ORDER NO. KM49705147C2

Service Manual

Telephone Equipment

SOUND CHARGER

8 CHANNEL

CORDLESSPHONE

KX-T4026E
KX-T4046E

(for United Kingdom)

(KX-T4026E)

(KX-T4046E)

■ SPECIFICATIONS

General

Modulation:	Base Unit: FM, 2.4 kHz Deviation, Portable Hanbset: 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:	AC adaptor KX-A311E-1,Built-in	Built-in rechargeable Ni-Cd battery (PQXA36ASVC)
(Receiver Section)		
Receiving Frequency:	8 channels within 47.45625 to 47.54375MHz	8 channels within 1.642 to 1.782 MHz
Adjacent Channel Rejection:	50 dB	50 dB
Sensitivity:	1μV for 20 dB S/N	2 μV for 20 dB S/N
(Transmitter Section)		
Transmitting Frequency:	8 channel within 1.642 to 1.782 MHz	8 channel within 47.45625 to 47.54375 MHz
Jacks:	DC IN, Telephone line	
Antenna:	Telescopic,Lead Antenna	Rubber
Speaker:	5 cm (2") PM dynamic (KX-T4046E only)	3 cm ($1^{3}/_{16}$") dynamic type
Microphone:	Condenser Microphone (KX-T4046E only)	Condenser Microphone
Dimensions (H×W×D):	60×143×230 mm ($2^{11}/_{32}$"×$5^{5}/_{8}$"×$9^{1}/_{16}$")	254×56×51 mm ($10×2^{3}/_{16}$"×2")
Weight:	0.88 lbs. (400g)(KX-T4026E only) 1.1 lbs. (497g)(KX-T4046E only)	230g (0.52lbs.) with battery (KX-T4026E only) 242g (0.53lbs.) with battery (KX-T4046E only)

Design and specifications are subject to change without notice.

Panasonic

⚠ 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.

FOR SERVICE TECHNICIANS

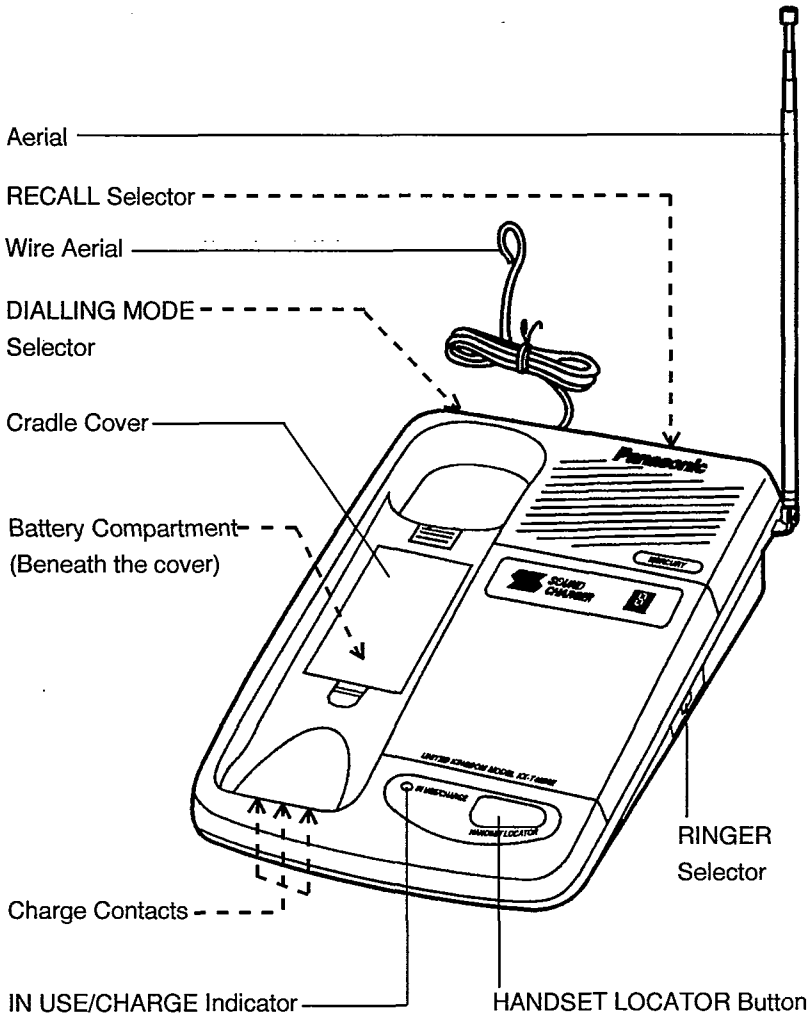
ICs and LSIs are vulnerable to static electricity.
When repairing, the following precautions will help prevent recurring malfunctions.
1. Cover plastic parts boxes with aluminum foil.
2. Ground the soldering irons.
3. Use a conductive mat on worktable.
4. Do not grasp IC or LSI pins with bare fingers.

TABLE OF CONTENTS

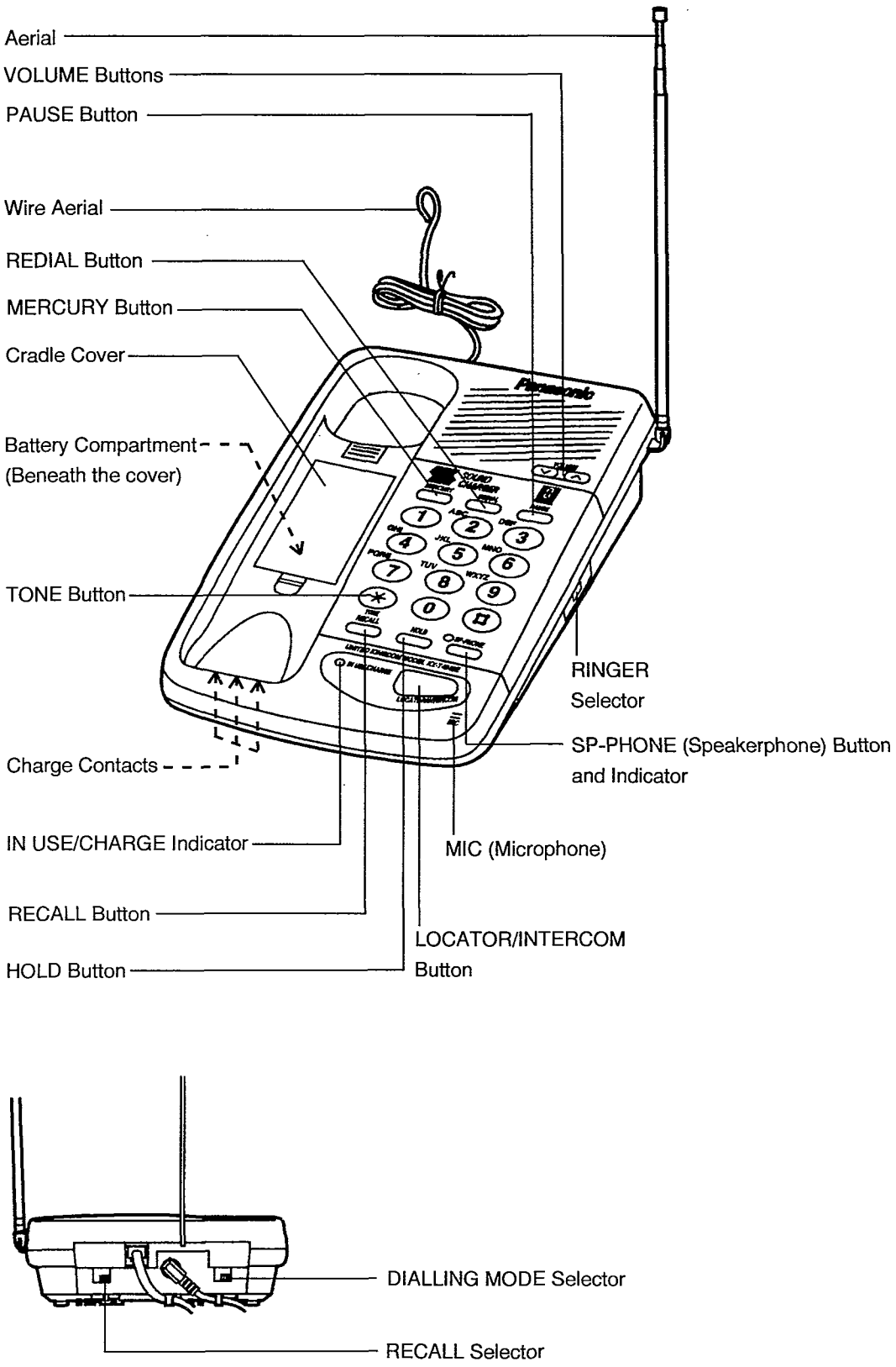
LOCATION OF CONTROLS

Base Unit

(KX-T4026EH)

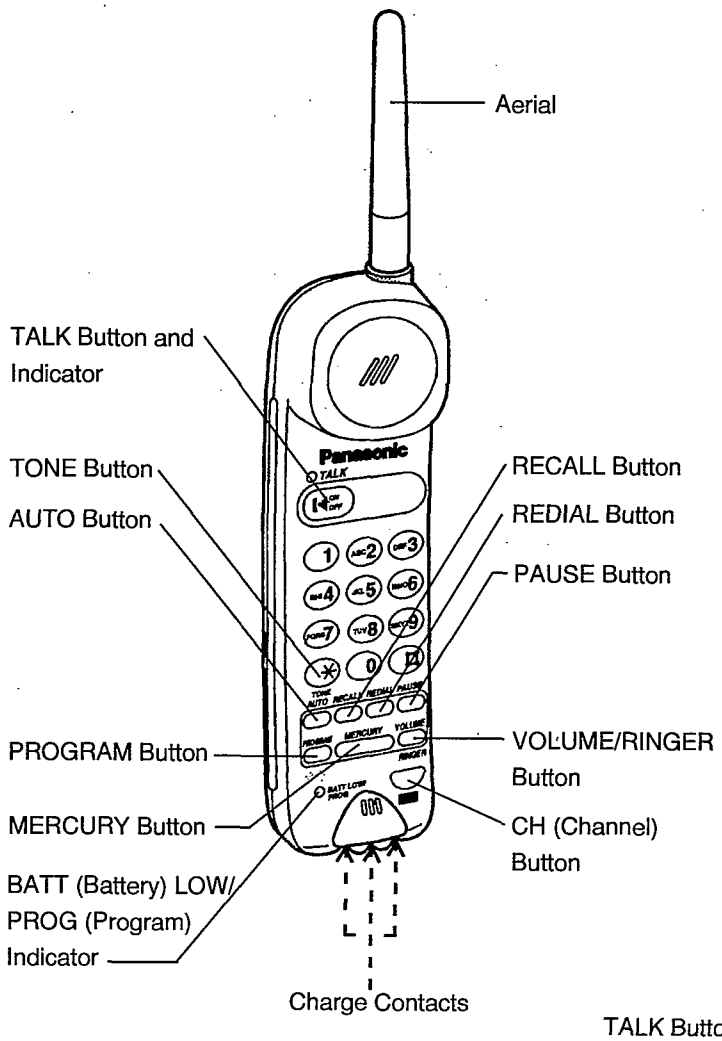


(KX-T4046EH)

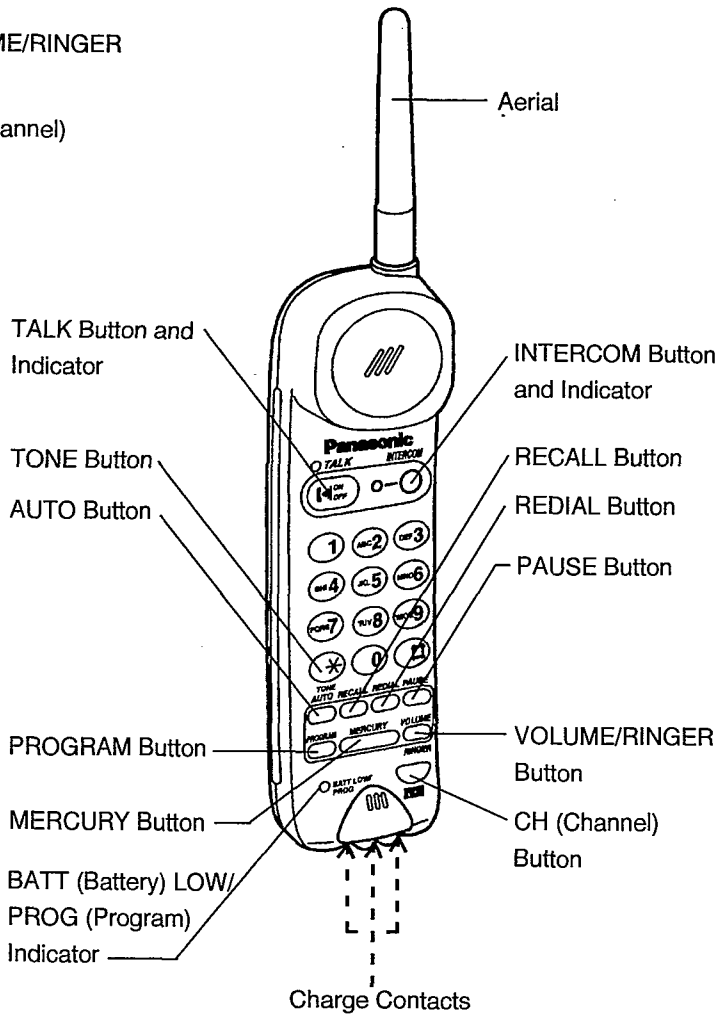

Aerial
VOLUME Buttons
PAUSE Button
Wire Aerial
REDIAL Button
MERCURY Button
Cradle Cover
Battery Compartment
(Beneath the cover)
TONE Button
Charge Contacts
IN USE/CHARGE Indicator
RECALL Button
HOLD Button
RINGER
Selector
SP-PHONE (Speakerphone) Button
and Indicator
MIC (Microphone)
LOCATOR/INTERCOM
Button
DIALLING MODE Selector
RECALL Selector

Portable Handset

(KX-T4026ER)

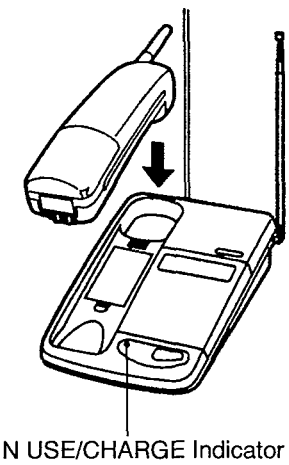


(KX-T4046ER)



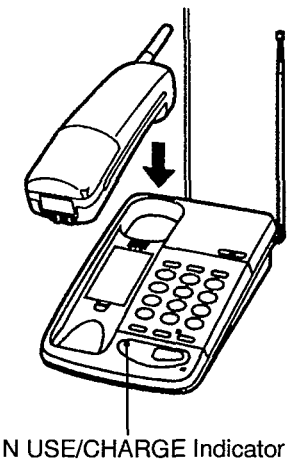
BATTERY CHARGE

Place the handset on the base unit for about **10 hours**.
- The IN USE/CHARGE indicator lights.



IN USE/CHARGE Indicator

(KX-T4026E)



IN USE/CHARGE Indicator

(KX-T4046E)

Recharge

When the BATT LOW/PROG indicator flashes or the unit beeps intermittently, recharge the battery.

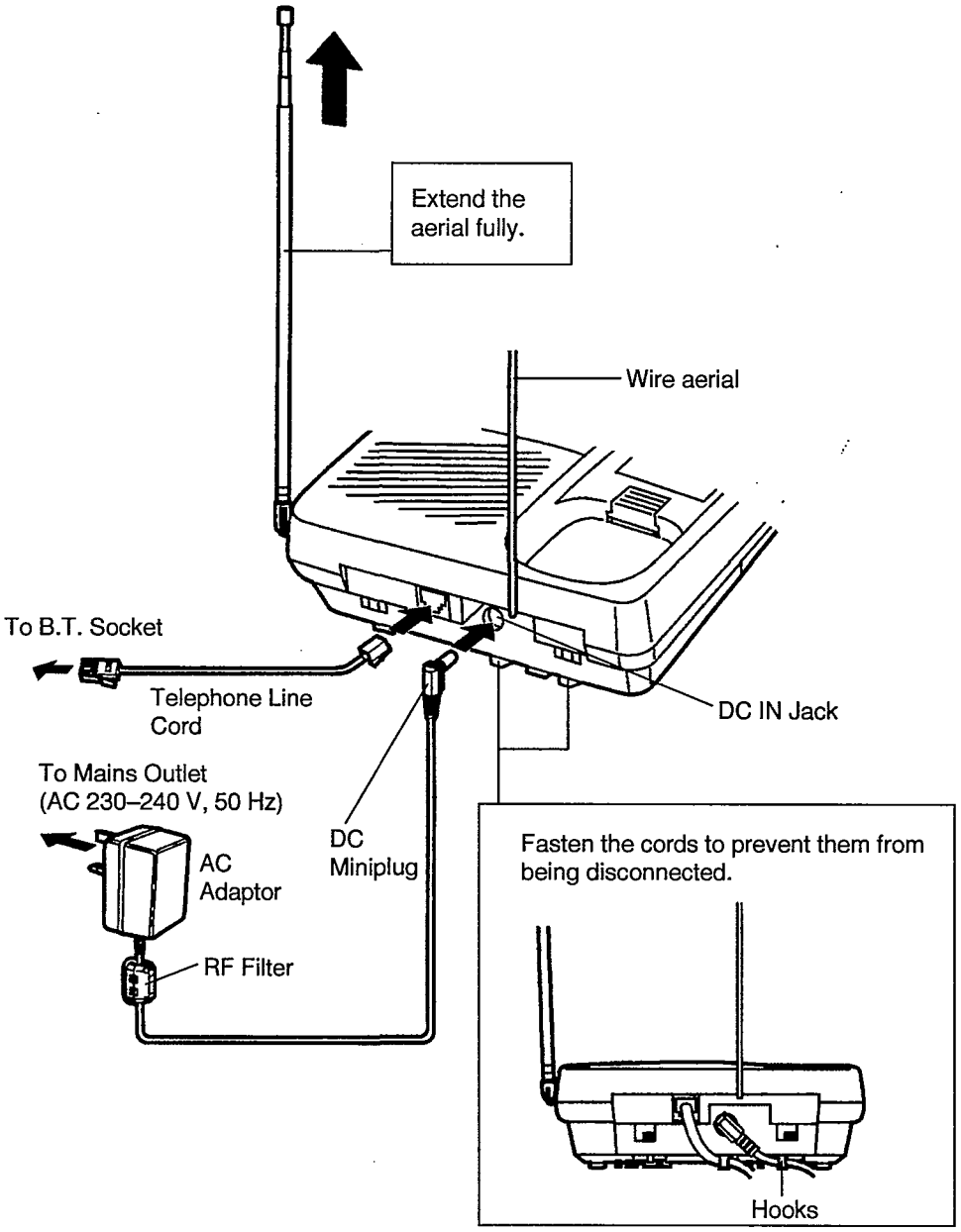
Standard battery life

If your Panasonic battery is fully charged;

While in use (TALK)	Up to about 8 hours
While not in use (Stand-By)	Up to about 14 days

- Battery life may vary depending on usage conditions and ambient temperature.
- **Clean the handset and the base unit charge contacts with a soft dry cloth a month,** or the battery may not charge properly.
- Once the battery is fully charged, you do not have to place the handset on the base unit until the BATT LOW/PROG indicator flashes.
- The battery cannot be overcharged.

CONNECTION



- Use ONLY Panasonic AC ADAPTOR KX-A311E-1 with RF filter.
- The AC Adaptor must remain connected at all times. (It may feel warm during use. This is normal.)

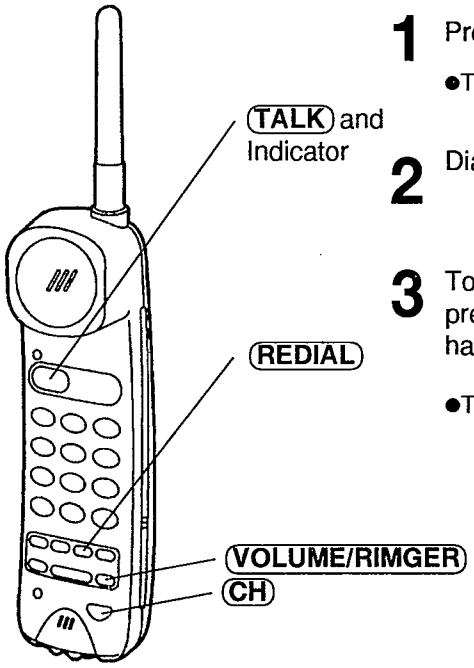
CONNECTION OF POWER SUPPLY

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

OPERATIONS

NEW OPERATIONS

Making calls with the handset



1 Press (TALK)

●The indicator lights.

2 Dial a telephone number.

3 To hang up, press (TALK) or place the handset on the base unit.

●The indicator light goes out.

New

To redial the last number

Press (TALK) → (REDIAL) .

To select the receiver volume HIGH (preset) or NORMAL

Press (VOLUME/RINGER) while talking.

● Each time you press the button, the volume level will change.

If noise interferes with the conversation

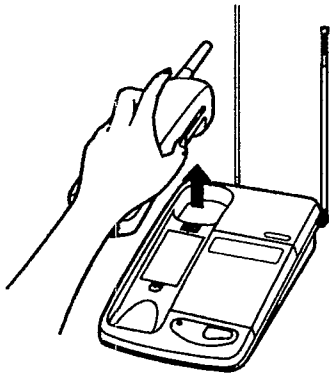
Press (CH) to select a clear channel or move closer to the base unit.

Answering calls with the handset

If the handset is off the base unit, press (TALK) .

OR

If on the base unit, just lift up.



To turn the ringer OFF

Be sure the TALK indicator light is off.→ While pressing (VOLUME/RINGER) , Press (0) until 2 beeps sound.

To change the ringer to ON from OFF

Be sure the TALK indicator light is off.→ Press (VOLUME/RINGER) .

•The ring tone will be heard.

NORMAL OPERATIONS

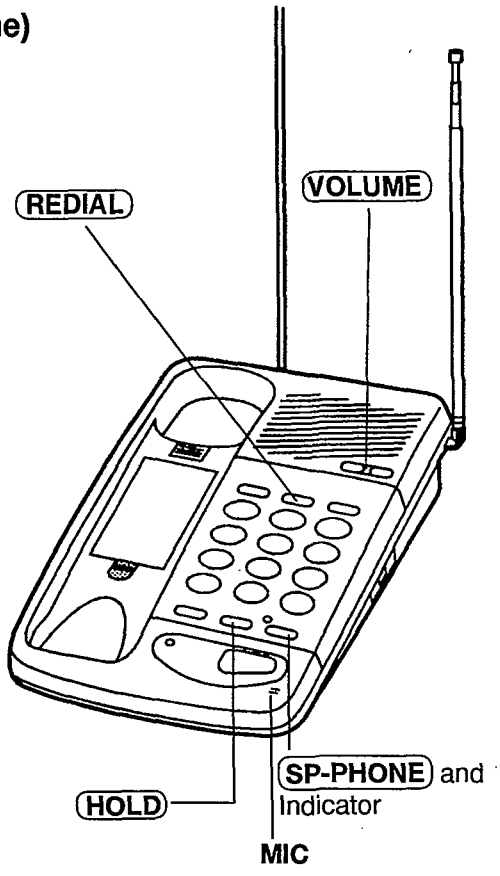
Making calls with the base unit (Speakerphone) –KX-T4046E only

1 Press (SP-PHONE).
- The indicator lights.

2 Dial a telephone number.

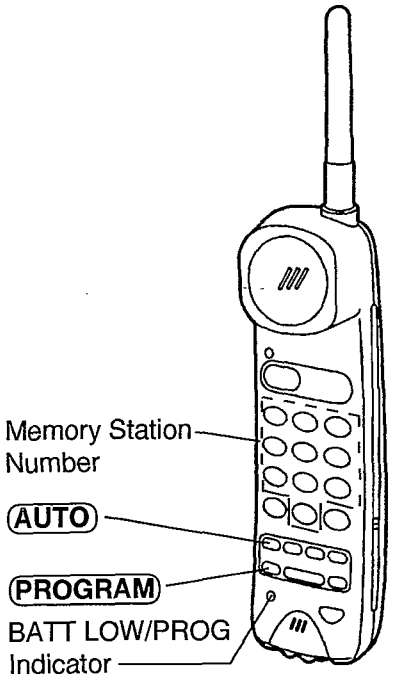
3 When the other party answers, speak into the **MIC** (microphone).

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



Storing Phone Numbers in Memory

You can store up to 10 numbers in the handset. The dialling buttons (0 to 9) function as memory stations. The TALK indicator light must be off.



1 Press (PROGRAM).
- The BATT LOW/PROG indicator lights.

2 Enter a phone number up to 16 digits.
- If you misdial, press (PROGRAM) to end storing, then restart from step1.

3 Press (AUTO).

4 Press a memory station number (0 to 9).
- A confirmation tone sounds. (See right side.)
- To store other numbers, repeat steps 1 through 4.

To erase a stored number

Press (PROGRAM) → (AUTO) → the memory station number (for the phone number to be erased).

What the confirmation tone means

1 beep: The new number is stored.
2 beeps: The number is the same as previously stored one.

DISASSEMBLY INSTRUCTIONS (KX-T4026E)

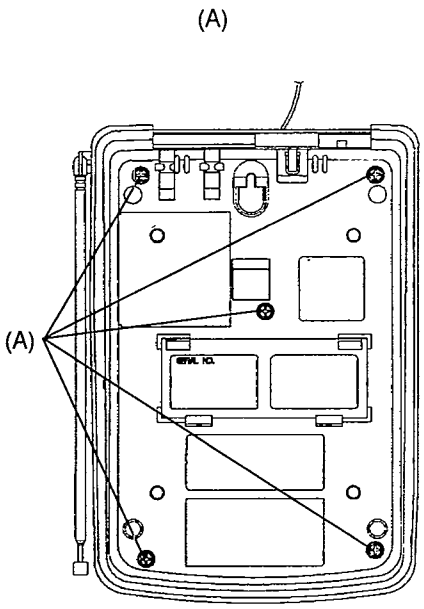


Fig. 1

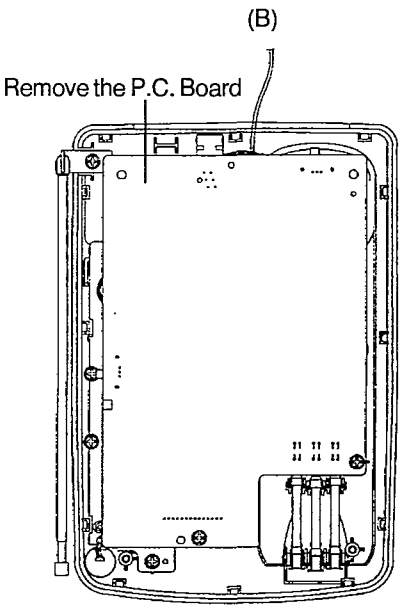


Fig. 2

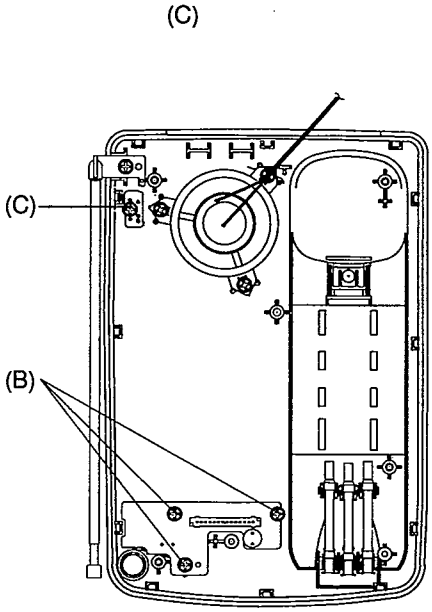


Fig. 3

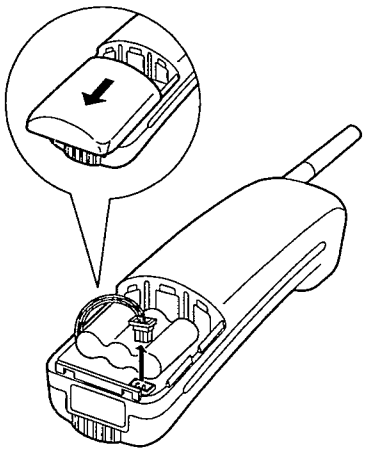


Fig. 4

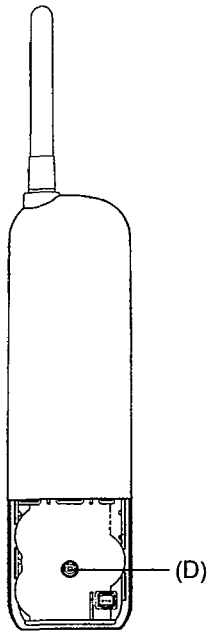


Fig. 5

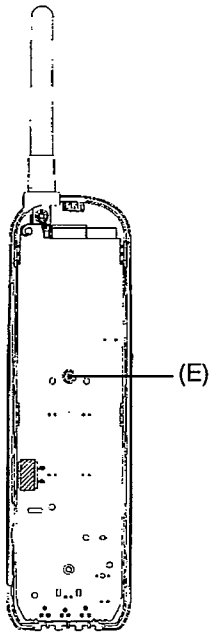
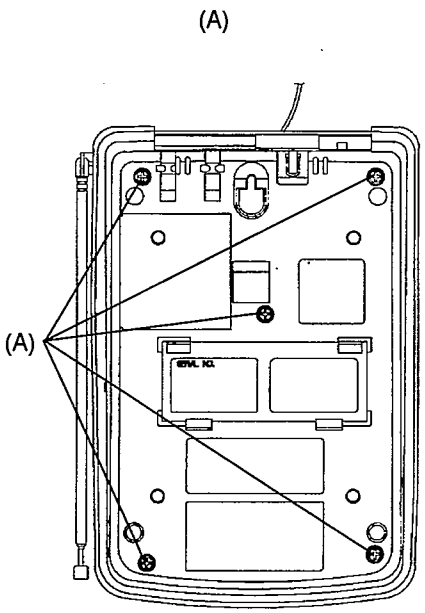


Fig. 6

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

DISASSEMBLY INSTRUCTIONS (KX-T4046E)



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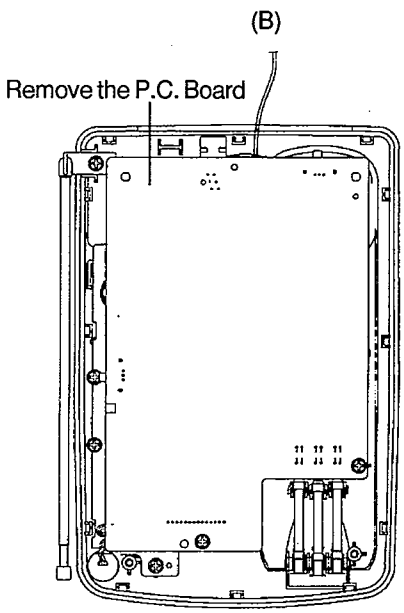
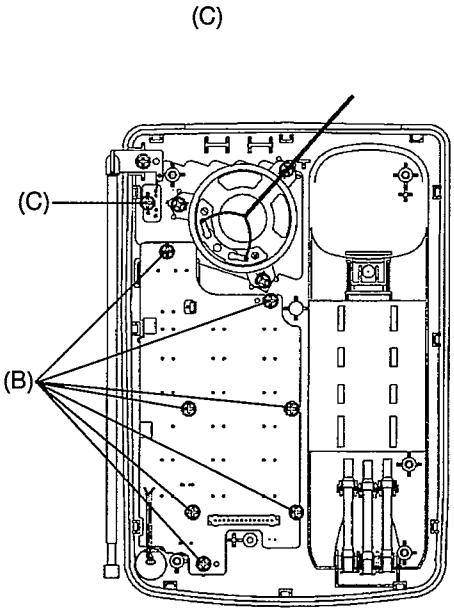


Fig. 2



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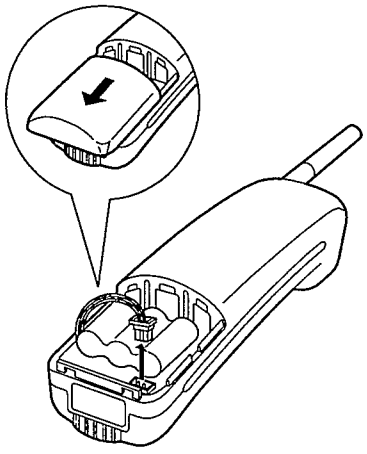

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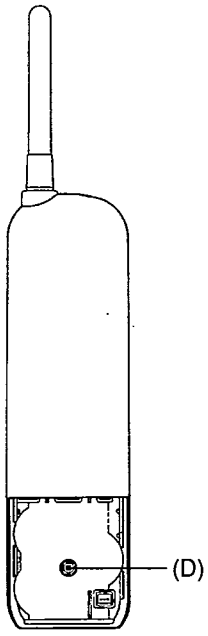

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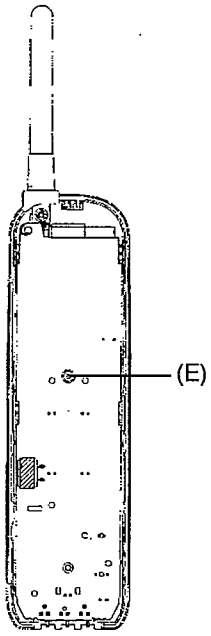

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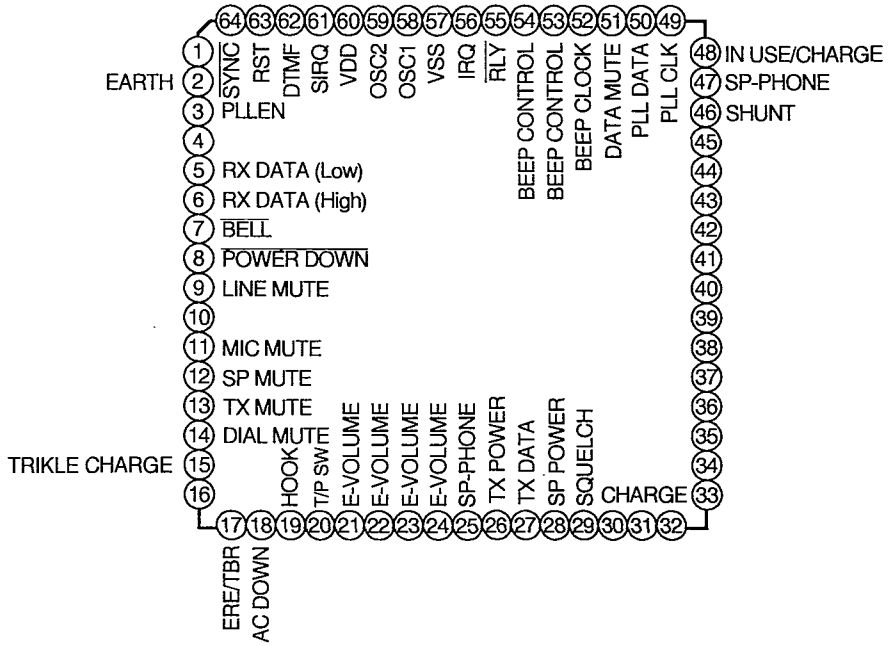
CPU DATA (KX-T4026EH/KX-T4046EH)

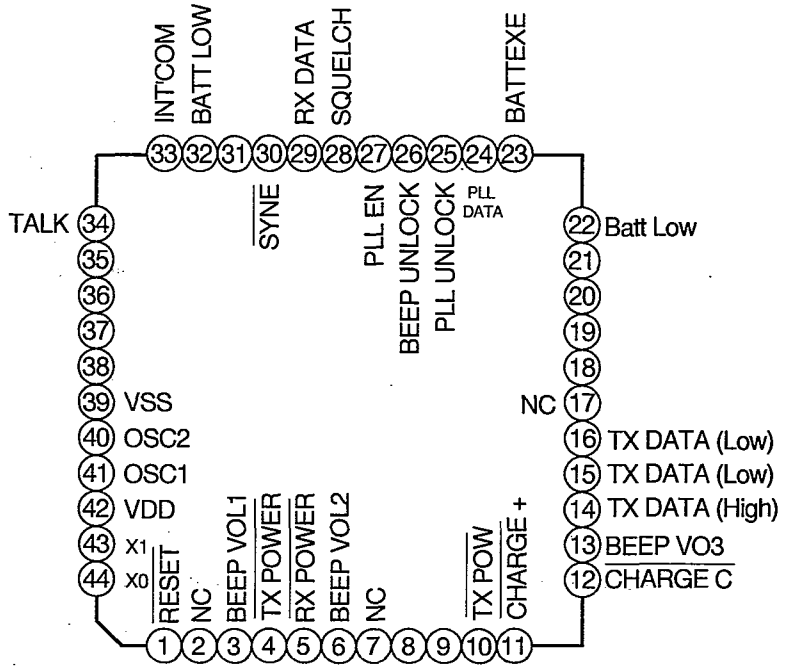
IC5: MN150832KKAE



Pin No.	Description	I/O	High	High-Z	Low	Pin No.	Description	I/O	High	High-Z	Low
1	No use				Normal	30	No use	O			
2	EARTH Relay	O	ON		OFF	31,32	Option Storobe	O		Normal	Active
3	PLL EN	O	Active		Normal	33	Charge	I	Charge		Non
4	No use	I				34~37,40	Key Strobe	O		Normal	Active
5	RX DATA(Low Speed)	I	1		0	38,39	No use				
6	RX DATA (Hi Speed)	I	1		0	41~44	Key in	I	Normal		Key in
7	$\overline{\text{BELL}}$	I			Bell in	45	No use	O			Normal
8	$\overline{\text{Power Down}}$	I	Normal		Down	46	$\overline{\text{SHUNT}}$ Relay	O		OFF	ON
9	Line MUTE	O	Mute		Unmute	47	SP-PHONE	O		OFF	ON
10	No use	O				48	IN USE/CHARGE LED	O		OFF	ON
11	MIC MUTE	O	Mute		Unmute	49	Serial Clock	O	(Active)	Normal	(Active)
12	SP MUTE	O	Mute		Unmute	50	Serial Data	O	(Active)	Normal	(Active)
13	TX MUTE	O	Mute		Unmute	51	DATA Mute	I	High Speed		Normal
14	DIAL MUTE	O	Mute		Unmute	52	Beep Clock	O	(Active)	Normal	(Active)
15	Tricle Charge	O	Tricle		Normal	53	Beep Control 0	O		Volume large	Volume small
16	No use	O				54	Beep Control 1	O		Volume large	Volume small
17	ERE/TBR	I	ERE		TBR	55	$\overline{\text{TR-RLY}}$	O		OFF	ON
18	AC DOWN	I	NORMAL		AC DOWN	56	outside interrupt input	I	Normal		
19	HOOK	I	OFF Hook			57	GND				GND
20	T/P SW	I	Tone		Pulse	58	3.581MHz	I			
21~24	Electric Volume 0~3	O				59	CPU Clock	O			
25	$\overline{\text{SP-PHONE}}$	O	OFF		ON	60	Power Supply				
26	TX POWER	O	ON		OFF	61	outside interrupt input	I	Normal		
27	TX DATA	O	1		0	62	$\overline{\text{DTMF}}$	O	Normal		(Active)
28	SP POWER	O	Normal		AC DOWN	63	$\overline{\text{Reset}}$	I	Normal		Reset
29	SQUELCH	I	Electric Field Low		Electric Field High	64	Same period signal output	O			

CPU DATA (KX-T4026ER/KX-T4046ER)

IC4:MN150837KXAB

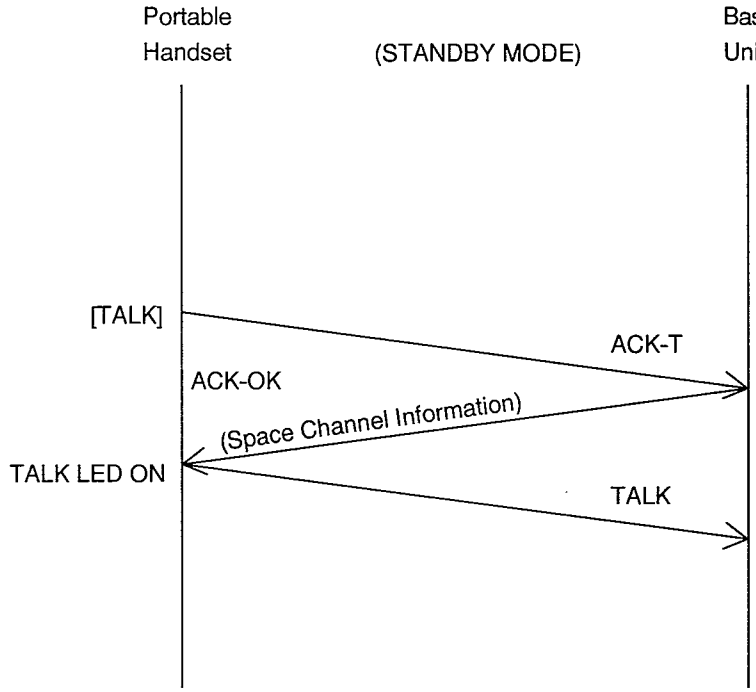


Pin No.	NAME	I/O	High	High-Z	Low	Pin No.	NAME	I/O	High	High-Z	Low
1	RESET	I	Normal	–	Reset	25	PLL_Clock	O	(H/L)	–	Normal
2		–				26	Beep Clock	O	Normal		Active
3	Beep Vol 1	O	Normal		ON	27	PLL_EN	O	Latch	–	Normal
4	$\overline{\text{TX Power}}$	O	OFF		ON	28	Squelch	I	Electric Field Low	–	Electric Field High
5	$\overline{\text{RX Power}}$	O	OFF		ON	29	RX_DATA	I	1	–	0
6	Beep Vol 2	O	Normal		ON	30	same period signal output	O			
7		–				31	No use	O	–	OFF	
8	Key Strobe	O	–	Normal	Active	32	LED BATTLOW/PROG	O	–	OFF	ON
9	Option Strobe	O	–	Normal	Active	33	LED INTERCOM	O	–	OFF	ON
10	Option Strobe	O	–	Normal	Active	34	LED TALK	O	–	OFF	ON
11	$\overline{\text{CHARGE}}$	I	Normal	–	Charge	35	Key Strobe	O	–	Normal	Active
12	$\overline{\text{CHARGE}}$(Control)	I	CHARGE	–	BASE UNIT	36	Key Strobe	O	–	Normal	Active
13	Beep Vol 3	O	Normal	–	ON	37	Key Strobe	O	–	Normal	Active
14	TX_Data(High Speed)	O	(H/L)	–	Normal	38	Key Strobe	O	–	Normal	Active
15	TX_Data(Low Speed)	O				39	GND	–			GND
16	TX_Data(Low Speed)	O				40	Main Clock	I			
17		–				41	(3.992NHz)	O			
18	Key In	I	non	–	exist	42	power terminal	–			
19	Key In	I	non	–	exist	43	Sub Clock	I			
20	Key In	I	non	–	exist	44	(32.768KHz)	O			
21	Key In	I	non	–	exist						
22	Batt Low	I	Hi	–	Lo						
23	Batt Exist	I	exist	–	non						
24	PLL_DATA	O	(Active)	–	Normal						

: state of stop mode

EXPLANATION OF CPU DATA COMMUNICATION

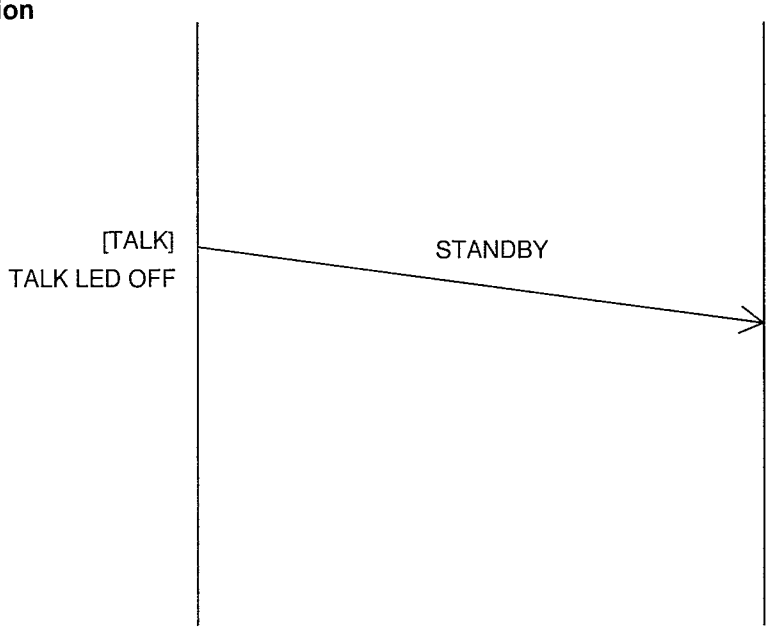
1. Calling



When calling, a communication request DATA (ACK-T) is transmitted from the Portable Handset first, and a permitting data (ACK-OK) is returned from the Base Unit to it, then a communication data (TALK) is transmitted from the Portable Handset.

