	47k	1
S2	PQSH1A44Z	SWITCH, CH	1				
S113	PQSH1A57Z	SWITCH, TALK	1	R30	ERJ3GEYJ473	47k	1
S114	PQSH1A57Z	SWITCH, PAGE/INTERCOM 4066E Only	1	R31	ERJ3GEYJ104	100k	1
				R32	ERJ3GEYJ000	0	1
				R33-35	Not Used		
S201	EVQ21404M	SWITCH, MERCURY	1	R36	ERJ3GEYJ683	68k	1
S202	EVQ21404M	SWITCH, PROGRAM	1	R37	ERJ3GEYJ333	33k	1
S203	EVQ21404M	SWITCH, PAUSE	1	R38	ERJ3GEYJ683	68k	1
S204	EVQ21404M	SWITCH, RECALL	1	R39	ERJ3GEYJ470	47	1
S205	EVQ21404M	SWITCH, REDIAL	1				
S206	EVQ21404M	SWITCH, AUTO	1	R40	ERJ3GEYJ683	68k	1
				R41	ERJ3GEYJ683	68k	1
(TRIMMER CAPACITORS)				R42	ERJ3GEYJ103	10k	1
VC1	ECRLA050M53	TRIMMER CAPACITOR	1	R43	Not Used		
VC2	ECRLA050M53	TRIMMER CAPACITOR	1	R44	Not Used		
VC3	ECRLA020E53	TRIMMER CAPACITOR	1	R45	ERJ3GEYJ104	100k	1
				R46	ERJ3GEYJ683	68k	1
				R47	Not Used		
(CRYSTALS)				R48	ERJ3GEYJ104	100k	1
X1	PQVCJ1025N5	CRYSTAL OSCILLATOR	1	R49	ERJ3GEYJ224	220k	1
X101	PQVCL3276N9Z	CRYSTAL OSCILLATOR	1				
X102	PQVCJ3992N9Z	CRYSTAL OSCILLATOR	1	R50	ERJ3GEYJ224	220k	1
				R51	ERJ3GEYJ104	100k	1
				R52	ERJ3GEYJ563	56k	1
				R53	ERJ3GEYJ333	33k	1
(OTHERS)				R54	ERJ3GEYJ102	1k	1
CF1	PQVFCFWS450F	CERAMIC FILTER	1	R55	ERJ3GEYJ822	8.2k	1
CN1	PQJP2D59Z	CONNECTOR	1	R56	ERJ3GEYJ103	10k	1
W1	WBJ11SH-4SS	LEAD WIRE	1	R57	ERJ3GEYJ103	10k	1
W2	WBX19SH-3SS	LEAD WIRE	1	R58	ERJ3GEYJ153	15k	1
E1	PQEFBC12GP03	BUZZER	S 1	R59	ERJ3GEYJ563	56k	1
E2	PQJM124X	MICROPHONE	1				
E3	PQJT10039Z	BATTERY TERMINAL	3				
E4	PQLF216	BAR ANTENNA	1	R60	ERJ3GEYJ153	15k	1
				R61	ERJ3GEYJ153	15k	1
				R62	ERJ3GEYJ564	560k	1
				R63	ERJ3GEYJ102	1k	1
				R64	ERJ3GEYJ333	33k	1
				R65	ERJ3GEYJ153	15k	1
				R66	ERJ3GEYJ333	33k	1
(RESISTORS)				R67	ERJ3GEYJ223	22k	1
R 1	PQ4R10XJ000	0	1	R68	ERJ3GEYJ332	3.3k	1
R 2	ERJ3GEYJ274	270k	1	R69	ERJ3GEYJ123	12k	1
R 3	ERJ3GEYJ331	330	1				
R 4	PQ4R10XJ104	100k	1	R70	ERJ3GEYJ223	22k	1
R 5	ERJ3GEYJ000	0	1	R71	ERJ3GEYJ394	390k	1
R 6	ERJ3GEYJ103	10k	1	R72	ERJ3GEYJ333	33k	1
R 7	ERJ3GEYJ273	27k	1	R73	ERJ3GEYJ104	100k	1
R 8	ERJ3GEYJ470	47	1	R74	ERJ3GEYJ333	33k	1
R 9	Not Used			R75	ERJ3GEYJ333	33k	1
				R76	ERJ3GEYJ333	33k	1

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Ref. No.	Part No.	Value	Pcs/Set	Ref. No.	Part No.	Value	Pcs/Set
R77	Not Used					(CAPACITORS)	
R78	ERJ3GEYJ470	47	1	C1	PQCUV1H103KB	0.01	S 1
R79	ERJ3GEYJ222	2.2k	1	C2	PQCUV1H331JC	330p	1
R80-99	Not Used			C3	Not Used		
R100	Not Used			C4	PQCUV1E104MD	0.1	S 1