OFF HOOK
IN USE/CHARGE LED ON
The permitting DATA (ACK-OK) from Base Unit to Portable Handset includes the space channel information stored in Base Unit. After transmitting the communication DATA (TALK) from Portable Handset to Base Unit, the channel is used.

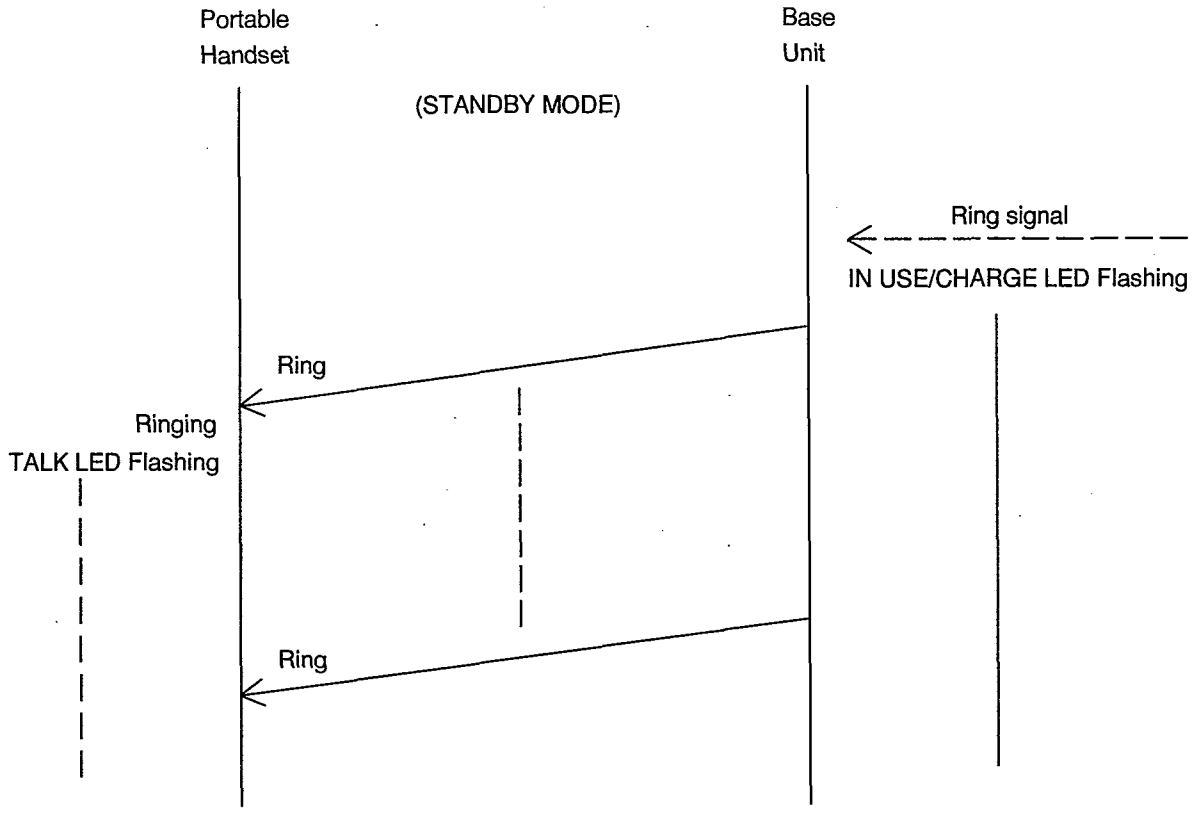
2. To terminate Communication



When the TALK button on Portable Handset is pressed during communication, a LINK terminating DATA (STANDBY) is sent to terminate communication.

ON HOOK
IN USE/CHARGE LED OFF

3. Ringing



After detecting the Ring signal from circuit, 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 ... 14 Pin	receiving ... 29Pin
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 Delimt, Pre data and End data.

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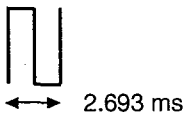
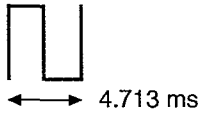
PORTABLE HANDSET

Transmitting DATA Format

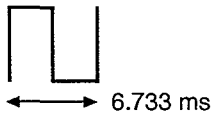
DATA 0



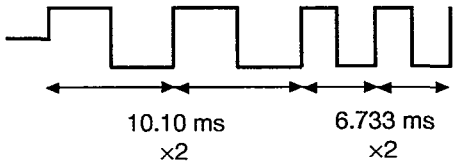
DATA1



DATA Delimt



Pre data



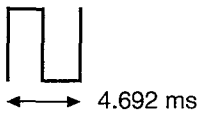
END data

BASE UNIT

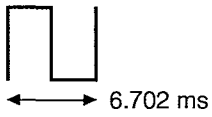
Transmitting DATA Format

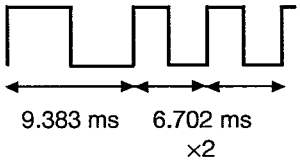
DATA 0

DATA1

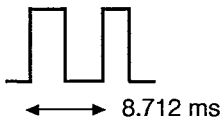


DATA Delimt

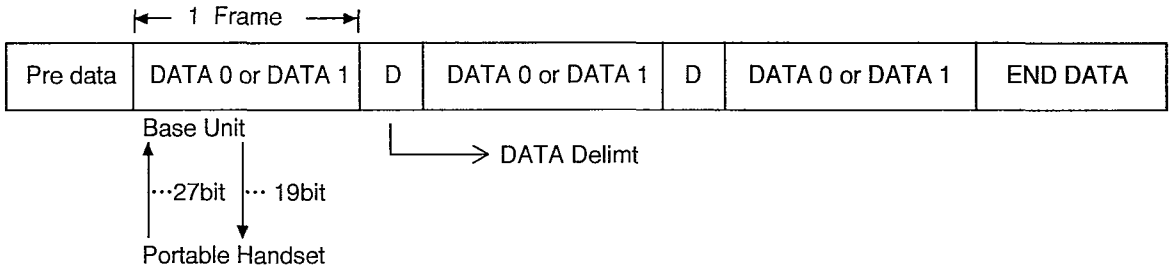




END data

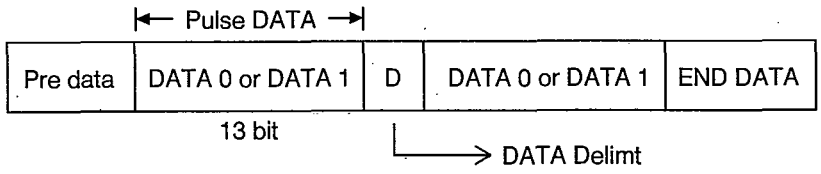


6. When LINKing



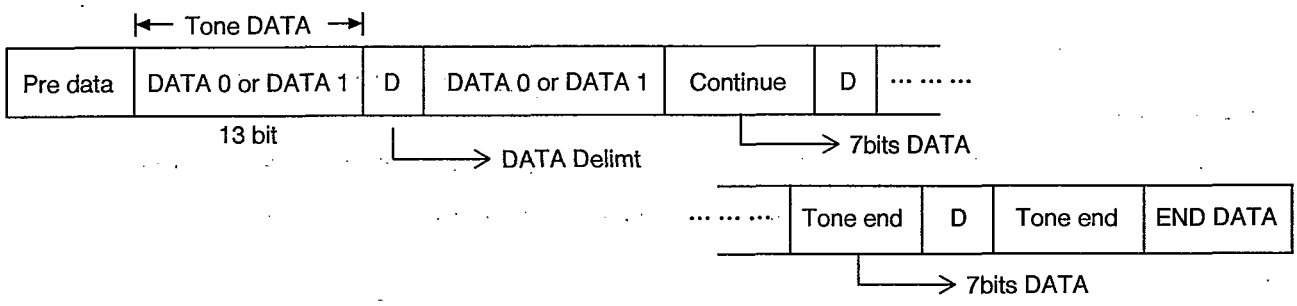
When LINKing from the Portable Handset (when becoming STBY to TALK), DATA is transmitted in above format. The combined portion of DATA 0 and DATA 1 is transmitted in LINK requesting DATA format first.Then,when LINK OK(ACK-OK) DATA is returned from the Base Unit, it is sent as LINK from DATA after changing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

7. Pulse Dial



When executing Pulse Dial, the Pulse Dial DATA is transmitted from the Portable Handset to the Base Unit in above format. The combination of DATA0 and DATA1 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

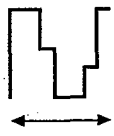


9. Low Speed Data

Receiving judgement for base unit

t'=335.1 us

DATA 0

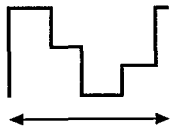


10.1ms

tx30

27 t'≦To≦33 t'
(8.713——11.393)

DATA 1

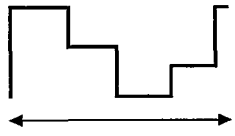


12.794ms

tx38

34 t'≦To≦41 t'
(11.058——14.072)

DATA Delimt

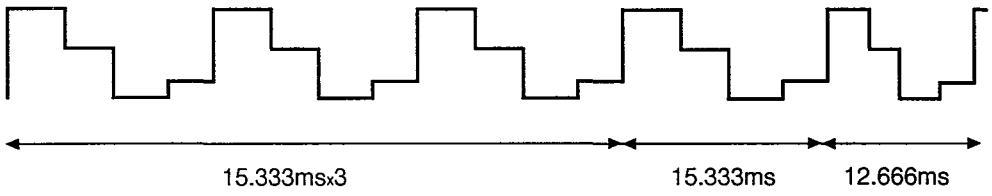


15.487ms

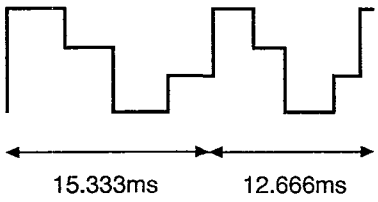
tx46

42 t'≦To≦49 t'
(13.739——16.755)

Pre data



END data



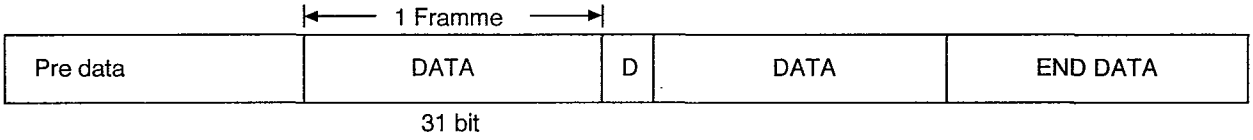
4. Positive Clear Down

When using radio (TALK, Int'com, Int'com Hold etc.) from portable handset to base unit, low speed data is transmitted.

- Every 10 sec
- When base unit between 30 sec cannot receive data, the unit becomes STANDBY mode.

Base Unit : ... 5 Pin

Portable Handset : transmitting ... 15, 16 Pin



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

NOTE

60,000 kinds of the security code are available for the model KX-T4026E/KX-T4046E. Each time the portable unit is set on the cradle of the base unit (for charging), the CPU automatically change the security code.

ADJUSTMENTS (KX-T4026EH/KX-T4046EH)

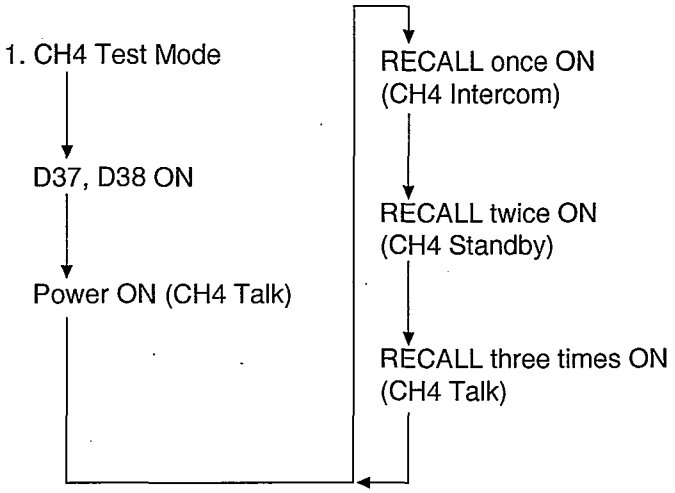
If your unit have below symptom, adjust for each item following table of adjustment.

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:



Change channel: Push HOLD

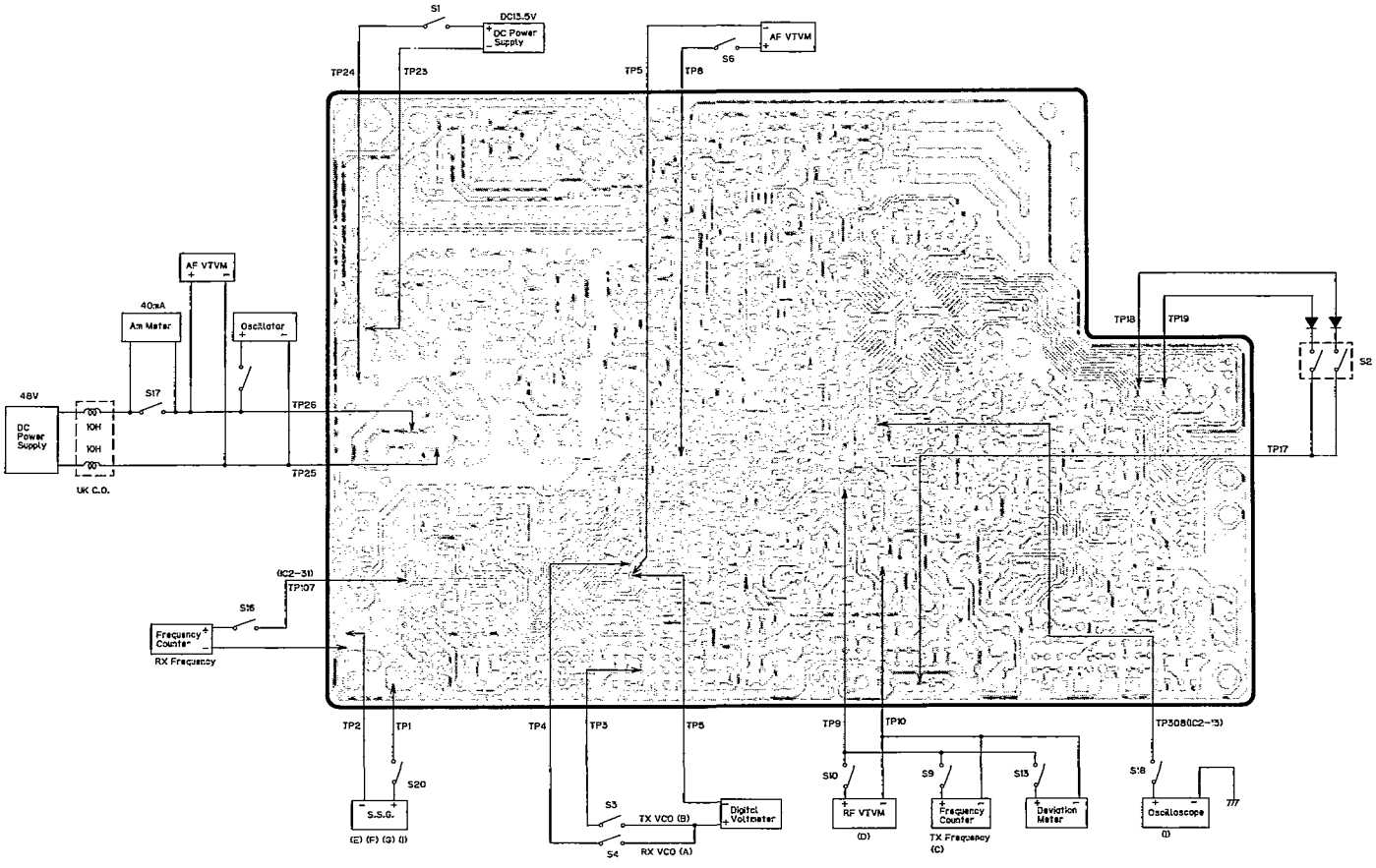
When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment items	Test Mode	Adjustment Points	Procedure
IC1, T3	(A) Phase Detector Voltage Adjustment (RX)	CH4 Talk	T3	1. Connect the Digital Voltmeter to ▼1–▼2. 2. Adjust **T3** (counterclockwise)so that the reading of the Digital Voltmeter is 1.1 V±0.1V.
D4, D5, T5	(B) Phase Detector Voltage Adjustment (TX)	CH4 Talk	T5	1. Connect the Digital Voltmeter to ▼3–▼2. 2. Adjust **T5** (counterclockwise)so that the reading of the Digital Voltmeter is 1.1 V±0.1V.
VC1, X1	(C) Frequency Adjustment (RX)	CH4 Talk	VC1	1. Connect the frequency counter to ▼4–▼5. 2. Adjust **VC1** so that thereading of the frequency counter is 36.79375MHz±200Hz.
T6, Q10, Q12	(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.

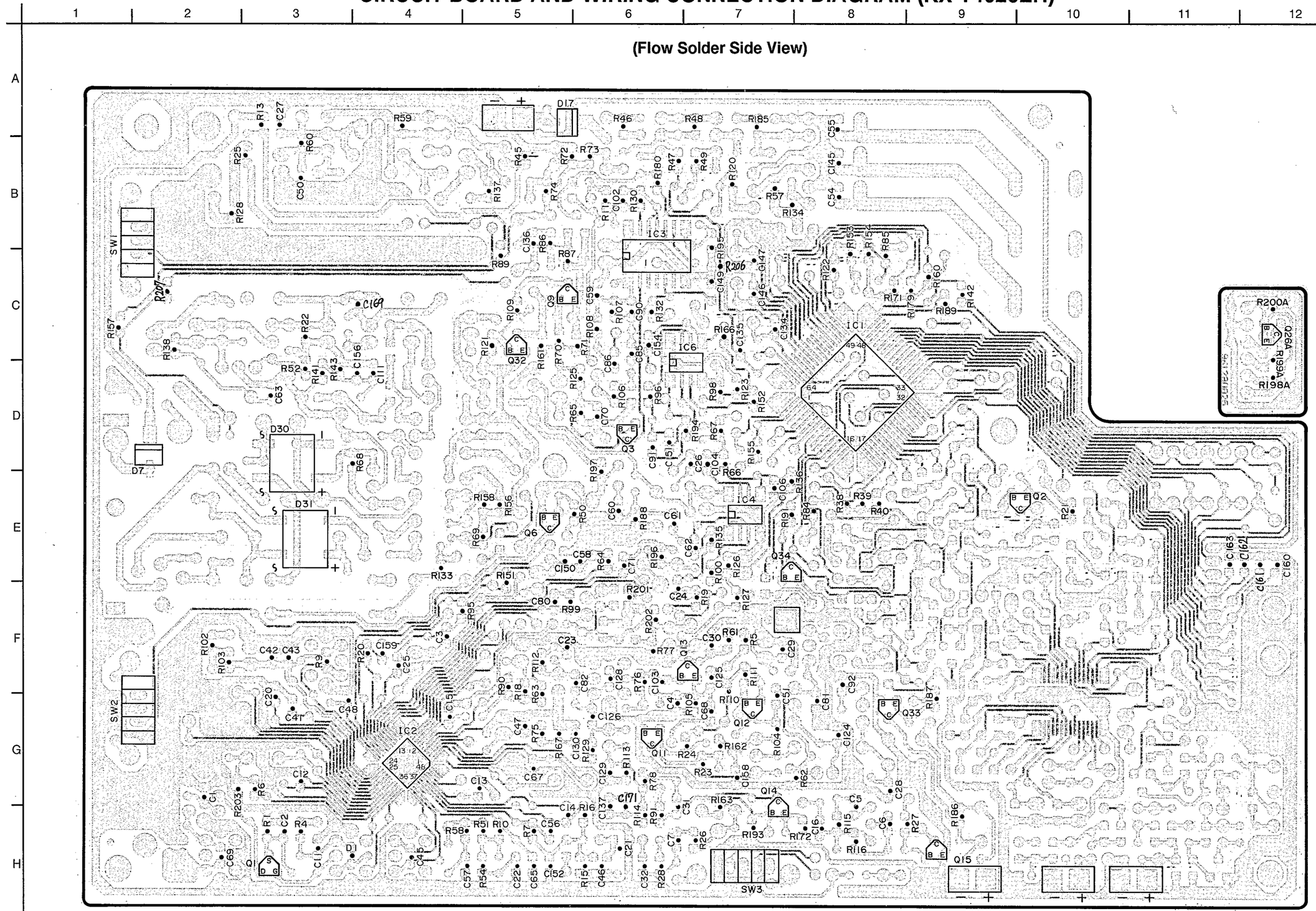
Replace Parts	Adjustment items	Test Mode	Adjustment Points	Procedure
T1, T2 T4	(E) RF Adjustment (RX)	CH4 Talk	 T4 T1, T2	1. Connect S.S.G. to ▼4–▼5. 2. Connect the loop simulator and AF VTVM to ▼6–▼7. Connect the RF VTVM to ▼8–▼9. 3. Apply a 60dB μV output from S.S.G. (modulation frequency 1kHz, dev. 1.5kHz). 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 40dB μV output from S.S.G. (modulation frequency 1kHz, dev. 1.5kHz), and adjust **T1,T2** so that reading of the RF VTVM is maximum output.

Flow Solder Side View



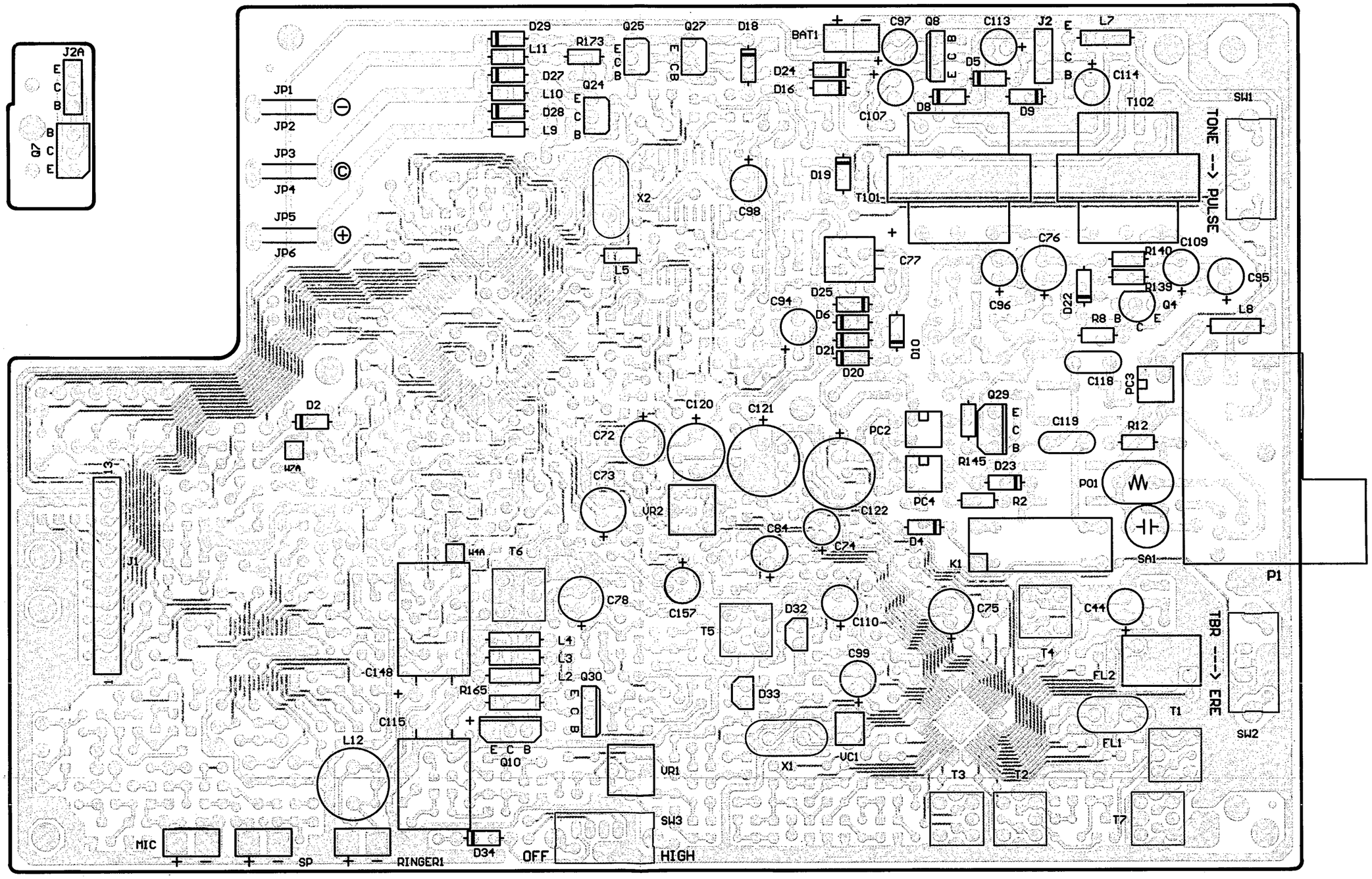
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4026EH)

(Flow Solder Side View)



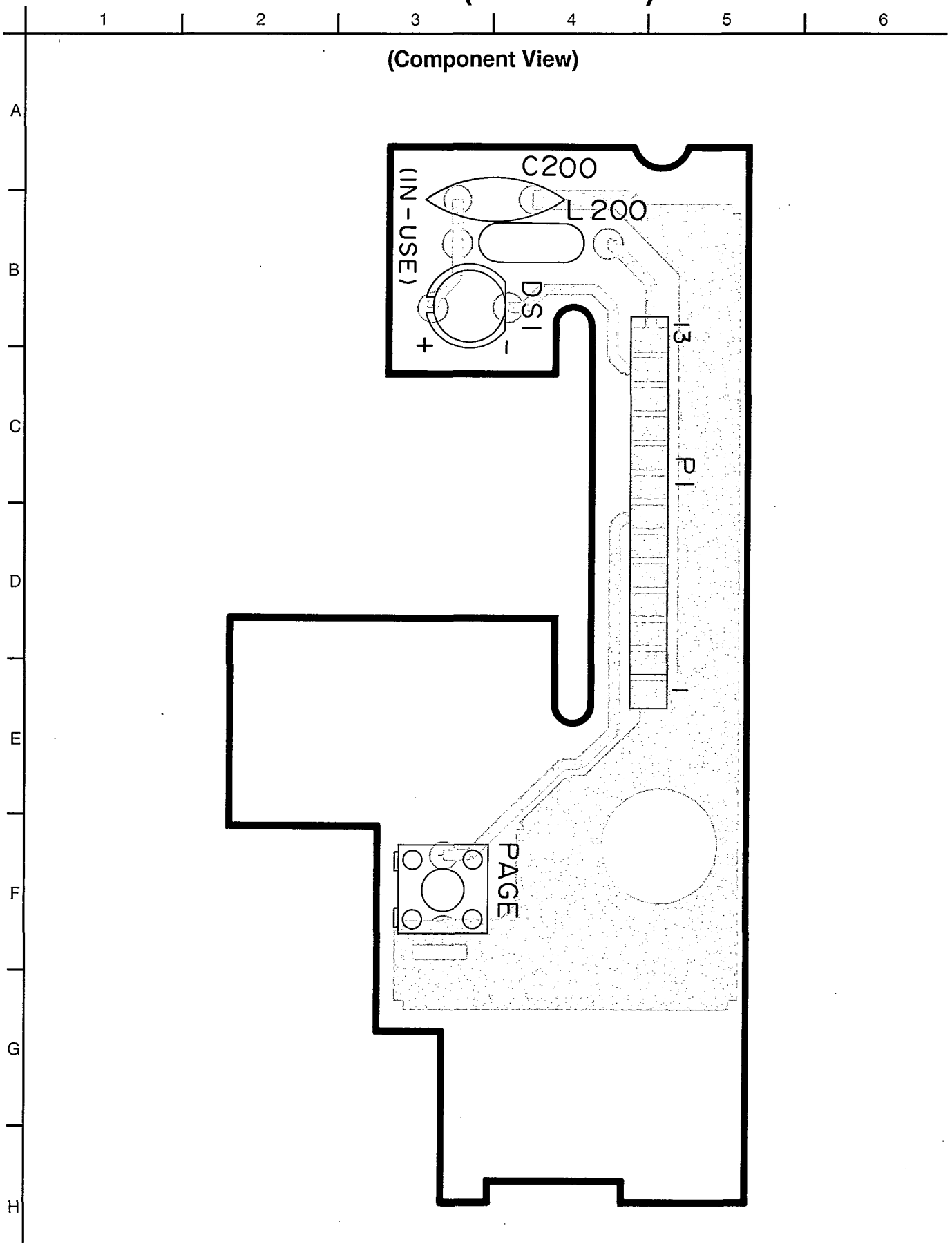
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4026EH)

(Component View)

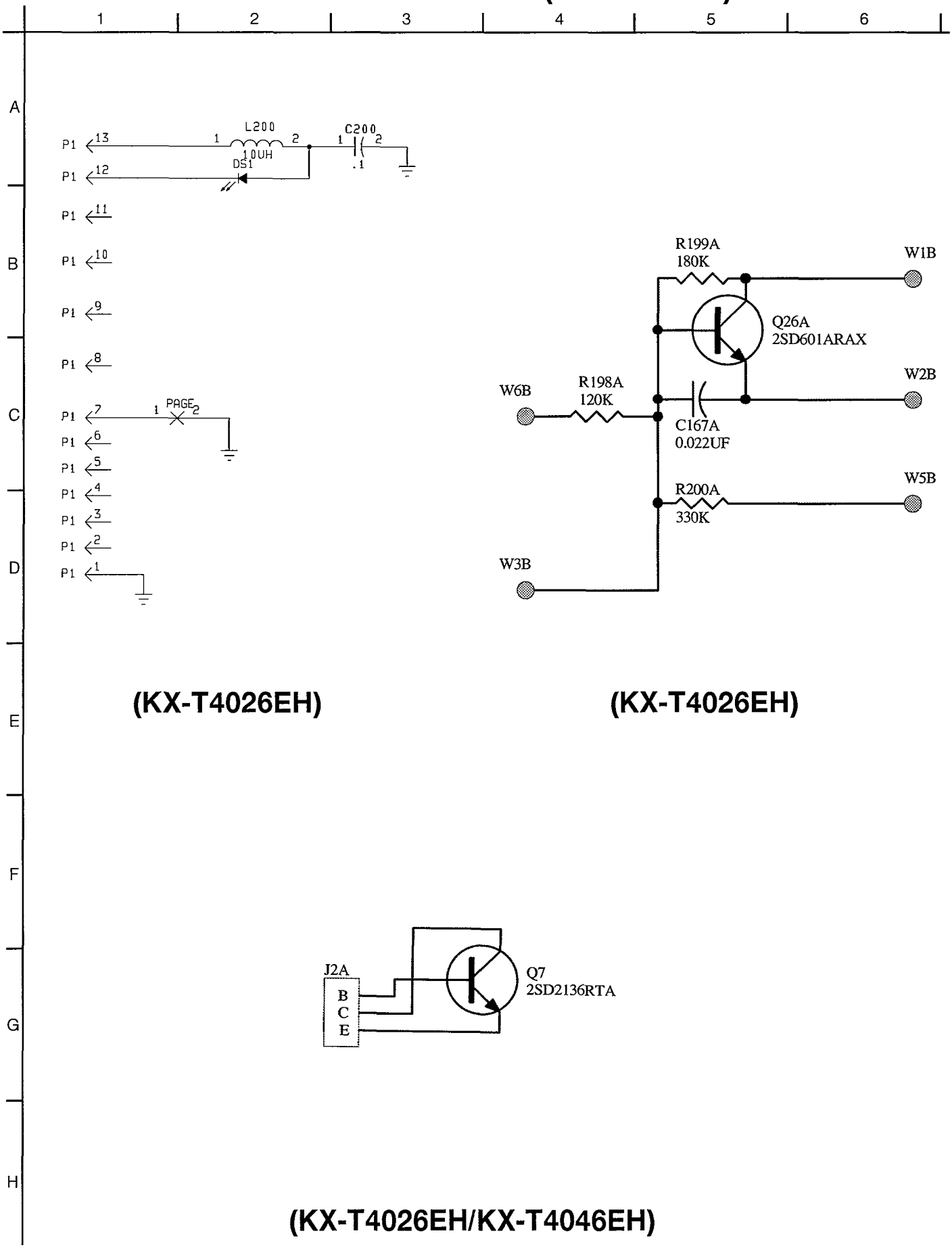


CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4026EH)

(Component View)



SCHEMATIC DIAGRAM (KX-T4026EH)

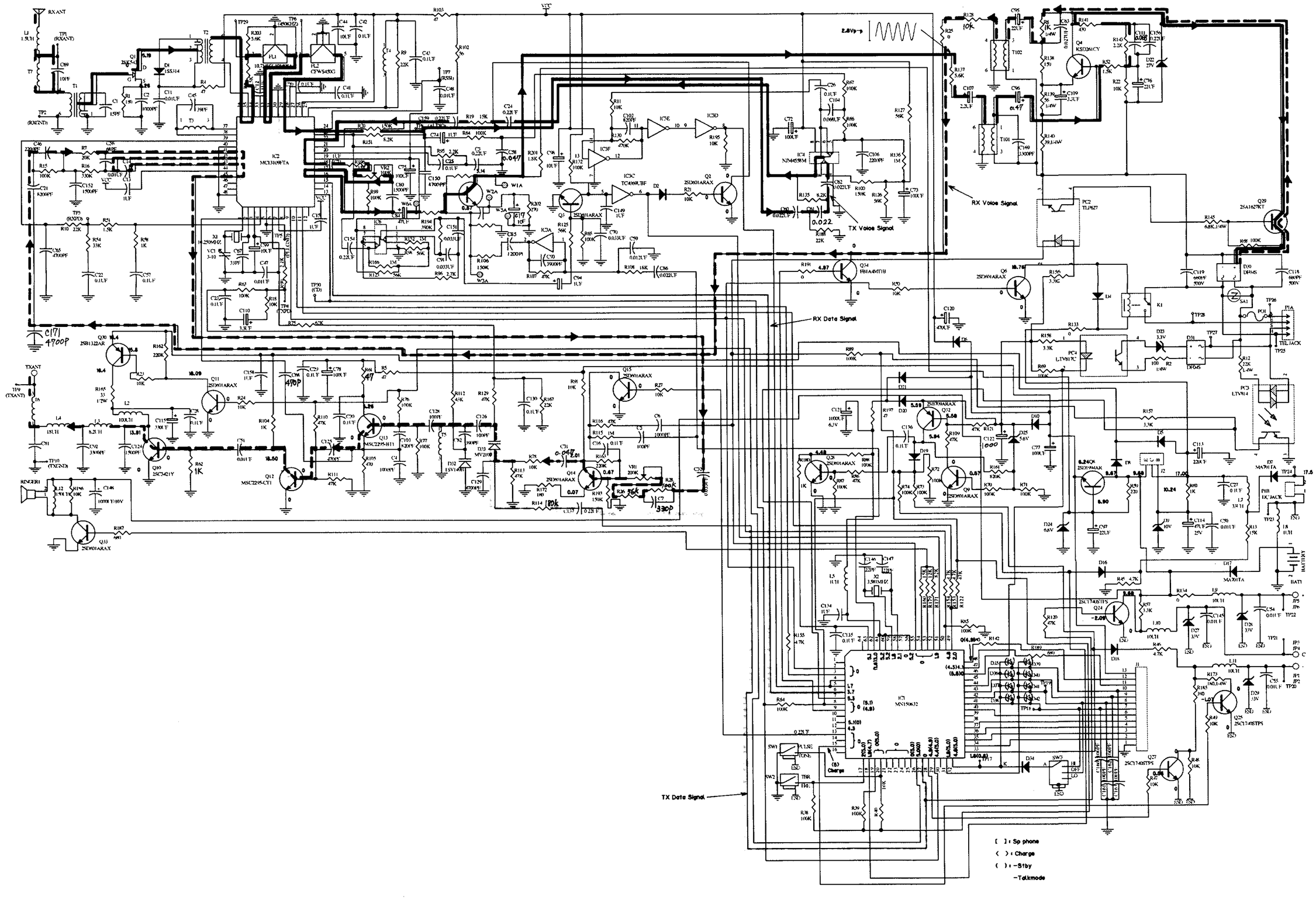


(KX-T4026EH)

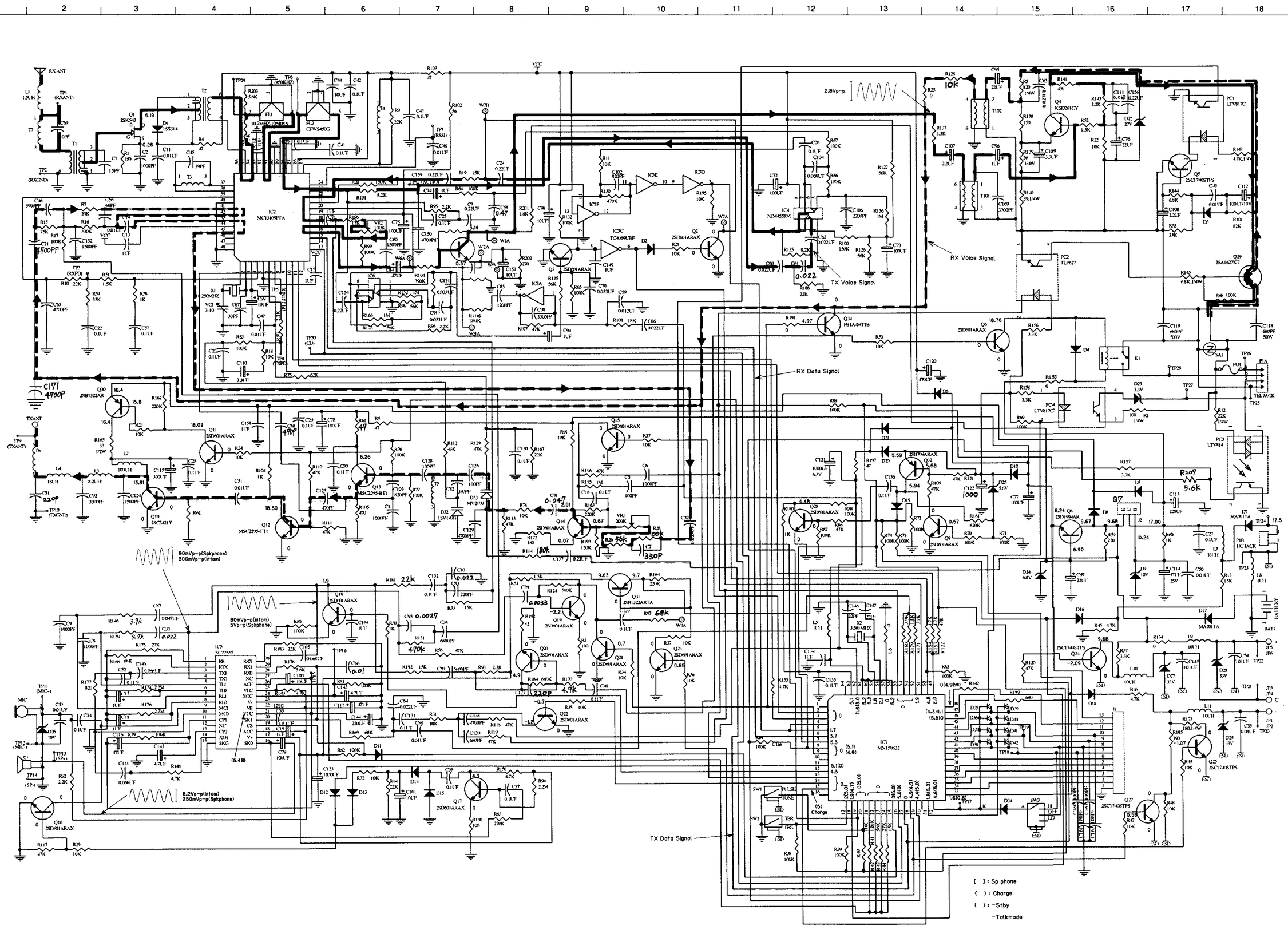
(KX-T4026EH)

(KX-T4026EH/KX-T4046EH)

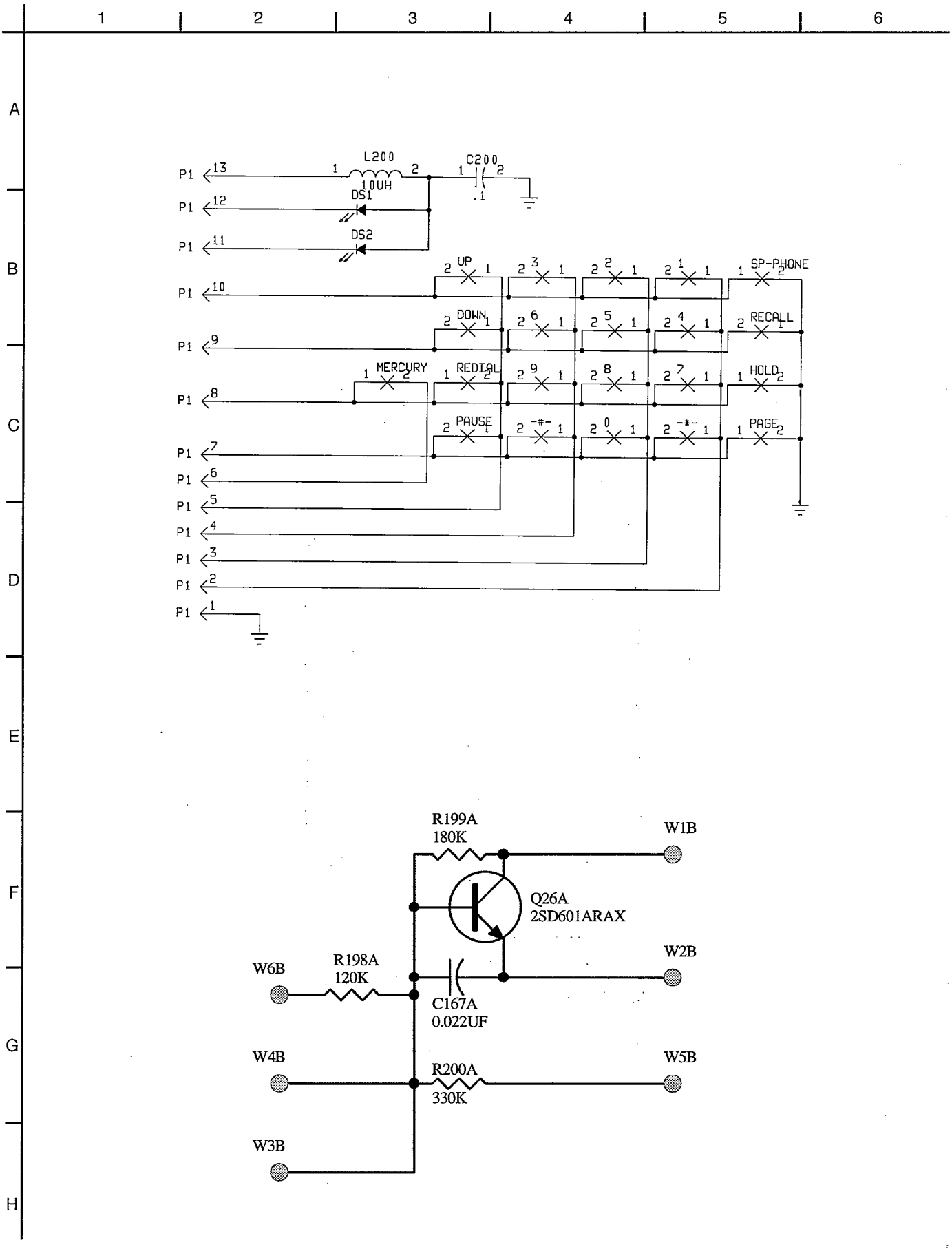
SCHEMATIC DIAGRAM (KX-T4026EH)



SCHEMATIC DIAGRAM (KX-T4046EH)

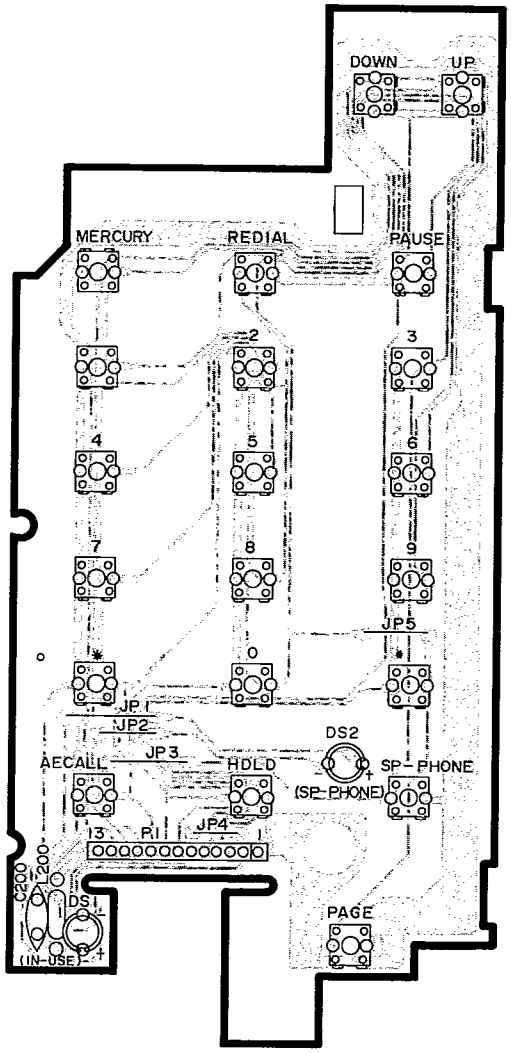


SCHEMATIC DIAGRAM (KX-T4046EH)



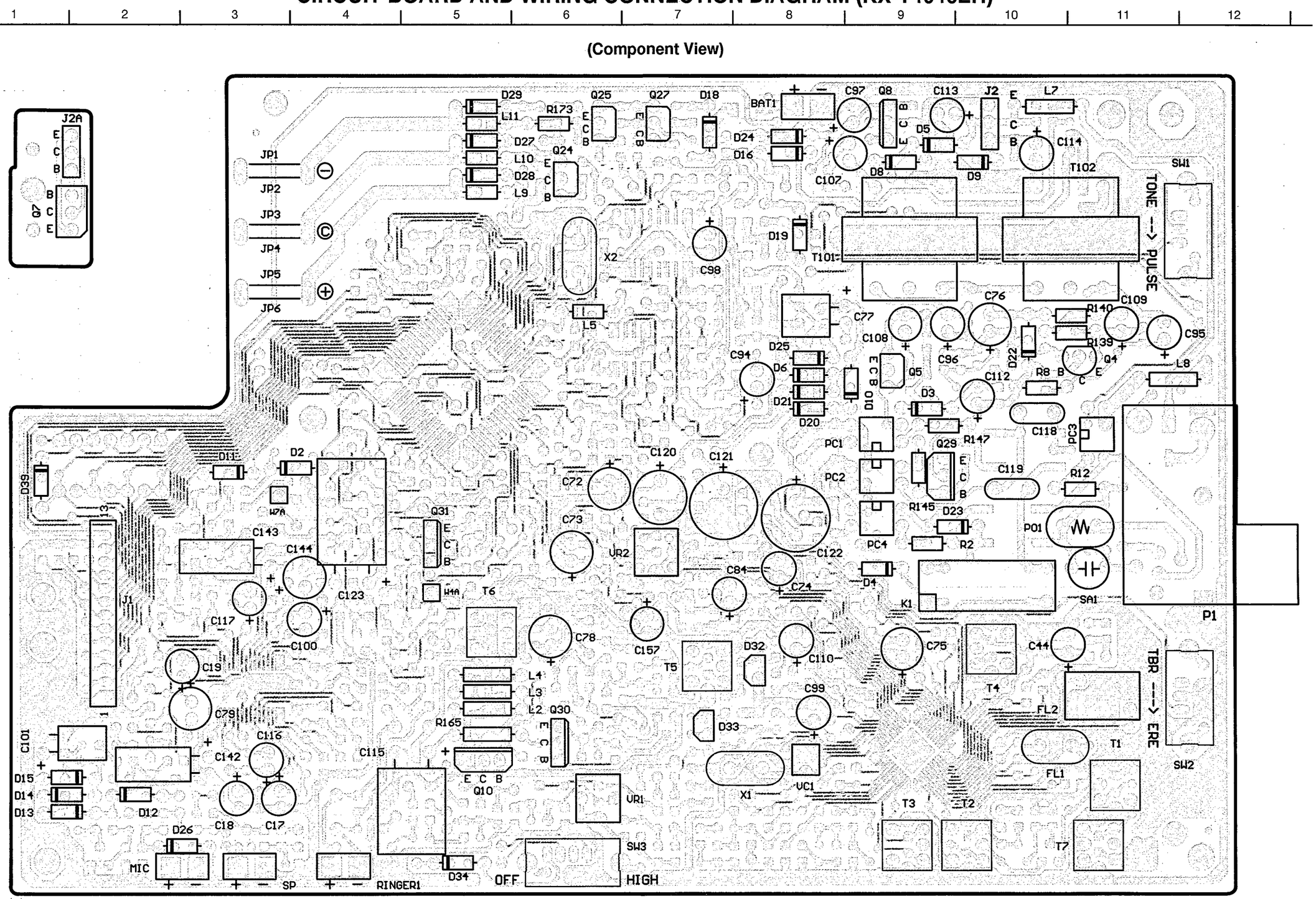
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4046EH)

(Component View)



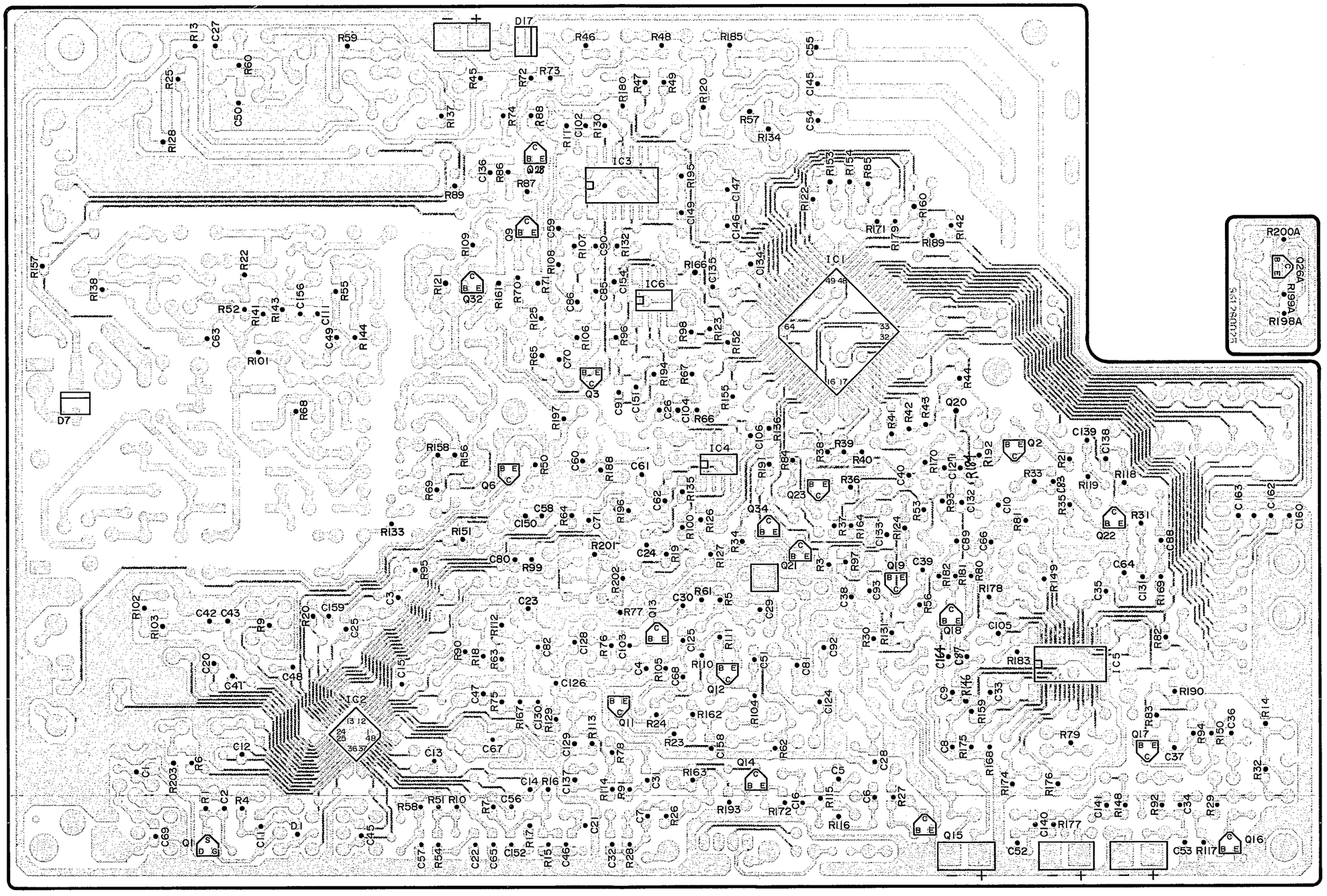
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4046EH)

(Component View)



CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4046EH)

(Flow Solder Side View)



ADJUSTMENTS (KX-T4026ER/KX-T4046ER)

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 dose not receive a call from portable handset.	Adjust the adjustment item (B)
The base unit dose 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 item (G),(H)

Unit Condition:

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

How to set the test mode.

CH4 Test Mode

1. After setting D16 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)

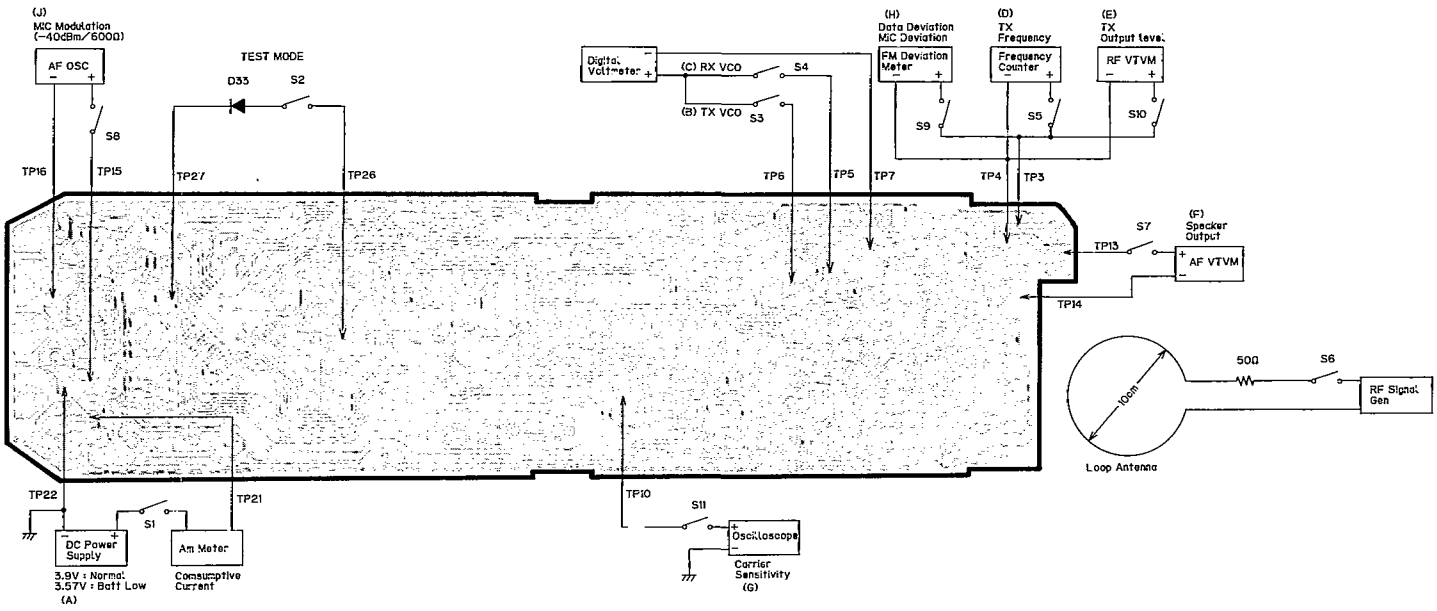
When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment items	Test Mode	Adjustment Points	Procedure
VR2	(A) Battery Low Adjustment	CH4 Talk	VR3	1.Connect the oscilloscope to ▼1-Ground. 2.Set the power supply voltage to DC 3.57V, and adjust **VR2** so that the reading of oscilloscope changes H → L.
D104, VC3, X1, T5, IC2	(B) TX VCO Voltage Adjustment	CH4 Talk	T5	1.Connect the digital voltmeter to ▼2-Ground. 2. Adjust **T5** so that the reading of digital voltmeter is 1.2 V±0.1 V.
IC2, VC3, X1, T3	(C) RX VCO Voltage Adjustment	CH4 Talk	T3	1.Connect the digital voltmeter to ▼3-Ground. 2. Adjust **T3** so that the reading of digital voltmeter is 1.4 V±0.1 V.
VC3, X1	(D) TX frequency Adjustment	CH4 Talk	VC3	1.Connect the frequency counter to ▼4–▼8. 2. Adjust **VC3** so that the reading of frequency counter is **47.49375 MHz± 200 Hz.**
T4	(E) TX output Adjustment	CH4 Talk	T4	1.Connect the RF VTVM to ▼4–▼8. 2. Adjust **T4 for 350 mV~650 mV output on RF** VTVM.

When replacing these parts, adjust as shown below table.

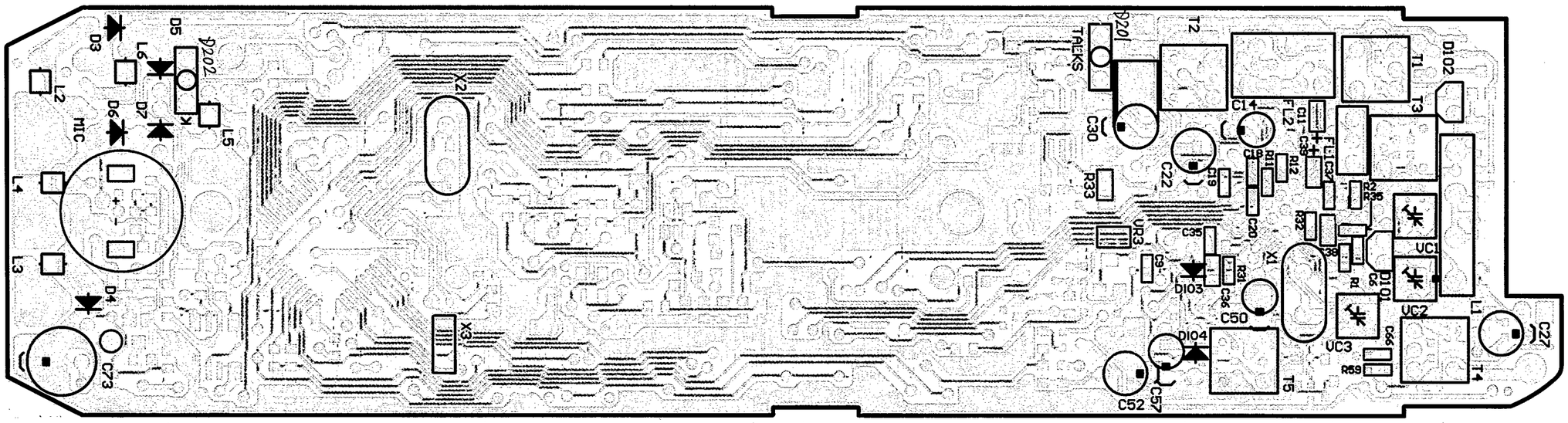
Replace Parts	Adjustment items	Test Mode	Adjustment Point	Procedure
T1, VC1, VC2 IC1	(F) RX Adjustment Receiving Sensitivity Adjustment	CH4 Talk		1. Connect the RF VTVM to 5–9. 2. Connect the AF VTVM to 6–10. 3. Set to TALK mode at the test mode of 4ch. 4. Set S5,S8,S9 to on. 5. Set SSG frequency to 1.702 MHz. 6. When SSG output level is 40 dBμ,adjust so that 450 kHz "IF" output reaches its maximum level with T1,VC1 and VC2. **Note:** If distance of loop antenna and bar is far, set SSG output level to higher.
D103	(G) Data Modulation of Confirmation	CH4 Talk		1.Connect the FM deviation meter 4–8. 2. Keep pressing the recall button. 3. Confirm for a 1.5~3.0 kHz FM Diviation Meter.
VR2	(H) Mic Modulation Adjustmet	CH4 Talk	VR2	1. Connect the FM deviation meter 4–8. 2. Mic input 1 kHz. –40 dBm/600 m 3. Set Modulation to 1.5 kHz.
VR1	Speaker Output Level Adjustment	CH4 TALK	T2 VR1	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 VR1. **Note:** If distance of loop antenna and bar is far, set SSG output level to higher.

Flow Solder Side View



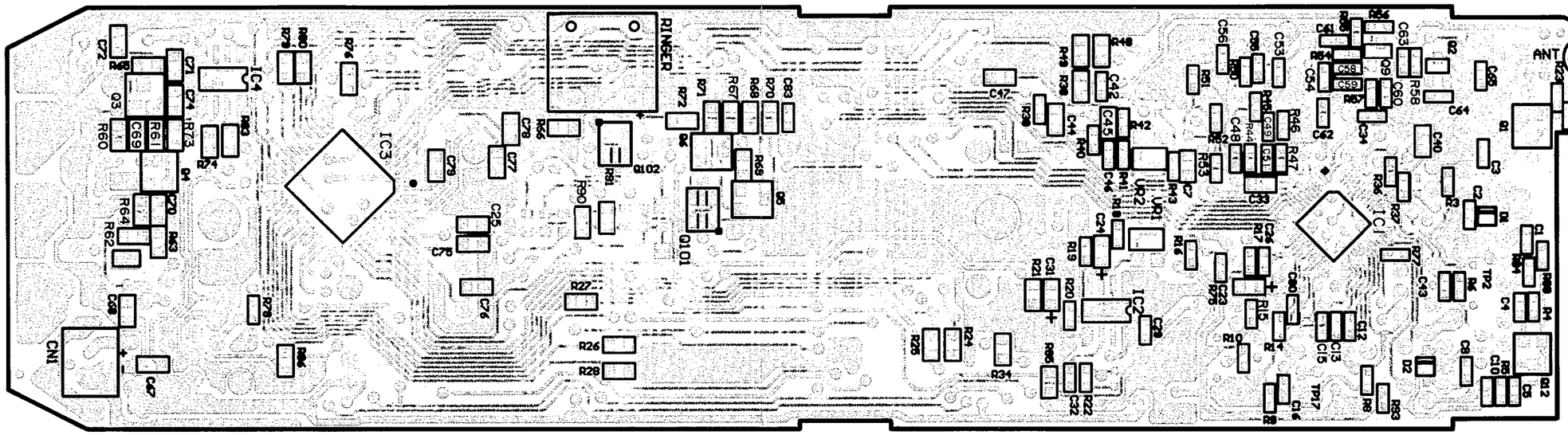
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4026ER)

(Component View)

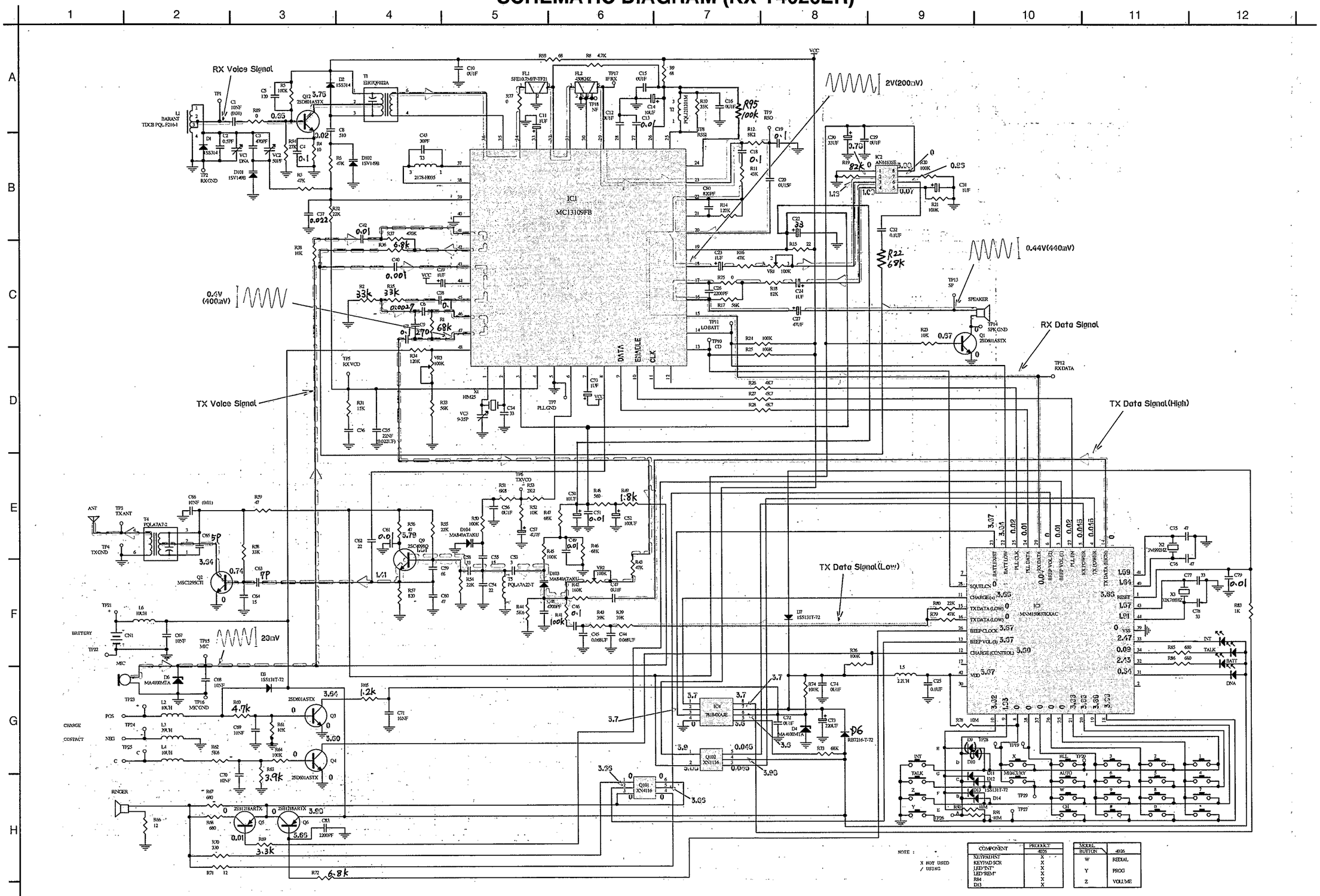


CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4026ER)

(Flow Solder Side View)



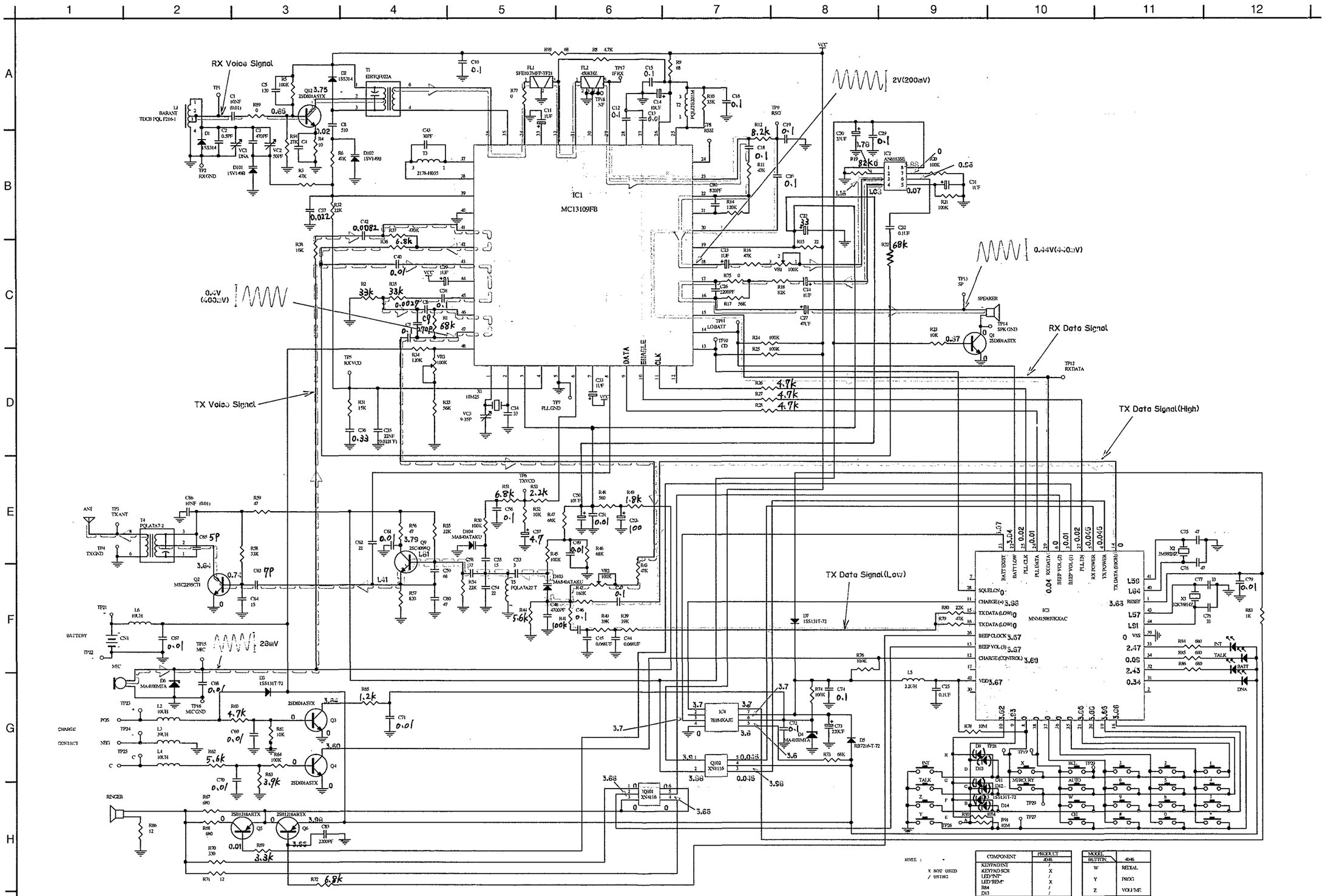
SCHEMATIC DIAGRAM (KX-T4026ER)



COMPONENT	PRODUCT
KEYPADINT	X
KEYPAD SCR	X
LED"INT"	X
LED"REM"	X
R84	X
D13	X

MODEL / BUTTON	4026
W	REDIAL
Y	PROG
Z	VOLUME

SCHEMATIC DIAGRAM (KX-T4046ER)

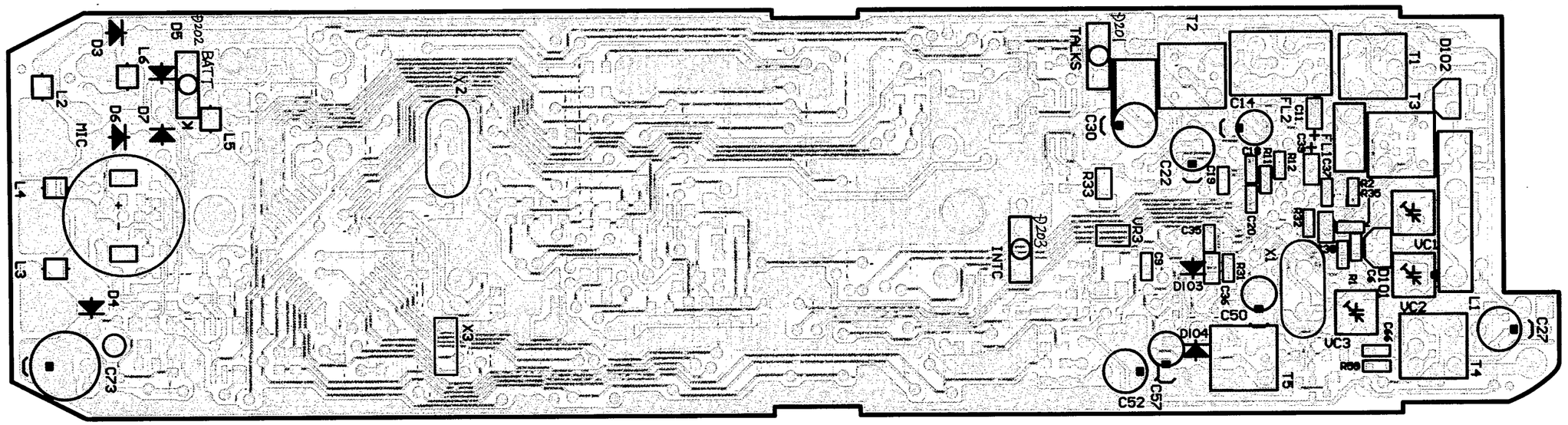


COMPONENT	PRODUCT 4046
KEYPAD INT	/
KEYPAD SCR	X
LED"INT"	/
LED"REM"	X
R84	/
D13	/

MODEL BUTTON	4046
W	REDIAL
Y	PROG
Z	VOLUME

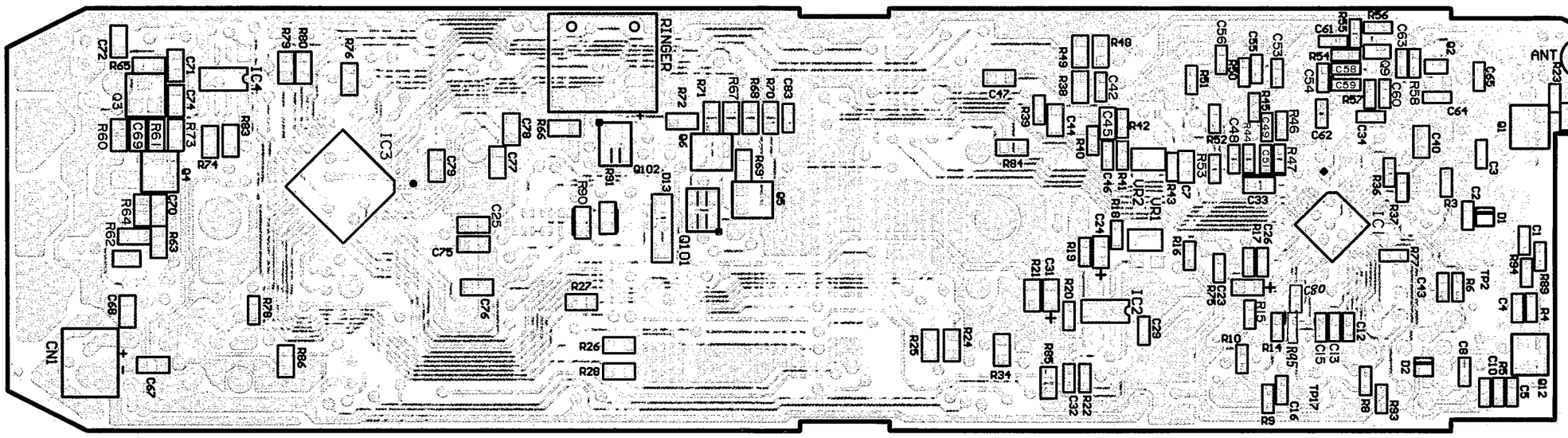
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4046ER)

(Component View)



CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T4046ER)