R101	PQ4R10XJ152	1.5k	1	C5	ECUV1H121JCV	120p	1
R102	PQ4R10XJ101	100	1	C6	PQCUV1E104MD	0.1	S 1
R103	PQ4R10XJ104	100k	1	C7	ECUV1H330JCV	33p	1
R104	PQ4R10XJ122	1.2k	1	C8	ECUV1H102KBV	1000p	1
R105	PQ4R10XJ221	220	1	C9	ECUV1H331JCV	330p	1
R106	PQ4R10XJ223	22k	1				
R107	PQ4R10XJ223	22k	1	C10	ECUV1E104ZFV	0.1	S 1
R108	PQ4R10XJ472	4.7k	1	C11	ECUV1E104ZFV	0.1	S 1
R109	PQ4R10XJ103	10k	1	C12	ECUV1H221JCV	220p	S 1
				C13	ECUV1H220JCV	22p	S 1
R110	ERJ3GEYJ682	6.8k	1	C14	Not Used		
R111	ERJ3GEYJ331	330	1	C15	PQCUV1H100DC	10p	S 1
R112	ERJ3GEYJ331	330	1	C16	ECUV1H331JCV	330p	S 1
R113	ERJ3GEYJ100	10	1	C17~19	Not Used		
R114	ERJ3GEYJ103	10k	1				
R115	ERJ3GEYJ101	100	1	C20	ERJ3GEYJ000	0	1
R116	PQ4R10XJ122	1.2k	1	C21	ECUV1H392KBV	3900p	1
R117	Not Used			C22	ECEA1HKS010	1	1
R118	PQ4R10XJ102	1k	1	C23	ECUV1H152KBV	1500p	1
R119	ERJ3GEYJ000	0	1	C24	PQCUV1E333MD	0.033	S 1
				C25	PQCUV1E333MD	0.033	S 1
R120	PQ4R10XJ224	220k	1	C26	PQCUV1E104MD	0.1	S 1
R121~123	Not Used			C27	ECEA0JKS101	100	1
R124	ERJ3GEYJ101	100	1	C28	PQCUV1H103KB	0.01	S 1
R125	ERJ3GEYJ104	100k	1	C29	Not Used		
R126	ERJ3GEYJ000	0	1				
R127	ERJ3GEYJ103	10k	1	C30	PQCUV1C105ZF	1	S 1
R128	PQ4R10XJ221	220	1	C31	PQCUV1C105ZF	1	S 1
R129	Not Used			C32	PQCUV1E104MD	0.1	S 1
				C33	ECUV1H103KBV	0.01	S 1
R130	ERJ3GEYJ223	22k	1	C34	ECUV1H150JCV	15p	1
R131	ERJ3GEYJ473	47k	1	C35	ECUV1E104ZFV	0.1	1
R132	Not Used			C36	ECUV1H090DCV	9P	1
R133	Not Used			C37	ECUV1H150JCV	15p	1
R133	PQ4R10XJ561	560	1	C38	Not Used		
R134	PQ4R10XJ561	560	1	C39	Not Used		
R135	Not Used						
R136	Not Used			C40	Not Used		
R137	ERJ3GEYJ102	1k	1	C41	Not Used		
R138	Not Used			C42	ECUV1H680JCV	68p	1
R139	Not Used			C43	ECUV1H820JCV	82p	1
				C44	ECUV1H330JCV	33p	S 1
R140	Not Used			C45	ECUV1H070DCV	7p	1
R141	ERJ3GEYJ123	12k	1	C46	ECUV1H220JCV	22p	1
R142~199	Not Used			C47	ECUV1H030CCV	3p	S 1
				C48	ECUV1H102KBV	1000p	1
				C49	ECUV1E104ZFV	0.1	1
R200	Not Used						
R201	PQ4R10XJ562	5.6k	1	C50	PQCUV1E473MD	0.047	S 1
R202	PQ4R10XJ104	100k	1	C51	PQCUV1H103KB	0.01	S 1
R203	PQ4R10XJ392	3.9k	1	C52	ECUV1H103KBV	0.01	S 1
R204~299	Not Used			C53	ECUV1H220JCV	22P	1
				C54	ECEA1HKS3R3	3.3	1
				C55	Not Used		
R300	Not Used			C56	ECUV1H102KBV	1000p	1
R301	ERJ3GEYJ103	10k	1	C57	PQCUV1C105ZF	1	S 1
R302	ERJ3GEYJ103	10k	1	C58	ECEA1VKS4R7	4.7	S 1
R303	ERJ3GEYJ103	10k	1	C59	PQCUV1E104MD	0.1	S 1
J2	ERJ3GEYJ000	0	1				