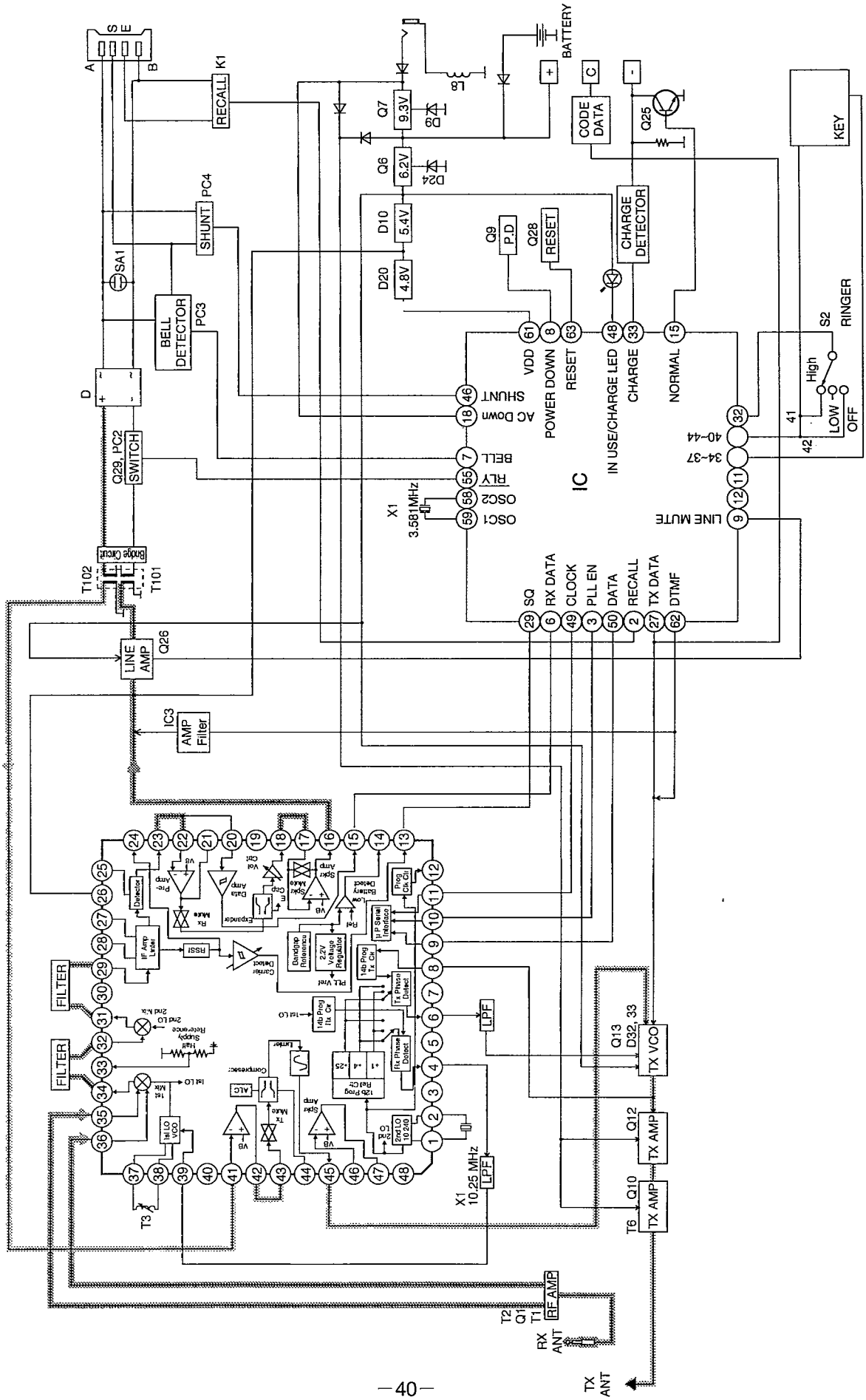
(Flow Solder Side View)



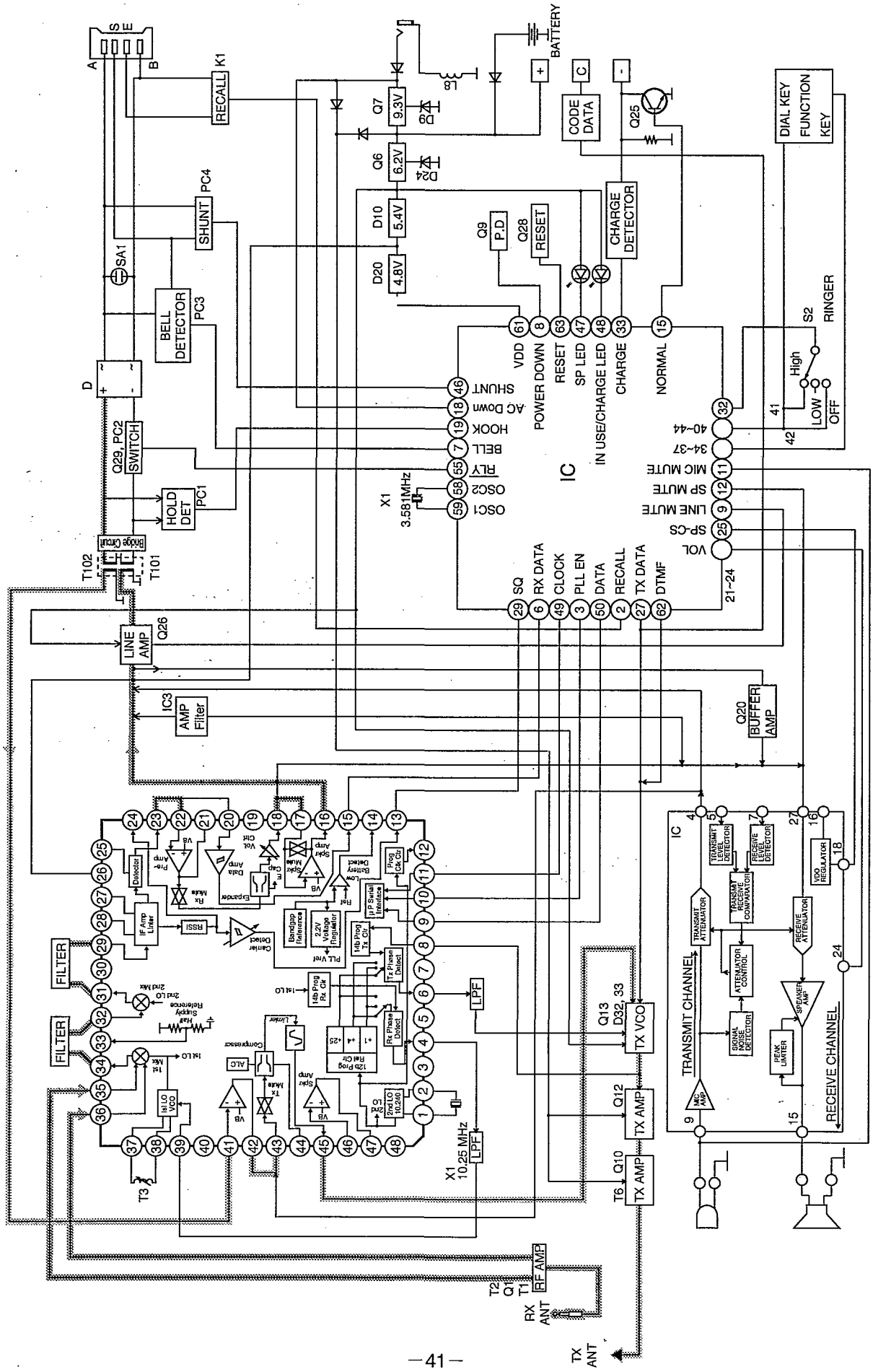
FREQUENCY TABLE (MHz)

CH	KX-T4026EH/KX-T4046EH		KX-T4026ER/KX-T4046ER	
	Transmit Frequency	Receive Frequency	Transmit Frequency	Receive Frequency
1	1.642	47.45625	47.45625	1.642
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
8	1.782	47.54375	47.54375	1.782

BLOCK DIAGRAM (KX-T4026EH)



BLOCK DIAGRAM (KX-T4046EH)



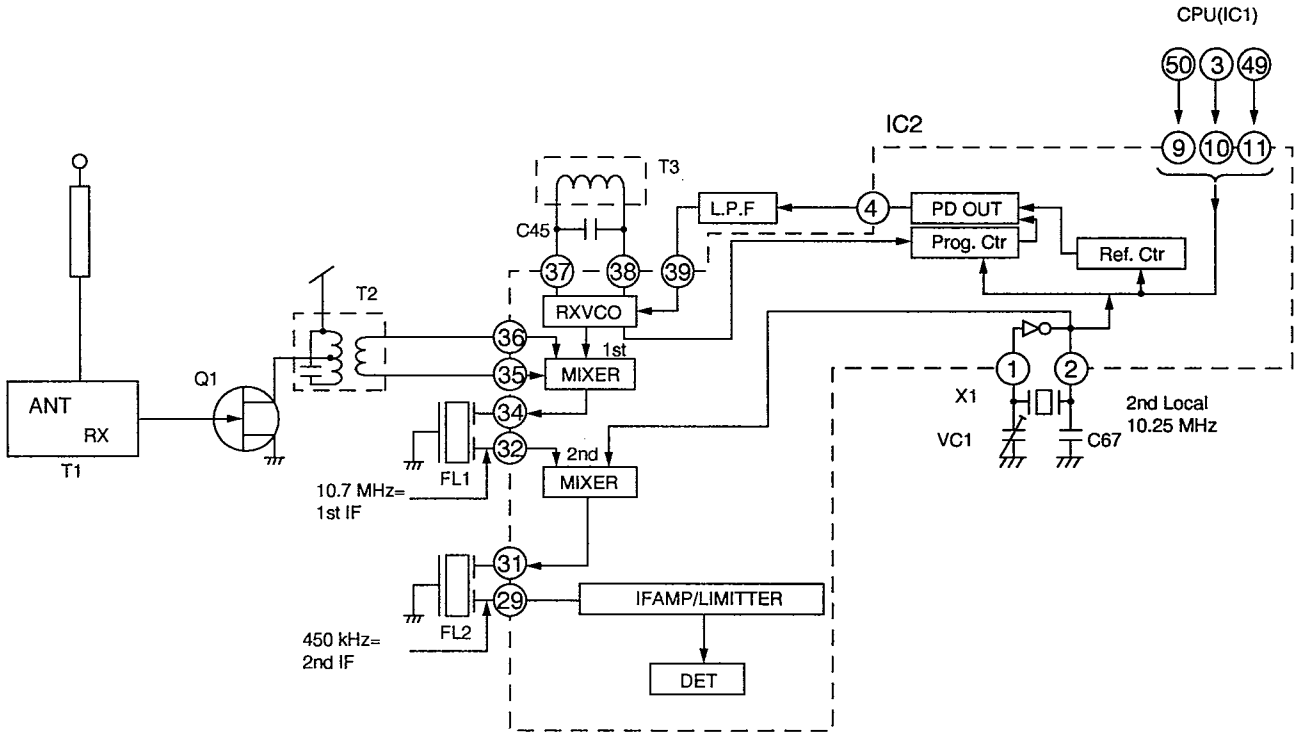
NEW CIRCUIT OPERATION (KX-T4026EH/KX-T4046EH)

■ RECEIVER RF IF CIRCUIT

Circuit Operation:

The signal of 47 MHz band (47.45625~47.54375) 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 Pins 35, 36 of IC2.
RX VCO which oscillates at T3 and Pins 37, 38 of IC2 is input to program control at inside of IC2, 1st local frequency is controlled to assigned channel by serial data which is output, from Pins 3, 49 and 50 of IC1 (CPU), makes loop with Phase Detector Out and RX VCO, and locks 1st local frequency.
The input signal of Pins 35, 36 of IC2 and 1st local frequency output from RX VCO are mixed at inside of IC2, then it passes through PL1, and 1st IF frequency of 10.700 MHz is generated. The 10.250 MHz and 10.700 MHz which are oscillated at X1 and Pins 1, 2 of IC2 are mixed at inside of IC2 and filtered at FL2, and 2nd IF 450 Hz is output

Circuit Diagram



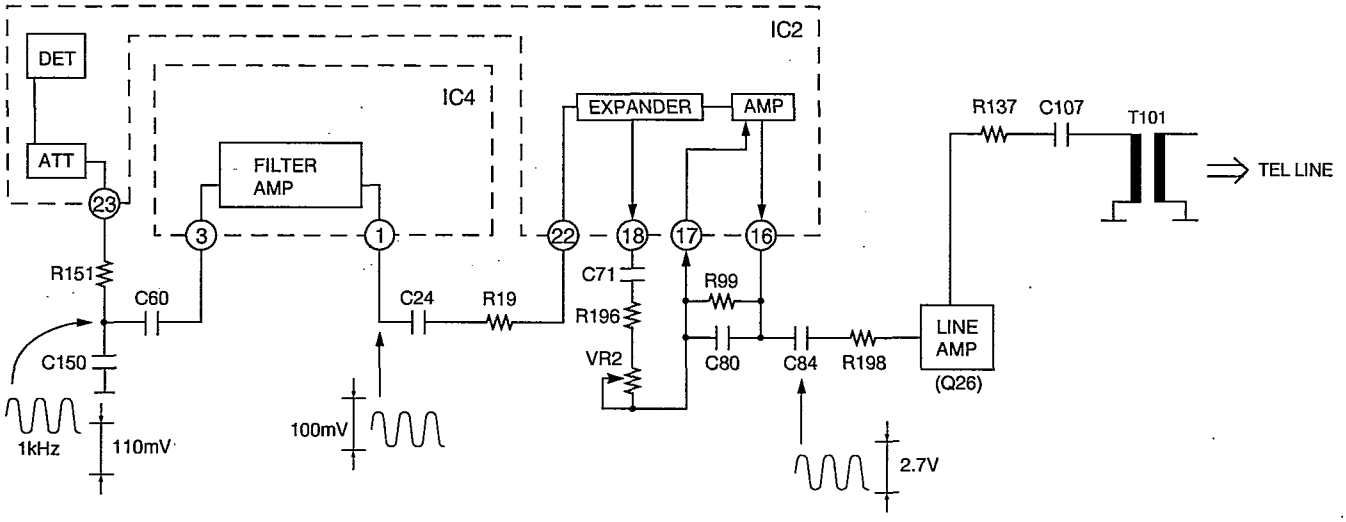
■ RECEIVER SIGNAL CIRCUIT

Circuit Operation:

1. The detected signal passes through R151, C60, is input to Pin 3 of IC4 (Filter Amp).
2. An input signal to Pin 3 of IC4 is output from Pin 1 as it is.

3. Then, it goes through L.P.F. which consists of Pins 22 of IC1 and external capacitor and resistor, and internal EXP/AMP of IC1, and is output from Pin 18 of IC1.
4. Then it goes through Buffer Amp which consists of Q26 and TEL LINE·INTERFACE TRANSFORMER T101, and is output to TEL LINE.

Circuit Diagram



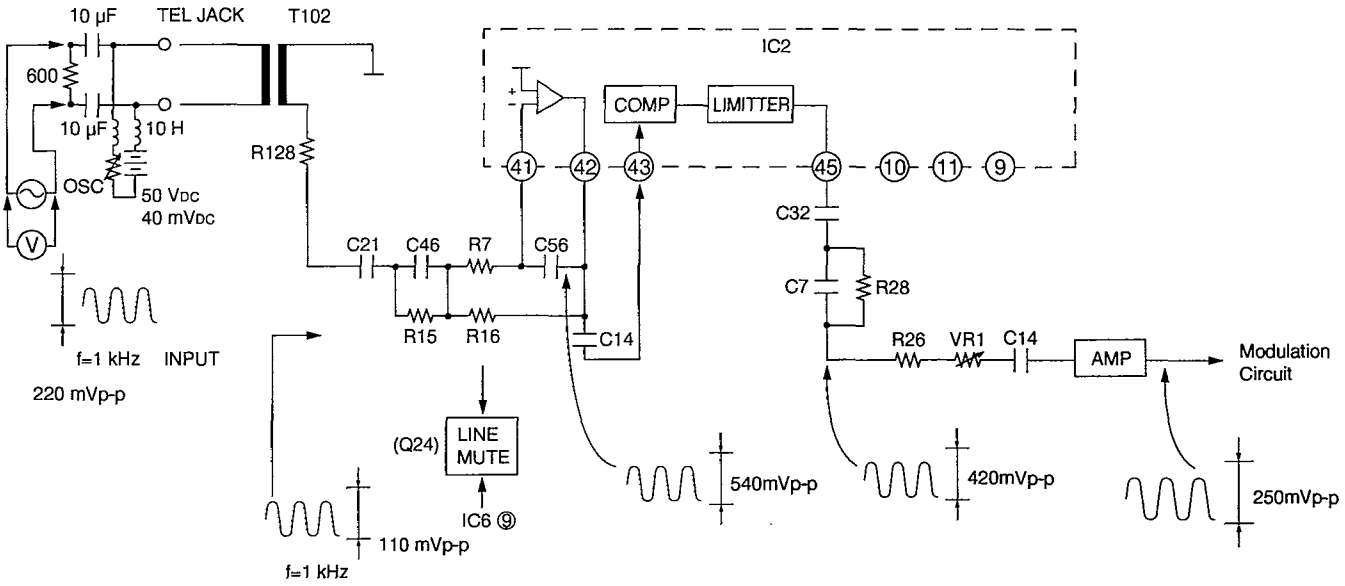
Note: When applying the SSG input level of reception 60 dBμV
(1.5kHz Deviation, f=1kHz) from antenna, all wave from are measured.

■ TRANSMITTER SIGNAL CIRCUIT

Circuit Operation:

1. The signal input from TEL LINE goes through TEL LINE INTERFACE TRANS T102→R128→C21→C46, R7→Pins 41, 42 of IC2 Amp →COMPRESSOR, LIMITER, and is output from Pin 45 of IC1.
2. Then, the signal output from Pin 45 of IC5, passes through C32, C7, R28, R26 and, VR1 and is input to modulator circuit.

Circuit Diagram



■ INITIALIZATION CIRCUIT

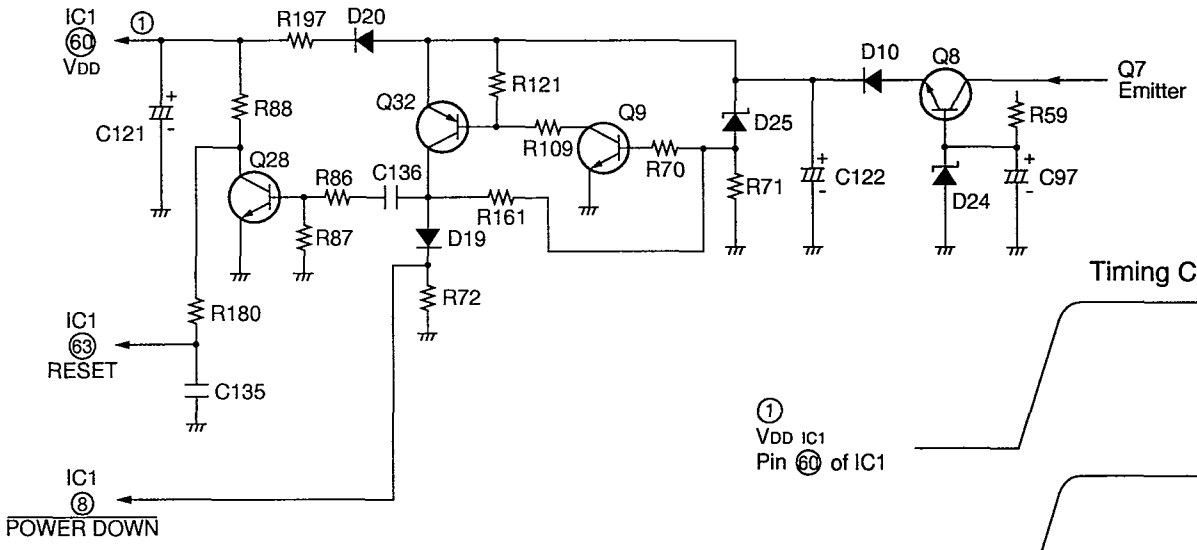
Function:

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

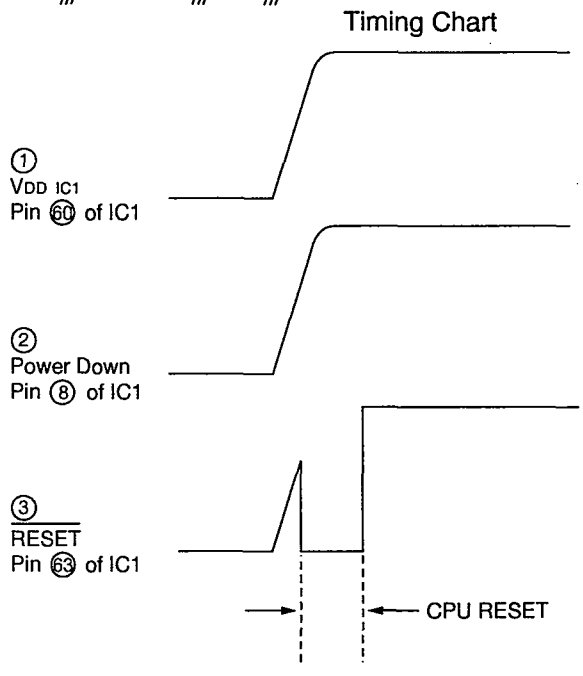
Circuit Operation:

When the unit is switched ON, then the voltage is shifted by D10, D20 and power is supplied to the CPU.

Circuit Diagram



Timing Chart



■ CHARGE DETECT CIRCUIT

Circuit Operation:

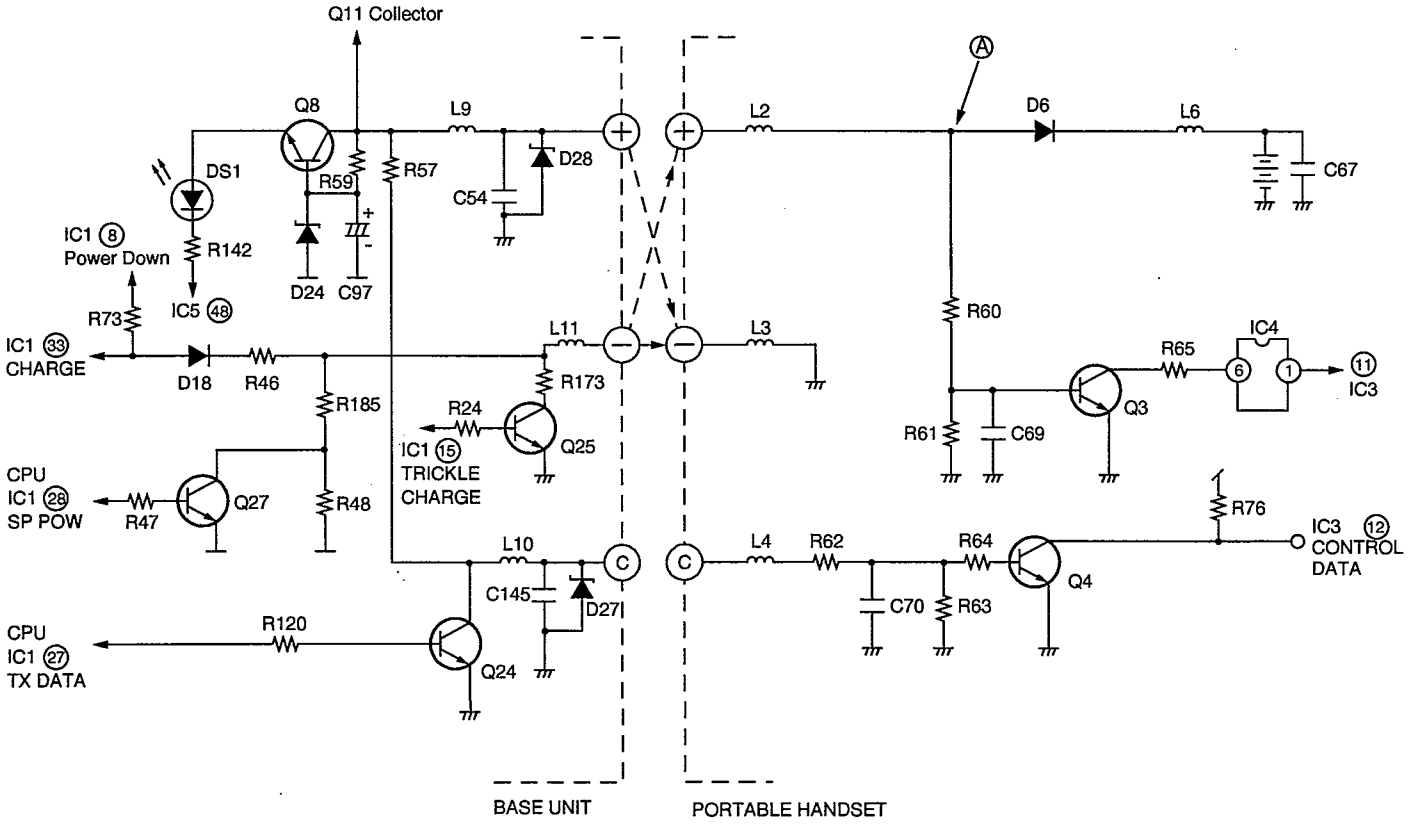
• CHARGE MODE

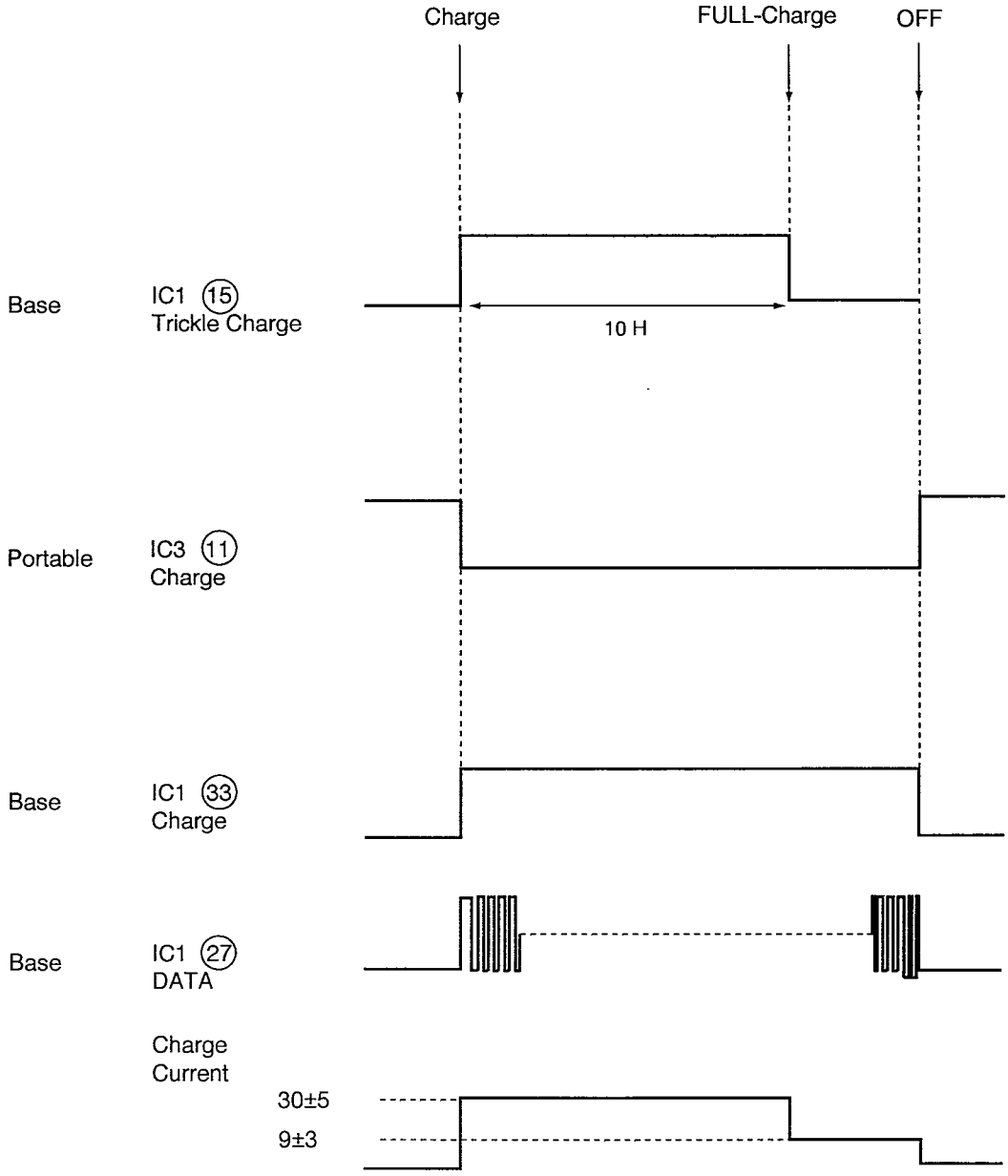
When charging the portable handset on the base unit, CH ID CODES are sent from the CONT terminal to the portable handset, and charging current is supplied to the portable handset from the battery charge contacts via R173 on base unit:
When ⊖ contact on base unit is input to Pin 33 of IC1 (CPU) through D18 and DS1 (CHARGE LED) light is on. When the Ⓐ point on the portable handset is High level, Q3 on portable handset goes on and Pin 6 of IC4 becomes Low, and the p1 of IC4 will become Low, so pin 11 of IC3 (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 Q24 switching is affected by Pin 27 of IC1 on base unit, the sending data are CH data, ID code, tone data etc.
The data signal is sent to Pin 12 of IC3 (CPU) via Q4 on portable handset.

Circuit Diagram




Charge
FULL-Charge
OFF
Base
IC1 (15)
Trickle Charge
10 H
Portable
IC3 (11)
Charge
Base
IC1 (33)
Charge
Base
IC1 (27)
DATA
Charge
Current
30±5
9±3

NORMAL CIRCUIT OPERATION (KX-T4026EH/KX-T4046EH)

■ TELEPHONE LINE INTERFACE

Circuit Operation:

•ON HOOK

Q29 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→R12→PC3→S
The DC component is blocked by BT-socket: thereby providing an on-hook condition.

■ TELEPHONE MODE OPERATION

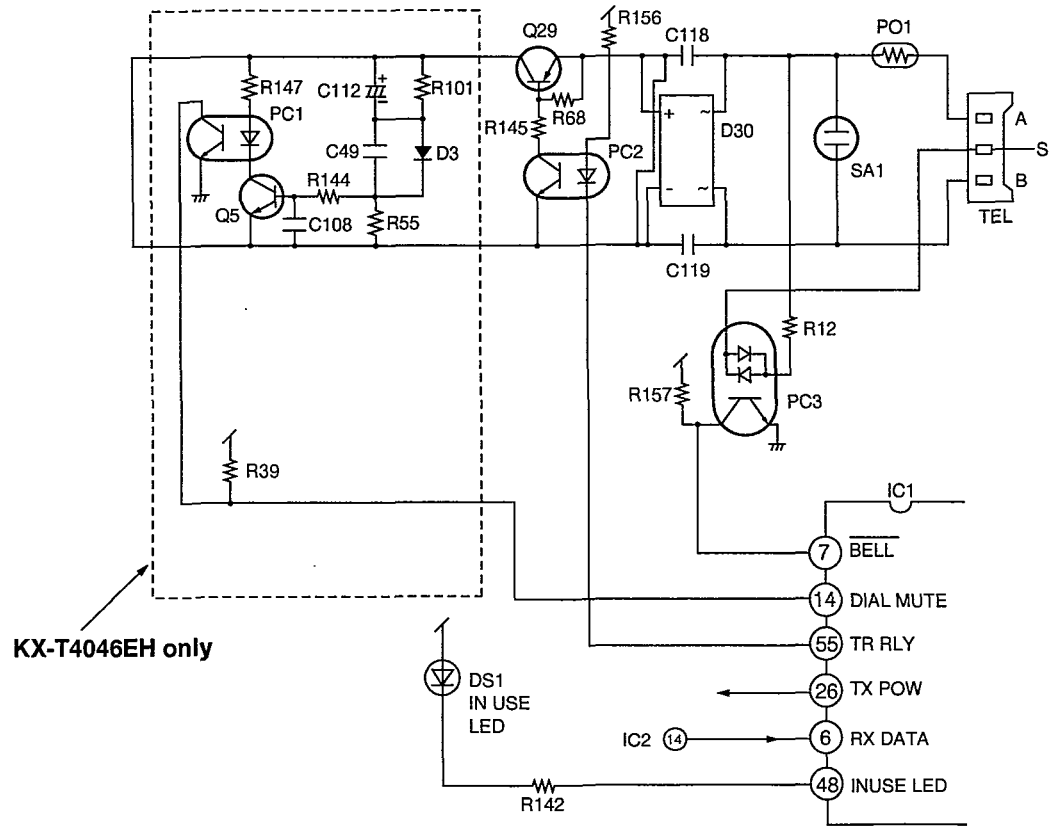
When a ring signal enters from the Line

1) The ring detection circuit, i.e., the photocoupler PC3, begins to operate and its output is input to Pin 7 of IC1 (CPU).
2) To show the arrival of the ring signal to the portable handset, Pin 26 of IC1 enters into the transmit mode thus becoming a High and the ring data having the code set by Pin 27 of IC1 is sent to portable handset as a modulated output signal.
3) Upon receiving the ring data, and the portable handset is swtiched 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 IC2. This signal is then inputted to Pin 6 of IC1, activating Pin 55 of IC1 which causes Q29 and PC2 to release the muting, and enable talk.

Circuit-making from the portable hanset

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 thorough data signal amplifier of IC1 and enters Pin 6 of IC1.
2) When the codes coincide, Pin 26 of IC1 becomes a "High". At this time the transmit condition is enabled and the muting is cancelled via IC2, and the photocoupler PC2 is turned on.
3) Further, and IN USE signal is sent out from Pin 48 of IC1, thus dimly lighting the IN USE/INT'COM LED (DS1).

Circuit Diagram



■ INTERCOM MODE (KX-T4046EH 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 52 of IC1 and Pin 54 of IC1 becomes "LOW". Thus a monitor tone is heard from the speaker.

2) At the same time, Pin 26 of IC1 goes "High", and the transmission state is reached. Then the modulated data signal is output from Pin 27 of IC1. Flashing of the INTERCOM LED (DS1) is obtained from Pin 48 of IC1. 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 14 of IC2. This wave shaped signal is entered at Pin 6 of IC1 as data to be analyzed by the CPU (IC1). Speaker muting is cancelled by a change of Pin 25 of IC1 from HIGH to a LOW, thus a monitor tone is output from Pin 53, 54 of IC1. This monitor tone is amplified by IC5 and can be heard from the speaker. At the same time, the INTERCOM LED (DS1) is made to flash via Pin 48 of IC1. Thus microphone and speaker muting are cancelled by Pin 25 of IC1, enabling the microphone and speaker amplifiers to operate, thus intercom calls become possible.

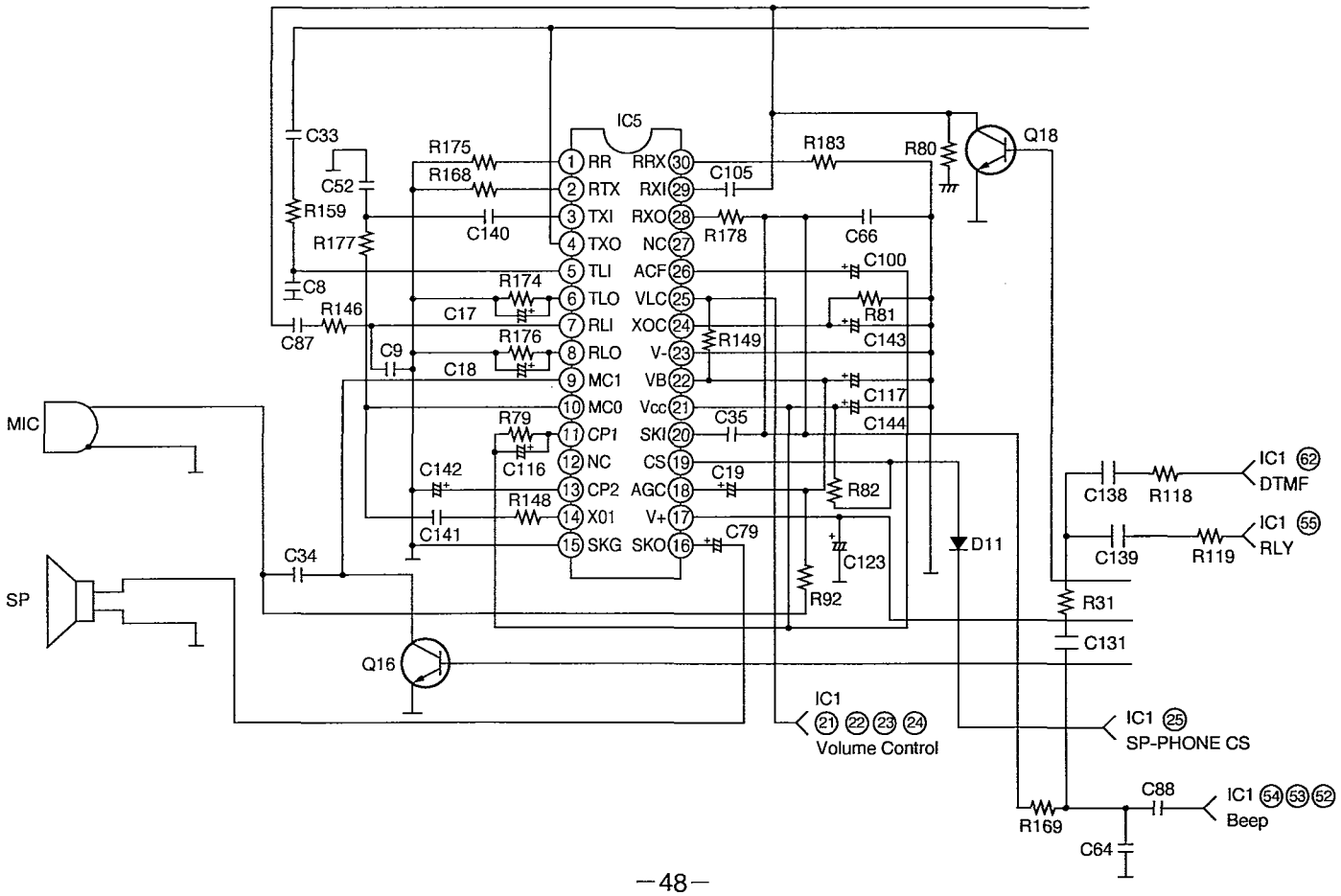
4) When a ring signal arrives from the line during an intercome call, a ring monitor signal flows from Pins 52 of IC1 to the speaker. However this monitor tone is not transmitted to the portable handset.

■ SPEAKERPHONE OPERATION (KX-T4046EH Only)

When the ring signal is received

1. When the ring signal is received from line, photocoupler PC3 operates, the output enters Pin 7 of IC1 (CPU), Pin 26 of IC1 goes High, and the system goes into the Send mode. Also, Pin 25 of IC1 goes Low, activating IC5 (speakerphone). Next, Pins 53, 54 of IC1 output the monitor tone which enters Pin 20 of IC5 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 Q29 goes ON, causing the line to be selected.

Circuit Diagram

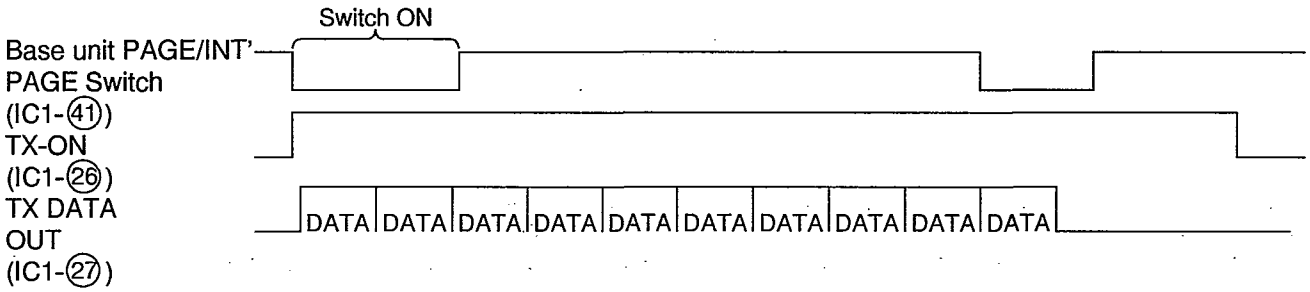


■ CPU OPERATION

1. TEL MODE AND INTERCOM MODE

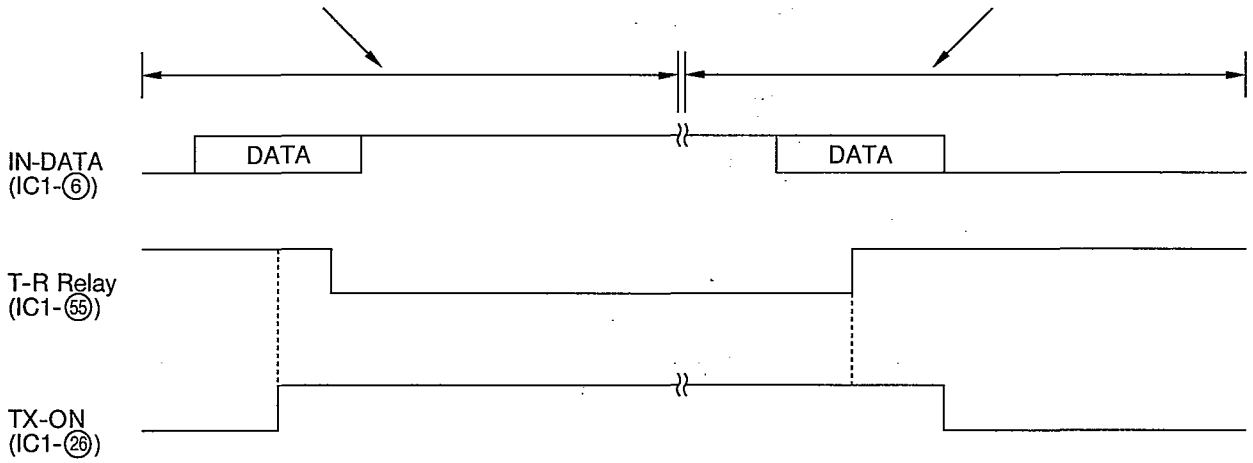
CPU Terminals / Operation Mode	9 L MUTE	12 SP MUTE	26 TX POW	27 TX DATA	52 BEEP	55 TR-RLY
KX-T4026E/KX-T4046E						
STANDBY	H	H	L	H	L	H
TALK	L	H	H	H	L	L
4026EH→4026ER Ring 4046EH→4046ER	H	H	H	DATA	⎍	H
4026EH→4026ER Paging 4046EH→4046ER	H	H	H	DATA	⎍	H
CHARGE	H	H	L	H	L	H
CH Changing (TALK)	H	H	H	⎍	L	L
KX-T4046E Only						
INTERCOM	H	L	H	H	L	H
4046ER→4046EH Paging	H	H	H	⎍	⎍	H
CH Changing (INTCOM)	H	H	H	⎍	L	H

2. TIMING OF IC1 (CPU) OUTPUT PORT WITH THE BASE UNIT IN PAGE/INT' MODE



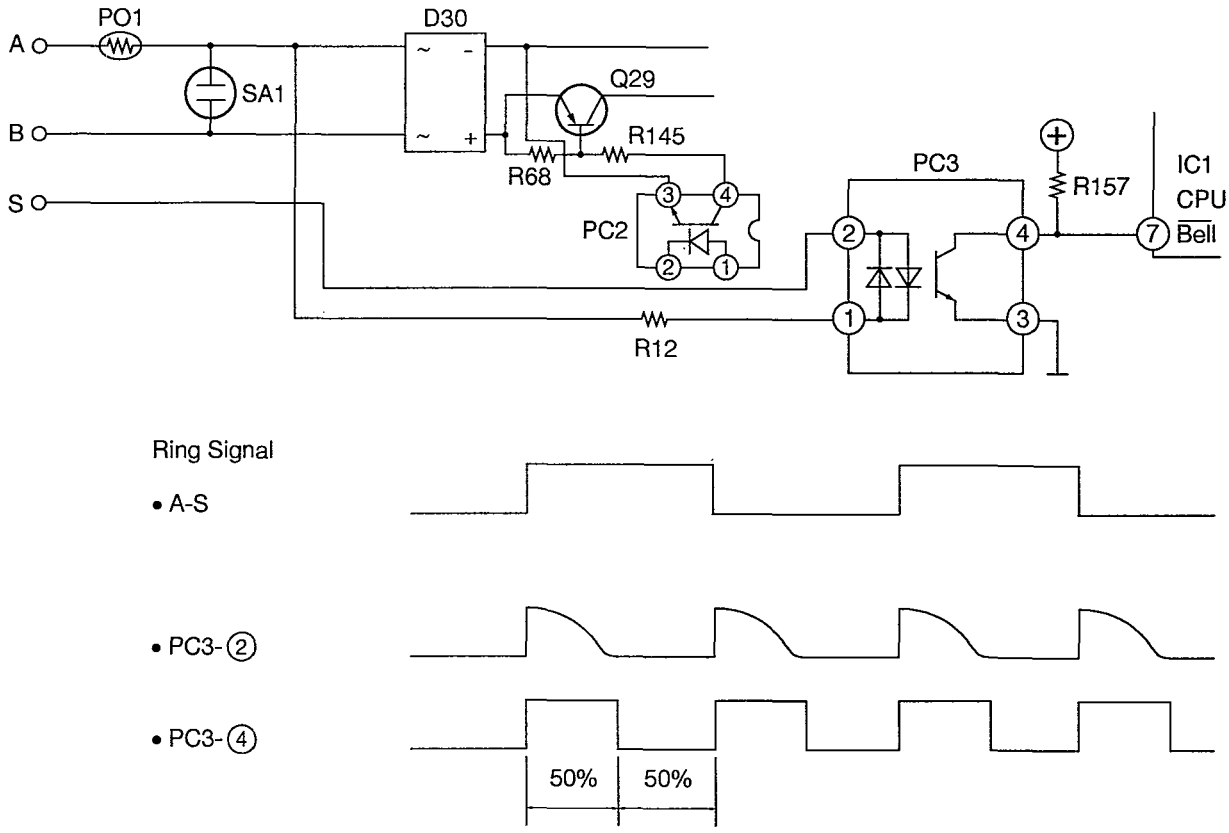
3. WHEN PRESSING THE TALK SWITCH OF THE PORTABLE HANDSET

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



5. RESONANCE PREVENTION CIRCUIT

Circuit Diagram

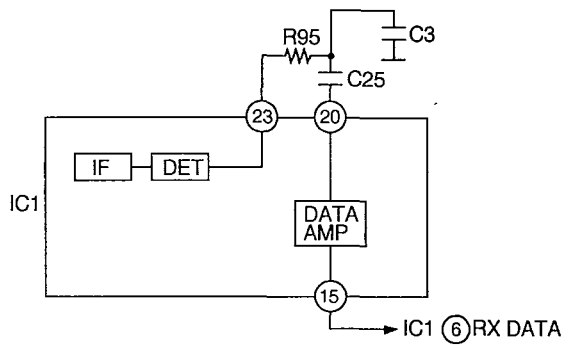


Make/break ratio when dialling with the Portable handset: 40% : 60%
High/low ratio upon ring signal : 50% : 50%
Therefore, if the low/high ratio is greater than 45% at IC1-⑦ (CPU), it is judged as a ring signal. See above Fig.

6. EXPLANATION OF THE RECEIVE CIRCUIT

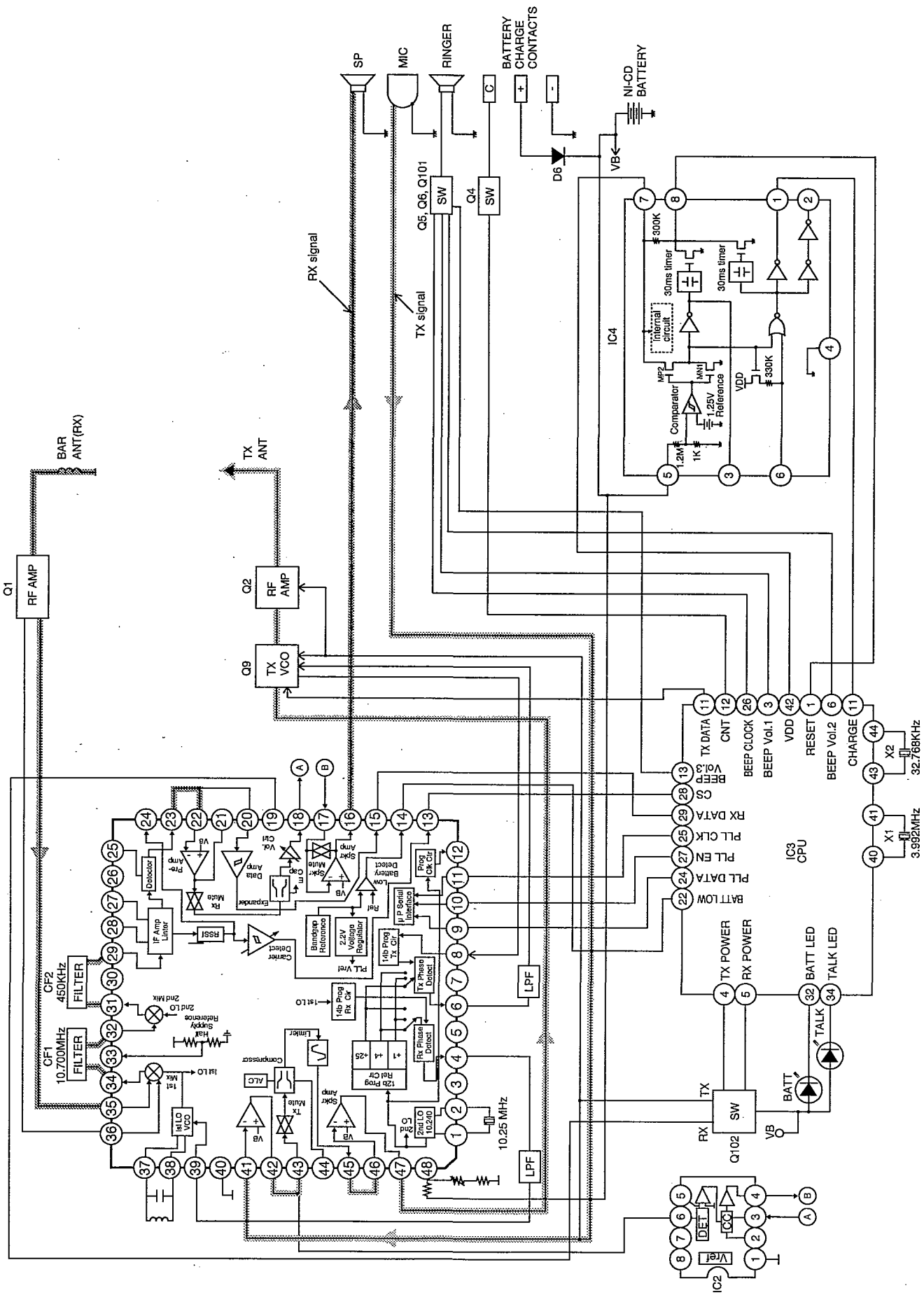
6-1. Signal Flow

Circuit Diagram

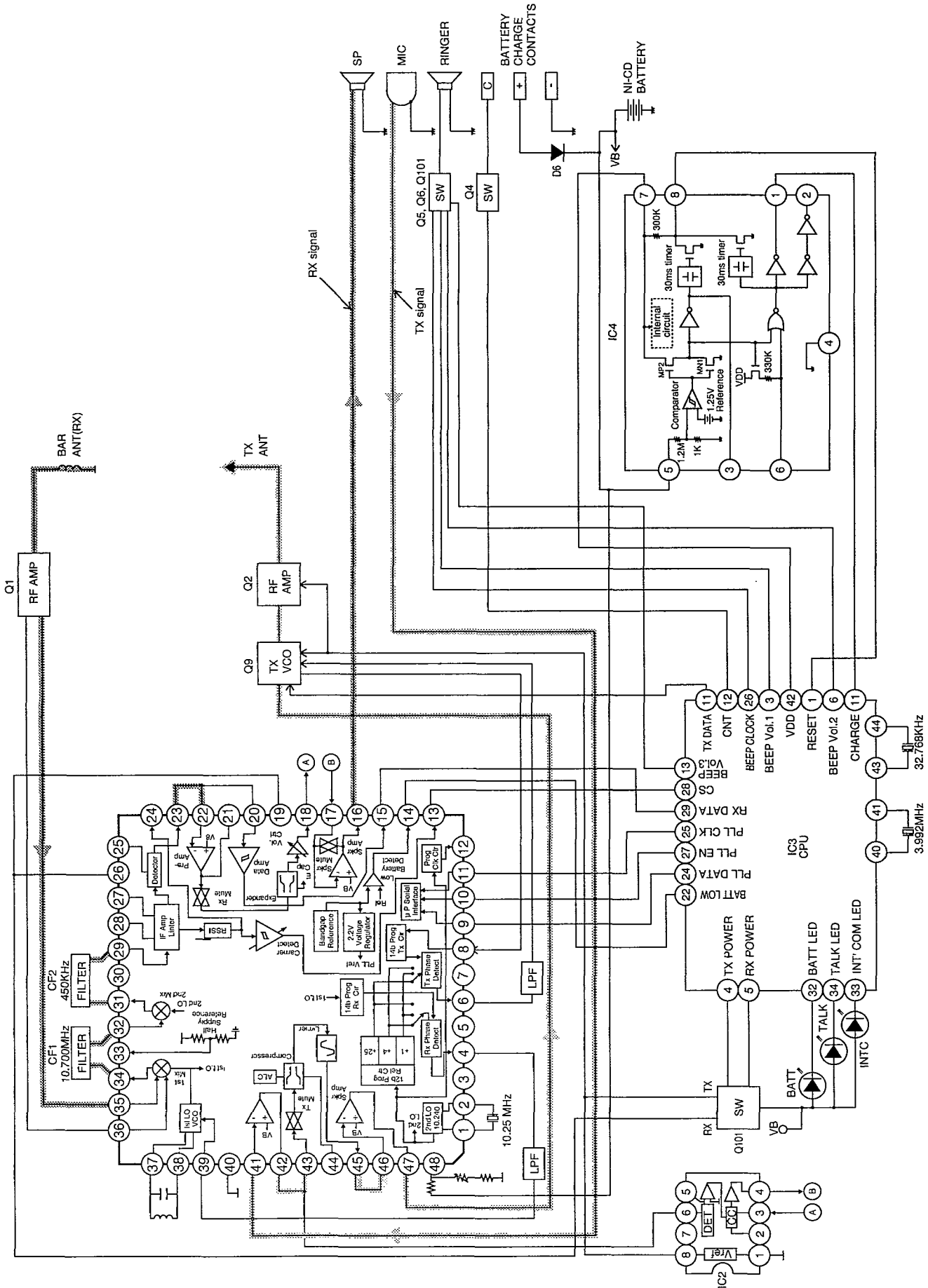


In areas where the transmission power from the portable handset is extremely weak, noise is superimposed on the data and the chance of an error can become extremely great upon reception of the data. To help prevent this, the above circuit is used.

BLOCK DIAGRAM (KX-T4026ER)



BLOCK DIAGRAM (KX-T4046ER)



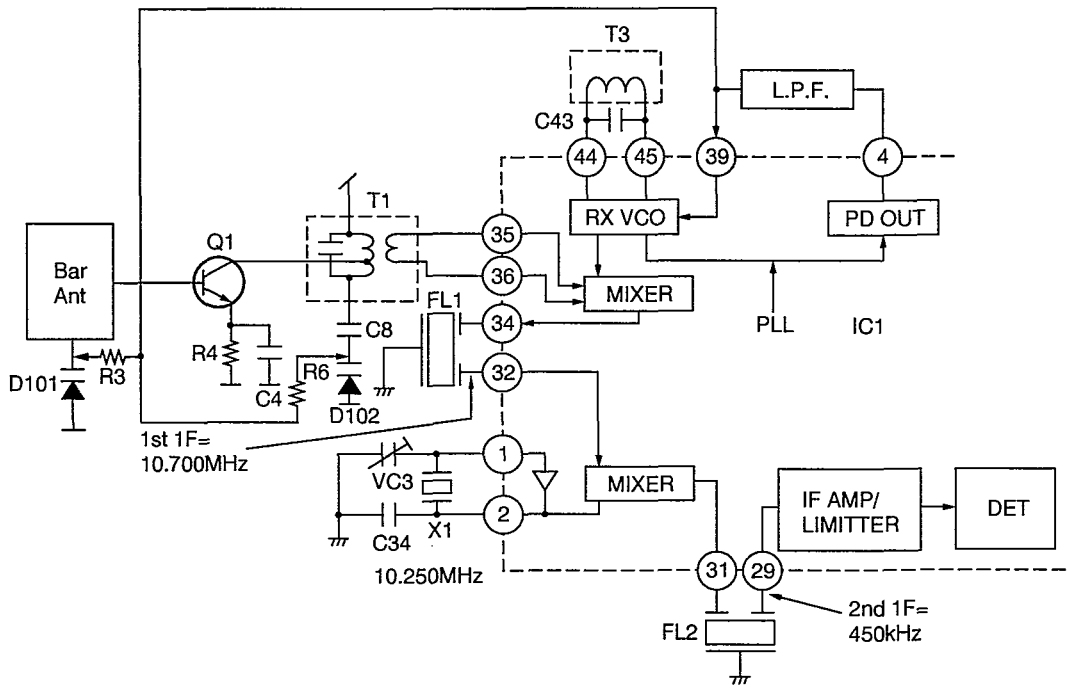
NEW CIRCUIT OPERATION (KX-T4026ER/KX-T4046ER)

■ RECEIVER RF IF CIRCUIT

Circuit Operation:

The signal of 1.7 MHz band (1.642 MHz~1.782MHz) which is input from BAR ANT, passes through filtered Amp of 1.7 MHz band at T1 and Q1, and is input to Pin 35 and Pin 36 of IC1.
The RX VCO which oscillates at T3 and IC1 is locked to 1st Local frequency by PLL inside IC1. (PLL is controlled by serial data output from Pin 24, 27 and 25 of IC3.)
An input signal from Pin 35 and 36 of IC1 and 1st Local frequency output from RX VCO are mixed inside IC1, pass through FL1 , and 1st IF frequency of 10.700 MHz is generated.
Further, 10.250 MHz and 10.700 MHz oscillated at X3 pass through MIXER inside IC1 and are filtered at FL2 and output 2nd IF 450 kHz.

Circuit Diagram

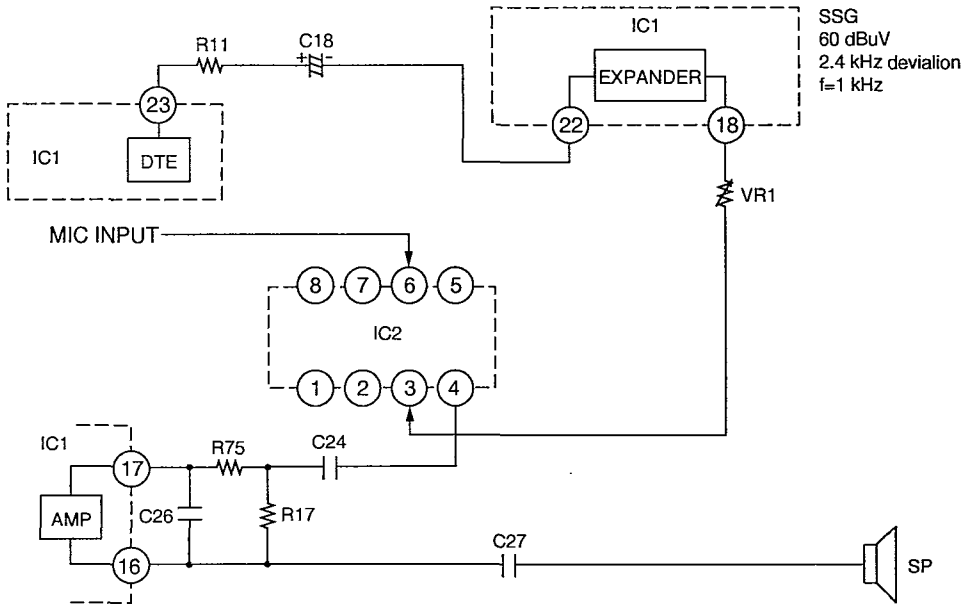


■ RECEIVER SIGNAL CIRCUIT

Circuit Operation:

1. PLL CONTROL (CH, REFERENCE, COUNTER) are all controlled by serial data output from Pins 24, 25 and 27 of IC3.
2. A detected signal output from Pin 23 of IC1, passes through R11, C18 and L.P.F., then it is input to Pin 22 of IC1 (EXPANDER.)
3. An output signal of Expander (Pin 18 of IC1) is input to Pin 3 of IC2. IC2 drops a signal level 6 dB only when MIC input signal comes into Pin 6 of IC2 to improve the sidetone.
4. Next, it passes through SP Amp (between Pin 17 and Pin16 of IC1), and is output to speaker.

Circuit Diagram



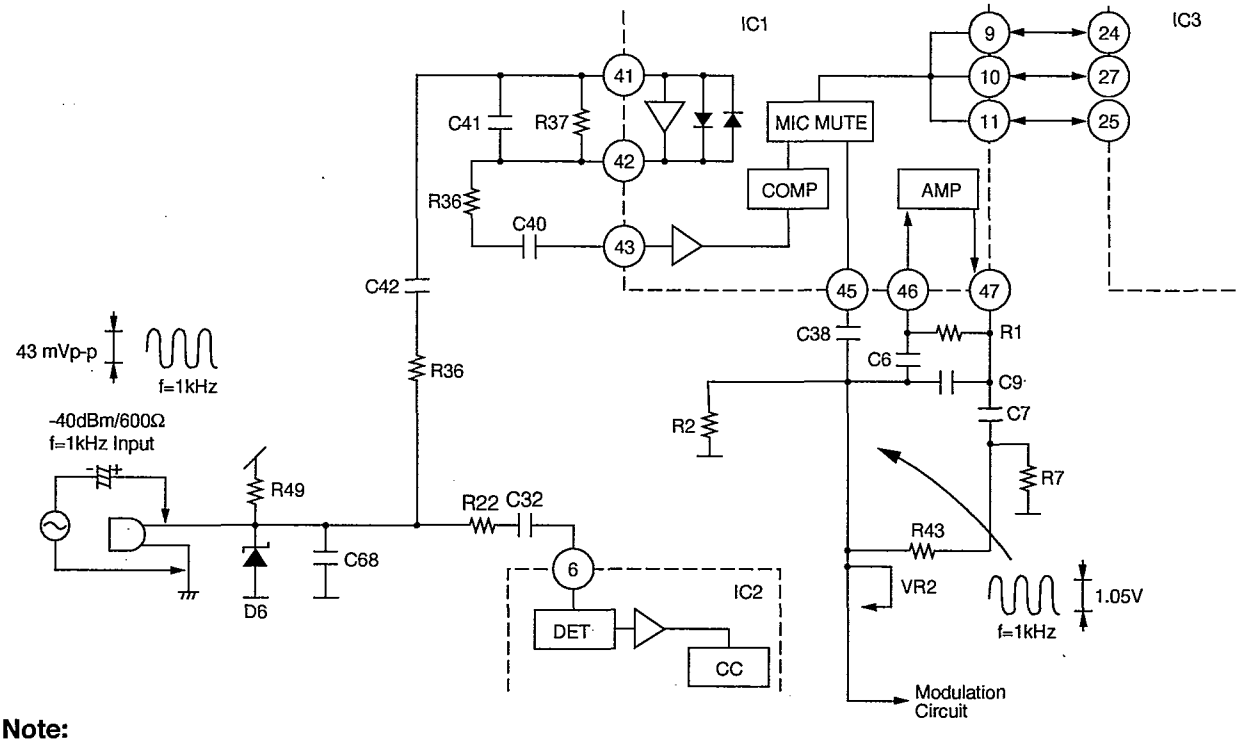
Note : When applying the S.S.G. input level of reception 60 dBμV (2.4kHz deviation, f=1kHz) from the antenna, a all waveform are measured.

■ TRANSMITTER SIGNAL CIRCUIT

Circuit Operation:

1. Input signal from MIC passes through R36, C42 and is input to Pin 41 of IC1, passes through ALC. AMP Limitter, and is output to Pin 42.
2. Next, it passes through R36, C40 and is input to Pin 43 of IC1, then passes through COMPRESSOR, and is output to Pin 47.
3. An output signal from Pin 47 passes through C7 and VR2, and is input to modulator circuit.

Circuit Diagram



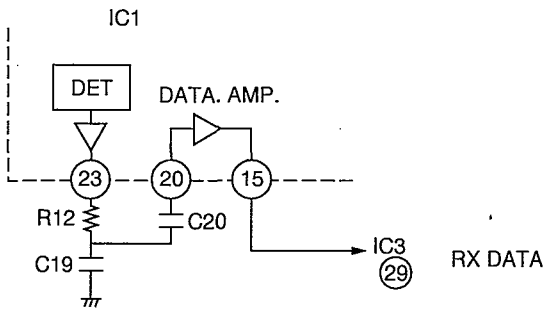
Note:
When measuring the waveform, apply the OSC Signal from microphone. [When this value (33 mVpp) is input from the OSC and voice/sounds are output from the microphone, it is necessary for R49 to supply DC voltage to the microphone.]

■ RECEIVER DATA CONTROL CIRCUIT

Circuit Operation:

The received signal that is output from Pin 23 of IC1 passes through a low pass filter and is input to Pin 20 of IC1 where the waveform is adjusted. The resulting signal is output from Pin 15 and input to Pin 29 of CPU.

Circuit Diagram



■ BATTERY DETECTOR CIRCUIT

Circuit Operation:

When the battery voltage goes down and the rest of operating time becomes short, it is detected by IC1 and Pin 22 of IC3 turns low level. Then Battery Low LED flashes and the alarm sounds Intermittently.

NORMAL CIRCUIT OPERATION (KX-T4026ER/KX-T4046ER)

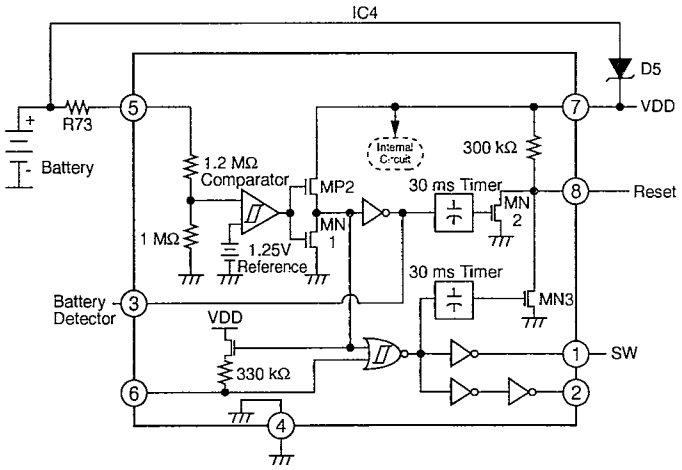
■ CPU OPERATION

CPU Terminals / Operation Mode	14 TX DATA	5 RX POW	4 TX POW	26 BEEP OUT	33 INT' COM LED	34 TALK LED
KX-T4026E/KX-T4046E						
STANDBY	L	H/L	H	H	H	H
TALK	L	L	L	H	H	L
INTERCOM	L	L	L	H	L	H
4026EH→4026ER 4046EH→4046ER Ring	—	L	H	⎍⎍	H	FLASHING
4026EH→4026ER 4046EH→4046ER Paging	—	L	H	⎍⎍	FLASHING	H
CHARGE	L	H	H	H	H	H
During (INTCOM)	—	L	L	H	L	H
During (TALK)	—	L	L	H	H	L
4026ER 4046ER PULSE DIAL	DATA	L	L	—	H	FLASHING (4026ER) L (4046ER)
4026ER 4046ER TONE DIAL	DATA	L	L	—	H	L
4026ER 4046ER OFF MODE	L	H	—	H	H	H
KX-T4046E Only						
4046ER→4046EH Paging	DATA	L	L	⎍⎍	FLASHING	H

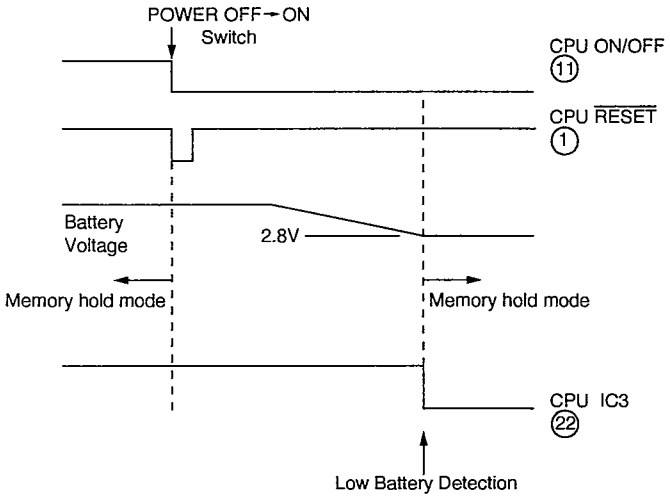
■ RESET CIRCUIT POWER ON/OFF CIRCUIT

Reset circuit
The reset signal is input to Pin 1 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



Timing Chart



RF SPECIFICATION (KX-T4046E)

BASE UNIT (KX-T4046EH)

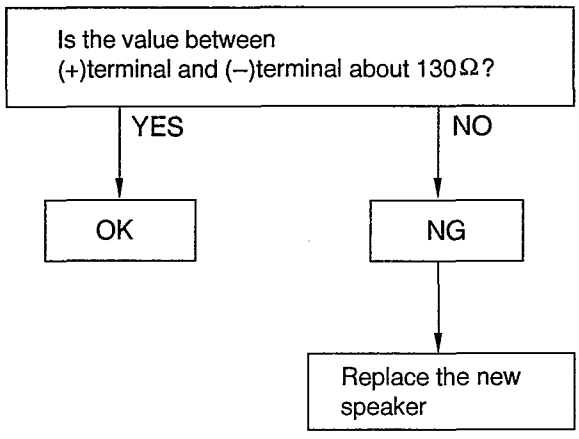
Item	Value	Refer to —.	Remarks
TX Frequency	1.702 MHz ± 200 HZ	Page 19 (C)	at CH4
TX Power	At a peak	Page 19 (D)	
TX Modulation factor	2.2 kHz ~ 2.6 kHz	———	
TX Modulation Distortion	Less than 10%	———	
TX Max. Modulation factor	4.0 kHz	———	
Data Modulation factor	2.0 kHz ~ 4.5 kHz	———	

Portable Handset (KX-T4046ER)

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 31 (D)	at CH4
TX Output	300 mV ~ 700 mV	Page 31 (E)	at CH4 (Antenna soldering point 50Ω Load)
Data Modulation factor	1.5 kHz/dev ~ 2.5 kHz/dev	Page 32 (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-T4046E)

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. 7.
3.



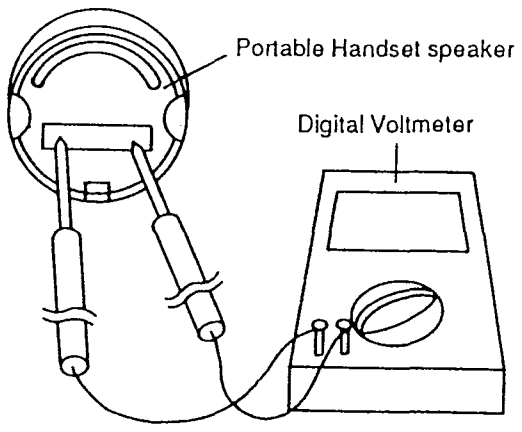


Fig. 7.

HOW TO REPLACE FALT 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℃)

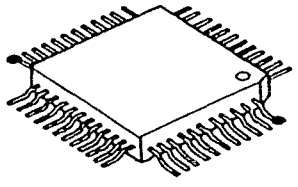
(An expert may handle 60~80 W iron, but beginner might damage foil by overheating.)

· Flux - - - - - - - - - - - HI115 Specific gravity 0.863

(Original flux will be replaced daily.)

■ PROCEDURE

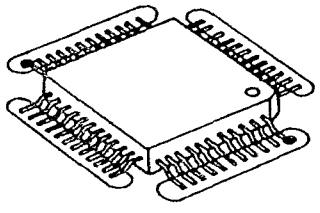
1. Temporary fix FLAT PACKAGE IC by soldering on two marked 2 pins.



●- - - - - -Temporary soldering point.

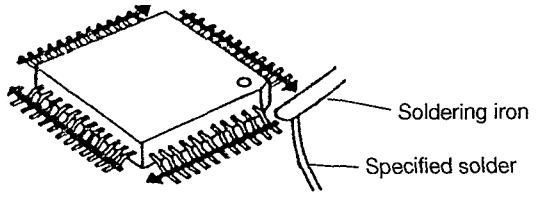
*Most important matter is accurate setting of IC to the corresponding soldering foil.

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



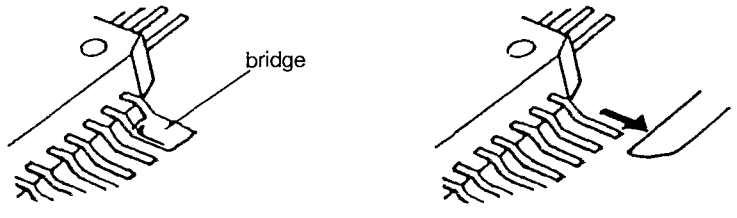
- - - - - Flux

3. Solder employing specified solder to direction of arrow, as sliding the soldering iron.



■ 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-T4026E/KX-T4046E)

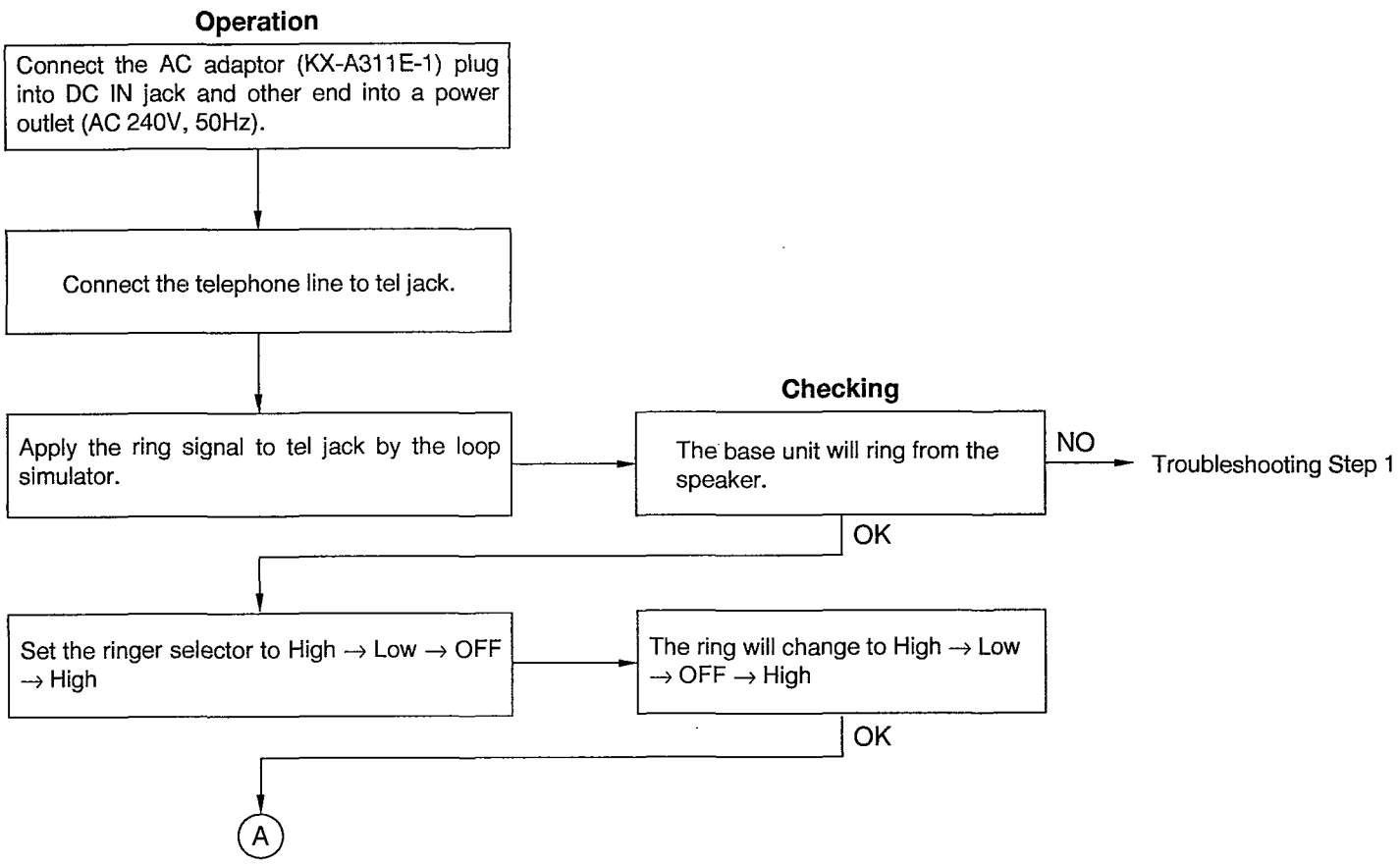
Symptom	Refer to page —.	Unit for repair
KX-T4026E/KX-T4046E		
The base unit does not receive a call from portable handset.	19, 20	Base Unit
The base unit does not transmit, and the transmit frequency is slipped.		
The transmit frequency is slipped.		
The transmit output is low, and the arrival distance 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.	64	
The movement of Battery Low indicator is wrong.	31, 32	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 occured.		
Does not link between base unit and portable handset.		
The beep is not heard from portable handset.	65	
The TALK indicator does not flash.	66	
KX-T4026E Only		
The IN USE/CHARGE indicator of base unit does not flash.	61	Base Unit
The IN USE/CHARGE indicator does not flash.	65	
KX-T4046E Only		
The base unit does not ring from the speaker.	64	Base Unit
The base unit does not seize the telephone line.	64	
Hold function of base unit does not work.	64	
The movement of Battery Low indicator is wrong. The base unit does not receive a call from portable handset.	31, 32	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 occured.		
Does not link between base unit and portable handset.		
The PAGE/INTERCOM indicator does not flash.	68	
The unit does not become the intercom mode.	69	

TROUBLESHOOTING GUIDE (KX-T4026EH)

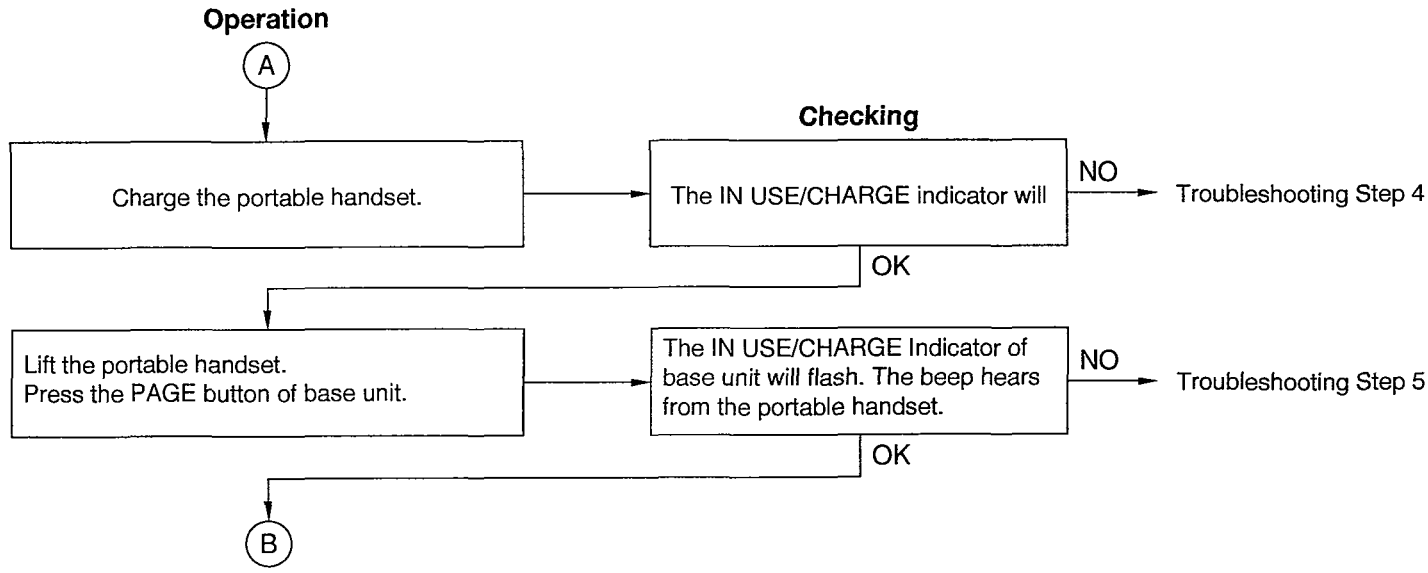
1. Set the ringer selector to "High".
2. Set the dialling mode selector to "Tone".