				C60	ECUV1E104ZFV	0.1	S 1
J101	PQ4R10XJ000	0	1	C61	ECEA1CKS100	10	S 1
				C62	ECUV1H103KBV	0.01	S 1
				C63	ECUV1H103KBV	0.01	S 1
				C64	PQCUV1E104MD	0.1	S 1
				C65	ECEA1HKS010	1	1
				C66	ECUV1H331JCV	330p	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
C67	ECUV1H181JCV	180p	1
C68	ECUV1H223KBV	0.022	S 1
C69	ECEA1VKS4R7	4.7	S 1
C70	ECEA1HKS010	1	1
C71	ECEA1CKS100	10	1
C72	PQCUV1E333MD	0.033	S 1
C73	ECUV1H272KBV	2700p	1
C74	ECEA0JKS101	100	1
C75	ECUV1H391JCV	390p	1
C76	ECEA1HKS010	1	1
C77	ECEA1CKS220	22	S 1
C78	ECUV1H102KBV	1000p	1
C79	PQCUV1C105ZF	1	1
C80	PQCUV1E104MD	0.1	S 1
C81	PQCUV1E104MD	0.1	S 1
C82	ECEA1VKS4R7	4.7	S 1
C83	ECEA1CKS100	10	1
C84	ECUV1H223KBV	0.022	S 1
C85	ECUV1H223KBV	0.022	S 1
C86	ECUV1H223KBV	0.022	S 1
C87	PQCUV1E104MD	0.1	S 1
C88	PQCUV1E104MD	0.1	S 1
C89	ECUV1H333KDV	0.033	S 1
C90	ECUV1H683ZV	0.068	S 1
C91	ECUV1H332KBV	3300	1
C92	ECEA1HKS010	1	1
C93	ECUV1H050CCV	5p	S 1
C94	Not Used		
C95	ECUV1H103KBV	0.01	S 1
C96	ECUV1H330JCV	33p	1
C97	ECUV1H100DCV	10p	S 1
C98	ERJ3GEYJ000	0	1
C99	Not Used		
C100~102	Not Used		
C103	PQCUV1H103KB	0.01	S 1
C104	Not Used		
C105	PQCUV1H332KB	3300	1
C106	Not Used		
C107	ECEA0GKS221	220	1
C108	ECUV1H180JCV	18p	1
C109	ECUV1H103KBV	0.01	S 1
C110	ECUV1H180JCV	18p	1
C111	ECUV1H180JCV	18p	1
C112	ECUV1H180JCV	18p	1
C113	ECUV1H103KBV	0.01	S 1
C114	ECUV1H103KBV	0.01	S 1
C115	ECEA0GKS221	220	1
C116	Not Used		
C117	ECEA1CKS220	22	S 1
C118~199	Not Used		
C200	Not Used		
C201	PQCUV1H103KB	0.01	S 1
C202	PQCUV1H103KB	0.01	S 1
C203	PQCUV1H103KB	0.01	S 1
C204	PQCUV1H103KB	0.01	S 1
C205	PQCUV1H102J	1000p	1
C206~299	Not Used		
C300	Not Used		
C301	PQCUV1C105ZF	1	S 1
C302	ECUV1H103KBV	0.01	S 1
C303	ECUV1H222J	2200p	S 1
C304	ECUV1H471JCV	470p	1
C305	Not Used		
C306	ECUV1E153KBV	0.015	S 1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
C307	ECUV1H103KBV	0.01 S	1
KX-T4036E/KX-T4066E			
ACCESSORIES			
A1	KX-A11DBEXE	AC ADAPTOR	1
A2	PQJA87T	TEL CORD	1
A3	PQKL24Z73	STAND 4036ER Only	S 1
A3	PQKL24Z0	STAND 4066ER Only	S 1
A4	PQQW11332Z	QUICK REFERENCE GUIDE	1
A5	PQQX11417Z	INSTRUCTION BOOK	1
		4036ER Only	
A5	PQQX11418Z	INSTRUCTION BOOK	1
		4066ER Only	
PACKING MATERIALS			
P1	PQPH89Y	PROTECTION COVER (for BASE UNIT)	1
P2	PQPP94Y	PROTECTION COVER (for PORTABLE UNIT)	1
P3	PQPK11773Z	GIFT BOX 4036ER Only	1
P3	PQPK11772Z	GIFT BOX 4066ER Only	1
P4	PQPN10491Z	INNER BOX	1
P5	PQPN10492Z	ACCESSORY BOX	1