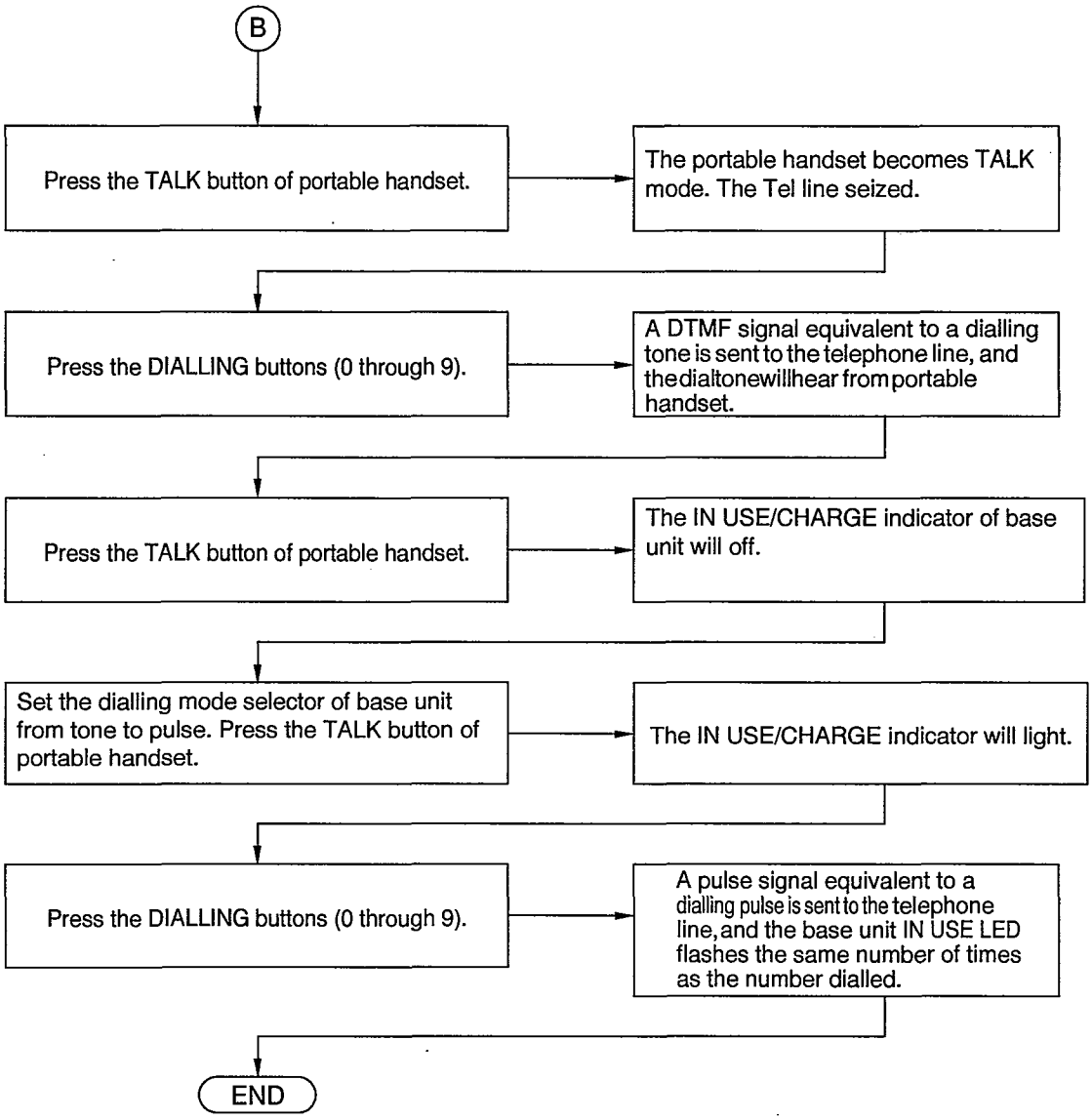
When checking the base unit only

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



When checking the base unit and portable handset

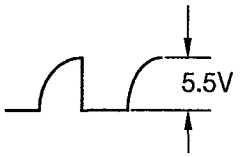




The IN USE/CHARGE indicator of base unit does not flash

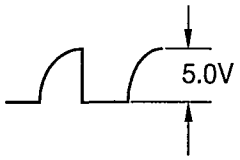
Check the ring detector circuit.

Check point
1) Pin 4 of PC3 output voltage.



Check IC1 (CPU).

Check point
1) Pin 7 of IC1 ring input voltage.



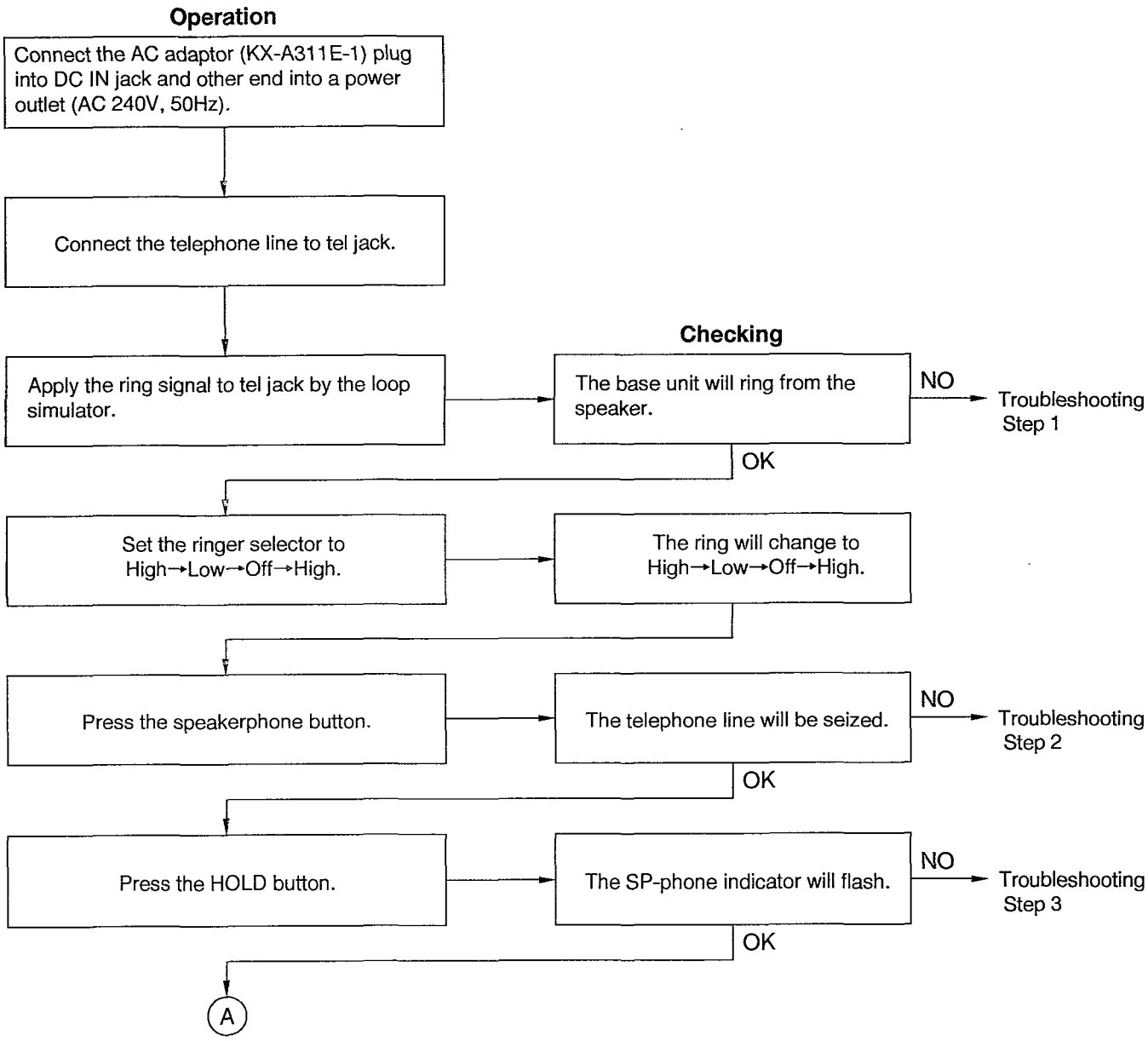
TROUBLESHOOTING GUIDE (KX-T4046EH)

Base Unit Condition:

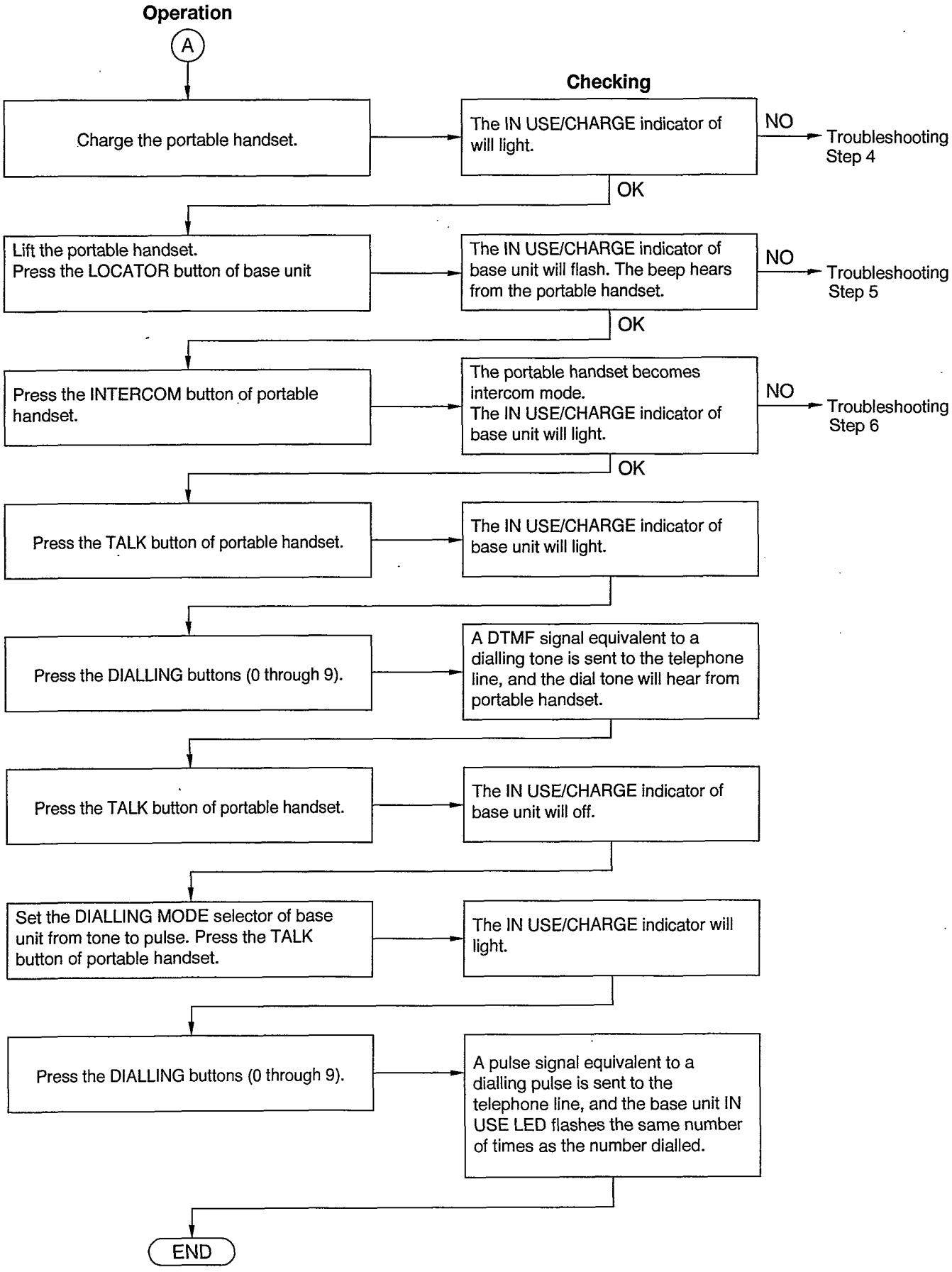
1. Set the ringer selectors to "High".
2. Set the volume button to "MAX".
3. Set the dialling mode selector to "Tone".

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

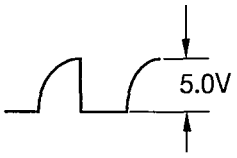


TROUBLESHOOTING GUIDE (KX-T4026EH/KX-T4046EH)

Troubleshooting Step 1: **The base unit does not ring from the speaker.**

Check the ring detector circuit.

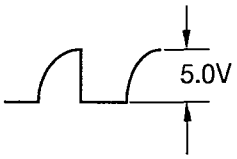
Check point
1) Pin 4 of PC3 output voltage.



↓

Check IC3 (CPU).

Check point
1) Pin 7 of IC3 ring input voltage.



Troubleshooting Step 2: **The base unit does not seize the telephone line. (KX-T4046EH Only)**

Check the relay circuit.

Check point
1) Is the Base of Q29 at a low logic level?

↓

Check IC3 (CPU).

Check point
1) Is the pin 55 of IC3 at a low logic level?

Troubleshooting Step 3: **Hold function of the base unit does not work. (KX-T4046EH)**

Check the ring detector circuit.

Check point
1) Is the pin 4 of PC1 at a low logic level?

↓

Check IC3 (CPU).

Check point
1) Is the pin 19 of IC3 at a low logic level?

Troubleshooting Step 4: **The CHARGE indicator does not light.**

Check the charge detector circuit.

Check points
1) Is the pin 33 of IC3 at a high logic level?

2) Is the pin 48 of IC3 at a low logic level?

↓

Check DS1 (CHARGE LED).

Troubleshooting Step 5:

1) The IN USE/CHARGE indicator does not flash. (KX-T4026EH/KZ-T4046EH)

Check IC1 (CPU).

↓

Check DS1.

Check points
1) Is the pin 48 of IC1 (IN USE/CHARGE output) at a low logic level?

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

Check the data transmission during charge mode.

↓

Check the modulation circuit (D33).

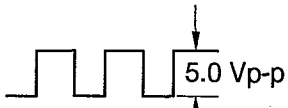
↓

Check the oscillation circuit

↓

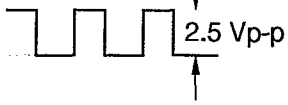
Check the transmitter amplifier.

Check points
1) Pin 27 of IC1 data output voltage



Check during Charge mode

2) Collector of Q24 output voltage



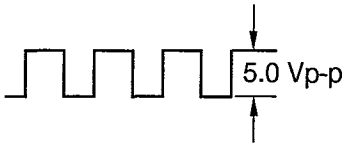
Check points
1) Is the base of Q13 (TX VCO) 2V?
2) Is the pin 6 of IC2 (PLL) 1.7V (at 8ch)?

Check point
1) Is the base of Q10 (Final power amplifer) 2V?

Troubleshooting Step 6: **The portable handset does not become the intercom mode. (KX-T4046EH Only)**

Check the receiver circuit

Check point
Pin 5 of IC1
RX data output voltage



Check during page mode of portable handset.

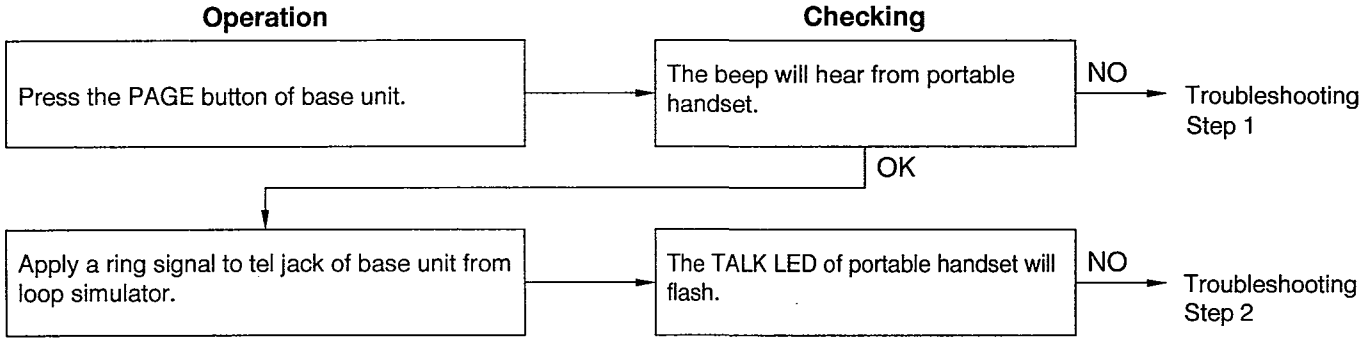
TROUBLESHOOTING GUIDE (KX-T4026ER)

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-A311E-1) plug into DC IN jack and the other end into a power outlet (AC 240V, 50 Hz).
2. Connect the loop simulator (DC 48V) to tel jack.

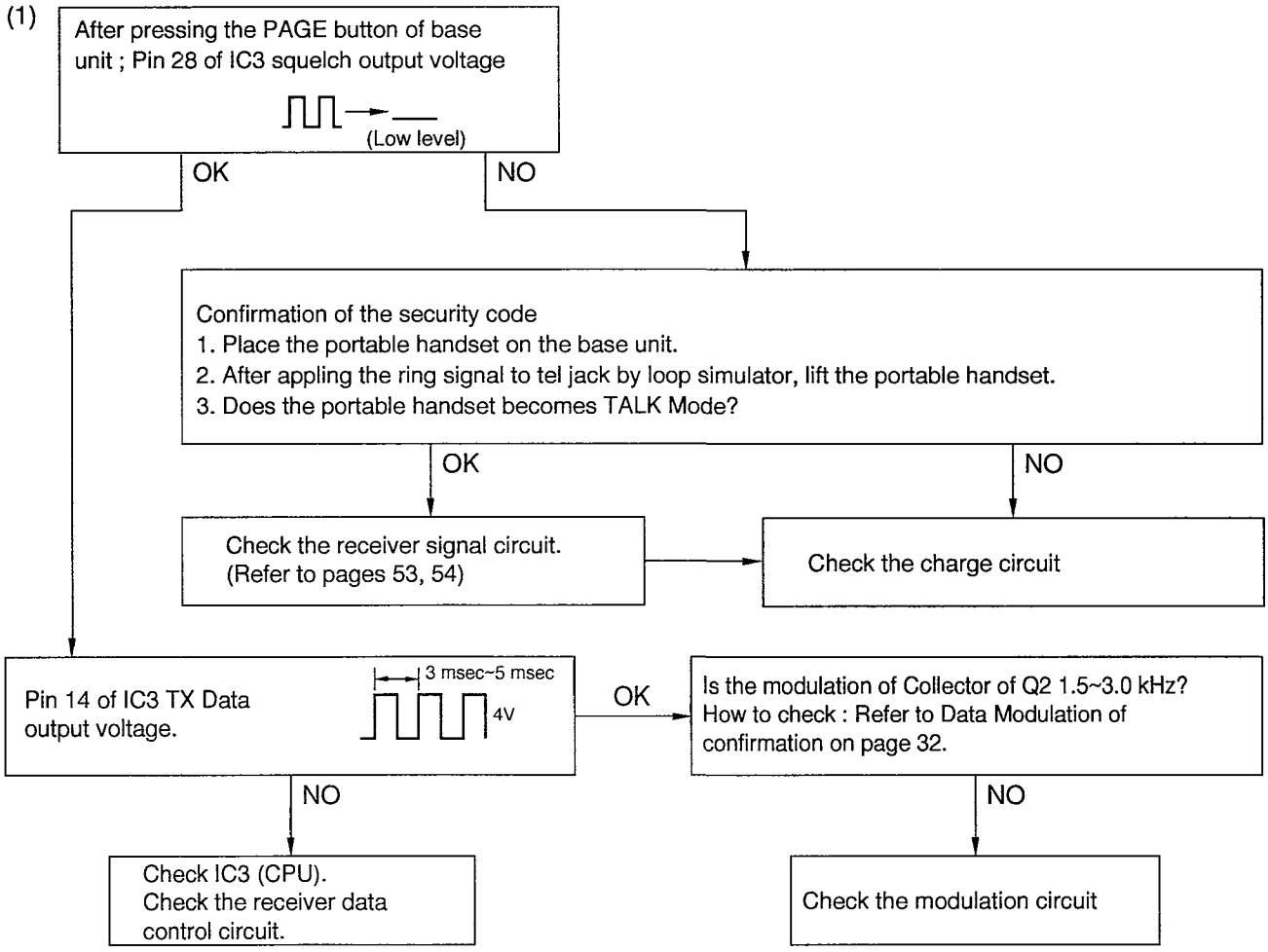
Check the portable handset as shown by following below flow chart.



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

Check points

(1)



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 55.

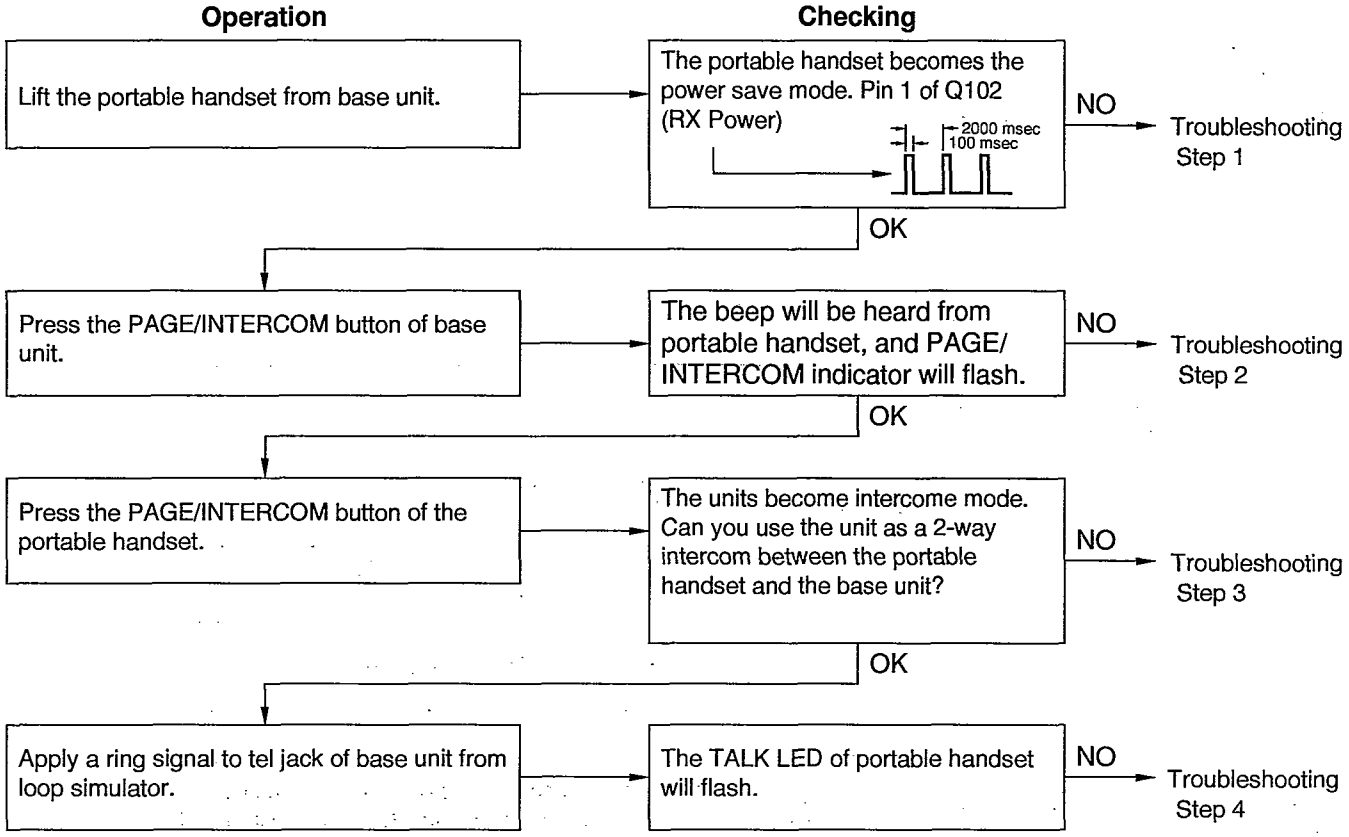
TROUBLESHOOTING GUIDE (KX-T4046ER)

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-A311E-1)** plug into DC IN jack and the other end into a power outlet (AC 240V, 50 Hz).
2. Connect the loop simulator (DC 48V) to tel jack.

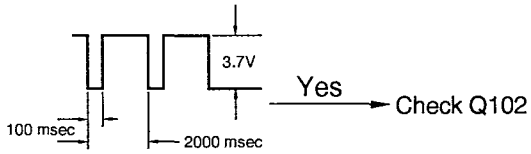
Check the portable handset as shown by following below flow chart.



Troubleshooting Step 1: **The portable handset does not become battery save mode.**

Check point

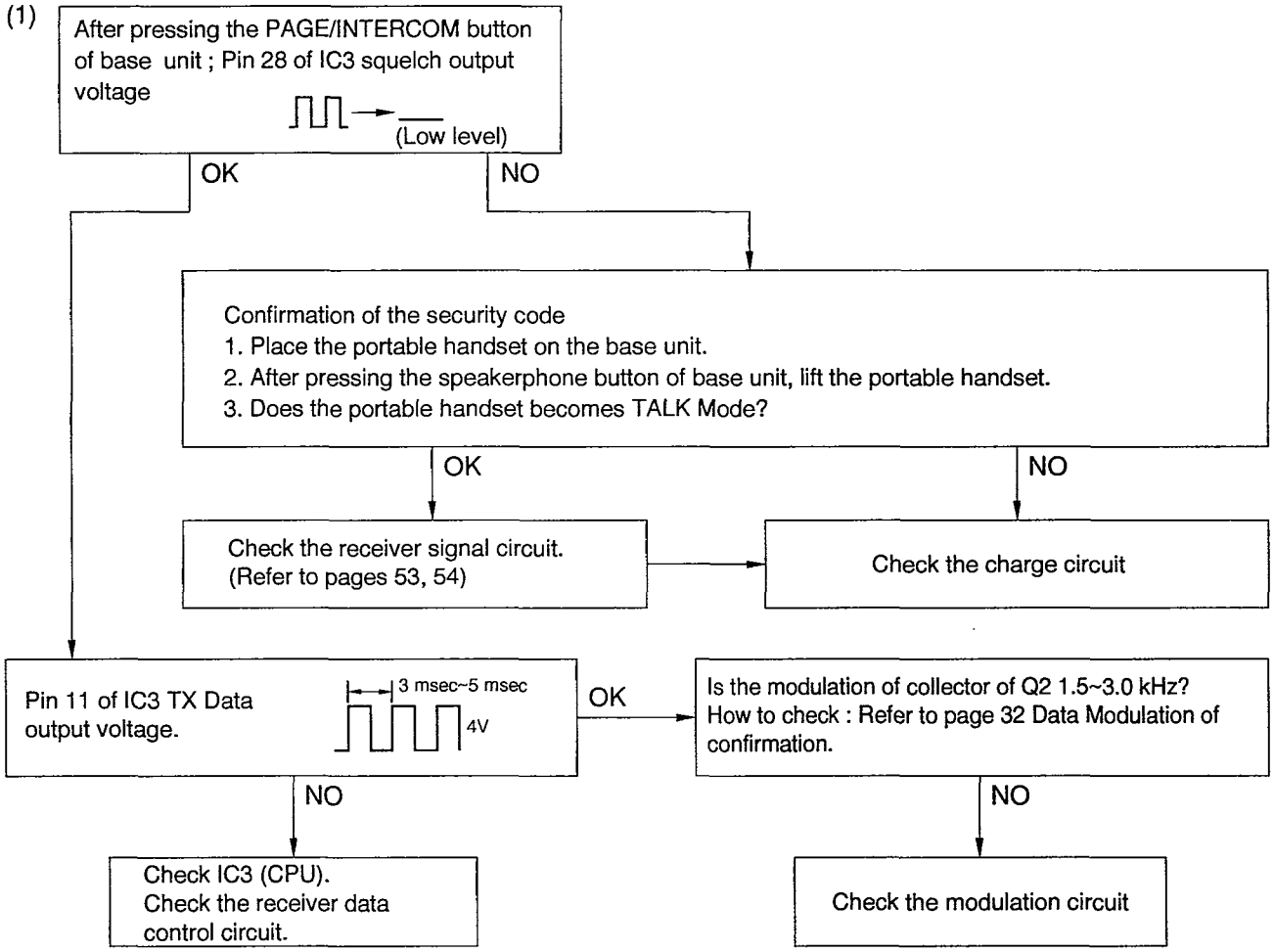
(1) Pin 5 of IC3
RX power output voltage



Troubleshooting Step 2: **The PAGE/INTERCOM indicator does not flash.**

Check points

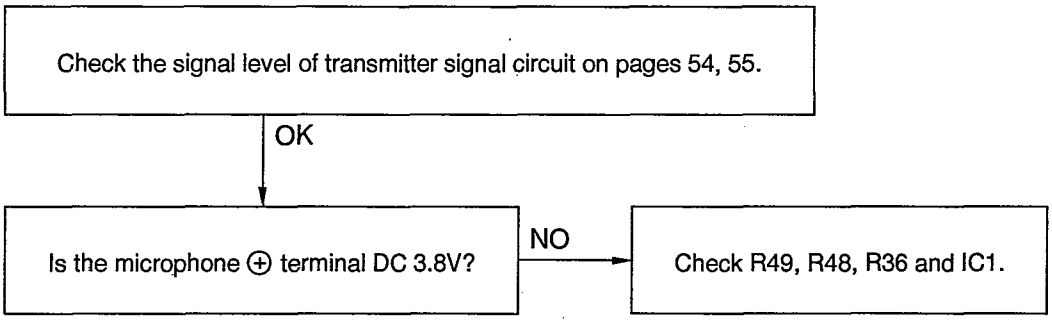
(1)



Troubleshooting Step 3: **The unit does not become intercom mode.**

Check Points

(1)



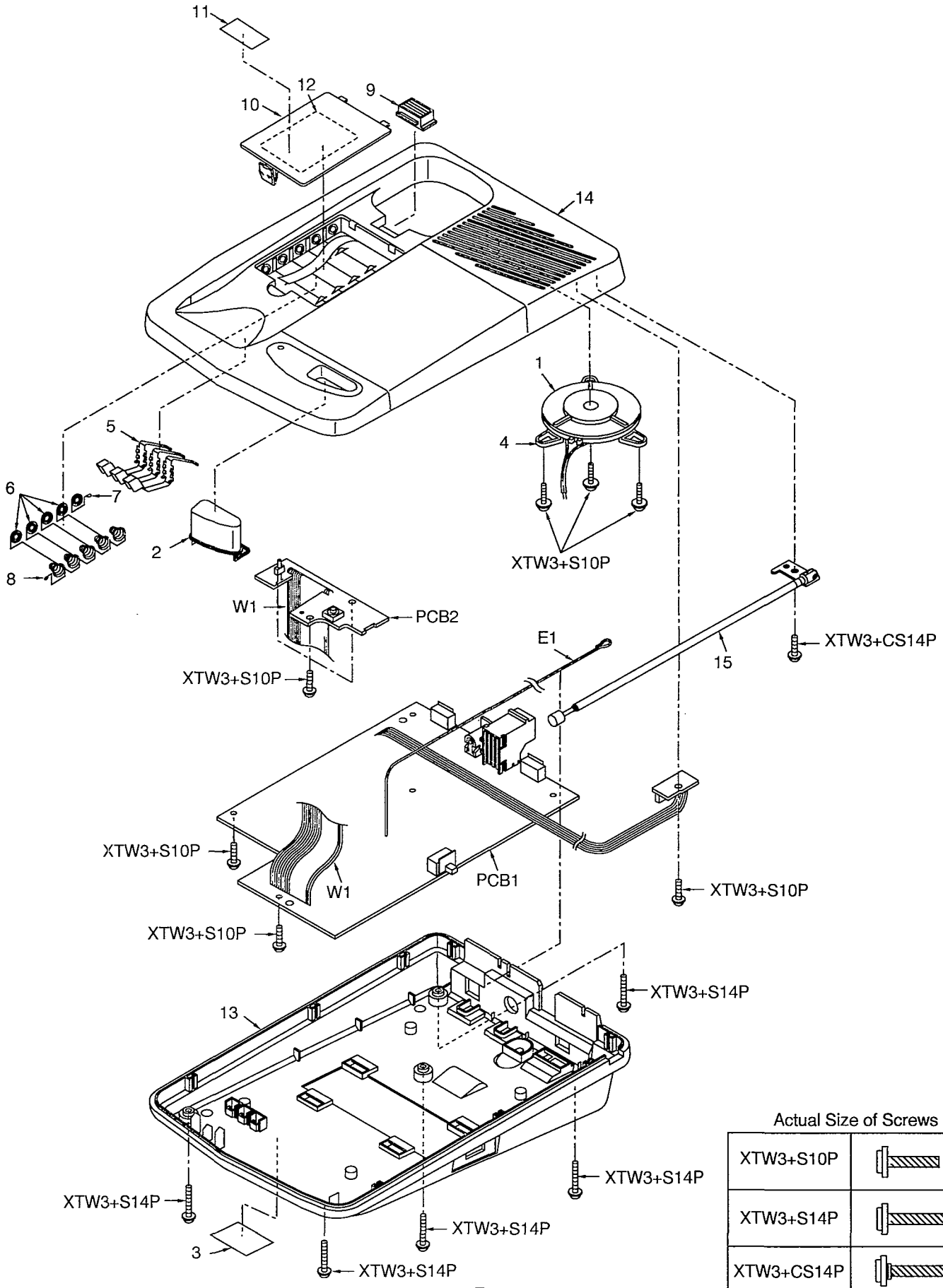
(2) Check the signal level of receiver signal circuit on pages 53, 54.

Troubleshooting Step 4: **The TALK indicator does not flash (Check the data reception).**

Check Point

(1) Check the signal level of receiver data control circuit on page 55.

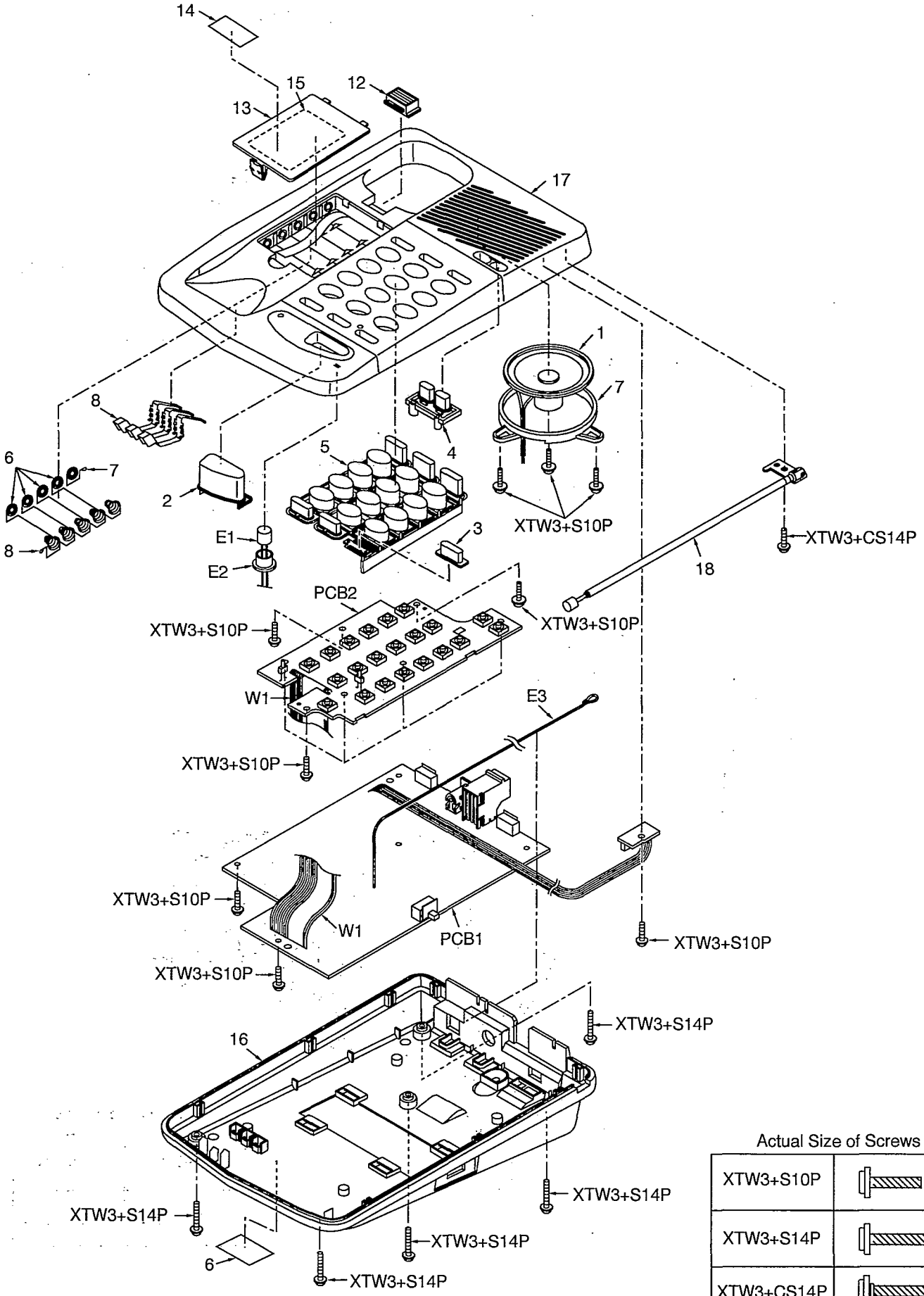
CABINET AND ELECTRICAL PARTS LOCATION (KX-T4026EH)



Actual Size of Screws

XTW3+S10P	
XTW3+S14P	
XTW3+CS14P	

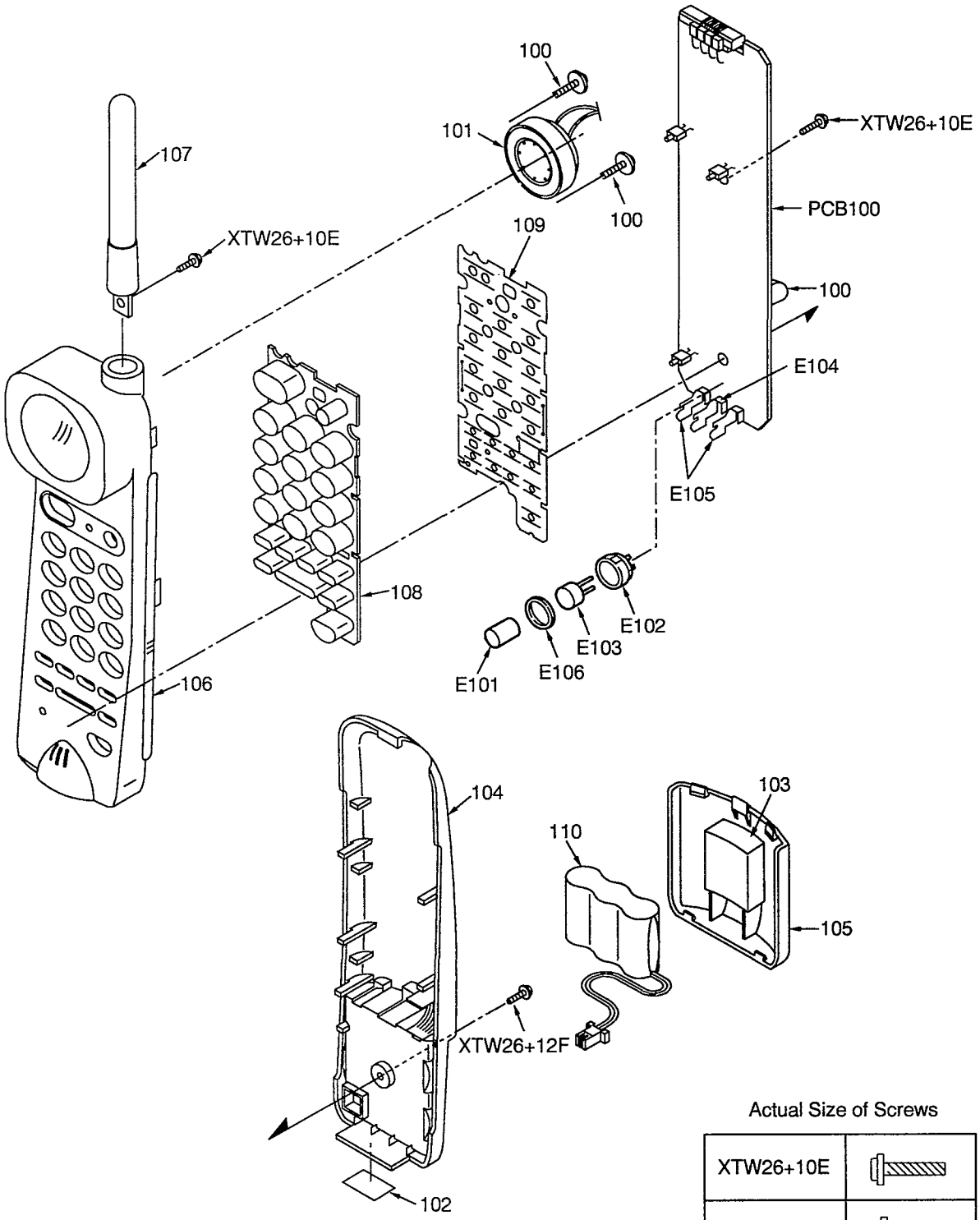
CABINET AND ELECTRICAL PARTS LOCATION (KX-T4046EH)



Actual Size of Screws

XTW3+S10P	
XTW3+S14P	
XTW3+CS14P	

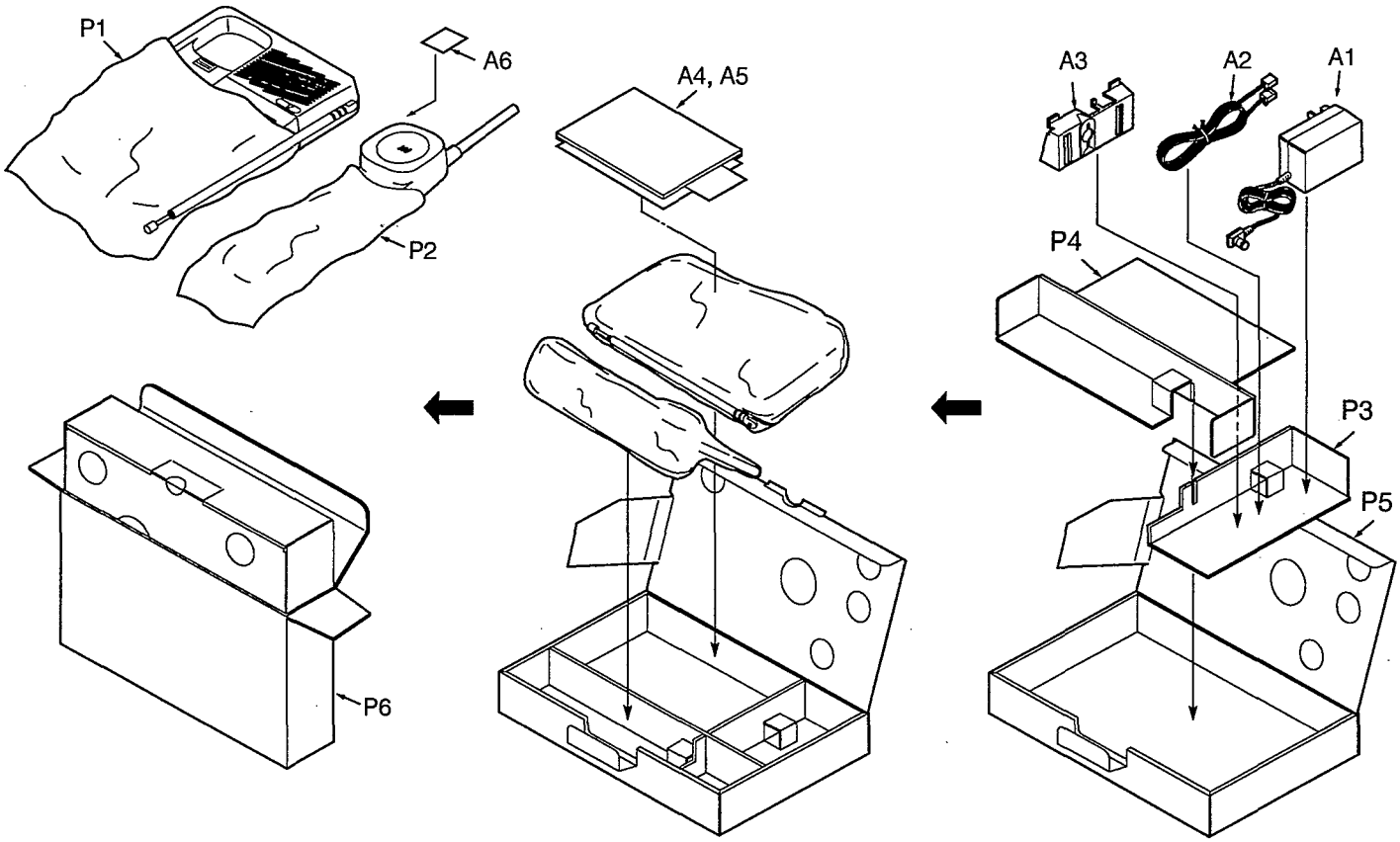
CABINET AND ELECTRICAL PARTS LOCATION (KX-T4026ER/KX-T4046ER)



Actual Size of Screws

XTW26+10E	
XTW26+12F	

ACCESSORIES AND PACKING MATERIALS (KX-T4026E/KX-T4046E)



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

REPLACEMENT PARTS LIST

Model KX-T4026EH

1. RTL (Retention Time Limited)

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

2. Important safety notice
   Components identified by the ⚠ mark indicates special characteristics important for safety. When replacing any of these components, only use specified manufacturer's 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=1000Ω, M=1000KΩ
   All capacitors are in MICRO FARADS (μF) P=μμF
   *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

*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
		CABINET & ELECTRICAL PARTS		
1	EFBS19C01	BUZZER	S	1
2	PQBC10229Z2	BUTTON, HANDSET LOCATOR	S	1
3	PQGT12865Z	NAME PLATE	⚠	1
4	PQHR10520Z	BUZZER COVER		1
5	PQJT10100Z	BATTERY CHARGETERMINAL		3
6	PQJT10123Z	BATTERY TERMINAL		4
7	PQJT10124Z	BATTERY TERMINAL		1
8	PQJT10125Z	BATTERY TERMINAL		1
9	PQKE10059Z2	HANGER	S	1
10	PQKK10075Z2	BATTERY COVER	S	1
11	PQQT11382Z	CAUTION LABEL		1
12	PQQT11383Z	CAUTION LABEL		1
13	PQYF10102Z2	LOWER CABINET	S	1
14	PQYMT4026EH	UPPER CABINET ASS'Y		1
15	XEAPQK170D	ANTENNA		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		MAIN P.C.BOARD PARTS		
PCB1	PQWP1T4026EH	P.C.BOARD ASS'Y (RTL)	⚠	1
		(ICS)		
IC1	MN150832KKAE	IC		1
IC2	PQVIMC13109F	IC		1
IC3	PQVIT4069UBF	IC	S	1
IC4	PQVINJM4558M	IC		1
IC6	PQVINJM4558M	IC		1
		(TRANSISTORS)		
Q 1	2SK543	TRANSISTOR(SI)		1
Q 2	2SD601A	TRANSISTOR(SI)		1
Q 3	2SD601A	TRANSISTOR(SI)		1
Q 4	PQVTKSD261CY	TRANSISTOR(SI)		1
Q 6	2SD601A	TRANSISTOR(SI)		1
Q 7	2SD2136	TRANSISTOR(SI)		1
Q 8	2SD1994A	TRANSISTOR(SI)		1
Q 9	2SD601A	TRANSISTOR(SI)		1
Q10	2SC3421	TRANSISTOR(SI)		1
Q11	2SD601A	TRANSISTOR(SI)		1
Q12	PQVTMSC2295C	TRANSISTOR(SI)		1
Q13	2SC2295	TRANSISTOR(SI)	S	1
Q14	2SD601A	TRANSISTOR(SI)		1
Q15	2SD601A	TRANSISTOR(SI)		1
Q24	2SC1740S	TRANSISTOR(SI)		1
Q25	2SC1740S	TRANSISTOR(SI)		1
Q27	2SC1740S	TRANSISTOR(SI)		1
Q28	2SD601A	TRANSISTOR(SI)		1
Q29	2SA1627	TRANSISTOR(SI)		1
Q30	2SB1322	TRANSISTOR(SI)		1
Q32	2SB709A	TRANSISTOR(SI)		1
Q33	2SD601A	TRANSISTOR(SI)		1
Q34	PQVTFB1A4M	TRANSISTOR(SI)		1
		(DIODES)		
D 1	1SS314	DIODE(SI)		1
D 2	1SS120	DIODE(SI)		1
D 4	1SS120	DIODE(SI)		1
D 5	1SS120	DIODE(SI)		1
D 6	1SS120	DIODE(SI)		1
D 7	MA701	DIODE(SI)		1
D 8	1SS120	DIODE(SI)		1
D 9	MA4100	DIODE(SI)		1
D10	1SS120	DIODE(SI)		1
D16	1SS120	DIODE(SI)		1
D17	MA701	DIODE(SI)		1
D18	1SS120	DIODE(SI)		1
D19	1SS120	DIODE(SI)		1
D20	1SS120	DIODE(SI)		1
D21	1SS120	DIODE(SI)		1
D22	MA4270	DIODE(SI)		1
D23	MA4033	DIODE(SI)		1
D24	MA4068	DIODE(SI)		1
D25	MA4056	DIODE(SI)		1

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

Ref. No.	Part No.	Part Name & Description	Pcs/Set
D27	MA4330M	DIODE(SI)	1
D28	MA4330M	DIODE(SI)	1
D29	MA4330M	DIODE(SI)	1
D30	PQVDDF04S	DIODE(SI)	1
D31	PQVDDF04S	DIODE(SI)	1
D32	PQVD1SV149	DIODE(SI)	1
D33	PQVDMV2109	DIODE(SI)	1
D34	1SS120	DIODE(SI)	1
		(CERAMIC FILTERS)	
FL1	PQVCM107M7.5	CERAMIC FILTER	1
FL2	PQVFCFW450G	CERAMIC FILTER S	1
			1
			1
		(COILS AND TRANSFORMAERS)	
L 1	PQLQZK1R5K	COIL	1
L 2	PQLQZK101K	COIL	1
L 3	PQLQZK8R2K	COIL	1
L 4	PQLQZK330KT	COIL	1
L 5	PQLQZM1R0K	COIL	1
L 7	PQLQZK330KT	COIL	1
L 8	PQLQZK1R0K	COIL	1
L 9	PQLQZM100K	COIL	1
L10	PQLQZM100K	COIL	1
L11	PQLQZM100K	COIL	1
L12	PQLQZI154J	COIL	1
T 1	PQLA7A17	COIL	1
T 2	PQLA7A33	COIL	1
T 3	PQLA7A11	COIL S	1
T 4	PQLI2B201	I.F. TRANSFORMER	1
T 5	PQLA2B5	COIL	1
T 6	PQLA2B6	COIL	1
T 7	PQLA7A11	COIL S	1
T101	PQLT8F14A	TRANSFORMER ⚠	1
T102	PQLT8F14A	TRANSFORMER ⚠	1
		(CRYSTALS)	
X1	PQVCJ10250N5	CRYSTAL OSCILLATOR	1
X2	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	1
		(PHOTO COUPLERS)	
PC2	PQVITLP627	PHOTO ELECTRIC TRANSDUCER ⚠	1
PC3	PQVIPC814Y	PHOTO ELECTRIC TRANSDUCER ⚠	1
PC4	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER ⚠	1
		(SWITCHES)	
SW1	PQSS2A27W	SWITCH, DIALLING MODE SELECTOR	1
SW2	PQSS2A27W	SWITCH, RECALL SELECTOR	1
SW3	PQSS3A17W	SWITCH, RINGER SELECTOR	1
		(VARIABLE RESISTORS)	
VR1	EVNDXAA03B25	VARIABLE RESISTOR	1
VR2	EVNDXAA03B15	VARIABLE RESISTOR	1

Ref. No.	Part No.	Part Name, Description, & Value	Pcs/Set
		(OTHERS)	
E1	PQJA215Z	WIRE ANTENNA	1
JJ1	PQJJ2H002Z	JACK, TELEPHONE LINE, DC IN	1
K1	PQSL107Z	RELAY ⚠	1
P01	PQRPAR390N	THERMISTOR	1
SA1	PQVDRA311PT3	VARISTOR S	1
VC1	ECRLA030E53	TRIMMER CAPACITOR	1
W1	WBJ13SW-7SS	LEAD 13PIN	1
		(RESISTORS)	
R 1	PQ4R10XJ181	180	1
R 2	ERDS2TJ101	100	1
R 4	PQ4R10XJ470	47	1
R 5	PQ4R10XJ470	47	1
R 6	PQ4R10XJ152	1.5K	1
R 7	PQ4R10XJ203	20K	1
R 8	ERDS2TJ102	1K	1
R 9	PQ4R10XJ223	22K	1
R10	PQ4R10XJ223	22K	1
R11	PQ4R10XJ103	10K	1
R12	ERDS2TJ223	22K	1
R13	PQ4R10XJ153	15K	1
R15	PQ4R10XJ104	100K	1
R16	PQ4R10XJ334	330K	1
R18	PQ4R10XJ103	10K	1
R19	PQ4R10XJ153	15K	1
R20	PQ4R10XJ154	150K	1
R21	PQ4R10XJ103	10K	1
R22	PQ4R10XJ103	10K	1
R23	PQ4R10XJ103	10K	1
R24	PQ4R10XJ103	10K	1
R25	PQ4R10XJ000	0	1
R26	PQ4R10XJ563	56K	1
R27	PQ4R10XJ103	10K	1
R28	PQ4R10XJ104	100K	1
R38	PQ4R10XJ104	100K	1
R39	PQ4R10XJ104	100K	1
R40	PQ4R10XJ103	10K	1
R45	PQ4R10XJ472	4.7K	1
R46	PQ4R10XJ472	4.7K	1
R47	PQ4R10XJ103	10K	1
R48	PQ4R10XJ103	10K	1
R49	PQ4R10XJ103	10K	1
R50	PQ4R10XJ103	10K	1
R51	PQ4R10XJ152	1.5K	1
R52	PQ4R10XJ152	1.5K	1
R54	PQ4R10XJ333	33K	1
R57	PQ4R10XJ332	3.3K	1
R58	PQ4R10XJ102	1K	1
R59	PQ4R10XJ221	220	1
R60	PQ4R10XJ102	1K	1

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Ref. No.	Part No.	Value	Pcs/Set
R61	PQ4R10XJ470	47	1
R62	PQ4R10XJ102	1K	1
R63	PQ4R10XJ104	100K	1
R64	PQ4R10XJ104	100K	1
R65	PQ4R10XJ104	100K	1
R66	PQ4R10XJ104	100K	1
R67	PQ4R10XJ104	100K	1
R68	PQ4R10XJ104	100K	1
R69	PQ4R10XJ104	100K	1
R70	PQ4R10XJ104	100K	1
R71	PQ4R10XJ104	100K	1
R72	PQ4R10XJ104	100K	1
R73	PQ4R10XJ104	100K	1
R74	PQ4R10XJ104	100K	1
R75	PQ4R10XJ623	62K	1
R76	PQ4R10XJ104	100K	1
R77	PQ4R10XJ104	100K	1
R78	PQ4R10XJ103	10K	1
R84	PQ4R10XJ104	100K	1
R85	PQ4R10XJ104	100K	1
R86	PQ4R10XJ473	47K	1
R87	PQ4R10XJ104	100K	1
R88	PQ4R10XJ104	100K	1
R89	PQ4R10XJ104	100K	1
R90	PQ4R10XJ222	2.2K	1
R91	PQ4R10XJ103	10K	1
R95	PQ4R10XJ222	2.2K	1
R96	PQ4R10XJ272	2.7K	1
R98	PQ4R10XJ563	56K	1
R99	PQ4R10XJ104	100K	1
R100	PQ4R10XJ154	150K	1
R102	PQ4R10XJ560	56	1
R103	PQ4R10XJ470	47	1
R104	PQ4R10XJ102	1K	1
R105	PQ4R10XJ471	470	1
R106	PQ4R10XJ154	150K	1
R107	PQ4R10XJ473	47K	1
R108	PQ4R10XJ183	18K	1
R109	PQ4R10XJ473	47K	1
R110	PQ4R10XJ473	47K	1
R111	PQ4R10XJ473	47K	1
R112	PQ4R10XJ433	43K	1
R113	PQ4R10XJ473	47K	1
R114	PQ4R10XJ184	180K	1
R115	PQ4R10XJ105	1M	1
R116	PQ4R10XJ473	47K	1
R120	PQ4R10XJ473	47K	1
R121	PQ4R10XJ473	47K	1
R122	PQ4R10XJ473	47K	1
R123	PQ4R10XJ563	56K	1
R125	PQ4R10XJ563	56K	1
R126	PQ4R10XJ563	56K	1
R127	PQ4R10XJ563	56K	1
R128	PQ4R10XJ103	10K	1
R129	PQ4R10XJ473	47K	1
R130	PQ4R10XJ474	470K	1
R132	PQ4R10XJ104	100K	1

Ref. No.	Part No.	Value	Pcs/Set
R133	PQ4R10XJ000	0	1
R134	PQ4R10XJ000	0	1
R135	PQ4R10XJ822	8.2K	1
R136	PQ4R10XJ105	1M	1
R137	PQ4R10XJ562	5.6K	1
R138	PQ4R10XJ151	150	1
R139	ERDS2TJ560	56	1
R140	ERDS2TJ390	39	1
R141	PQ4R10XJ431	430	1
R142	PQ4R10XJ681	680	1
R143	PQ4R10XJ222	2.2K	1
R145	ERDS2TJ682	6.8K	1
R151	PQ4R10XJ822	8.2K	1
R152	PQ4R10XJ105	1M	1
R153	PQ4R10XJ472	4.7K	1
R154	PQ4R10XJ472	4.7K	1
R155	PQ4R10XJ472	4.7K	1
R156	PQ4R10XJ332	3.3K	1
R157	PQ4R10XJ332	3.3K	1
R158	PQ4R10XJ332	3.3K	1
R160	PQ4R10XJ153	15K	1
R161	PQ4R10XJ824	820K	1
R162	PQ4R10XJ224	220K	1
R163	PQ4R10XJ224	220K	1
R165	ERDS1TJ330	33	1
R166	PQ4R10XJ105	1M	1
R167	PQ4R10XJ223	22K	1
R171	PQ4R10XJ823	82K	1
R172	PQ4R10XJ181	180	1
R173	ERDS2TJ181	180	1
R179	PQ4R10XJ123	12K	1
R180	PQ4R10XJ102	1K	1
R185	PQ4R10XJ391	390	1
R186	PQ4R10XJ103	10K	1
R187	PQ4R10XJ681	680	1
R188	PQ4R10XJ223	22K	1
R189	PQ4R10XJ681	680	1
R191	PQ4R10XJ000	0	1
R193	PQ4R10XJ154	150K	1
R194	PQ4R10XJ394	390K	1
R195	PQ4R10XJ103	10K	1
R196	PQ4R10XJ153	15K	1
R197	PQ4R10XJ470	47	1
R201	PQ4R10XJ182	1.8K	1
R202	PQ4R10XJ271	270	1
R203	PQ4R10XJ562	5.6K	1
R206	PQ4R10XJ000	0	1
R207	PQ4R10XJ562	5.6K	1

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Ref. No.	Part No.	Value		Pcs/Set
		(CAPACITORS)		
C 1	PQCUV1H150JC	15P		1
C 2	PQCUV1H102J	0.001	S	1
C 3	PQCUV1C224ZF	0.22	S	1
C 4	PQCUV1H102J	1000P	S	1
C 5	PQCUV1H101JC	100P		1
C 6	PQCUV1H102J	1000P	S	1
C 7	PQCUV1H331JC	330P		1
C11	PQCUV1H103KB	0.01	S	1
C12	PQCUV1C105ZF	1		1
C13	PQCUV1C105ZF	1		1
C14	PQCUV1H103KB	0.01	S	1
C15	PQCUV1C105ZF	1		1
C16	PQCUV1E104MD	0.1		1
C20	PQCUV1E104MD	0.1		1
C21	PQCUV1H222KB	2200P		1
C22	PQCUV1E104MD	0.1		1
C23	PQCUV1E104MD	0.1		1
C24	PQCUV1C224ZF	0.22	S	1
C25	PQCUV1E104MD	0.1		1
C26	PQCUV1E104MD	0.1		1
C27	PQCUV1E104MD	0.1		1
C28	PQCUV1E104MD	0.1		1
C29	PQCUV1E104MD	0.1		1
C30	PQCUV1E104MD	0.1		1
C31	PQCUV1E473MD	0.047		1
C32	PQCUV1E333MD	0.033		1
C41	PQCUV1E104MD	0.1		1
C42	PQCUV1E104MD	0.1		1
C43	PQCUV1E104MD	0.1		1
C44	ECEA1CKS100	10	S	1
C45	PQCUV1H390JC	39P		
C46	PQCUV1H222KB	0.0022		1
C47	PQCUV1H103KB	0.01	S	1
C48	PQCUV1H103KB	0.01	S	1
C50	PQCUV1H103KB	0.01	S	1
C51	PQCUV1H103KB	0.01	S	1
C54	PQCUV1H103KB	0.01	S	1
C55	PQCUV1H103KB	0.01	S	1
C56	PQCUV1H680JC	68P		1
C57	PQCUV1E104MD	0.1		1
C58	PQCUV1E473MD	0.047		1
C59	PQCUV1H123MD	0.012		1
C60	PQCUV1H223KB	0.022	S	1
C61	PQCUV1H223KB	0.022	S	1
C62	PQCUV1H223KB	0.022	S	1
C63	PQCUV1E273KB	0.027		1
C65	PQCUV1H472KB	0.0047		1
C67	PQCUV1H330JC	33P		1
C68	PQCUV1H471JC	470P		1
C69	PQCUV1H100DC	10P		1
C70	PQCUV1E333MD	0.033		1
C71	PQCUV1C105ZF	1		1
C72	ECEA1CK101	100	S	1
C73	ECEA1CK101	100	S	1
C74	ECEA1HKS010	1	S	1
C75	ECEA1CK101	100	S	1

Ref. No.	Part No.	Value		Pcs/Set
C76	ECEA1CKS220	22	S	1
C77	ECEA1CK101	100	S	1
C78	ECEA1CK101	100	S	1
C80	PQCUV1H152KB	1500P		1
C81	PQCUV1H221JC	220P		1
C82	PQCUV1H391JC	390P		1
C84	ECEA1EK470	47	S	1
C85	PQCUV1H122KB	0.0012		1
C86	PQCUV1H223KB	0.022	S	1
C90	PQCUV1H392KB	3900P		1
C91	PQCUV1E333MD	0.033		1
C92	PQCUV1H332KB	3300P		1
C94	ECEA1HKS010	1	S	1
C95	ECEA1CKS220	22	S	1
C96	ECEA1HKSR47	0.47		1
C97	ECEA1CKS220	22	S	1
C98	ECEA1CKS100	10	S	1
C99	ECEA1CKS100	10	S	1
C102	PQCUV1H821JC	820P		1
C103	PQCUV1H821JC	820P		1
C104	PQCUV1H683MD	0.068	S	1
C106	PQCUV1H222KB	0.0022		1
C107	ECEA1HU2R2	2.2		1
C109	ECEA1HKS3R3	3.3	S	1
C110	ECEA1HKS3R3	3.3	S	1
C111	PQCUV1H683MD	0.068	S	1
C113	ECEA1EU221	220		1
C114	ECEA1EU470	47		1
C115	ECEA1EU331	330		1
C118	ECKD2H681KB	680P	S	1
C119	ECKD2H681KB	680P	S	1
C120	ECEA0JU471	470		1
C121	ECEA0JU102	1000		1
C122	ECEA0JU102	1000		1
C124	PQCUV1H152KB	1500P		1
C125	PQCUV1H471JC	470P		1
C126	PQCUV1H101JC	100P		1
C128	PQCUV1H101JC	100P		1
C129	PQCUV1H472KB	4700P		1
C130	PQCUV1E104MD	0.1		1
C134	PQCUV1C105ZF	1		1
C135	PQCUV1E104MD	0.1		1
C136	PQCUV1E104MD	0.1		1
C137	PQCUV1C224ZF	0.22	S	1
C145	PQCUV1H103KB	0.01	S	1
C146	PQCUV1H220JC	22P		1
C147	PQCUV1H220JC	22P		1
C148	ECEA1AU102	1000		1
C149	PQCUV1C105ZF	1		1
C150	PQCUV1H472KB	4700P		1
C151	PQCUV1E333MD	0.033		1
C152	PQCUV1H152KB	1500P		1
C154	PQCUV1C224ZF	0.22	S	1
C156	PQCUV1C224ZF	0.22	S	1
C157	ECEA1CKS100	10	S	1
C158	PQCUV1C105ZF	1		1

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Ref. No.	Part No.	Part Name, Description, & Value		Pcs/Set
C159	PQCUV1C224ZF	0.22	S	1
C160	PQCUV1H101JC	100P		1
C161	PQCUV1H101JC	100P		1
C162	PQCUV1H101JC	100P		1
C163	PQCUV1H101JC	100P		1
C169	PQCUV1H332KB	0.0033		1
C171	PQCUV1H472KB	4700P		1
		OPERATION P.C.BOARD PARTS		
PCB2	PQWP2T4026EH	P.C.BOARD ASS'Y (RTL)		1
		(TRANSISTOR)		
Q26A	2SD601A	TRANSISTOR(SI)		1
		(LED)		
DS1	LNJ322GKGAH	LED		1
		(COIL)		
L200	PQLQZM100K	COIL		1
		(SWITCH)		
SW200	EVQQJJ05Q	SWITCH, PAGE		1
		(RESISTORS)		
R198A	PQ4R10XJ124	120K		1
R199A	PQ4R10XJ184	180K		1
R200A	PQ4R10XJ334	330K		1
		(CAPACITORS)		
C167A	PQCUV1E223KB	0.022		1
C200	ECEA1HKS0R1	0.1	S	1

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REPLACEMENT PARTS LIST

Model KX-T4026ER

1. RTL (Retention Time Limited)

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

2. Important safety notice
   Components identified by the ⚠ mark indicates special characteristics important for safety. When replacing any of these components, only use specified manufacturer's 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=1000Ω, M=1000KΩ
   All capacitors are in MICRO FARADS (μF) P=μμF
   *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

*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
		CABINET & ELECTRICAL PARTS		
100	PJHE5065Z	SCREW		2
101	PQAX3P16Z	SPEAKER		1
102	PQGT12866Z	NAME PLATE		1
103	PQHE10084Z	FOAM PAD		1
104	PQKF10187Z2	CABINET COVER	S	1
105	PQKK10076Z2	BATTERY COVER	S	1
106	PQKM10262Y2	FRONT CABINET	S	1
107	PQSA10058Z	ANTENNA		1
108	PQSX10047Y	12KEY etc. SWITCH		1
109	PQSX10048Z	SHEET SWITCH		1
110	PQXA36ASVC	BATTERY		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		MAIN P.C.BOARD PARTS		
PCB100	PQWPT4026ER	P.C.BOARD ASS'Y (RTL)		1
		(ICS)		
IC1	PQVIMC13109F	IC		1
IC2	AN6183SAE1	IC	S	1
IC3	MN150837KXAC	IC		1
IC4	PQVISC78184D	IC		1
		(TRANSISTORS)		
Q 1	2SD601A	TRANSISTOR(SI)		1
Q 2	PQVTMSC2295C	TRANSISTOR(SI)		1
Q 3	2SD601A	TRANSISTOR(SI)		1
Q 4	2SD601A	TRANSISTOR(SI)		1
Q 5	2SB1218A	TRANSISTOR(SI)		1
Q 6	2SB1218A	TRANSISTOR(SI)		1
Q 9	2SC4098QT106	TRANSISTOR(SI)		1
Q12	2SD601A	TRANSISTOR(SI)		1
Q101	XN4116	TRANSISTOR(SI)		1
Q102	XN1116	TRANSISTOR(SI)		1
		(DIODES)		
D 1	1SS314	DIODE(SI)		1
D 2	1SS314	DIODE(SI)		1
D 3	1SS120	DIODE(SI)		1
D 4	MA4100	DIODE(SI)		1
D 5	MA700A	DIODE(SI)		1
D 6	MA4100	DIODE(SI)		1
D 7	1SS120	DIODE(SI)		1
D101	PQVD1SV149	DIODE(SI)		1
D102	PQVD1SV149	DIODE(SI)		1
D103	MA840ATAKU	DIODE(SI)		1
D104	MA840ATAKU	DIODE(SI)		1
	LNJ230RKRAC	LED		1
	LNJ330GKGAC	LED		1
		(CERAMIC FILTERS)		
FL1	PQVFSF107FP1	CERAMIC FILTER		1
FL2	PQVFCFWS450F	CERAMIC FILTER		1
		(COIL AND TRANSFORMAERS)		
L 1	PQLF2A2	COIL		1
L 2	PQLQZM100K	COIL		1
L 3	PQLQZM390K	COIL		1
L 4	PQLQZM100K	COIL		1
L 5	PQLQZM2R2K	COIL		1
L 6	PQLQZM100K	COIL		1
T 1	PQLA2B9	COIL		1
T 2	PQLI2B201	I.F. TRANSFORMER		1
T 3	PQLA2B8	COIL		1
T 4	PQLA7A7	COIL		1
T 5	PQLA7A22	COIL		1

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Ref. No.	Part No.	Part Name, Description, & Value	Pcs/Set
		(TRIMMER CAPACITORS)	
VC1	ECRLA030E53	TRIMMER CAPACITOR	1
VC2	ECRLA050M53	TRIMMER CAPACITOR	1
VC3	ECRLA020E53	TRIMMER CAPACITOR	1
		(VARIABLE RESISTORS)	
VR1	EVM1YSX50B15	VARIABLE RESISTOR	1
VR2	EVM1YSX50B15	VARIABLE RESISTOR	1
VR3	EVM1YSX50B15	VARIABLE RESISTOR	1
		(CRYSTALS)	
X1	PQVCJ10250N5	CRYSTAL OSCILLATOR	1
X2	PQVCJ3992N9Z	CRYSTAL OSCILLATOR	1
X3	PQVCL3276N9Z	CRYSTAL OSCILLATOR	1
		(OTHERS)	
CN1	PQJP2D13Z	CONNECTOR	1
E100	PQEFBQM111G3	BUZZER S	1
E101	PQHE10070Z	MIC SPONGE	1
E102	PQHR10519Z	MIC COVER	1
E103	PQJM124X	MICROPHONE	1
E104	PQJT10101Z	BATTERY TERMINAL	1
E105	PQJT10102Z	BATTERY TERMINAL	2
E106	PQNW10011Z	WASHER	1
		(RESISTORS)	
R 1	ERJ3GEYJ683	68K	1
R 2	ERJ3GEYJ333	33K	1
R 3	ERJ3GEYJ473	47K	1
R 4	ERJ3GEYJ100	10	1
R 5	ERJ3GEYJ104	100K	1
R 6	ERJ3GEYJ473	47K	1
R 8	ERJ3GEYJ472	4.7K	1
R 9	ERJ3GEYJ680	68	1
R10	ERJ3GEYJ333	33K	1
R11	ERJ3GEYJ433	43K	1
R12	ERJ3GEYJ822	8.2K	1
R14	ERJ3GEYJ124	120K	1
R15	ERJ3GEYJ220	22	1
R16	ERJ3GEYJ473	47K	1
R17	ERJ3GEYJ563	56K	1
R18	ERJ3GEYJ823	82K	1
R19	ERJ3GEYJ823	82K	1
R20	ERJ3GEYJ104	100K	1
R21	PQ4R10XJ104	100K	1
R22	ERJ3GEYJ683	68K	1
R23	ERJ3GEYJ103	10K	1
R24	PQ4R10XJ104	100K	1
R25	PQ4R10XJ104	100K	1
R26	PQ4R10XJ472	4.7K	1
R27	PQ4R10XJ472	4.7K	1
R28	PQ4R10XJ472	4.7K	1
R31	ERJ3GEYJ153	15K	1

Ref. No.	Part No.	Value	Pcs/Set
R32	ERJ3GEYJ223	22K	1
R33	PQ4R10XJ563	56K	1
R34	PQ4R10XJ124	120K	1
R35	ERJ3GEYJ333	33K	1
R36	ERJ3GEYJ682	6.8K	1
R37	ERJ3GEYJ474	470K	1
R38	PQ4R10XJ103	10K	1
R39	ERJ3GEYJ393	39K	1
R40	ERJ3GEYJ393	39K	1
R41	ERJ3GEYJ104	100K	1
R42	ERJ3GEYJ184	180K	1
R43	ERJ3GEYJ473	47K	1
R44	ERJ3GEYJ562	5.6K	1
R45	ERJ3GEYJ104	100K	1
R46	ERJ3GEYJ683	68K	1
R47	ERJ3GEYJ683	68K	1
R48	PQ4R10XJ561	560	1
R49	PQ4R10XJ182	1.8K	1
R50	ERJ3GEYJ104	100K	1
R51	ERJ3GEYJ682	6.8K	1
R52	ERJ3GEYJ103	10K	1
R53	ERJ3GEYJ222	2.2K	1
R54	ERJ3GEYJ223	22K	1
R55	ERJ3GEYJ223	22K	1
R56	ERJ3GEYJ470	47	1
R57	ERJ3GEYJ821	820	1
R58	ERJ3GEYJ333	33K	1
R59	ERJ3GEYJ470	47	1
R60	PQ4R10XJ472	4.7K	1
R61	PQ4R10XJ103	10K	1
R62	PQ4R10XJ562	5.6K	1
R63	PQ4R10XJ392	3.9K	1
R64	PQ4R10XJ104	100K	1
R65	PQ4R10XJ122	1.2K	1
R66	PQ4R10XJ120	12	1
R67	PQ4R10XJ681	680	1
R68	PQ4R10XJ681	680	1
R69	PQ4R10XJ332	3.3K	1
R70	PQ4R10XJ331	330	1
R71	PQ4R10XJ120	12	1
R72	PQ4R10XJ682	6.8K	1
R73	PQ4R10XJ683	68K	1
R74	PQ4R10XJ104	100K	1
R75	ERJ3GEY0R00	0	1
R76	PQ4R10XJ104	100K	1
R77	ERJ3GEY0R00	0	1
R78	ERJ3GEYJ106	10M	1
R79	PQ4R10XJ473	47K	1
R80	PQ4R10XJ223	22K	1
R83	PQ4R10XJ102	1K	1
R85	PQ4R10XJ681	680	1
R86	PQ4R10XJ681	680	1
R89	ERJ3GEY0R00	0	1
R90	PQ4R10XJ106	10M	1
R91	PQ4R10XJ106	10M	1
R93	ERJ3GEYJ680	68	1
R94	ERJ3GEYJ273	27K	1
R95	ERJ3GEYJ104	100K	1

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Ref. No.	Part No.	Value		Pcs/Set
		(CAPACITORS)		
C 1	ECUV1H103KBV	0.01		1
C 2	ECUV1H0R5CCV	0.5		1
C 3	ECUV1H471JCV	470P		1
C 4	ECUV1E104ZFV	0.1		1
C 5	ECUV1H121JCV	120P		1
C 6	ECUV1H272KBV	0.0027		1
C 7	PQCUV1E104MD	0.1		1
C 8	ECUV1H511JCV	510P		1
C 9	ECUV1H271JCV	270P		1
C10	ECUV1E104ZFV	0.1		1
C11	PQCUV1C105ZF	1		1
C12	ECUV1E104ZFV	0.1		1
C13	ECUV1H103KBV	0.01		1
C14	ECEA1CKS100	10	S	1
C15	ECUV1E104ZFV	0.1		1
C16	ECUV1E104ZFV	0.1		1
C18	ECUV1C104KBV	0.1		1
C19	ECUV1C104KBV	0.1		1
C20	ECUV1C104KBV	0.1		1
C22	ECEA0JK330	33		1
C23	PQCUV1A105KB	1		1
C24	PQCUV1A105KB	1		1
C25	ECUV1E104ZFV	0.1		1
C26	ECUV1H222KBV	0.0022		1
C27	ECEA1CKS470	47	S	1
C29	ECUV1E104ZFV	0.1		1
C30	ECEA1AKS330	33		1
C31	PQCUV1A105KB	1		1
C32	ECUV1C104KBV	0.1		1
C33	PQCUV1A105KB	1		1
C34	ECUV1H330JCV	33P		1
C35	ECUV1H223KBV	0.022	S	1
C36	PQCUV1C334KB	0.33		1
C37	ECUV1H223KBV	0.022	S	1
C38	PQCUV1E104MD	0.1		1
C39	PQCUV1C105ZF	1		1
C40	PQCUV1H103KB	0.01	S	1
C42	ECUV1H822KBV	0.0082		1
C43	ECUV1H300JTV	30P		1
C44	PQCUV1H683MD	0.068	S	1
C45	PQCUV1H683MD	0.068	S	1
C46	ECUV1C104KBV	0.1		1
C47	PQCUV1E104MD	0.1		1
C48	ECUV1H472KBV	0.0047		1
C49	ECUV1H103KBV	0.01		1
C50	ECEA1CKS100	10	S	1
C51	ECUV1H103KBV	0.01		1
C52	ECEA0JKS101	100		1
C53	ECUV1H030CCV	3P		1
C54	ECUV1H220JCV	22P		1
C55	ECUV1H150JCV	15P		1
C56	ECUV1E104ZFV	0.1		1
C57	ECEA1HKS4R7	4.7	S	1
C58	ECUV1H330JCV	33P		1
C59	ECUV1H680JCV	68P		1
C60	ECUV1H470JCV	47P		1
C61	ECUV1H103KBV	0.01		1

Ref. No.	Part No.	Value		Pcs/Set
C62	ECUV1H220JCV	22P		1
C63	ECUV1H070DCV	7P		1
C64	ECUV1H150JCV	15P		1
C65	ECUV1H050CCV	5P		1
C66	ECUV1H103KBV	0.01		1
C67	PQCUV1H103KB	0.01	S	1
C68	PQCUV1H103KB	0.01	S	1
C69	PQCUV1H103KB	0.01	S	1
C70	PQCUV1H103KB	0.01	S	1
C71	PQCUV1H103KB	0.01	S	1
C72	PQCUV1E104MD	0.1		1
C73	ECEA0JK221	220		1
C74	PQCUV1E104MD	0.1		1
C75	PQCUV1H470JC	47P		1
C76	PQCUV1H470JC	47P		1
C77	PQCUV1H330JC	33P		1
C78	PQCUV1H330JC	33P		1
C79	PQCUV1H103KB	0.01	S	1
C80	ECUV1H821KBV	820P		1
C83	ECUV1H222KBV	0.0022		1

KX-T4026E

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		ACCESSORIES AND PACKING MATERIALS		
A1	KX-A311E-1	AC ADAPTOR	⚠ S	1
A2	PQJA87T	TELEPHONE CORD	⚠ S	1
A3	PQKL10027Z2	STAND	S	1
A4	PQQX11674Z	INSTRUCTION BOOK		1
A5	PQQW11693Z	LEAFLET		1
A6	PQQT11156Y	TEL CARD LABEL		1
P1	PQPH89Y	PROTECTION COVER (for Base Unit)		1
P2	XZB11X40A02	PROTECTION COVER (for Portable Handset)		1
P3	PQPN10566Z	CUSHION		1
P4	PQPN10567Z	CUSHION		1
P5	PQPN10568Z	CUSHION		1
P6	PQPK12358Z	GIFT BOX		1

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REPLACEMENT PARTS LIST

Model KX-T4046EH

1. RTL (Retention Time Limited)

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

2. Important safety notice
   Components identified by the ⚠ mark indicates special characteristics important for safety. When replacing any of these components, only use specified manufacturer's 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=1000Ω, M=1000KΩ
   All capacitors are in MICRO FARADS (μF) P=μμF
   *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

*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
		CABINET & ELECTRICAL PARTS		
1	PQAS5P33Z	SPEAKER		1
2	PQBC10229Z1	BUTTON, LOCATOR/INTERCOM	S	1
3	PQBC10230Z1	BUTTON, SP-PHONE	S	1
4	PQBX10270Z1	BUTTON, VOLUME	S	1
5	PQBX10271Z1	BUTTON, 12KEY etc.	S	1
6	PQGT12867Z	NAME PLATE	⚠	1
7	PQHR10521Z	SPEAKER COVER		1
8	PQJT10100Z	BATTERY TERMINAL		3
9	PQJT10123Z	BATTERY TERMINAL		4
10	PQJT10124Z	BATTERY TERMINAL		1
11	PQJT10125Z	BATTERY TERMINAL		1
12	PQKE10059Z1	HANGER	S	1
13	PQKK10075Z1	BATTERY COVER	S	1
14	PQQT11382Y	CAUTION LABEL		1
15	PQQT11383Z	CAUTION LABEL		1
16	PQYF10102Z1	LOWER CABINET	S	1
17	PQYMT4046EH	UPPER CABINET ASS'Y		1
18	XEAPQK170D	ANTENNA		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		MAIN P.C.BOARD PARTS		
PCB1	PQWP1T4046EH	P.C.BOARD ASS'Y (RTL)	⚠	1
		(ICS)		
IC1	MN150832KKAE	IC		1
IC2	PQVIMC13109F	IC		1
IC3	PQVIT4069UBF	IC	S	1
IC4	PQVINJM4558M	IC		1
IC5	PQVISC77655V	IC		1
IC6	PQVINJM4558M	IC		1
		(TRANSISTORS)		
Q 1	2SK543	TRANSISTOR(SI)		1
Q 2	2SD601A	TRANSISTOR(SI)		1
Q 3	2SD601A	TRANSISTOR(SI)		1
Q 4	PQVTKSD261CY	TRANSISTOR(SI)		1
Q 5	2SC1740S	TRANSISTOR(SI)		1
Q 6	2SD601A	TRANSISTOR(SI)		1
Q 7	2SD2136	TRANSISTOR(SI)		1
Q 8	2SD1994A	TRANSISTOR(SI)		1
Q 9	2SD601A	TRANSISTOR(SI)		1
Q10	2SC3421	TRANSISTOR(SI)		1
Q11	2SD601A	TRANSISTOR(SI)		1
Q12	PQVTMSC2295C	TRANSISTOR(SI)		1
Q13	2SC2295	TRANSISTOR(SI)	S	1
Q14	2SD601A	TRANSISTOR(SI)		1
Q15	2SD601A	TRANSISTOR(SI)		1
Q16	2SD601A	TRANSISTOR(SI)		1
Q17	2SD601A	TRANSISTOR(SI)		1
Q18	2SD601A	TRANSISTOR(SI)		1
Q19	2SD601A	TRANSISTOR(SI)		1
Q20	2SD601A	TRANSISTOR(SI)		1
Q21	2SD601A	TRANSISTOR(SI)		1
Q22	2SD601A	TRANSISTOR(SI)		1
Q23	2SD601A	TRANSISTOR(SI)		1
Q24	2SC1740S	TRANSISTOR(SI)		1
Q25	2SC1740S	TRANSISTOR(SI)		1
Q27	2SC1740S	TRANSISTOR(SI)		1
Q28	2SD601A	TRANSISTOR(SI)		1
Q29	2SA1627	TRANSISTOR(SI)		1
Q30	2SB1322	TRANSISTOR(SI)		1
Q31	2SB1322	TRANSISTOR(SI)		1
Q32	2SB709A	TRANSISTOR(SI)		1
Q34	PQVTFB1A4M	TRANSISTOR(SI)		1
		(DIODES)		
D 1	1SS314	DIODE(SI)		1
D 2	1SS120	DIODE(SI)		1
D 3	1SS120	DIODE(SI)		1
D 4	1SS120	DIODE(SI)		1
D 5	1SS120	DIODE(SI)		1
D 6	1SS120	DIODE(SI)		1
D 7	MA701	DIODE(SI)		1
D 8	1SS120	DIODE(SI)		1
D 9	MA4100	DIODE(SI)		1
D10	1SS120	DIODE(SI)		1
D11	1SS120	DIODE(SI)		1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set
D12	1SS120	DIODE(SI)	1
D13	1SS120	DIODE(SI)	1
D14	1SS120	DIODE(SI)	1
D15	1SS120	DIODE(SI)	1
D16	1SS120	DIODE(SI)	1
D17	MA701	DIODE(SI)	1
D18	1SS120	DIODE(SI)	1
D19	1SS120	DIODE(SI)	1
D20	1SS120	DIODE(SI)	1
D21	1SS120	DIODE(SI)	1
D22	MA4270	DIODE(SI)	1
D23	MA4033	DIODE(SI)	1
D24	MA4068	DIODE(SI)	1
D25	MA4056	DIODE(SI)	1
D26	MA4100	DIODE(SI)	1
D27	MA4330M	DIODE(SI)	1
D28	MA4330M	DIODE(SI)	1
D29	MA4330M	DIODE(SI)	1
D32	PQVD1SV149	DIODE(SI)	1
D33	PQVDMV2109	DIODE(SI)	1
D34	1SS120	DIODE(SI)	1
D39	1SS120	DIODE(SI)	1
		(CERAMIC FILTERS)	
FL1	PQVCM107M7.5	CERAMIC FILTER	1
FL2	PQVFCFW450G	CERAMIC FILTER S	1
		(COILS AND TRANSFORMAERS)	
L 1	PQLQZK1R5K	COIL (for Antenna)	1
L 2	PQLQZK101K	COIL	1
L 3	PQLQZK8R2K	COIL	1
L 4	PQLQZK330KT	COIL	1
L 5	PQLQZM1R0K	COIL	1
L 7	PQLQZK330KT	COIL	1
L 8	PQLQZK1R0K	COIL	1
L 9	PQLQZM100K	COIL	1
L10	PQLQZM100K	COIL	1
L11	PQLQZM100K	COIL	1
T 1	PQLA7A17	COIL	1
T 2	PQLA7A33	COIL	1
T 3	PQLA7A11	COIL S	1
T 4	PQLI2B201	I.F. TRANSFORMER	1
T 5	PQLA2B6	COIL	1
T 6	PQLA2B6	COIL	1
T 7	PQLA7A11	COIL S	1
T101	PQLT8F14A	TRANSFORMER ⚠	1
T102	PQLT8F14A	TRANSFORMER ⚠	1
		(CRYSTALS)	
X1	PQVCJ10250N5	CRYSTAL OSCILLATOR S	1
X2	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	1

Ref. No.	Part No.	Part Name, Description, & Value	Pcs/Set
		(SWITCHES)	
SW1	PQSS2A27W	SWITCH, DIALLING MODE SELECTOR	1
SW2	PQSS2A27W	SWITCH, RECALL SELECTOR	1
SW3	PQSS3A17W	SWITCH, RINGER SELECTOR	1
		(VARIABLE RESISTORS)	
VR1	EVNDXAA03B25	VARIABLE RESISTOR	1
VR2	EVNDXAA03B15	VARIABLE RESISTOR	1
		(PHOTO COUPLERS)	
PC1	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER ⚠	1
PC2	PQVITLP627	PHOTO ELECTRIC TRANSDUCER ⚠	1
PC3	PQVIPC814Y	PHOTO ELECTRIC TRANSDUCER ⚠	1
PC4	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER ⚠	1
		(OTHERS)	
E1	PQJM122Z	MICROPHONE	1
E2	PQMG10004Z	MIC COVER	1
E3	PQJA215Z	WIRE ANTENNA	1
JJ1	PQJJ2HB2Z	JACK, TELEPHONE LINE, DC IN	1
K1	PQSL107Z	RELAY ⚠	1
P01	PQRPAR390N	THERMISTOR	1
SA1	PQVDRA311PT3	VARISTOR S	1
VC1	ECRLA030E53	TRIMMER CAPACITOR	1
W1	WBJ13SW-7SS	LEAD 13PIN	1
		(RESISTORS)	
R 1	PQ4R10XJ181	180	1
R 2	ERDS2TJ101	100	1
R 3	PQ4R10XJ101	100	1
R 4	PQ4R10XJ470	47	1
R 5	PQ4R10XJ470	47	1
R 6	PQ4R10XJ152	1.5K	1
R 7	PQ4R10XJ203	20K	1
R 8	ERDS2TJ821	820	1
R 9	PQ4R10XJ223	22K	1
R10	PQ4R10XJ223	22K	1
R11	PQ4R10XJ103	10K	1
R12	ERDS2TJ223	22K	1
R13	PQ4R10XJ153	15K	1
R14	PQ4R10XJ223	22K	1
R15	PQ4R10XJ753	75K	1
R16	PQ4R10XJ334	330K	1
R17	PQ4R10XJ104	100K	1
R18	PQ4R10XJ103	10K	1
R19	PQ4R10XJ153	15K	1
R20	PQ4R10XJ154	150K	1
R21	PQ4R10XJ103	10K	1
R22	PQ4R10XJ103	10K	1
R23	PQ4R10XJ103	10K	1
R24	PQ4R10XJ103	10K	1
R25	PQ4R10XJ000	0	1
R26	PQ4R10XJ563	56K	1

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Ref. No.	Part No.	Value	Pcs/Set
R27	PQ4R10XJ103	10K	1
R28	PQ4R10XJ104	100K	1
R29	PQ4R10XJ103	10K	1
R30	PQ4R10XJ102	1K	1
R31	PQ4R10XJ103	10K	1
R32	PQ4R10XJ103	10K	1
R33	PQ4R10XJ153	15K	1
R34	PQ4R10XJ103	10K	1
R35	PQ4R10XJ103	10K	1
R36	PQ4R10XJ103	10K	1
R37	PQ4R10XJ103	10K	1
R38	PQ4R10XJ104	100K	1
R39	PQ4R10XJ104	100K	1
R40	PQ4R10XJ103	10K	1
R41	PQ4R10XJ124	120K	1
R42	PQ4R10XJ563	56K	1
R43	PQ4R10XJ273	27K	1
R44	PQ4R10XJ153	15K	1
R45	PQ4R10XJ472	4.7K	1
R46	PQ4R10XJ472	4.7K	1
R47	PQ4R10XJ103	10K	1
R48	PQ4R10XJ103	10K	1
R49	PQ4R10XJ103	10K	1
R50	PQ4R10XJ103	10K	1
R51	PQ4R10XJ152	1.5K	1
R52	PQ4R10XJ152	1.5K	1
R53	PQ4R10XJ152	1.5K	1
R54	PQ4R10XJ333	33K	1
R55	PQ4R10XJ333	33K	1
R56	PQ4R10XJ473	47K	1
R57	PQ4R10XJ332	3.3K	1
R58	PQ4R10XJ102	1K	1
R59	PQ4R10XJ221	220	1
R60	PQ4R10XJ102	1K	1
R61	PQ4R10XJ470	47	1
R62	PQ4R10XJ102	1K	1
R63	PQ4R10XJ104	100K	1
R64	PQ4R10XJ104	100K	1
R65	PQ4R10XJ104	100K	1
R66	PQ4R10XJ104	100K	1
R67	PQ4R10XJ104	100K	1
R68	PQ4R10XJ104	100K	1
R69	PQ4R10XJ104	100K	1
R70	PQ4R10XJ104	100K	1
R71	PQ4R10XJ104	100K	1
R72	PQ4R10XJ104	100K	1
R73	PQ4R10XJ104	100K	1
R74	PQ4R10XJ104	100K	1
R75	PQ4R10XJ623	62K	1
R76	PQ4R10XJ104	100K	1
R77	PQ4R10XJ104	100K	1
R78	PQ4R10XJ103	10K	1
R79	PQ4R10XJ104	100K	1
R80	PQ4R10XJ104	100K	1
R81	PQ4R10XJ104	100K	1
R82	PQ4R10XJ104	100K	1
R83	PQ4R10XJ274	270K	1
R84	PQ4R10XJ104	100K	1
R85	PQ4R10XJ104	100K	1

Ref. No.	Part No.	Value	Pcs/Set
R86	PQ4R10XJ473	47K	1
R87	PQ4R10XJ104	100K S	1
R88	PQ4R10XJ104	100K	1
R89	PQ4R10XJ104	100K	1
R90	PQ4R10XJ222	2.2K	1
R91	PQ4R10XJ103	10K	1
R92	PQ4R10XJ222	2.2K	1
R93	PQ4R10XJ222	2.2K	1
R94	PQ4R10XJ225	2.2M	1
R95	PQ4R10XJ222	2.2K	1
R96	PQ4R10XJ272	2.7K	1
R97	PQ4R10XJ683	68K	1
R98	PQ4R10XJ563	56K	1
R99	PQ4R10XJ104	100K	1
R100	PQ4R10XJ154	150K	1
R101	PQ4R10XJ823	82K	1
R102	PQ4R10XJ560	56	1
R103	PQ4R10XJ470	47	1
R104	PQ4R10XJ102	1K	1
R105	PQ4R10XJ471	470	1
R106	PQ4R10XJ184	180K	1
R107	PQ4R10XJ473	47K	1
R108	PQ4R10XJ183	18K	1
R109	PQ4R10XJ473	47K	1
R110	PQ4R10XJ473	47K	1
R111	PQ4R10XJ473	47K	1
R112	PQ4R10XJ433	43K	1
R113	PQ4R10XJ473	47K	1
R114	PQ4R10XJ184	180K	1
R115	PQ4R10XJ105	1M	1
R116	PQ4R10XJ473	47K	1
R117	PQ4R10XJ473	47K	1
R118	PQ4R10XJ473	47K	1
R119	PQ4R10XJ473	47K	1
R120	PQ4R10XJ473	47K	1
R121	PQ4R10XJ473	47K	1
R122	PQ4R10XJ473	47K	1
R123	PQ4R10XJ563	56K	1
R124	PQ4R10XJ564	560K	1
R125	PQ4R10XJ563	56K	1
R126	PQ4R10XJ563	56K	1
R127	PQ4R10XJ563	56K	1
R128	PQ4R10XJ103	10K	1
R129	PQ4R10XJ473	47K	1
R130	PQ4R10XJ474	470K	1
R131	PQ4R10XJ474	470K	1
R132	PQ4R10XJ104	100K	1
R133	PQ4R10XJ000	0	1
R134	PQ4R10XJ000	0	1
R135	PQ4R10XJ822	8.2K	1
R136	PQ4R10XJ105	1M	1
R137	PQ4R10XJ332	3.3K	1
R138	PQ4R10XJ151	150	1
R139	ERDS2TJ560	56	1
R140	ERDS2TJ390	39	1
R141	PQ4R10XJ431	430	1
R142	PQ4R10XJ681	680	1
R143	PQ4R10XJ222	2.2K	1
R144	PQ4R10XJ682	6.8K	1

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Ref. No.	Part No.	Value	Pcs/Set
R145	ERDS2TJ682	6.8K	1
R146	PQ4R10XJ392	3.9K	1
R147	ERDS2TJ472	4.7K	1
R148	PQ4R10XJ472	4.7K	1
R149	PQ4R10XJ472	4.7K	1
R150	PQ4R10XJ472	4.7K	1
R151	PQ4R10XJ822	8.2K	1
R152	PQ4R10XJ105	1M	1
R153	PQ4R10XJ472	4.7K	1
R154	PQ4R10XJ472	4.7K	1
R155	PQ4R10XJ472	4.7K	1
R156	PQ4R10XJ332	3.3K	1
R157	PQ4R10XJ332	3.3K	1
R158	PQ4R10XJ332	3.3K	1
R159	PQ4R10XJ472	4.7K	1
R160	PQ4R10XJ392	3.9K	1
R161	PQ4R10XJ824	820K	1
R162	PQ4R10XJ224	220K	1
R163	PQ4R10XJ224	220K	1
R164	PQ4R10XJ224	220K	1
R165	ERDS1TJ330	33	1
R166	PQ4R10XJ105	1M	1
R167	PQ4R10XJ223	22K	1
R168	PQ4R10XJ683	68K	1
R169	PQ4R10XJ683	68K	1
R170	PQ4R10XJ472	4.7K	1
R171	PQ4R10XJ393	39K	1
R172	PQ4R10XJ181	180	1
R173	ERDS2TJ181	180	1
R174	PQ4R10XJ225	2.2M	1
R175	PQ4R10XJ273	27K	1
R176	PQ4R10XJ275	2.7M	1
R177	PQ4R10XJ821	820	1
R178	PQ4R10XJ562	5.6K	1
R179	PQ4R10XJ182	1.8K	1
R180	PQ4R10XJ102	1K	1
R181	PQ4R10XJ223	22K	1
R182	PQ4R10XJ153	15K	1
R183	PQ4R10XJ223	22K	1
R184	PQ4R10XJ684	680K	1
R185	PQ4R10XJ391	390	1
R188	PQ4R10XJ223	22K	1
R189	PQ4R10XJ681	680	1
R190	PQ4R10XJ101	100	1
R191	PQ4R10XJ000	0	1
R192	PQ4R10XJ820	82	1
R193	PQ4R10XJ154	150K	1
R194	PQ4R10XJ394	390K	1
R195	PQ4R10XJ103	10K	1
R196	PQ4R10XJ153	15K	1
R197	PQ4R10XJ470	47	1
R201	PQ4R10XJ182	1.8K	1
R202	PQ4R10XJ271	270	1
R203	PQ4R10XJ562	5.6K	1
R206	PQ4R10XJ000	0	1
R207	PQ4R10XJ562	5.6K	1

Ref. No.	Part No.	Value		Pcs/Set
		(CAPACITORS)		
C 1	PQCUV1H150JC	15P		1
C 2	PQCUV1H102J	1000P	S	1
C 3	PQCUV1C224ZF	0.22	S	1
C 4	PQCUV1H102J	0.001	S	1
C 5	PQCUV1H101JC	100P		1
C 6	PQCUV1H102J	1000P	S	1
C 7	PQCUV1H331JC	330P		1
C 8	PQCUV1H102J	1000P	S	1
C 9	PQCUV1H102J	1000P	S	1
C10	PQCUV1H223KB	0.022	S	1
C11	PQCUV1H103KB	0.01	S	1
C12	PQCUV1C105ZF	1		1
C13	PQCUV1C105ZF	1		1
C14	PQCUV1H103KB	0.01	S	1
C15	PQCUV1C105ZF	1		1
C16	PQCUV1E104MD	0.1		1
C17	ECEA1HKS010	1		1
C18	ECEA1HKS010	1		1
C19	ECEA1HKS010	1		1
C20	PQCUV1E104MD	0.1		1
C21	PQCUV1H472KB	0.0047		1
C22	PQCUV1E104MD	0.1		1
C23	PQCUV1E104MD	0.1		1
C24	PQCUV1C224ZF	0.22	S	1
C25	PQCUV1E104MD	0.1		1
C26	PQCUV1E104MD	0.1		1
C27	PQCUV1E104MD	0.1		1
C28	PQCUV1E104MD	0.1		1
C29	PQCUV1E104MD	0.1		1
C30	PQCUV1E104MD	0.1		1
C31	PQCUV1E473MD	0.047		1
C32	PQCUV1E333MD	0.033		1
C33	PQCUV1H223KB	0.022	S	1
C34	PQCUV1E104MD	0.1		1
C35	PQCUV1E104MD	0.1		1
C36	PQCUV1E104MD	0.1		1
C37	PQCUV1E104MD	0.1		1
C38	PQCUV1H681JC	680P		1
C39	PQCUV1H332KB	0.0033		1
C40	PQCUV1E104MD	0.1		1
C41	PQCUV1E104MD	0.1		1
C42	PQCUV1E104MD	0.1		1
C43	PQCUV1E104MD	0.1		1
C44	ECEA1CKS100	10		1
C45	PQCUV1H390JC	39P		1
C46	PQCUV1H392KB	3900P		1
C47	PQCUV1H103KB	0.01	S	1
C48	PQCUV1H103KB	0.01	S	1
C49	PQCUV1H103KB	0.01	S	1
C50	PQCUV1H103KB	0.01	S	1
C51	PQCUV1H103KB	0.01	S	1
C52	PQCUV1E104MD	0.1		1
C53	PQCUV1H103KB	0.01	S	1
C54	PQCUV1H103KB	0.01	S	1
C55	PQCUV1H103KB	0.01	S	1
C56	PQCUV1H680JC	68P		1
C57	PQCUV1E104MD	0.1		1
C58	PQCUV1E473MD	0.047		1
C59	PQCUV1H123MD	0.012		1

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Ref. No.	Part No.	Value		Pcs/Set
C60	PQCUV1H223KB	0.022	S	1
C61	PQCUV1H223KB	0.022	S	1
C62	PQCUV1H223KB	0.022	S	1
C63	PQCUV1E333MD	0.033		1
C64	PQCUV1H223KB	0.022	S	1
C65	PQCUV1H472KB	4700P		1
C66	PQCUV1H103KB	0.01	S	1
C67	PQCUV1H330JC	33P		1
C68	PQCUV1H471JC	470P		1
C69	PQCUV1H100DC	10P		1
C70	PQCUV1E333MD	0.033		1
C71	PQCUV1C105ZF	1		1
C72	ECEA1CK101	100		1
C73	ECEA1CK101	100		1
C74	ECEA1HKS010	1		1
C75	ECEA1CK101	100		1
C76	ECEA1CKS220	22		1
C77	ECEA1CK101	100		1
C78	ECEA1CK101	100		1
C79	ECEA1AU101	100		1
C80	PQCUV1H152KB	1500P		1
C81	PQCUV1H221JC	220P		1
C82	PQCUV1H391JC	390P		1
C83	PQCUV1H221JC	220P		1
C84	ECEA1EK470	47		1
C85	PQCUV1H122KB	1200P		1
C86	PQCUV1H223KB	0.022	S	1
C87	PQCUV1E473MD	0.047		1
C88	PQCUV1H103KB	0.01	S	1
C89	PQCUV1H562KB	5600P		1
C90	PQCUV1H332KB	3300P		1
C91	PQCUV1E333MD	0.033		1
C92	PQCUV1H332KB	3300P		1
C93	PQCUV1H272KB	0.0027		1
C94	ECEA1HKS010	1		1
C95	ECEA1CKS220	22		1
C96	ECEA1HKS010	1		1
C97	ECEA1CKS220	22		1
C98	ECEA1CKS100	10		1
C99	ECEA1CKS100	10		1
C100	ECEA1CKS100	10		1
C101	ECEA1CKS100	10		1
C102	PQCUV1H821JC	820P		1
C103	PQCUV1H821JC	820P		1
C104	PQCUV1H683MD	0.068	S	1
C105	PQCUV1H683MD	0.068	S	1
C106	PQCUV1H222KB	2200P		1
C107	ECEA1HU2R2	2.2		1
C108	ECEA1HU2R2	2.2		1
C109	ECEA1HKS3R3	3.3		1
C110	ECEA1HKS3R3	3.3		1
C111	PQCUV1H683MD	0.068	S	1
C112	ECEA1CK101	100		1
C113	ECEA1EU221	220		1
C114	ECEA1EU470	47		1
C115	ECEA1EU331	330		1
C116	ECEA1EU470	47		1
C117	ECEA1EU470	47		1
C118	ECKD2H681KB	680P	S	1
C119	ECKD2H681KB	680P	S	1

Ref. No.	Part No.	Value		Pcs/Set
C120	ECEA0JU471	470		1
C121	ECEA0JU102	1000		1
C122	ECEA0JU102	1000		1
C123	ECEA1AU102	1000		1
C124	PQCUV1H152KB	1500P		1
C125	PQCUV1H471JC	470P		1
C126	PQCUV1H101JC	100P		1
C127	PQCUV1H221JC	220P		1
C128	PQCUV1H101JC	100P		1
C129	PQCUV1H472KB	4700P		1
C130	PQCUV1E104MD	0.1		1
C131	PQCUV1E104MD	0.1		1
C132	PQCUV1E104MD	0.1		1
C133	PQCUV1E104MD	0.1		1
C134	PQCUV1C105ZF	1		1
C135	PQCUV1E104MD	0.1		1
C136	PQCUV1E104MD	0.1		1
C137	PQCUV1C224ZF	0.22	S	1
C138	PQCUV1H472KB	4700P		1
C139	PQCUV1H681JC	680P		1
C140	PQCUV1H683MD	0.068	S	1
C141	PQCUV1H683MD	0.068	S	1
C142	ECEA1EU4R7	4.7		1
C143	ECEA1EU4R7	4.7		1
C144	ECEA0JK221	220		1
C145	PQCUV1H103KB	0.01	S	1
C146	PQCUV1H220JC	22P		1
C147	PQCUV1H220JC	22P		1
C149	PQCUV1C105ZF	1		1
C150	PQCUV1H472KB	4700P		1
C151	PQCUV1E333MD	0.033		1
C152	PQCUV1H152KB	1500P		1
C154	PQCUV1C224ZF	0.22	S	1
C156	PQCUV1C224ZF	0.22	S	1
C157	ECEA1CKS100	10		1
C158	PQCUV1C105ZF	1		1
C159	PQCUV1C224ZF	0.22	S	1
C160	PQCUV1H101JC	100P		1
C161	PQCUV1H101JC	100P		1
C162	PQCUV1H101JC	100P		1
C163	PQCUV1H101JC	100P		1
C164	PQCUV1C105ZF	1		1
C169	PQCUV1H332KB	3300P		1
C171	PQCUV1H472KB	4700P		1

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Ref. No.	Part No.	Part Name & Description		Pcs/Set
		OPERATION P.C.BOARD PARTS		
PCB2	PQWP2T4046EH	P.C.BOARD ASS'Y (RTL)		1
		(TRANSISTOR)		
Q26A	2SD601A	TRANSISTOR(SI)		1
		(LEDS)		
DS1	LNJ322GKGAH	LED		1
DS2	LN222RPH	LED	S	1
		(COIL)		
L200	PQLQZM100K	COIL		1
		(SWITCHES)		
S 1	EVQQJJ05Q	SWITCH, DOWN		1
S 2	EVQQJJ05Q	SWITCH, UP		1
S 3	EVQQJJ05Q	SWITCH, MERCURY		1
S 4	EVQQJJ05Q	SWITCH, REDIAL		1
S 5	EVQQJJ05Q	SWITCH, PAUSE		1
S 6	EVQQJJ05Q	SWITCH, "1"		1
S 7	EVQQJJ05Q	SWITCH, "2"		1
S 8	EVQQJJ05Q	SWITCH, "3"		1
S 9	EVQQJJ05Q	SWITCH, "4"		1
S10	EVQQJJ05Q	SWITCH, "5"		1
S11	EVQQJJ05Q	SWITCH, "6"		1
S12	EVQQJJ05Q	SWITCH, "7"		1
S13	EVQQJJ05Q	SWITCH, "8"		1
S14	EVQQJJ05Q	SWITCH, "9"		1
S15	EVQQJJ05Q	SWITCH, "*"		1
S16	EVQQJJ05Q	SWITCH, "0"		1
S17	EVQQJJ05Q	SWITCH, "#"		1
S18	EVQQJJ05Q	SWITCH, RECALL		1
S19	EVQQJJ05Q	SWITCH, HOLD		1
S20	EVQQJJ05Q	SWITCH, SP-PHONE		1
S21	EVQQJJ05Q	SWITCH, PAGE		1
		(RESISTORS)		
R198A	PQ4R10XJ124	120K		1
R199A	PQ4R10XJ184	180K		1
R200A	PQ4R10XJ334	330K		1
		(CAPACITORS)		
C167A	PQCUV1E223KB	0.022		1
C200	ECEA1HKS0R1	0.1	S	1

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REPLACEMENT PARTS LIST

Model KX-T4046ER

1. RTL (Retention Time Limited)

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

2. Important safety notice

Components identified by the ⚠ mark indicates special characteristics important for safety. When replacing any of these components, only use specified manufacturer's 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=1000Ω, M=1000KΩ

All capacitors are in MICRO FARADS (μF) P=μμF

*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

*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
		CABINET & ELECTRICAL PARTS		
100	PJHE5065Z	SCREW		2
101	PQAX3P16Z	SPEAKER		1
102	PQGT12868Z	NAME PLATE		1
103	PQHE10084Z	FOAM PAD		1
104	PQKF10187Z1	CABINET COVER	S	1
105	PQKK10076Z1	BATTERY COVER	S	1
106	PQKM10262Z1	FRONT CABINET		1
107	PQSA10058Y	ANTENNA		1
108	PQSX10047Z	12KEY etc. SWITCH	S	1
109	PQSX10048Z	SHEET SWITCH		1
110	PQXA36ASVC	RECHARGEABLE BATTERY		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		MAIN P.C.BOARD PARTS		
PCB100	PQWPT4046ER	P.C.BOARD ASS'Y (RTL)		1
		(ICS)		
IC1	PQVIMC13109F	IC		1
IC2	AN6183SAE1	IC	S	1
IC3	MN150837KXAC	IC		1
IC4	PQVISC78184D	IC		1
		(TRANSISTORS)		
Q 1	2SD601A	TRANSISTOR(SI)		1
Q 2	PQVTMSC2295C	TRANSISTOR(SI)		1
Q 3	2SD601A	TRANSISTOR(SI)		1
Q 4	2SD601A	TRANSISTOR(SI)		1
Q 5	2SB1218A	TRANSISTOR(SI)		1
Q 6	2SB1218A	TRANSISTOR(SI)		1
Q 9	2SC4098QT106	TRANSISTOR(SI)		1
Q12	2SD601A	TRANSISTOR(SI)		1
Q101	XN4116	TRANSISTOR(SI)		1
Q102	XN1116	TRANSISTOR(SI)		1
		(DIODES)		
D 1	1SS314	DIODE(SI)		1
D 2	1SS314	DIODE(SI)		1
D 3	1SS120	DIODE(SI)		1
D 4	MA4100	DIODE(SI)		1
D 5	MA700A	DIODE(SI)		1
D 6	MA4100	DIODE(SI)		1
D 7	1SS120	DIODE(SI)		1
D13	MA110	DIODE(SI)		1
D101	PQVD1SV149	DIODE(SI)		1
D102	PQVD1SV149	DIODE(SI)		1
D103	MA840ATAKU	DIODE(SI)		1
D104	MA840ATAKU	DIODE(SI)		1
D	LNJ330GKGAC	LED		1
	LNJ230RKRAC	LED		1
	LNJ330GKGAC	LED		1
		(CERAMIC FILTER)		
FL1	PQVFSF107FP1	CERAMIC FILTER		1
FL2	PQVFCFWS450F	CERAMIC FILTER		1
		(COIL AND TRANSFORMAERS)		
L 1	PQLF2A2	COIL		1
L 2	PQLQZM100K	COIL		1
L 3	PQLQZM390K	COIL		1
L 4	PQLQZM100K	COIL		1
L 5	PQLQZM2R2K	COIL		1
L 6	PQLQZM100K	COIL		1
T 1	PQLA2B9	COIL		1
T 2	PQLI2B201	I.F. TRANSFORMER		1
T 3	PQLA2B8	COIL		1

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Ref. No.	Part No.	Part Name, Description, & Value	Pcs/Set
T 4	PQLA7A7	COIL	1
T 5	PQLA7A22	COIL	1
		(VARIABLE RESISTORS)	
VR1	EVM1YSX50B15	VARIABLE RESISTOR	1
VR2	EVM1YSX50B15	VARIABLE RESISTOR	1
VR3	EVM1YSX50B15	VARIABLE RESISTOR	1
		(TRIMMER CAPACITORS)	
VC1	ECRLA030E53	TRIMMER CAPACITOR	1
VC2	ECRLA050M53	TRIMMER CAPACITOR	1
VC3	ECRLA020E53	TRIMMER CAPACITOR	1
		(CRYSTALS)	
X1	PQVCJ10250N5	CRYSTAL OSCILLATOR	1
X2	PQVCJ3992N9Z	CRYSTAL OSCILLATOR	1
X3	PQVCL3276N9Z	CRYSTAL OSCILLATOR	1
		(OTHERS)	
CN1	PQJP2D13Z	CONNECTOR	1
E100	PQEFBQM111G3	BUZZER S	1
E101	PQHE10070Z	MIC SPONGE	1
E102	PQHR10519Z	MIC COVER	1
E103	PQJM124X	MICROPHONE	1
E104	PQJT10101Z	BATTERY TERMINAL	1
E105	PQJT10102Z	BATTERY TERMINAL	2
E106	PQNW10011Z	WASHER	1
		(RESISTORS)	
R 1	ERJ3GEYJ683	68K	1
R 2	ERJ3GEYJ333	33K	1
R 3	ERJ3GEYJ473	47K	1
R 4	ERJ3GEYJ100	10	1
R 5	ERJ3GEYJ104	100K	1
R 6	ERJ3GEYJ473	47K	1
R 8	ERJ3GEYJ472	4.7K	1
R 9	ERJ3GEYJ680	68	1
R10	ERJ3GEYJ333	33K	1
R11	ERJ3GEYJ433	43K	1
R12	ERJ3GEYJ822	8.2K	1
R14	ERJ3GEYJ124	120K	1
R15	ERJ3GEYJ220	22	1
R16	ERJ3GEYJ473	47K	1
R17	ERJ3GEYJ563	56K	1
R18	ERJ3GEYJ823	82K	1
R19	ERJ3GEYJ823	82K	1
R20	ERJ3GEYJ104	100K	1
R21	PQ4R10XJ104	100K	1
R22	ERJ3GEYJ683	68K	1
R23	ERJ3GEYJ103	10K	1
R24	PQ4R10XJ104	100K	1
R25	PQ4R10XJ104	100K	1

Ref. No.	Part No.	Value	Pcs/Set
R26	PQ4R10XJ472	4.7K	1
R27	PQ4R10XJ472	4.7K	1
R28	PQ4R10XJ472	4.7K	1
R31	ERJ3GEYJ153	15K	1
R32	ERJ3GEYJ223	22K	1
R33	PQ4R10XJ563	56K	1
R34	PQ4R10XJ124	120K	1
R35	ERJ3GEYJ333	33K	1
R36	ERJ3GEYJ682	6.8K	1
R37	ERJ3GEYJ474	470K	1
R38	PQ4R10XJ103	10K	1
R39	ERJ3GEYJ393	39K	1
R40	ERJ3GEYJ393	39K	1
R41	ERJ3GEYJ104	100K	1
R42	ERJ3GEYJ184	180K	1
R43	ERJ3GEYJ473	47K	1
R44	ERJ3GEYJ562	5.6K	1
R45	ERJ3GEYJ104	100K	1
R46	ERJ3GEYJ683	68K	1
R47	ERJ3GEYJ683	68K	1
R48	PQ4R10XJ561	560	1
R49	PQ4R10XJ182	1.8K	1
R50	ERJ3GEYJ104	100K	1
R51	ERJ3GEYJ682	6.8K	1
R52	ERJ3GEYJ103	10K	1
R53	ERJ3GEYJ222	2.2K	1
R54	ERJ3GEYJ223	22K	1
R55	ERJ3GEYJ223	22K	1
R56	ERJ3GEYJ470	47	1
R57	ERJ3GEYJ821	820	1
R58	ERJ3GEYJ333	33K	1
R59	ERJ3GEYJ470	47	1
R60	PQ4R10XJ472	4.7K	1
R61	PQ4R10XJ103	10K	1
R62	PQ4R10XJ562	5.6K	1
R63	PQ4R10XJ392	3.9K	1
R64	PQ4R10XJ104	100K	1
R65	PQ4R10XJ122	1.2K	1
R66	PQ4R10XJ120	12	1
R67	PQ4R10XJ681	680	1
R68	PQ4R10XJ681	680	1
R69	PQ4R10XJ332	3.3K	1
R70	PQ4R10XJ331	330	1
R71	PQ4R10XJ120	12	1
R72	PQ4R10XJ682	6.8K	1
R73	PQ4R10XJ683	68K	1
R74	PQ4R10XJ104	100K	1
R75	ERJ3GEY0R00	0	1
R76	PQ4R10XJ104	100K	1
R77	ERJ3GEY0R00	0	1
R78	ERJ3GEYJ106	10M	1
R79	PQ4R10XJ473	47K	1
R80	PQ4R10XJ223	22K	1
R83	PQ4R10XJ102	1K	1
R84	PQ4R10XJ681	680	1
R85	PQ4R10XJ681	680	1
R86	PQ4R10XJ681	680	1
R89	ERJ3GEY0R00	0	1

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

Ref. No.	Part No.	Value		Pcs/Set
R90	PQ4R10XJ106	10M		1
R91	PQ4R10XJ106	10M		1
R93	ERJ3GEYJ680	68		1
R94	ERJ3GEYJ273	27K		1
R95	ERJ3GEYJ104	100K		1
		(CAPACITORS)		
C 1	ECUV1H103KBV	0.01		1
C 2	ECUV1H0R5CCV	0.5		1
C 3	ECUV1H471JCV	470P		1
C 4	ECUV1E104ZFV	0.1		1
C 5	ECUV1H121JCV	120P		1
C 6	ECUV1H272KBV	0.0027		1
C 7	PQCUV1E104MD	0.1		1
C 8	ECUV1H511JCV	510P		1
C 9	ECUV1H271JCV	270P		1
C10	ECUV1E104ZFV	0.1		1
C11	PQCUV1C105ZF	1		1
C12	ECUV1E104ZFV	0.1		1
C13	ECUV1H103KBV	0.01		1
C14	ECEA1CKS100	10	S	1
C15	ECUV1E104ZFV	0.1		1
C16	ECUV1E104ZFV	0.1		1
C18	ECUV1C104KBV	0.1		1
C19	ECUV1C104KBV	0.1		1
C20	ECUV1C104KBV	0.1		1
C22	ECEA0JK331	330		1
C23	PQCUV1A105KB	1		1
C24	PQCUV1A105KB	1		1
C25	ECUV1E104ZFV	0.1		1
C26	ECUV1H222KBV	2200P		1
C27	ECEA1CKS470	47	S	1
C29	ECUV1E104ZFV	0.1		1
C30	ECEA1AKS330	33		1
C31	PQCUV1A105KB	1		1
C32	ECUV1C104KBV	0.1		1
C33	PQCUV1A105KB	1		1
C34	ECUV1H330JCV	33P		1
C35	ECUV1H223KBV	0.022	S	1
C36	PQCUV1C334KB	0.33		1
C37	ECUV1H223KBV	0.022	S	1
C38	PQCUV1E104MD	0.1		1
C39	PQCUV1C105ZF	1		1
C40	PQCUV1H103KB	0.01	S	1
C42	ECUV1H822KBV	0.0082		1
C43	ECUV1H300JTV	30P		1
C44	PQCUV1H683MD	0.068	S	1
C45	PQCUV1H683MD	0.068	S	1
C46	ECUV1C104KBV	0.1		1
C47	PQCUV1E104MD	0.1		1
C48	ECUV1H472KBV	4700P		1
C49	ECUV1H103KBV	0.01		1
C50	ECEA1CKS100	10	S	1

Ref. No.	Part No.	Value		Pcs/Set
C51	ECUV1H103KBV	0.01		1
C52	ECEA0JKS101	100		1
C53	ECUV1H030CCV	3P		1
C54	ECUV1H220JCV	22P		1
C55	ECUV1H150JCV	15P		1
C56	ECUV1E104ZFV	0.1		1
C57	ECEA1HKS4R7	4.7	S	1
C58	ECUV1H330JCV	33P		1
C59	ECUV1H680JCV	68P		1
C60	ECUV1H470JCV	47P		1
C61	ECUV1H103KBV	0.01		1
C62	ECUV1H220JCV	22P		1
C63	ECUV1H070DCV	7P		1
C64	ECUV1H150JCV	15P		1
C65	ECUV1H050CCV	5P		1
C66	ECUV1H103KBV	0.01		1
C67	PQCUV1H103KB	0.01	S	1
C68	PQCUV1H103KB	0.01	S	1
C69	PQCUV1H103KB	0.01	S	1
C70	PQCUV1H103KB	0.01	S	1
C71	PQCUV1H103KB	0.01	S	1
C72	PQCUV1E104MD	0.1		1
C73	ECEA0JK221	220		1
C74	PQCUV1E104MD	0.1		1
C75	PQCUV1H470JC	47P		1
C76	PQCUV1H470JC	47P		1
C77	PQCUV1H330JC	33P		1
C78	PQCUV1H330JC	33P		1
C79	PQCUV1H103KB	0.01	S	1
C80	ECUV1H821KBV	820P		1
C83	ECUV1H222KBV	2200P		1

KX-T4046E

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		ACCESSORIES AND PACKING MATERIALS		
A1	KX-A311E-1	AC ADAPTOR	⚠	1
A2	PQJA87T	TELEPHONE CORD	⚠	1
A3	PQKL10027Z1	STAND	S	1
A4	PQQT11156Y	TEL CARD LABEL		1
A5	PQQX11675Z	INSTRUCTION BOOK		1
A6	PQQW11694Z	QUICK REFERENCE GUIDE		1
P1	PQPH89Y	PROTECTION COVER (for Base Unit)		1
P2	XZB11X40A02	PROTECTION COVER (for Portable Handset)		1
P3	PQPN10566Z	CUSHION		1
P4	PQPN10567Z	CUSHION		1
P5	PQPN10568Z	CUSHION		1
P6	PQPK12357Z	GIFT BOX		1

H (Q)
KXT4026E
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